

**MEARNS CONSULTING LLC**

ENVIRONMENTAL CONSULTANTS

RISK ASSESSORS

738 Ashland Avenue, Santa Monica, California 90405

Cell 310.403.1921

Tel 310.396.9606 Fax 310.396.6878

Mearns.Consulting@verizon.net

www.MearnsConsulting.com

**Human Health Risk Assessment  
1933 Temple Avenue  
Signal Hill, California 90755**

**February 16, 2022**

**Prepared for:**

**DL Science, Inc.  
532 W. Maple Avenue  
El Segundo, California 90245**

**Prepared by:**

**Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica, California 90405**

Attachment G

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February 16, 2022

via email

Mr. David L. Lucero  
DL Science, Inc.  
532 W. Maple Avenue  
El Segundo, California 90245

RE: **Baseline Human Health Risk Assessment**  
**1933 Temple Avenue, Signal Hill, California 90755**

Dear Mr. Lucero:

I am pleased to present this Baseline Human Health Risk Assessment (HHRA) for the 0.55-acre site located at 1933 Temple Avenue in Signal Hill, Los Angeles County, California 90755 (the site) pursuant to the contract executed on January 25, 2022.

The historical use of the site is an oil field. Two previously abandoned oil wells, associated piping and oil well sumps are located onsite.

The objectives of this baseline human health risk assessment are to evaluate potential health risks to human receptors posed by concentrations of constituents detected at least one time in the soil matrix and soil vapor underlying the 0.55-acre property, and (2) to determine mitigation measures protective of human health for the proposed residential development.

This baseline human health risk assessment followed the guidance in the Department of Toxic Substances Control (DTSC) *Preliminary Endangerment Assessment (PEA) guidance manual* (DTSC 2015), U.S. Environmental Protection Agency *Risk Assessment Guidance for Superfund volume 1, Human Health Evaluation Manual (RAGs)* (USEPA 2004), the U.S. Environmental Protection Agency *Risk Assessment Guidance for Superfund volume 1, Human Health Evaluation Manual (Part F, Supplemental Guidance for Inhalation Risk Assessment)* (USEPA 2009), the DTSC *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air* (DTSC, October 2011), the *DRAFT DTSC Supplemental Guidance: Screening and Evaluating Vapor Intrusion* (DTSC, February 2020), the San Francisco Bay Regional Water Quality Control Board (SFRWQCB) *Environmental Screening Levels (ESL) model* and the Virginia Department of Environmental Quality *Virginia Unified Risk Assessment Model (VURAM)* version 3.2.

The results of the baseline human health risk assessment indicate the summed risk of the carcinogenic constituents did exceed the target threshold of  $1 \times 10^{-6}$  for the residential occupants and did exceed the target threshold of  $1 \times 10^{-5}$  for construction workers. However, these estimated risks are between  $10^{-6}$  and one in 10,000 ( $10^{-4}$ ) which are "safe and protective of public health" (Federal Register 56(20):3535, 1991) within a risk range acceptable to DTSC (February 2020).

The estimated risk for the commercial worker scenario did not exceed the target threshold of  $1 \times 10^{-5}$ .

The results of the human health risk assessment indicate that the estimated summed hazard index of the noncarcinogenic constituents did exceed the target hazard threshold of 1 for the construction worker scenario.

### **Conclusions and Recommendations**

A potential future use of the site is single family residential. The residual concentrations of tetrachloroethene detected in the soil vapor and hexavalent chromium in the soil matrix pose an adverse impact to future residential occupants due to the inhalation route of exposure. The residual concentrations of carbon chains C13-C22, cadmium, hexavalent chromium and mercury in the soil matrix poses an adverse impact to construction workers due to inhalation of particulates.

The previously abandoned oil wells should be located, daylighted and methane gas leak tested prior to the installation of vent cones and vent risers pursuant to the City of Signal Hill's Oil and Gas Code §16.24.030 and §16.24.040.

Institutional controls, i.e., a methane mitigation system to be installed subslab of any proposed buildings, pursuant to the City of Signal Hill's Oil and Gas Code §16.24.080 will effectively mitigate risks and hazards due to vapor intrusion to negligible conditions ensuring the site is safe for any future intended use including as a residential property. A redeveloped property precludes exposure to site soils by future residential occupants.

A soil management plan should be prepared prior to any grading activities to be conducted onsite. This soil management plan should provide instructions for the contractor to implement in the event discolored or odiferous soils are discovered during any grading operations. A R1166 permit should be obtained from the AQMD due to the presence of volatiles onsite prior to the start of grading operations.

Additionally, construction workers are advised to practice good hygiene and wash their hands prior to smoking or eating or drinking pursuant to 29CFR 1926.1910, 8CCR 4 and 22CCR 2.4 to mitigate contact with soils containing residual concentrations of constituents assessed.

Should you have any questions or desire additional information, please contact me at your earliest convenience at 310.403.1921.

Sincerely,

*Susan Mearns*

Susan L. Mearns, Ph.D.

**Mearns Consulting LLC**

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## EXECUTIVE SUMMARY

The 0.55-acre site located at 1933 Temple Avenue in Signal Hill, Los Angeles County, California 90755 has two previously abandoned oil wells, historic sumps and inoperable pipelines associated with these oil wells in addition to historic automotive repair. Currently the site has a garage and two metal structures onsite. Portions of the site are paved and portions are unpaved. The proposed redevelopment is eight single family residences.

The objectives of this baseline human health risk assessment are: (1) to evaluate potential health risks to human receptors posed by concentrations of constituents detected at least one time in the soil matrix and soil vapor underlying the 0.55-acre property, and (2) to determine mitigation measures protective of human health for the proposed residential development.

This baseline human health risk assessment followed the guidance in the Department of Toxic Substances Control (DTSC) *Preliminary Endangerment Assessment* (PEA) guidance manual (DTSC 2015), U.S. Environmental Protection Agency *Risk Assessment Guidance for Superfund volume 1, Human Health Evaluation Manual* (RAGs) (USEPA 2004), the U.S. Environmental Protection Agency *Risk Assessment Guidance for Superfund volume 1, Human Health Evaluation Manual* (Part F, Supplemental Guidance for Inhalation Risk Assessment) (USEPA 2009), the DTSC *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air* (DTSC, October 2011), the *DRAFT DTSC Supplemental Guidance: Screening and Evaluating Vapor Intrusion* (DTSC, February 2020), the San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESL) model and the Virginia Department of Environmental Quality Virginia Unified Risk Assessment Model version 3.2 (VURAM).

The results of the human health risk assessment indicate the summed risk of the carcinogenic constituents exceeded the target threshold of  $1 \times 10^{-6}$  for the residential occupants and exceeded the target threshold of  $1 \times 10^{-5}$  for the construction worker scenario. However, these estimated risks are between  $10^{-6}$  and one in 10,000 ( $10^{-4}$ ) which are "safe and protective of public health" (Federal Register 56(20):3535, 1991) and within a risk range acceptable to DTSC (February 2020).

The results of the human health risk assessment indicate that the estimated summed hazard index of the noncarcinogenic constituents exceeded the target hazard threshold of 1 for the construction worker scenarios.

The estimated risk for the commercial worker scenario did not exceed the target threshold of  $1 \times 10^{-5}$ .

A methane assessment of the 0.55-acre site was performed in August 2021 in accordance with the City of Signal Hill Oil and Gas Code §16.24.080, City of Signal Hill Project Development Guide (June 20, 2017), the Los Angeles Department of Building and Safety (LADBS) published, *Site Testing Standards for Methane* (Reference No. 91.7104.1, Document No. P/BC 2002- 101), effective 11/30/04, and the DTSC Methane Advisories (2005 and 2012). Methane was not detected in the field in soil vapor probes at 5-ft, 10-ft, 15-ft and 20-ft bgs.

Methane was detected in one of two soil vapor samples collected from 20-ft bgs and submitted to the Eurofins stationary laboratory at a concentration of 3.1 parts per million by volume (ppmv) at B10.

Methane mitigation subslab of proposed buildings is recommended (DL Science, Inc. August 26, 2021). The methane mitigation system should consist of a subslab impervious membrane placed inbetween geotextile or geocloth to protect it from sand above and the 4” thick gravel blanket below in conformance with the City of Signal Hill Oil and Gas Code §16.24.080 and City of Signal Hill Project Development Guide (June 20, 2017). Perforated horizontal vent pipes should be placed in the 4” thick gravel blanket and tied into vertical vent risers (typically cast iron) placed inbetween the interior and exterior walls, less than 100-feet apart, extending a minimum of 3-feet above the roof line and should not terminate less than 100- feet from any opening (City of Signal Hill June 2020).

Although designed to capture and vent methane to the atmosphere, other volatile organic compounds (VOCs) in the subsurface (both in the soil matrix and soil vapor) also will be captured and vented by this system.

**Conclusions and Recommendations** – A potential future use of the site is residential. The residual concentrations of tetrachloroethene detected in the soil vapor and hexavalent chromium in the soil matrix pose an adverse impact to future residential occupants due to inhalation routes of exposure. The residual concentration of carbon chains C13-C22, cadmium and hexavalent chromium in the soil matrix poses an adverse impact to construction workers due to the inhalation route of exposure to particulates.

The previously abandoned oil wells should be located, daylighted and methane gas leak tested prior to the installation of vent cones and vent risers pursuant to the City of Signal Hill’s Oil and Gas Code §16.24.030 and §16.24.040.

Institutional controls, i.e., a methane mitigation system to be installed subslab of any proposed buildings, pursuant to the City of Signal Hill’s Oil and Gas Code §16.24.080 will effectively mitigate risks and hazards due to vapor intrusion to negligible conditions ensuring the site is safe for any future intended use including as a residential property. A redeveloped property precludes exposure to site soils by future residential occupants.

A soil management plan should be prepared prior to any grading activities to be conducted onsite. This soil management plan should provide instructions for the contractor to implement in the event discolored or odiferous soils are discovered during any grading operations. A R1166 permit should be obtained from the AQMD due to the presence of volatiles onsite prior to the start of grading operations.

Additionally, construction workers are advised to practice good hygiene and wash their hands prior to smoking or eating or drinking pursuant to 29CFR 1926.1910, 8CCR 4 and 22CCR 2.4 to mitigate contact with soils containing residual concentrations of constituents assessed.

## 1.0 INTRODUCTION

This report presents the results of a baseline Human Health Risk Assessment (HHRA) for the 0.55-acre site located at 1933 Temple Avenue, in Signal Hill, Los Angeles County, California 90755 (the site) (Figures 1 and 2).

The purpose of this human health risk assessment is to evaluate the potential adverse health impacts due to exposure to concentrations of constituents detected in the soil matrix and soil vapor underlying the site. If a constituent was detected one time in soil sampled at 5-ft, 10-ft, 15-ft, or the boring terminus, and/or one time in soil vapor at 5-ft, 10-ft or 15-ft bgs it was retained and quantitatively assessed in this human health risk assessment.

This baseline human health risk assessment followed the guidance in the Department of Toxic Substances Control (DTSC) *Preliminary Endangerment Assessment (PEA)* guidance manual (DTSC 2015), U.S. Environmental Protection Agency *Risk Assessment Guidance for Superfund volume 1, Human Health Evaluation Manual (RAGs)* (USEPA 2004), the U.S. Environmental Protection Agency *Risk Assessment Guidance for Superfund volume 1, Human Health Evaluation Manual (Part F, Supplemental Guidance for Inhalation Risk Assessment)* (USEPA 2009), the DTSC *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air* (DTSC, October 2011), the *DRAFT DTSC Supplemental Guidance: Screening and Evaluating Vapor Intrusion* (DTSC, February 2020), the San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESL) model and the Virginia Department of Environmental Quality Virginia Unified Risk Assessment Model version 3.2 (VURAM).

## 2.0 SITE BACKGROUND

The 0.55-acre site has been an oil field since at least 1928. Historically, the site had oil derricks, sumps and pipelines.

The site is bounded to north, south and west by apartments and condominiums in Signal Hill, California 90755 (Figures 1 and 2). The Los Angeles County Assessor's Parcel Numbers for the site are 7216-021-002 and 7216-021-011.

Partner Engineering and Science, Inc. (Partner) performed a Phase I Environmental Site Assessment in 2015.

The Phase I ESA had the following conclusions:

- The historical use of the site is an oil field. There are 2 previously abandoned oil wells onsite. Various automobile repair, boat servicing, cabinet shops and small commercial/industrial businesses occupied the site from the 1940's through the 1950's.
- Recognized Environmental Conditions onsite include: (1) the previously abandoned oil wells, (2) historic sumps associated with the previously abandoned oil wells, (3) historic pipelines associated with the previously abandoned oil wells, and (4) potential residual contamination from the automotive repairs are Recognized Environmental Conditions.
- The adjacent properties include an oilfield and multifamily residences. The adjacent oilfield and operating units are Potential Recognized Environmental Conditions that may impact the site.

### 3.0 SUMMARY OF FIELD ACTIVITIES

Pursuant to the City of Signal Hill Project Development Guide (2020) DL Science, Inc. performed a Subsurface Soil and Methane/Volatile Organic Compounds (VOCs) Soil Gas Investigation, in essence a Phase II Environmental Site Assessment (Phase II ESA) for the site in August 2021.

Soil matrix samples were collected at 5-ft, 10-ft and 15-ft bgs from 8 locations (Figure 3). A truck mounted direct push rig was used to collect the soil samples. The sampling system was appropriately cleaned between each borehole; rinsate from cleaning was appropriately disposed. Soil was collected in acetate sleeves with Teflon liners and end caps with minimal headspace.

Thirty-two soil samples were logged onto a chain-of-custody form and stored in a cooler at 4°C until delivered to Jones Environmental, Inc (Jones). Analyses requested were carbon chain ranges C4-C12, C13-C23, C23-C40 via USEPA method 8015M, total threshold limit concentration (TTL) metals and hexavalent chromium via USEPA methods 6010B/7471, volatile organic compounds via USEPA 8260B, collected via USEPA 5035B in the field using Terra Core sample containers and semi-volatile organic compounds via USEPA 8270C. Jones subcontracted the hexavalent chromium analyses to SunStar Laboratories, Inc. Soil matrix analytical results are included as Appendix A.

These soil borings were then developed as triple-nested soil vapor probes at 5-feet, 10-feet and 15-feet bgs. Soil gas samples were collected in general accordance with the July 2015 DTSC and LARWQCB “*Advisory – Active Soil Gas Investigations.*”

Twenty-two soil vapor samples, including two duplicates, were collected from these soil vapor probes by a Jones Environmental, Inc. (ELAP 2882) chemist and analyzed in mobile and stationary laboratories in August 2021. Soil vapor analytical results are included as Appendix B.

Due to an elevated concentration of mercury at B10 at 5-feet bgs, DL Science, Inc. performed step-out soil matrix sampling in October 2021. Soil matrix samples were collected from 5-feet, 10-feet, 15-feet and 20-feet bgs from four locations (Figure 4) and submitted for mercury analysis to Jones. DL Science concluded the vertical and lateral extent of soil matrix impacts due to mercury were delineated and recommended a hot spot excavation and offsite disposal.

DL Science, Inc. oversaw a hotspot remedial effort in December 2021 at B10 (Figure 5). Confirmation soil matrix samples were collected from the base and sidewalls at 5-feet bgs. An additional 9 cubic yards of soil was excavated from the base, north and south sidewalls for offsite disposal based on the confirmation analytical results. New confirmation soil matrix samples were collected and analyzed. Based on these results an additional 9 cubic yards of soil was excavated from the south sidewall of the excavation, for a total of 44 cubic yards. The final confirmation soil matrix samples indicate residual concentrations of mercury of 0.935 mg/kg.

Soil matrix samples were collected from Spud Field, 1905 East 21<sup>st</sup> Street, in Signal Hill, California in April 2005 and July 2021 and analyzed for TTL metals including hexavalent chromium. The analytical data was used as Signal Hill specific background metal concentrations in two-way statistical analyses to prove the Null Hypothesis, i.e., the sample population of metals concentrations onsite is less than or equal to the sample population representative of background. These background metals analytical results are included as Appendix C.

**3.1 Site Geology** – DL Science, Inc. reported soil was very fine grained, sand or sandy silt with no discoloration or staining. No groundwater was detected in any soil boring. Boring logs are included as Appendix D.

**3.2 Soil Matrix Analytical Results** – Carbon chains C13-C22 were detected 3 times and the greatest detected concentration was 282 mg/kg. Carbon chains C23-C40 were detected 5 times and the greatest detected concentration was 920 mg/kg (Table 1).

The following metals were detected in concentrations greater than their respective reporting limits: barium, cadmium, cobalt, trivalent chromium, hexavalent chromium, copper, lead, mercury, nickel, vanadium and zinc (Table 1).

The volatile organic compounds (VOCs) benzene and toluene were detected in concentrations greater than their respective reporting limits (Table 3).

Semi-volatile organic compounds (SVOCs) were not detected in concentrations greater than the reporting limit.

**3.3 Soil Vapor Analytical Results** – The VOCs, tetrachloroethene, toluene and total xylenes were detected in concentrations greater than their respective reporting limits in the vapor phase (Table 4). Tetrachloroethene was detected at concentrations that exceeded the screening threshold.

#### **3.4 Conclusions and Recommendations**

Carbon chains, C13-C22 and C23-C40, metals and VOCs were detected in the soil matrix. Three volatile organic compounds were detected in the vapor phase in soil vapor underlying the site. Tetrachloroethene in the vapor phase was detected at concentrations that exceeded the screening threshold.

As the proposed future development for the site is residential, a baseline human health risk assessment is warranted based on the results of this Phase II ESA. The human health risk assessment should include an evaluation of potential health impacts to future residential, commercial and construction workers.

#### 4.0 CONCEPTUAL SITE MODEL

A conceptual site model was developed to identify the potential complete exposure pathways by which constituents detected in soil could impact human health (Figure 8).

The conceptual site model identifies potential sources, environmental release mechanisms, potential migration pathways, potential exposure pathways, potential exposure routes and potential human receptors onsite.

The conceptual site model identified the following potential complete exposure pathways:

- Future onsite resident
  1. ingestion/dermal contact with surface soil
  2. inhalation of constituents from surface soil entrained in dust
  3. inhalation of VOCs from soil vapor in surface and subsurface soil that have migrated to indoor air
  
- Future commercial building occupant
  1. ingestion/dermal contact with surface soil
  2. inhalation of constituents from surface soil entrained in dust
  3. inhalation of VOCs from soil vapor in surface and subsurface soil that have migrated to indoor air
  
- Future construction worker
  1. ingestion/dermal contact with surface soil
  2. inhalation of constituents from surface and subsurface soil entrained in dust
  3. inhalation of VOCs from soil vapor in surface and subsurface soil that have migrated to outdoor air, including trenches

Consumption of fruit or vegetables grown in soil is not considered to be a complete potential exposure pathway under future site conditions.

Potential direct exposures (ingestion and dermal contact) to groundwater are not complete pathways as drinking water is provided by a remote municipal water supply, so there is little chance of incidental exposure. Discharge of groundwater to surface water also is not considered to be a complete migration pathway since there are no surface water bodies that are recharged by artesian flow or groundwater seepage in the vicinity of the site.

The potential for chemicals in soil to leach to underlying groundwater used as a drinking water source is considered very low as several aquitards or aquicludes exist below the maximum depth of impacted soils and groundwater used as a drinking water source.

There is very limited ecological habitat at and near the site. Wetlands were not observed onsite or at adjacent sites. There are no natural or undisturbed areas onsite. Based on the lack of viable ecological habitat at and near the site, there are no complete ecological pathways onsite.

## 5.0 IDENTIFYING CHEMICALS OF CONCERN

All constituents detected at least one time in the soil matrix and in soil vapor underlying the site were quantitatively assessed using the appropriate exposure pathway in this risk assessment.

Pursuant to the following guidance documents, *Selecting Inorganic Constituents as Chemicals of Concern for Risk Assessments at Hazardous Waste Sites and Permitted Facilities* (DTSC 1997), *Background Metals at Los Angeles Unified School Sites – Arsenic* (DTSC 2005) and *Arsenic Strategies, Determination of Arsenic Remediation, Development of Arsenic Cleanup Goals* (DTSC 2009) the following statistical tests: (a) Wilcoxon-Mann-Whitney, (b) Gehan, (c) Tarone-Ware, (d) Multiple Box Plots, (e) Multiple Histograms and (f) Q-Q Plots, were used to determine whether detected concentrations of metals in the soil matrix onsite were within background concentrations. The results of these statistical analyses are included as Appendix E.

These two sample hypotheses tests with non-detects are based on the null hypothesis. The Null hypothesis tests whether the mean and median of the concentrations of each metal detected in onsite soils are less than or equal to the mean and median concentrations of the concentrations of the same metal detected in offsite or background soil samples.

The alternative hypothesis tested was whether the mean and median of the concentrations of detected metals in soils onsite are greater than the mean and median concentrations of the concentrations of the same metals in offsite or background soil samples.

The graphs (1) Multiple Box Plots, (2) Multiple Histograms and (3) Q-Q Plots with non-detects visually indicate whether the detected concentrations of metals in onsite soils are within the population of background metals.

The conclusion based on these quantitative statistical tests was all detected concentrations of metals onsite were within the background population. Cadmium, hexavalent chromium and mercury were not detected in the background samples; therefore, these metals were quantitatively assessed in the human health risk assessment via the ingestion, dermal contact and inhalation routes of exposure.

The maximum concentration of lead in the soil matrix, 57.8 mg/kg, is less than the threshold of 80 mg/kg; therefore, lead was not quantitatively assessed using the LeadSpread 8.0 model.

Chemicals of concern quantitatively assessed in the risk assessment include: C13-C22, C23- C40, benzene, toluene, cadmium, hexavalent chromium and mercury in the soil matrix; tetrachloroethylene (PCE), toluene and total xylenes in the vapor phase via either or both the SFRWQCB ESL model or the Virginia DEQ VURAM model version 3.2.

## **6.0 TOXICITY ASSESSMENT**

Toxicity values are combined with exposure factors to estimate noncancer adverse health effects and cancer risks. Toxicity values include reference doses (RfDs), reference concentrations (RfCs), unit risk factors (URFs) and slope factors (SFs) that are used to evaluate noncancer adverse health effects and cancer risks.

The State of California Office of Environmental Health Hazard Assessment (OEHHA) and the State of California Department of Toxic Substances Control (DTSC) Office of Human and Ecological Risk (HERO) have developed URFs SFs, RfCs and RfDs. Pursuant to regulatory agency guidance OEHHA's and HERO's values are preferentially used instead of USEPA's when available, as OEHHA's and HERO's values are generally more conservative than USEPA's (DTSC 2015, USEPA 2004).

If a constituent had both a risk factor and a reference concentration it was assessed as a carcinogen and as a noncarcinogen. The unit risk factors and reference concentrations were obtained from DTSC HERO (DTSC 2020), ATSDR, IRIS, OEHHA, PPRTV as listed in USEPA's Regional Screening Levels (November 2021) and DTSC's HERO Note 10 (February 2019).

The exposure point concentrations, the slope factors and reference doses for the constituents detected in the soil matrix and quantitatively assessed are presented in Table 5.

## 7.0 EXPOSURE ASSESSMENT

The exposure assessment provides a scientifically defensible basis for the identification of potentially exposed human receptors and the most likely ways they might be exposed to chemicals of concern at the site. As defined by USEPA (1989), the following four components are necessary for chemical exposure to occur:

- A chemical source and a mechanism of chemical release to the environment
- An environmental transport medium (e.g., soil) for the released chemical
- A point of contact between the contaminated medium and the receptor (i.e., the exposure point)
- An exposure route (e.g., ingesting chemically-impacted soil) at the exposure point

All four of these elements must be present for an exposure pathway to be considered complete and for chemical exposure to occur (USEPA 1989).

This HHRA evaluated the potential for receptors to be exposed to the maximum detected concentrations of the constituents detected in the top 15-ft of soil. The ProUCL model output is included as Appendix F.

The maximum concentrations of the VOCs detected in soil vapor at 5-ft or 15-ft underlying the site were used as the exposure point concentrations in the SFRWQCB ESL vapor intrusion model. Data collected from the soil matrix and soil vapor investigation in 2021 were used in the risk assessment. Exposure point concentrations are presented in Table 6.

**7.1 Average and Reasonable Maximum Exposures** - Typically two types of exposure scenarios are evaluated in a risk assessment; an average exposure scenario, and a reasonable maximum exposure (RME) scenario. The average exposure scenario represents a more typical exposure, believed to be most likely to occur, while the reasonable maximum exposure scenario represents a plausible worst case situation - one that is not very likely to occur. USEPA guidance (1989) recommends evaluating a reasonable maximum exposure scenario. The reasonable maximum exposure scenario estimates the exposure a receptor might receive using highly conservative intake assumptions (e.g., 90<sup>th</sup> or 95<sup>th</sup> percentile for most intake assumptions) and the upper confidence limit (UCL) on the mean of the chemical concentrations. It is assumed that by evaluating a reasonable maximum exposure scenario potential health risks to extremely sensitive individuals within a particular receptor population will be adequately addressed. As an added measure of conservatism, only a reasonable maximum exposure scenario was evaluated in this HHRA.

The DTSC PEA and USEPA guidance contain formulae that incorporate default values which were selected to be health protective. Some of these default values, such as, the exposure frequency, exposure time and exposure duration, were modified when evaluating the commercial worker and construction worker scenarios (DTSC 2015, USEPA 2004).

## 8.0 RISK CHARACTERIZATION

The risk characterization process incorporates data from the exposure and toxicity assessments. The exposure assessment information necessary to estimate risks and hazards includes the estimated chemical intakes, exposure modeling assumptions, and the exposure pathways assumed to contribute to the majority of exposure for each receptor over a given time period (USEPA 1989a). The exposure parameters for assessing the constituents detected in the soil matrix are included as Table 6.

The method by which chemicals with carcinogenic and/or noncarcinogenic effects are evaluated to determine whether they pose a risk or an adverse impact to human health is discussed below, relative to the exposure pathways by which the receptors may be exposed to the exposure point concentrations of the chemicals of concern.

**8.1 Ingestion and Dermal Contact Pathways** - To provide an evaluation of chronic risk along the ingestion and dermal contact pathways the following equations for risk and hazard were used consistent with PEA guidance (DTSC 2015).

$$\begin{aligned} \text{Risk}_{\text{soil}} = & \quad \text{SF}_o \times C_s \times \frac{\text{IR}_{s, \text{adult}} \times \text{EF} \times \text{ED}_{\text{adult}} \times 10^{-6} \text{ kg/mg}}{\text{BW}_{\text{adult}} \times \text{AT} \times \text{EF}} \\ & + \text{SF}_o \times C_s \times \frac{\text{SA}_{\text{adult}} \times \text{AF} \times \text{ABS} \times \text{EF} \times \text{ED}_{\text{adult}} \times 10^{-6} \text{ kg/mg}}{\text{BW}_{\text{adult}} \times \text{AT} \times \text{EF}} \\ & + \text{SF}_o \times C_s \times \frac{\text{IR}_{s, \text{child}} \times \text{EF} \times \text{ED}_{\text{child}} \times 10^{-6} \text{ kg/mg}}{\text{BW}_{\text{child}} \times \text{AT} \times \text{EF}} \\ & + \text{SF}_o \times C_s \times \frac{\text{SA}_{\text{child}} \times \text{AF} \times \text{ABS} \times \text{EF} \times \text{ED}_{\text{child}} \times 10^{-6} \text{ kg/mg}}{\text{BW}_{\text{child}} \times \text{AT} \times \text{EF}} \end{aligned}$$

$$\begin{aligned} \text{Hazard}_{\text{soil}} = & \quad (1/\text{RfD}_o) \times C_s \times \frac{\text{IR}_{s, \text{child}} \times \text{EF} \times \text{ED}_{\text{child}} \times 10^{-6} \text{ kg/mg}}{\text{BW}_{\text{child}} \times \text{AT}} \\ & + (1/\text{RfD}_o) \times C_s \times \frac{\text{SA}_{\text{child}} \times \text{AF} \times \text{ABS} \times \text{EF}_{\text{child}} \times \text{ED}_{\text{child}} \times 10^{-6} \text{ kg/mg}}{\text{BW}_{\text{child}} \times \text{AT}} \\ & + (1/\text{RfD}_o) \times C_s \times \frac{\text{IR}_{s, \text{adult}} \times \text{EF} \times \text{ED}_{\text{adult}} \times 10^{-6} \text{ kg/mg}}{\text{BW}_{\text{adult}} \times \text{AT}} \\ & + (1/\text{RfD}_o) \times C_s \times \frac{\text{SA}_{\text{adult}} \times \text{AF} \times \text{ABS} \times \text{EF}_{\text{adult}} \times \text{ED}_{\text{adult}} \times 10^{-6} \text{ kg/mg}}{\text{BW}_{\text{adult}} \times \text{AT}} \end{aligned}$$

Where:

$\text{SF}_o$  = cancer slope factor (mg/kg-day)<sup>-1</sup>  
 $C_s$  = concentration in soil (mg/kg)  
 $\text{RfD}_o$  = oral reference dose (mg/kg-day)

ABS = absorption fraction (dimensionless)  
ED = exposure duration (years)  
EF = exposure frequency (days/year)  
BW = body weight (kg)  
IRs = incidental soil ingestion rate (mg/day)  
SA = skin surface area (cm<sup>2</sup>/event)  
AF = soil to skin adherence factor (mg/cm<sup>2</sup>)  
AT = averaging time (days)

Chemical specific values for the absorption fractions (ABS) parameter were obtained from USEPA and DTSC (USEPA November 2021; DTSC May 2020). Toxicity and exposure point concentrations are found in Table 5. Exposure parameters for assessing constituents detected in the soil matrix are presented in Table 6. The maximum concentration of the constituents detected in the top 15-ft of soils were evaluated in this risk assessment for the residential, commercial worker and construction worker scenarios.

The exposure factors presented in Tables 5 and 6 provide a conservative estimate of chronic risk and hazard to human health due to exposure to the chemicals of concern detected in the soil matrix via the ingestion and dermal contact routes of exposure. The calculated estimates of risk and hazard due to exposure to constituents detected in the soil matrix are provided in Tables 7-10.

**8.2 Inhalation Pathway Soil Matrix** - To provide an evaluation of chronic risk along the inhalation pathway the following equations (DTSC 2015, USEPA 2009) for estimating risk and hazard due to exposure to constituents of concern detected in the soil matrix were used consistent with PEA guidance (DTSC 2015, USEPA 2009).

Semi-volatile organic compounds and metals in soil are evaluated in outdoor air using particulate emission factors (PEFs) to obtain concentrations of chemicals in dust. PEFs are used to develop an estimate of the concentration of a chemical in dust based on its concentration in soil. It assumes that the dust from the site is caused by the wind and not created by mechanical means (e.g. construction activities, tilling, automobile traffic, etc.) (DTSC 2015).

A default PEF of 1.36E+09 (m<sup>3</sup>/kg) is used for the residential and commercial worker scenarios, and a PEF of 1.00E+06 is used for the construction worker scenario (DTSC 2015, USEPA 2009). It assumes an infinite source of chemicals, a vegetative cover of 50%, and a mean annual wind speed of 4.69 m/s. This is equivalent to a dust concentration of 0.76 g/m<sup>3</sup> at the receptor. The default dispersion term (Q/C) of 90.80 (g/m<sup>2</sup>-s per kg/m<sup>3</sup>) is based on a site of 0.5 acres and dispersion modeling runs of 29 sites across the United States. The default Q/C provides a conservative estimate of the long-term exposure to dust (DTSC 2015).

$$C_a = (C_s/PEF) \times 1000\mu\text{g}/\text{mg}$$

Where:

$C_a$  = concentration in air,  $\mu\text{g}/\text{m}^3$   
 $C_s$  = concentration in soil,  $\text{mg}/\text{kg}$   
PEF = particulate emission factor

$$\text{Risk}_{\text{air}} = \frac{\text{IUR} \times C_a \times \text{ET} \times \text{EF} \times \text{ED}}{\text{AT}}$$

$$\text{Hazard}_{\text{air}} = \frac{(1/\text{RfC}) \times C_a \times \text{ET} \times \text{EF} \times \text{ED}}{\text{AT}}$$

Where:

- IUR = inhalation unit risk factor ( $\mu\text{g}/\text{m}^3$ )<sup>-1</sup>
- RfC = reference concentration ( $\mu\text{g}/\text{m}^3$ )
- C<sub>a</sub> = contaminant concentration in air ( $\mu\text{g}/\text{m}^3$ )
- ET = exposure time (hours/day)
- EF = exposure frequency (days/year)
- ED = exposure duration (years)
- AT = averaging time (hours)

The risk and hazard for the air pathway are based on either the exposure to volatile emissions for VOCs or the exposure to fugitive dust emissions for non-VOCs. The Office of Scientific Affairs defines a VOC as a chemical with a vapor pressure of 0.001 mm mercury or higher and a Henry's Law Constant of  $1 \times 10^{-5}$  or higher. Exposure to a chemical via the air pathway can be adequately performed using either volatilization or fugitive dust scenarios; it is not necessary to do both (DTSC 2015).

For this risk assessment exposure to non-VOCs detected in the soil matrix via the inhalation pathway was performed using the fugitive dust scenario.

**8.3 SFRWQCB ESL Vapor Intrusion Model** - The SFRWQCB Environmental Screening Levels vapor intrusion model (2019, Rev. 2) was used to estimate potential risk and hazard due to exposure to volatiles in soil vapor in shallow soil (10-foot bgs or less) and in deeper soil (greater than 10-foot bgs).

The maximum detected concentration was used as the exposure point concentration in this vapor intrusion model. Those chemicals of concern that had both reference doses and slope factors available were assessed as both noncarcinogenic and carcinogenic compounds.

The results of the vapor intrusion risk assessment due to exposure to carcinogenic VOCs in both shallow and deep soil are:

	Residential	Commercial
Σ Risk	2.10E-06	4.80E-07
Hazard Index	0.04	0.008

The model results are included on Tables 7 and 8 and in Appendices G and H.

**8.4 VURAM** - The Virginia Unified Risk Assessment Model version 3.2 (VURAM) was used to estimate the potential risks and hazards due to inhalation of VOCs by construction workers while working in a trench. The maximum detected concentrations of the volatiles detected in soil vapor were used as the exposure point concentrations in VURAM.

The results of the vapor intrusion risk assessment due to exposure to volatiles in soil vapor for construction workers exposed in a trench are presented below:

	Construction Worker
Σ Risk	6.86E-11
Hazard Index	0.0006

The VURAM results are included in Table 9 and as Appendix I.

**8.5 Noncancer Adverse Health Effects-** Noncarcinogenic effects or hazards are typically evaluated by comparing an exposure level over a specified time period (e.g., a lifetime or 25 years), with a reference dose based on a similar time period. Hazard quotient values less than 1 indicate that potential exposures to noncarcinogenic COCs are not expected to result in toxicity (USEPA 1989). Summing the hazard quotient values to derive a hazard index (HI) provides an estimation of the total potential hazard due to a simultaneous exposure to all the noncarcinogenic COCs. However, summing hazard quotient values is not necessary when the chemicals of concern target different organs within the body (USEPA 1989, DTSC 2015). Although the noncarcinogenic chemicals of concern quantitatively assessed in this risk assessment target different organs within the body, the estimated hazard quotients were summed to derive a HI.

**8.6 Lifetime Excess Cancer Risk -** Slope factors are used to estimate the potential risk associated with exposure to individual COCs. The slope factor is multiplied by the chronic daily intake averaged over 70 years to estimate lifetime excess cancer risk. "Excess" or "incremental" cancer risk represents the probability of an individual developing cancer over a lifetime as a result of chemical exposure, over and above the baseline or "background" cancer risk in the general population. Cancer risks and noncancer health hazards estimated in the HHRA are regarded as estimated or theoretical results developed on the basis of the toxicity factors, chemical fate and transport, exposure assumption, and other inputs previously described. Cancer risks do not represent actual cancer cases in actual people. Rather, risks are calculated on the basis of an entirely hypothetical set of conditions. This assumed "exposure scenario" is developed to protect human health, and is based on standard USEPA and Cal-EPA methods and assumptions.

USEPA characterizes theoretical excess lifetime cancer risks below one in one million ( $10^{-6}$ ) as not of concern and has stated that risks between  $10^{-6}$  and one in 10,000 ( $10^{-4}$ ) are "safe and protective of public health" (Federal Register 56(20):3535, 1991). Remedial action is not generally required by USEPA for sites with a theoretical lifetime excess risk of less than  $10^{-4}$ ; whereas the State of California uses a risk-management approach (DTSC 2011). The DRAFT guidance indicates DTSC considers the risk range between  $10^{-4}$  and  $10^{-6}$  in risk management decisions (DTSC February 2020).

The more stringent target risk of  $10^{-6}$  is typically applied to residential receptors. To provide perspective, a total theoretical lifetime excess cancer risk of one in 100,000 ( $10^{-5}$ ) is frequently accepted by Cal-EPA for worker receptors at California sites, and the target risk for chemicals evaluated under State Proposition 65 regulations is  $10^{-5}$  (22CCR 12703).

**8.7 Multipathway Cancer Risk -** Based on regulatory guidelines, it is appropriate to combine risk estimates across exposure pathways for a given receptor. At the same time, exposure to multiple carcinogenic COCs is also typically considered to be additive. For exposures to multiple pathways and chemicals, the following equation was used to estimate total theoretical lifetime excess carcinogenic risks:

$$\text{Total Risk} = \sum_{p=1}^m \sum_{i=1}^n \text{CR}_{i,p}$$

Where:

Total Risk = Excess cancer risk from exposure to n chemicals via m pathways  
m = Number of exposure pathways  
n = Number of chemicals  
CR<sub>i,p</sub> = Potential cancer risk from exposure to chemical i via pathway p

This equation was used to estimate the total potential cancer risks due to exposure to the carcinogenic COCs via the ingestion, dermal contact and inhalation routes of exposure. The estimated risks, total risk, estimated hazards and hazard index are presented in Tables 7-10.

## 8.8 Estimation of Risks and Hazards

### Residential Scenario

ANALYTE	RISK <sub>o</sub>	RISK <sub>i</sub>	HAZARD <sub>o</sub>	HAZARD <sub>i</sub>
<b>Soil</b>				
C13-C22			3.31E-01	6.62E-02
C23-C40			1.08E-01	
Benzene	1.83E-09	6.82E-12	4.58E-06	9.16E-07
Toluene			7.64E-08	3.05E-09
Cadmium		6.58E-07	9.17E-03	1.83E-01
Chromium <sup>+6</sup>	2.91E-07	1.45E-06	1.94E-04	1.13E-03
Mercury			2.12E-02	2.20E-02
<b>Soil vapor</b>				
Tetrachloroethene		2.10E-06		2.30E-02
Toluene				2.20E-03
Total xylenes				1.10E-02
<b>Sum</b>	2.93E-07	4.21E-06	0.47	0.31
Σ Risk = 4.56E-06				
HI = 0.78				

These estimated risk and hazards values are presented in Tables 7 and 10.

**Commercial Worker Scenario**

ANALYTE	RISK <sub>o</sub>	RISK <sub>i</sub>	HAZARD <sub>o</sub>	HAZARD <sub>i</sub>
<b>Soil</b>				
C13-C22			1.11E-01	1.18E-02
C23-C40			3.62E-02	
Benzene	6.14E-10	6.74E-12	1.53E-06	1.63E-07
Toluene			2.56E-08	5.45E-10
Cadmium		6.50E-07	1.88E-03	3.27E-02
Chromium <sup>+6</sup>	6.40E-08	1.43E-06	4.26E-05	2.01E-04
Mercury			4.67E-03	3.92E-03
<b>Soil vapor</b>				
Tetrachloroethene		4.80E-07		5.50E-03
Toluene				5.30E-04
Total xylenes				2.60E-03
<b>Sum</b>	6.46E-08	2.56E-06	0.15	0.06
Σ Risk = 2.63E-06				
HI = 0.21				

These estimated risk and hazards values are presented in Tables 8 and 10.

**Construction Worker Scenario**

ANALYTE	RISK <sub>o</sub>	RISK <sub>i</sub>	HAZARD <sub>o</sub>	HAZARD <sub>i</sub>
<b>Soil</b>				
C13-C22			1.63E-02	3.21E+01
C23-C40			5.33E-03	
Benzene	9.04E-11	4.52E-10	2.26E-07	4.45E-04
Toluene			3.77E-09	1.48E-06
Cadmium		4.37E-05	2.48E-04	8.89E+01
Chromium <sup>+6</sup>	8.64E-09	9.60E-05	5.76E-06	5.47E-01
Mercury			6.31E-04	1.07E+01
<b>Soil vapor</b>				
Tetrachloroethene		6.86E-11		4.73E-04
Toluene				4.76E-06
Total xylenes				7.76E-05
<b>Sum</b>	8.73E-09	1.40E-04	0.02	0.06
Σ Risk = 1.40E-04				
HI = 132				

These estimated risk and hazards values are presented in Tables 9 and 10.

## 9.0 MITIGATION MEASURES

Institutional controls, i.e., the required methane mitigation system to be installed subslab of the proposed buildings and paving of surface soils for parking effectively mitigates the risks and hazards to negligible conditions ensuring the site is safe for the future intended use as a residential property.

Methane mitigation subslab of proposed buildings is recommended based on the Methane Assessment (DL Science, Inc. August 26, 2021). The methane mitigation system should consist of a subslab impervious membrane placed inbetween geotextile or geocloth to protect it from sand above and the 4" thick gravel blanket below in conformance with the City of Signal Hill Oil and Gas Code §16.24.080 and City of Signal Hill Project Development Guide (June 2020). Perforated horizontal vent pipes should be placed in the 4" thick gravel blanket and tied into vertical vent risers (typically cast iron) placed inbetween the interior and exterior walls, less than 100-feet apart, extending a minimum of 3-feet above the roof line and should not terminate less than 100-feet from any opening (City of Signal Hill June 2020).

Although designed to capture and vent methane to the atmosphere, other volatile organic compounds in the subsurface (both in the soil matrix and soil vapor) also will be captured and vented by this system.

If an impervious surface paving area is 5,000 square feet or greater and contiguous to the proposed buildings, the paving should have vents spaced less than 100-ft apart consisting of four sided concrete boxes with traffic rated grates and 4" thick gravel blanket at the base. The vents should be designed to prevent surface water infiltration.

A soil management plan should be prepared to provide guidance to building contractors in the event discolored or odiferous soils or soils with elevated VOCs are discovered during onsite excavation and grading activities.

Additionally, construction workers are advised to practice good hygiene and wash their hands prior to smoking or eating or drinking pursuant to 29CFR 1926.1910, 8CCR 4 and 22CCR 2.4 to mitigate contact with soils containing petroleum hydrocarbons.

A Rule 1166 Permit/Compliance Plan should be obtained from the South Coast Air Quality Management District prior to site grading. VOC monitoring under an Air Quality Management District R1166 Permit ensures construction workers are protected from VOCs during earthwork.

## 10.0 UNCERTAINTY ANALYSIS

The uncertainty analysis characterizes the propagated uncertainty in health risk assessments. These uncertainties are driven by variability in:

- The chemical data selection and assumptions used in the models with which concentrations at receptor locations were estimated.
- The variability of receptor intake parameters.
- The accuracy of toxicity values used to characterize exposure, hazards and cancer risks.

Additionally, uncertainties are introduced in the risk assessment when exposures to several substances across multiple pathways are summed.

Quantifying uncertainty is an essential element of the risk assessment process. According to USEPA's Guidance on Risk Characterization for Risk Managers and Risk Assessors, point estimates of risk "do not fully convey the range of information considered and used in developing the assessment" (USEPA 1992). The following components of the risk assessment process can introduce uncertainties:

- Data Collection and Evaluation
- Exposure Assessment
- Toxicity Assessment
- Risk Characterization

**10.1 Data Collection and Evaluation** - The techniques used for data sampling and analysis and the methods used for identifying chemicals for evaluation in this risk assessment, may result in a number of uncertainties. These uncertainties are itemized below in the form of assumptions.

- It was assumed that the nature and extent of chemical impacts on and near the site have been adequately characterized. If this assumption is not valid, then potential health impacts may be over- or underestimated.
- Systematic or random errors in the chemical analyses may yield erroneous data. These types of errors may result in a slight over- or underestimation of risk.

**10.2 Exposure Assessment** - A number of uncertainties are associated with the exposure assessment, including estimation of exposure point concentrations and assumptions used to estimate chemical intakes. Key uncertainties associated with these components of the HHRA are summarized below.

**10.2.1 Exposure Pathways** - The exposure pathways evaluated in this HHRA are expected to represent the primary pathways of exposure, based on the results of the chemical analyses, and the expected fate and transport of these chemicals in the environment. Minor or secondary pathways may also exist, but often cannot be identified or evaluated using the available data. The contribution of secondary pathways to the overall risk from the site is not likely to be significant. In addition, intake assumptions are reflective of trends (usually for the most sensitive individual within an entire population), and as such are subject to intrinsic variability. In both cases, their presence introduces a level of uncertainty to this risk assessment process.

**10.3 Toxicity Assessment** - Toxicity information for many chemicals is often limited. Consequently, there are varying degrees of uncertainty with the calculated toxicity values. Sources of uncertainty associated with toxicity values include:

- Using dose-response information from effects observed at high doses to predict the adverse health effects that may occur following exposure to the low levels expected from human contact with the agent in the environment.
- Using dose-response information from short-term exposures to predict the effects of long-term exposures.
- Using dose-response information from animal studies to predict effects in humans.
- Using dose-response information from homogeneous animal populations or human populations to predict the effects likely to be observed in the general population consisting of individuals with a wide range of sensitivities.

To compensate for these uncertainties, USEPA typically applies a margin of safety when promulgating human toxicity values. Therefore, use of USEPA toxicity values likely results in an overestimation of potential hazard and risk.

**10.4 Risk Characterization** - The reasonable maximum exposure scenario risk characterization represents an over-estimation of risk. Site-specific information regarding depth below ground at which the constituents of concern were detected was not used in the equations. The reasonable maximum exposure scenario estimated the risk to the receptors based on the maximum detected concentrations for the constituents quantitatively assessed in this risk assessment.

**10.5 Summary of Risk Assessment Uncertainties** - The analysis of the uncertainties associated with this risk assessment indicates that the estimated risks and hazards derived from the equations in the PEA Manual (DTSC 2015), the RAGs Manual (USEPA 2009), the LeadSpread Model (DTSC) and the ESL and VURAM vapor intrusion models for the reasonable maximum exposure scenario represent an over-estimation of risk. Although as outlined in the sections above, many factors can contribute to the over- or underestimation of risk, in general, a mixture of conservative and upper-bound input values were identified to estimate potential exposures. Compounding conservative and upper-bound input values in the risk assessment process are intended to lead to reasonable, maximum, health-conservative estimates. The actual impacts to human health are most likely less than those estimated in this HHRA for the evaluated receptors and pathways.

## 11.0 REFERENCES

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# **TABLES**

**Table 1 - Metals and Carbon Chains Analytical Results in Soil Matrix**

SAMPLE ID	DATE SAMPLED	As mg/kg	Ba mg/kg	Cd mg/kg	Co mg/kg	Cr mg/kg	Cr <sup>6</sup> mg/kg	Cu mg/kg	Hg mg/kg	Ni mg/kg	Pb mg/kg	V mg/kg	Zn mg/kg	C4-C12 mg/kg	C13-C22 mg/kg	C23-C40 mg/kg
RSLr		0.68	15,000	71	23	120,000	0.3	3,100	11		400	390	23,000	82	97	230,000
DTSC-SLr		0.11		71		36,000	0.3		1	820	80	390			97	2,400
RSLi		3	220,000	100	350	1,800,000	6.3	47,000	46		800	5,800	350,000	420	560	3,500,000
DTSC-SLi		0.36		780		170,000	6.2		4	11,000	320	1,000			500	18,000
ESL Tier 1		0.067	390	19	23	120,000	0.3	180	13	86	32	18	340			
B1-5	8/4/2021	<S	86.2	1.6	7.2	15.4	0.12	17.5	0.06	11.8	12.4	28.5	47	<0.20	<10	<10
B1-10	8/4/2021	<S	48.1	1.5	5.8	13.6	0.069	7	0.031	9.7	3	28.7	32.5	<0.20	<10	<10
B1-15	8/4/2021	<S	37.1	1	4.8	8.5	0.071	3.2	<0.02	6.2	1.3	18.4	24.6	<0.20	<10	<10
B2-5	8/4/2021	<S	49.3	1.3	4.7	12.2	<0.001	6.3	0.033	8.3	2.7	25	26.8	<0.20	<10	<10
B2-10	8/4/2021	<S	35.8	0.9	4.4	7.9	<0.001	2.9	<0.02	6.1	1.2	16.4	22.5	<0.20	<10	<10
B2-15	8/4/2021	<S	31.2	1.2	5	9.1	0.083	3.7	<0.02	8.1	1.5	19.6	28.2	<0.20	<10	<10
B3-5	8/4/2021	<S	58	1.6	5.3	17.4	0.096	8.7	0.035	9.9	5.1	28.9	32.4	<0.20	<10	<10
B3-10	8/4/2021	<S	45.1	1	4.5	9.4	<0.001	3.4	0.022	6.8	1.9	18.8	24.4	<0.20	<10	<10
B3-15	8/4/2021	<S	28.6	1.1	4.5	8.7	<0.001	3.1	<0.02	6.2	1.4	20.3	23.8	<0.20	<10	<10
B4-5	8/4/2021	<S	40.1	1	4.1	9.2	0.09	4.8	<0.02	5.7	2.2	18.8	17.7	<0.20	<10	<10
B4-10	8/4/2021	<S	48.3	1.5	5.6	14.1	<0.001	7.4	0.029	9.4	2.8	27.1	30.9	<0.20	<10	<10
B4-15	8/4/2021	<S	39	1.1	4.8	9.8	0.088	3.9	<0.02	6.6	1.5	22.6	26.9	<0.20	<10	<10
B5-5	8/4/2021	<S	55.9	1.3	6.6	13.7	0.055	7.3	0.027	7.7	3	26.1	27.5	<0.20	<10	<10
B5-10	8/4/2021	<S	39.4	1.1	4.7	9.3	<0.001	3.9	0.021	7.5	1.5	19.5	23.2	<0.20	<10	<10
B5-15	8/4/2021	<S	36.3	1.1	4.7	9.2	<0.001	3.3	<0.02	6.3	1.5	20.6	24.9	<0.20	<10	<10
B6-5	8/4/2021	<S	580	2.6	12	24.4	0.13	26.5	0.101	23.1	57.8	37.3	105	<0.20	72.9	920
B6-10	8/4/2021	<S	50	1.3	6.1	11	0.094	11.4	0.073	9.2	7.1	20	57	<0.20	<10	<10
B6-15	8/4/2021	<S	68.7	1.8	7.7	17.4	<0.001	7.4	0.028	10.1	3.7	35	35.2	<0.20	<10	<10
B7-5	8/4/2021	<S	88.2	1.3	4.5	11.9	0.081	7	0.043	6.7	4.2	24.6	23.4	<0.20	<10	271
B7-10	8/4/2021	<S	58.8	1.2	5.6	11.7	0.09	6.4	0.027	7.2	3.1	22	21.2	<0.20	<10	<10
B7-15	8/4/2021	<S	43.1	1.1	5.2	11.1	0.1	5.3	<0.02	7.4	2.5	21.5	22.3	<0.20	<10	<10
B8-5	8/4/2021	<S	120	1.6	6	14.2	0.076	23.2	0.187	12.1	45	24.8	118	<0.20	42.8	307
B8-10	8/4/2021	<S	117	1.3	5.5	13.2	0.093	10.1	0.045	7.8	13.5	23.9	37.4	<0.20	<10	<10
B8-15	8/4/2021	<S	53.6	1.6	6.1	13.9	<0.001	7.4	0.023	9.3	3.1	29	32	<0.20	<10	<10
B9-5	8/4/2021	<S	96.7	1.7	6.6	15.6	0.16	20.2	0.085	10.8	19	27.8	74.7	<0.20	<10	132
B9-10	8/4/2021	<S	53.4	1.6	5.1	15.7	0.087	8.2	0.043	10.1	2.8	30.6	31.4	<0.20	<10	<10
B9-15	8/4/2021	<S	25.4	0.8	3.5	6.9	<0.001	2.8	<0.02	5	1.2	17.4	19	<0.20	<10	<10
B9-20	8/4/2021	<S	54.6	1.6	13.9	19.6	<0.001	6.8	0.023	12.1	2.2	32	38.2	<0.20	<10	<10
B10-5	8/4/2021	<S	81	1.4	5.3	21.3	0.11	19.3	<b>4.168</b>	9.2	22.4	20.9	66.3	<0.20	<10	69.1
B10-10	8/4/2021	<S	76	0.9	3.5	12.8	0.083	4.9	0.037	5.4	2.6	18.9	16.4	<0.20	<10	<10
B10-15	8/4/2021	<S	47.7	1.2	5.4	11	<0.001	5.1	<0.02	7	2	23.2	23.8	<0.20	<10	<10
B10-20	8/4/2021	<S	49	1.8	8.6	19.7	<0.001	8.5	<0.02	21.1	1.8	35.9	46.9	<0.20	<10	<10
N sidewall	12/20/2021								0.044							
S sidewall	12/21/2021	<S	42	0.6	3	7.3	0.18	6.3	0.047	8.9	8.6	16.5	24	<0.2	282	656
E Sidewall	12/20/2021								0.935							
W Sidewall	12/20/2021								0.025							
Bottom	12/20/2021								<0.02							

Notes:

mg/kg = milligram per kilogram

As = arsenic, Ba = barium, Cd = cadmium, Co = cobalt, Cr = trivalent chromium, Cr<sup>6</sup> = hexavalent chromium, Cu = copper, Hg = mercury, Ni = nickel, Pb = lead, V = vanadium, Zn = zinc

<x = concentration is less than the Reporting Limit (x), i.e., not detected (ND)

SB1-5 = Soil Boring 1, 5-feet below ground surface (bgs)

**BOLD** = value exceeds the DTSC or USEPA screening level

Analytical results are included as Appendix A

Soil was collected from 5-foot, 10-foot bgs and 15-foot bgs from the same boring. Borings 9 and 10 were extended to 20-foot bgs.

Only detected concentrations of metals are presented in this table. All other metals were ND.

ESL Tier 1 = San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels 2019 (Rev. 2)

RSLr = USEPA Regional Screening Level for residential soils, RSLi = USEPA Regional Screening Levels for industrial soils (November 2021)

DTSC SLr = CalEPA DTSC Screening Level for residential soils, DTSC SLi = CalEPA DTSC Screening Level for industrial soils (June 2020)

**Table 1 - Metals and Carbon Chains Analytical Results in Soil Matrix**

SAMPLE ID	DATE SAMPLED	As mg/kg	Ba mg/kg	Cd mg/kg	Co mg/kg	Cr mg/kg	Cr <sup>6</sup> mg/kg	Cu mg/kg	Hg mg/kg	Ni mg/kg	Pb mg/kg	V mg/kg	Zn mg/kg	C4-C12 mg/kg	C13-C22 mg/kg	C23-C40 mg/kg
RSL <sub>r</sub>		0.68	15,000	71	23	120,000	0.3	3,100	11		400	390	23,000	82	97	230,000
DTSC-SL <sub>r</sub>		0.11		71		36,000	0.3		1	820	80	390			97	2,400
RSL <sub>i</sub>		3	220,000	100	350	1,800,000	6.3	47,000	46		800	5,800	350,000	420	560	3,500,000
DTSC-SL <sub>i</sub>		0.36		780		170,000	6.2		4	11,000	320	1,000			500	18,000
ESL Tier 1		0.067	390	19	23	120,000	0.3	180	13	86	32	18	340			

carcinogenic values were preferentially used for all screening levels, except cadmium, nickel and TPH

DTSC SL C17-C32, aromatic high and USEPA aromatic high values were used for C23-C40

DTSC SL C9-C16, aromatic medium and USEPA aromatic medium values were used for C13-C22

B10-5 was excavated to approximately 11-feet bgs and the soil appropriately disposed due to the elevated concentration of mercury, sidewall and bottom samples were collected

**Table 2 - Background Metals Analytical Results in Soil Matrix**

SAMPLE ID	DATE SAMPLED	As mg/kg	Ba mg/kg	Cd mg/kg	Co mg/kg	Cr mg/kg	Cr <sup>6</sup> mg/kg	Cu mg/kg	Hg mg/kg	Ni mg/kg	Pb mg/kg	V mg/kg	Zn mg/kg
RSL <sub>r</sub>		0.68	15,000	71	23	120,000	0.3	3,100	11		400	390	23,000
DTSC-SL <sub>r</sub>		0.11		71		36,000	0.3		1	820	80	390	
RSL <sub>i</sub>		3	220,000	100	350	1,800,000	6.3	47,000	46		800	5,800	350,000
DTSC-SL <sub>i</sub>		0.36		780		170,000	6.2		4	11,000	320	1,000	
ESL Tier 1		0.067	390	19	23	120,000	0.3	180	13	86	32	18	340
Offsite-1	4/4/2005	5.2	97	<0.51	8.1	21		25	<0.16	12	12	35	62
Offsite-5	4/4/2005	12	160	<0.51	17	50		64	<0.18	30	8.1	75	99
Offsite-10	4/4/2005	12	170	<0.51	14	32		35	<0.18	22	5.6	58	67
Offsite-20	4/4/2005	14	73	<0.51	17	35		80	<0.15	22	10	67	95
SB1-5	7/6/2021	<5.5	84	<2.5	11	36	<0.10	40	<0.9	21	8.8	46	54
SB2-5	7/6/2021	<5.5	69	<2.5	9.3	21	<0.10	26	<0.9	15	<7.1	36	39
SB3-5	7/6/2021	<5.5	48	<2.5	4.6	9	<0.10	16	<0.9	6.2	<7.1	16	29
SB4-5	7/6/2021	<5.5	170	<2.5	14	42	<0.10	45	<0.9	26	9.5	58	74
SB5-5	7/6/2021	<5.5	97	<2.5	16	30	<0.10	40	<0.9	27	8.5	52	56
SB6-5	7/6/2021	<5.5	130	<2.5	22	42	<0.10	46	<0.9	33	11	71	85
SB7-5	7/6/2021	<5.5	80	<2.5	12	24	<0.10	26	<0.9	19	<7.1	43	47
SB8-5	7/6/2021	<5.5	180	<2.5	17	38	<0.10	37	<0.9	32	11	68	51
SB9-5	7/6/2021	<5.5	87	<2.5	14	30	<0.10	28	<0.9	24	9	54	38
SB10-5	7/6/2021	<5.5	98	<2.5	13	27	<0.10	30	<0.9	23	7.5	51	39
SB11-5	7/6/2021	<5.5	120	<2.5	9.8	22	<0.10	14	<0.9	16	<7.1	39	31

Notes:

mg/kg = milligram per kilogram

As = arsenic, Ba = barium, Cd = cadmium, Co = cobalt, Cr = trivalent chromium, Cr<sup>6</sup> = hexavalent chromium, Cu = copper, Hg = mercury, Ni = nickel, Pb = lead, V = vanadium, Zn = zinc  
 <x = concentration is less than the Reporting Limit (x), i.e., not detected (ND)

SB1-5 = Soil Boring1, 5-feet below ground surface (bgs)

Analytical results are included as Appendix B

ESL Tier 1 = San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels 2019 (Rev. 2)

RSL<sub>r</sub> = USEPA Regional Screening Level for residential soils, RSL<sub>i</sub> = USEPA Regional Screening Levels for industrial soils (November 2021)

DTSC SL<sub>r</sub> = CalEPA DTSC Screening Level for residential soils, DTSC SL<sub>i</sub> = CalEPA DTSC Screening Level for industrial soils (June 2020)

carcinogenic values were preferentially used for all screening levels, except nickel

hexavalent chromium was not an analyte in 2005

**Table 3 - VOCs Analytical Results in Soil Matrix**

<b>SAMPLE ID</b>	<b>DATE SAMPLED</b>	<b>Benzene mg/kg</b>	<b>Toluene mg/kg</b>
RSL <sub>r</sub>		1.2	4,900
DTSC-SL <sub>r</sub>		0.33	1,100
RSL <sub>i</sub>		5.1	5,200
DTSC-SL <sub>i</sub>		1.4	5,300
ESL Tier 1		0.025	3.2
B1-5	8/4/2021	<0.001	<0.001
B1-10	8/4/2021	<0.001	<0.001
B1-15	8/4/2021	<0.001	<0.001
B2-5	8/4/2021	<0.001	<0.001
B2-10	8/4/2021	<0.001	<0.001
B2-15	8/4/2021	<0.001	<0.001
B3-5	8/4/2021	<0.001	<0.001
B3-10	8/4/2021	<0.001	<0.001
B3-15	8/4/2021	<0.001	<0.001
B4-5	8/4/2021	<0.001	<0.001
B4-10	8/4/2021	<0.001	<0.001
B4-15	8/4/2021	<0.001	<0.001
B5-5	8/4/2021	<0.001	<0.001
B5-10	8/4/2021	<0.001	<0.001
B5-15	8/4/2021	<0.001	<0.001
B6-5	8/4/2021	<0.001	<0.001
B6-10	8/4/2021	<0.001	<0.001
B6-15	8/4/2021	<0.001	<0.001
B7-5	8/4/2021	<0.001	<0.001
B7-10	8/4/2021	<0.001	<0.001
B7-15	8/4/2021	<0.001	<0.001
B8-5	8/4/2021	0.0039	0.0013
B8-10	8/4/2021	<0.001	<0.001
B8-15	8/4/2021	<0.001	<0.001
B9-5	8/4/2021	<0.001	<0.001
B9-10	8/4/2021	<0.001	<0.001
B9-15	8/4/2021	<0.001	<0.001
B9-20	8/4/2021	<0.001	<0.001
B10-5	8/4/2021	<0.001	<0.001
B10-10	8/4/2021	<0.001	<0.001
B10-15	8/4/2021	<0.001	<0.001
B10-20	8/4/2021	<0.001	<0.001

Notes:

mg/kg = milligram per kilogram

<x = concentration is less than the Reporting Limit (x ), i.e., not detected (ND)

SB1-5 = Soil Boring1, 5-feet below ground surface (bgs)

**BOLD** = value exceeds the DTSC or USEPA screening level

Analytical results are included as Appendix A

Soil was collected from 5-feet, 10-feet bgs and 15-feet bgs from the same boring.

Only detected concentrations of VOCs are presented in this table. All other VOCs were ND.

ESL Tier 1 = San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels 2019 (Rev. 2)

RSL<sub>r</sub> = USEPA Regional Screening Level for residential soils, RSL<sub>i</sub> = USEPA Regional Screening Levels for industrial soils (November 2021)

### **Table 3 - VOCs Analytical Results in Soil Matrix**

DTSC  $SL_r$  = CalEPA DTSC Screening Level for residential soils, DTSC  $SL_i$  = CalEPA DTSC Screening Level for industrial soils (June 2020)

carcinogenic values were preferentially used for all screening levels

**Table 4 - Soil Vapor Analytical Results**

SAMPLE ID	DATE SAMPLED	Tetrachloroethene $\mu\text{g}/\text{m}^3$	Toluene $\mu\text{g}/\text{m}^3$	m,p-Xylenes $\mu\text{g}/\text{m}^3$	o-Xylene $\mu\text{g}/\text{m}^3$
RSL <sub>r</sub>		11	5,200	100	100
DTSC-SL <sub>r</sub>		0.46	83		
RSL <sub>i</sub>		47	22,000	440	440
DTSC-SL <sub>i</sub>		2	350		
ESL Tier 1		15	10,000	3,500	3,500
B1-5	8/17/2021	<8	<8	<16	<8
B1-15	8/17/2021	<8	<8	<16	<8
B2-5	8/17/2021	<b>8</b>	<8	<16	<8
B2-15	8/17/2021	<8	<8	<16	<8
B3-5	8/17/2021	<8	23	20	18
B3-15	8/17/2021	<b>9</b>	<8	<16	<8
B4-5	8/17/2021	<b>13</b>	<8	<16	<8
B4-15	8/17/2021	<b>24</b>	<8	<16	<8
B5-5	8/17/2021	<b>30</b>	<8	<16	<8
B5-15	8/17/2021	<8	15	<16	<8
B6-5	8/17/2021	<8	<8	<16	<8
B6-5 REP	8/17/2021	<8	<8	<16	<8
B6-15	8/17/2021	<8	<8	<16	<8
B7-5	8/17/2021	<8	<8	<16	<8
B7-15	8/17/2021	<8	<8	<16	<8
B8-5	8/17/2021	<8	<8	<16	<8
B8-5 REP	8/17/2021	<8	<8	<16	<8
B8-15	8/17/2021	<b>11</b>	<8	<16	<8
B9-5	8/17/2021	<8	<8	<16	<8
B9-15	8/17/2021	<8	<8	<16	<8
B10-5	8/17/2021	<b>32</b>	<8	<16	<8
B10-15	8/17/2021	<b>12</b>	<8	<16	<8

Notes:  $\mu\text{g}/\text{m}^3$  = micrograms per cubic meter

<x = concentration is less than the Reporting Limit, i.e., not detected; BOLD exceeds the screening level

Blank cell screening threshold not available

Analytical results are included as Appendix C

Only detected concentrations of volatiles in the vapor phase are presented in this table

Soil vapor was collected from dual-nested soil vapor probes installed at 5-foot bgs and 15-foot bgs

ESL Tier 1 = San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels 2019 (Rev. 2)

RSL<sub>r</sub> = USEPA Regional Screening Level for residential air, RSL<sub>i</sub> = USEPA Regional Screening Levels for industrial air (November 2021)

DTSC SL<sub>r</sub> = CalEPA DTSC Screening Level for residential air, DTSC SL<sub>i</sub> = CalEPA DTSC Screening Level for industrial air (June 2020)

**Table 5 - Exposure Point Concentrations, Slope Factors and Reference Doses**

SOIL MATRIX ANALYTE	MAX mg/kg	95UCL mg/kg	SFo	IUR	RfDo	RfCi
C13-C22	282				4.0E-03 <sup>b</sup>	3.0E+00 <sup>b</sup>
C23-C40	920	146.4			4.0E-02 <sup>b</sup>	
benzene	0.0039		1.0E-01 <sup>a</sup>	2.9E-05 <sup>a</sup>	4.0E-03 <sup>a</sup>	3.0E+00 <sup>a</sup>
toluene	0.0013				8.0E-02 <sup>a</sup>	3.0E+02 <sup>a</sup>
cadmium	2.6	1.436		4.2E-03 <sup>a</sup>	1.0E-03 <sup>a</sup>	1.0E-02 <sup>a</sup>
hexavalent chromium	0.16	0.0231	5.0E-01 <sup>a</sup>	1.5E-01 <sup>a</sup>	3.0E-03 <sup>a</sup>	1.0E-01 <sup>a</sup>
mercury	0.935	0.175			1.6E-04 <sup>a</sup>	3.0E-02 <sup>a</sup>
SOIL VAPOR ANALYTE	MAX $\mu\text{g}/\text{m}^3$	95UCL $\mu\text{g}/\text{m}^3$				
tetrachloroethene	32			ESL & VURAM models		ESL & VURAM models
toluene	23					ESL & VURAM models
m,p-xylenes	20					ESL & VURAM models
o-xylene	18					ESL & VURAM models

Notes:

95UCL calculated using ProUCL version 5.1.02

EPCs are highlighted

SFo = Slope Factor, oral route of exposure (mg/kg-day)<sup>-1</sup>

IUR = inhalation unit risk factor, inhalation route of exposure ( $\mu\text{g}/\text{m}^3$ )<sup>-1</sup>

RfDo = Reference Dose, oral route of exposure (mg/kg-day)

RfCi = Reference Concentration, inhalation route of exposure ( $\mu\text{g}/\text{m}^3$ )

<sup>a</sup>DTSC HERO Note 10 (February 2019), <sup>b</sup>USEPA RSL tables (November 2021)

aromatic values were used for carbon chains (USEPA RSL November 2021)

**Table 6 - Exposure Parameters**

Exposure Parameter	Notation	Receptor Populations				Units	Reference
		Commercial Worker	Construction Worker	Residential User			
				Adult	Child		
<b>General Parameters</b>							
Body Weight	BW	80	80	80	15	kg	DTSC
Exposure Duration	ED	25	1	20	6	years	DTSC
Exposure Frequency	EF	250	250	350	350	days/year	DTSC
Exposure Time	ET	8	8	24	24	hours/day	DTSC
<b>Soil Ingestion Pathway</b>							
Soil Ingestion Rate	IR	100	330	100	200	mg/day	DTSC
Averaging Time carcinogens 70dx365d/yr	Atc	25550	25550	25550	25550	days	DTSC
Averaging Time noncarcinogens EDx365d/yr	Atnc	9125	365	7300	2190	days	DTSC
<b>Dermal Contact with Soil</b>							
Skin Surface Area	SA	6,032	6,032	6,032	2,900	cm <sup>2</sup> /event	OEHHA
Soil-to-Skin Adherence factor	AF	0.2	0.8	0.07	0.2	mg/cm <sup>2</sup>	OEHHA
Fraction of Chemical Dermally Absorbed	ABS	chem specific	chem specific	ch sp	ch sp	unitless	DTSC
Averaging Time carcinogens 70dx365d/yr	Atc	25550	25550	25550	25550	days	DTSC
Averaging Time noncarcinogens EDx365d/yr	Atnc	9125	365	7300	2190	days	DTSC
<b>Inhalation of Outdoor Air</b>							
Particulate Emission Factor	PEF	1.36E+09	1.00E+06	1.36E+09	1.36E+09	m <sup>3</sup> /kg	DTSC
Exposure Time (site visit duration)	ET	6	12	6	6	hours/day	USEPA
Averaging Time carcinogens 70dx365d/yrx24hr/d	Atc	613200	613200	613200	613200	hours	DTSC
Averaging Time noncarcinogens EDx365d/yrx24h/d	Atnc	219000	8760	175200	52560	hours	DTSC

Notes:

ABS = 0.1 for VOCs, 0.13 for naphthalene, 0.01 for most metals (DTSC June 2020; USEPA RSL November 2021)

**Table 7**  
**Estimated Risks and Hazards - Residential**

<b>ANALYTE</b>	<b>RISK<sub>o</sub></b>	<b>RISK<sub>i</sub></b>	<b>HAZARD<sub>o</sub></b>	<b>HAZARD<sub>i</sub></b>
<b>soil</b>				
C13-C22			3.31E-01	6.62E-02
C23-C40			1.08E-01	
benzene	1.83E-09	6.82E-12	4.58E-06	9.16E-07
toluene			7.64E-08	3.05E-09
cadmium		6.58E-07	9.17E-03	1.83E-01
hexavalent chromium	2.91E-07	1.45E-06	1.94E-04	1.13E-03
mercury			2.12E-02	2.20E-02
<b>soil vapor</b>				
tetrachloroethene		2.10E-06		2.30E-02
toluene				2.20E-03
xylenes				1.10E-02
<b>Sum</b>	2.93E-07	4.21E-06	0.47	0.31
<b>Total Risk = 4.5E-06</b>				
<b>Total Hazard = 0.78</b>				

**Table 8**  
**Estimated Risks and Hazards - Commercial**

<b>ANALYTE</b>	<b>RISK<sub>o</sub></b>	<b>RISK<sub>i</sub></b>	<b>HAZARD<sub>o</sub></b>	<b>HAZARD<sub>i</sub></b>
<b>soil</b>				
C13-C22			1.11E-01	1.18E-02
C23-C40			3.62E-02	
benzene	6.14E-10	6.74E-12	1.53E-06	1.63E-07
toluene			2.56E-08	5.45E-10
cadmium		6.50E-07	1.88E-03	3.27E-02
hexavalent chromium	6.40E-08	1.43E-06	4.26E-05	2.01E-04
mercury			4.67E-03	3.92E-03
<b>soil vapor</b>				
tetrachloroethene		4.80E-07		5.50E-03
toluene				5.30E-04
xylenes				2.60E-03
<b>Sum</b>	6.46E-08	2.56E-06	0.15	0.06
<b>Total Risk = 2.63E-06</b>				
<b>Total Hazard = 0.21</b>				

**Table 9**  
**Estimated Risks and Hazards - Construction**

<b>ANALYTE</b>	<b>RISK<sub>o</sub></b>	<b>RISK<sub>i</sub></b>	<b>HAZARD<sub>o</sub></b>	<b>HAZARD<sub>i</sub></b>
<b>soil</b>				
C13-C22			1.63E-02	3.21E+01
C23-C40			5.33E-03	
benzene	9.04E-11	4.52E-10	2.26E-07	4.45E-04
toluene			3.77E-09	1.48E-06
cadmium		4.37E-05	2.48E-04	8.89E+01
hexavalent chromium	8.64E-09	9.60E-05	5.76E-06	5.47E-01
mercury			6.31E-04	1.07E+01
<b>soil vapor</b>				
tetrachloroethene		6.86E-11		4.73E-04
toluene				4.76E-06
xylenes				7.76E-05
<b>Sum</b>	8.73E-09	1.40E-04	0.02	132
<b>Total Risk = 1.40E-04</b>				
<b>Total Hazard = 132</b>				

**Table 10**  
**Summary of Estimated Risks and Hazards**

	<b>Receptor Population</b>		
	<b>Residential</b>	<b>Construction</b>	<b>Commercial</b>
$\Sigma$ Risk	4.50E-06	1.40E-04	2.63E-06
Hazard Index	0.78	132	0.21

Notes:

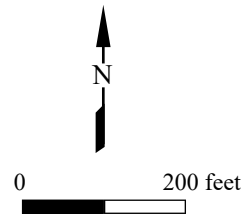
$\Sigma$ Risk = Estimated risks due to ingestion and dermal contact and inhalation of constituents in soil and soil vapor

Hazard Index = Estimated hazards due to ingestion and dermal contact and inhalation of constituents in soil and soil vapor

# FIGURES



Base map: Google Earth, 2019

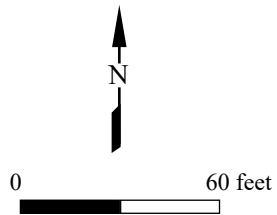


**Figure 1: Site Location Map**  
1933 Temple Avenue  
Signal Hill, CA

Mearns Consulting LLC

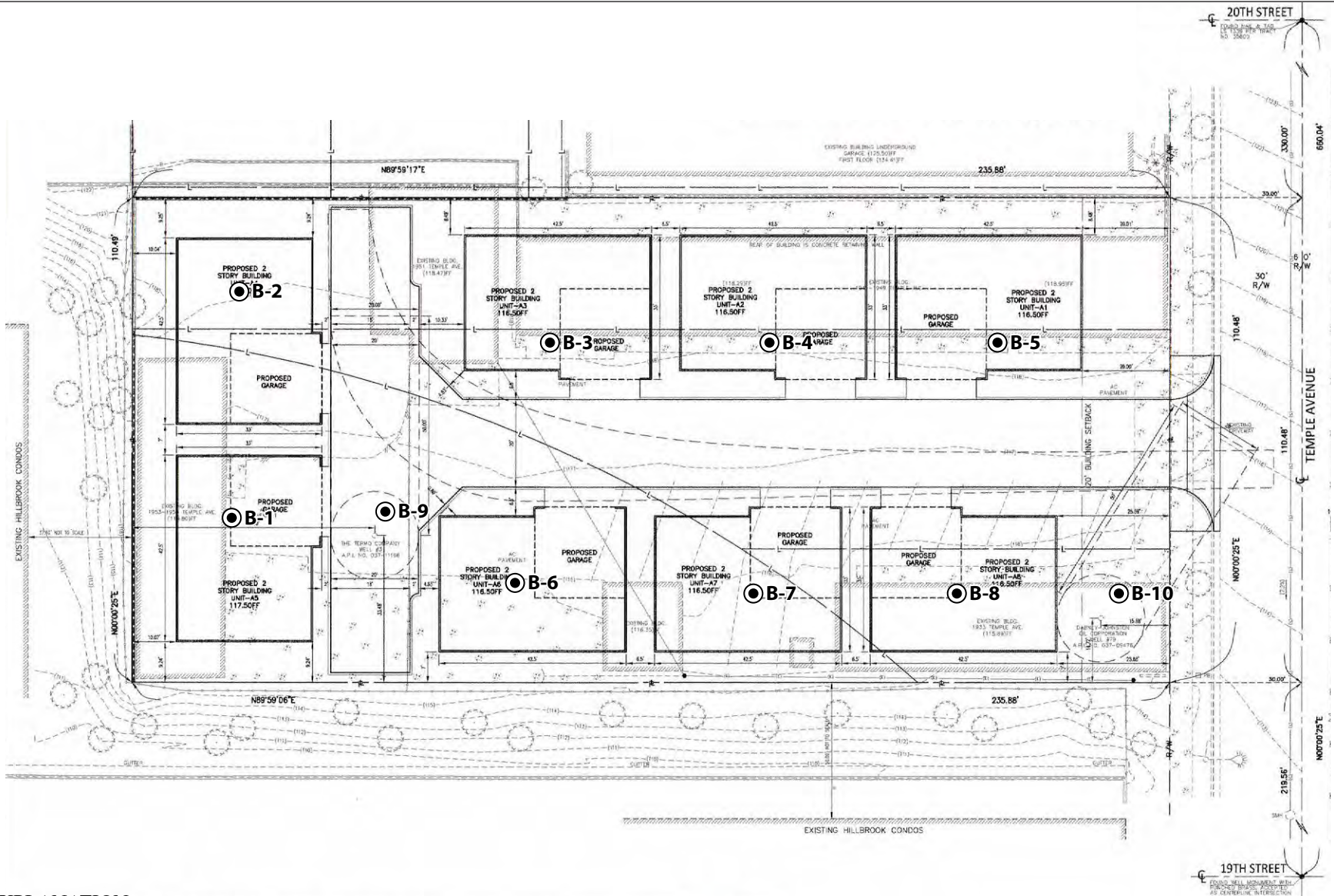


Base map: Google Earth, 2020



**Figure 2: Site Map**  
1933 Temple Avenue  
Signal Hill, CA

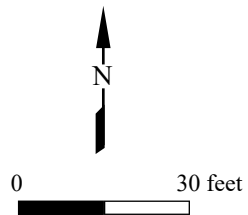
Mearns Consulting LLC



**EXPLANATION**

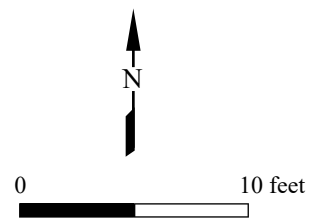
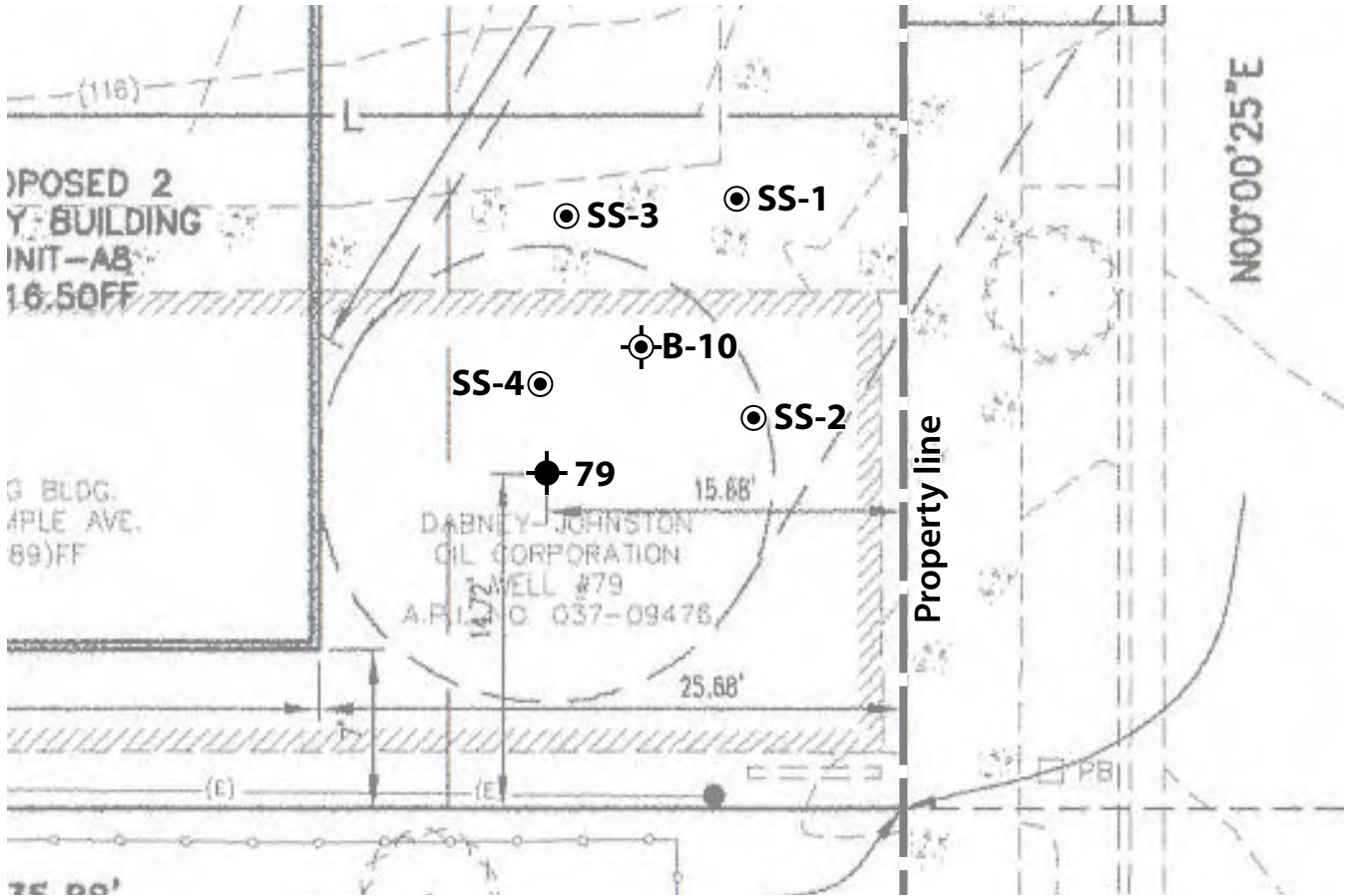
- Soil sample

Base map: Anacal Engineering Company






**Figure 3: Soil Sampling Locations**  
 1933 Temple Avenue  
 Signal Hill, CA

Mearns Consulting LLC

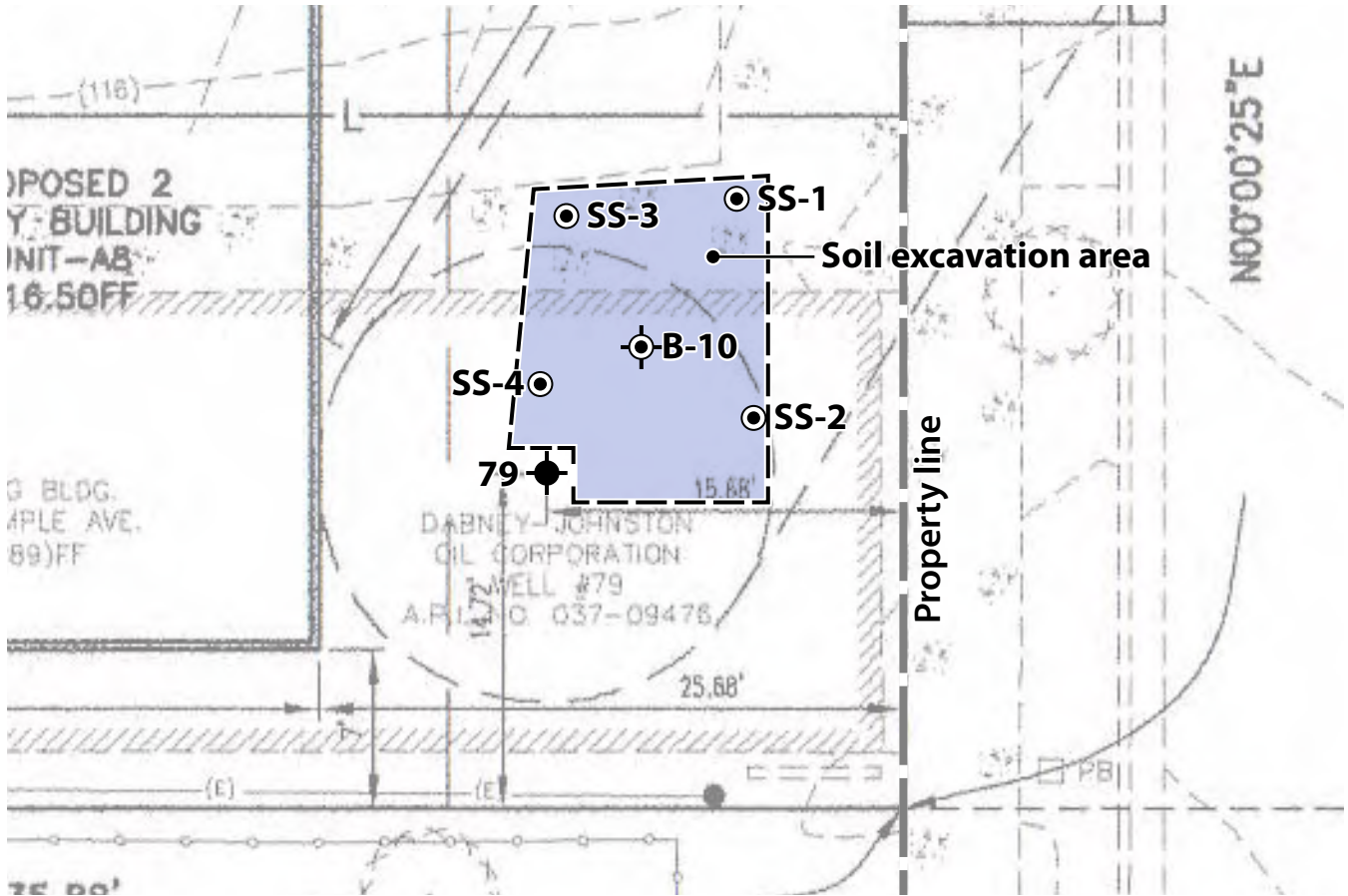





**EXPLANATION**

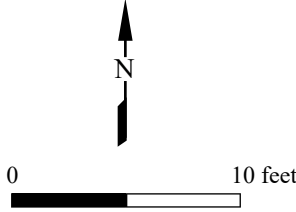
-  Soil gas probe
-  Soil sample
-  Oil well

**Figure 4: Step Out Sampling Locations**  
 1933 Temple Avenue  
 Signal Hill, CA

Mearns Consulting LLC



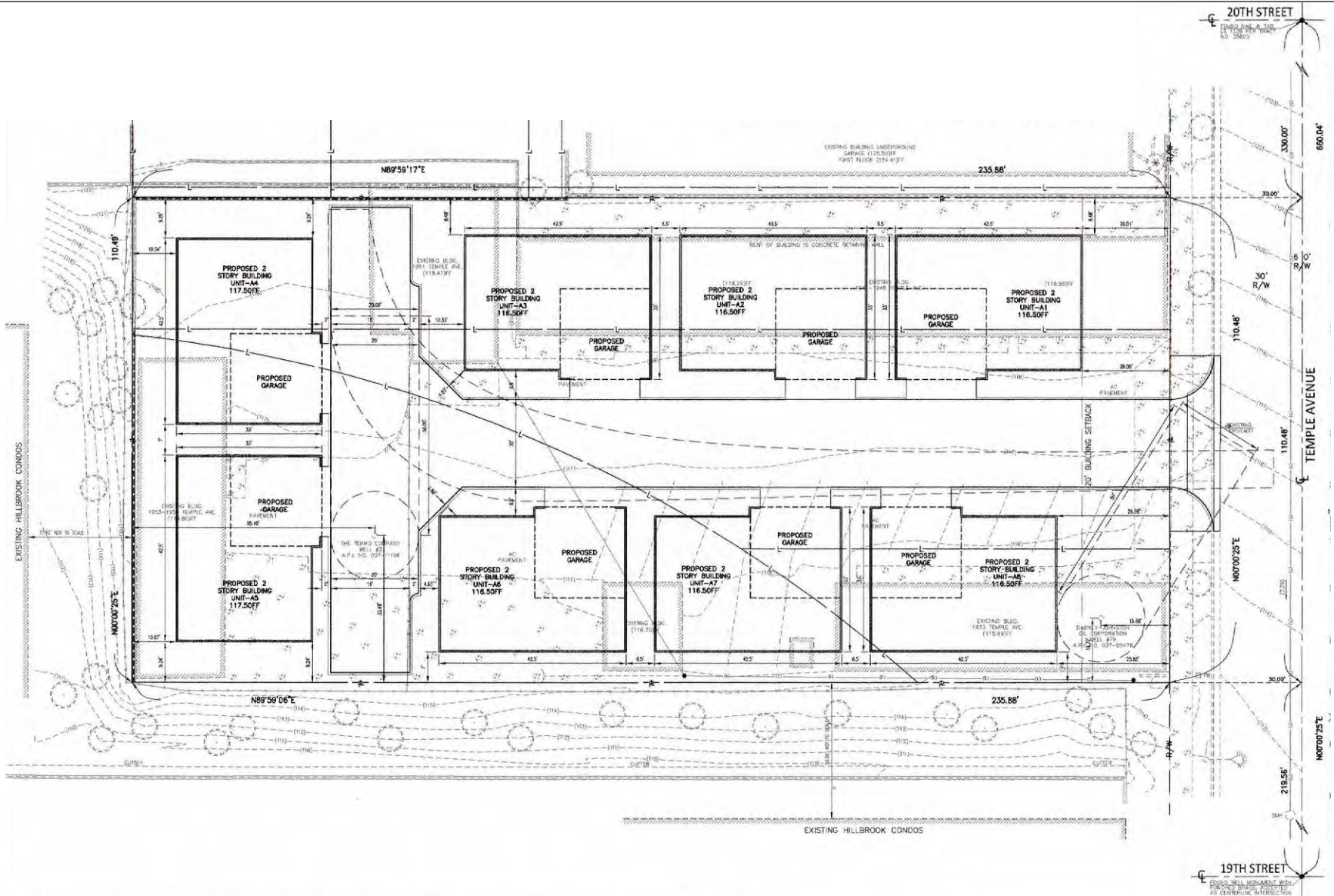
- EXPLANATION
-  Soil gas probe
  -  Soil sample
  -  Oil well



**Figure 5: Proposed Excavation**  
 1933 Temple Avenue  
 Signal Hill, CA

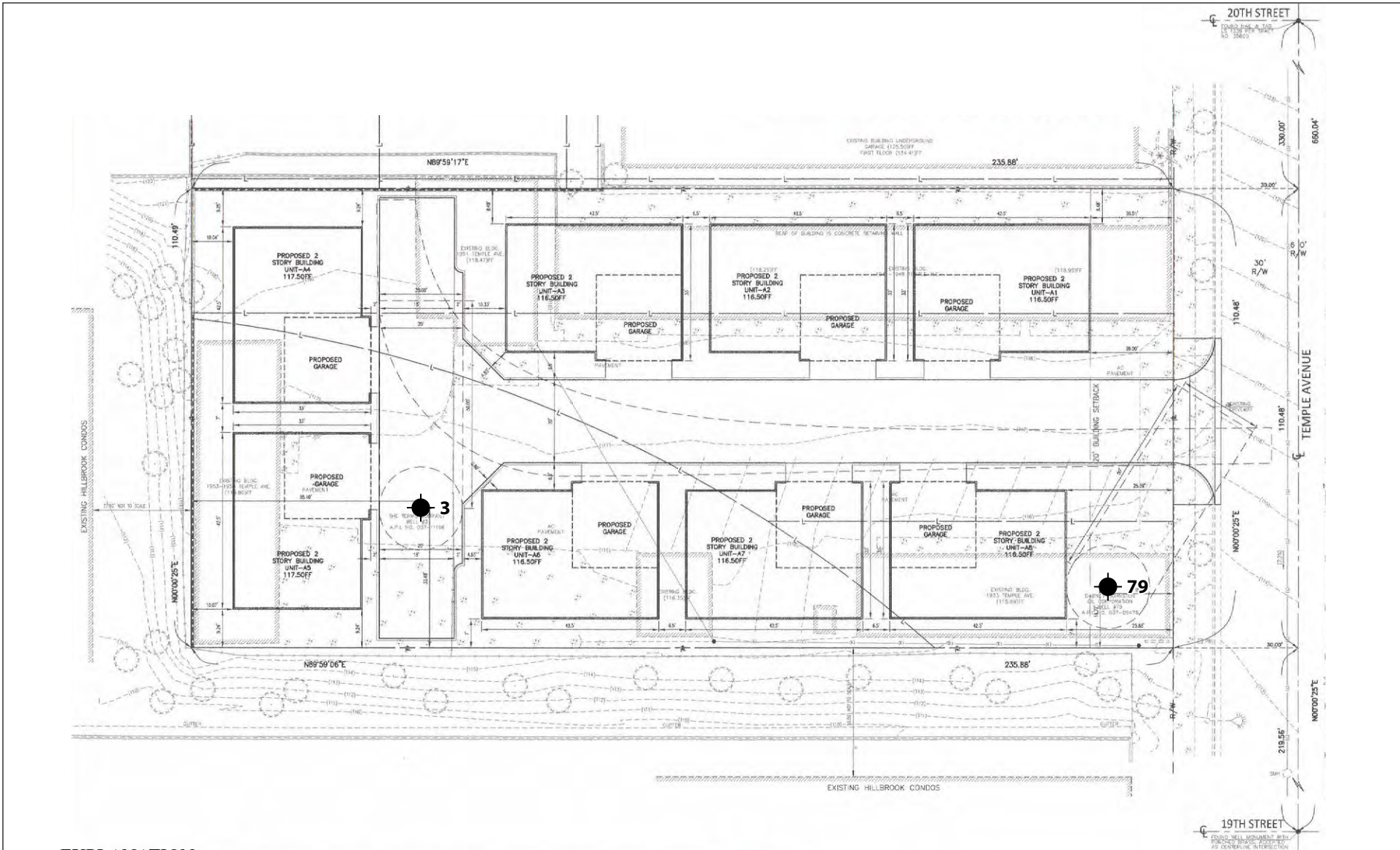
Mearns Consulting LLC

Base map: Anacal Engineering Company



**Figure 6: Site Plan**  
 1933 Temple Avenue  
 Signal Hill, CA

Mearns Consulting LLC



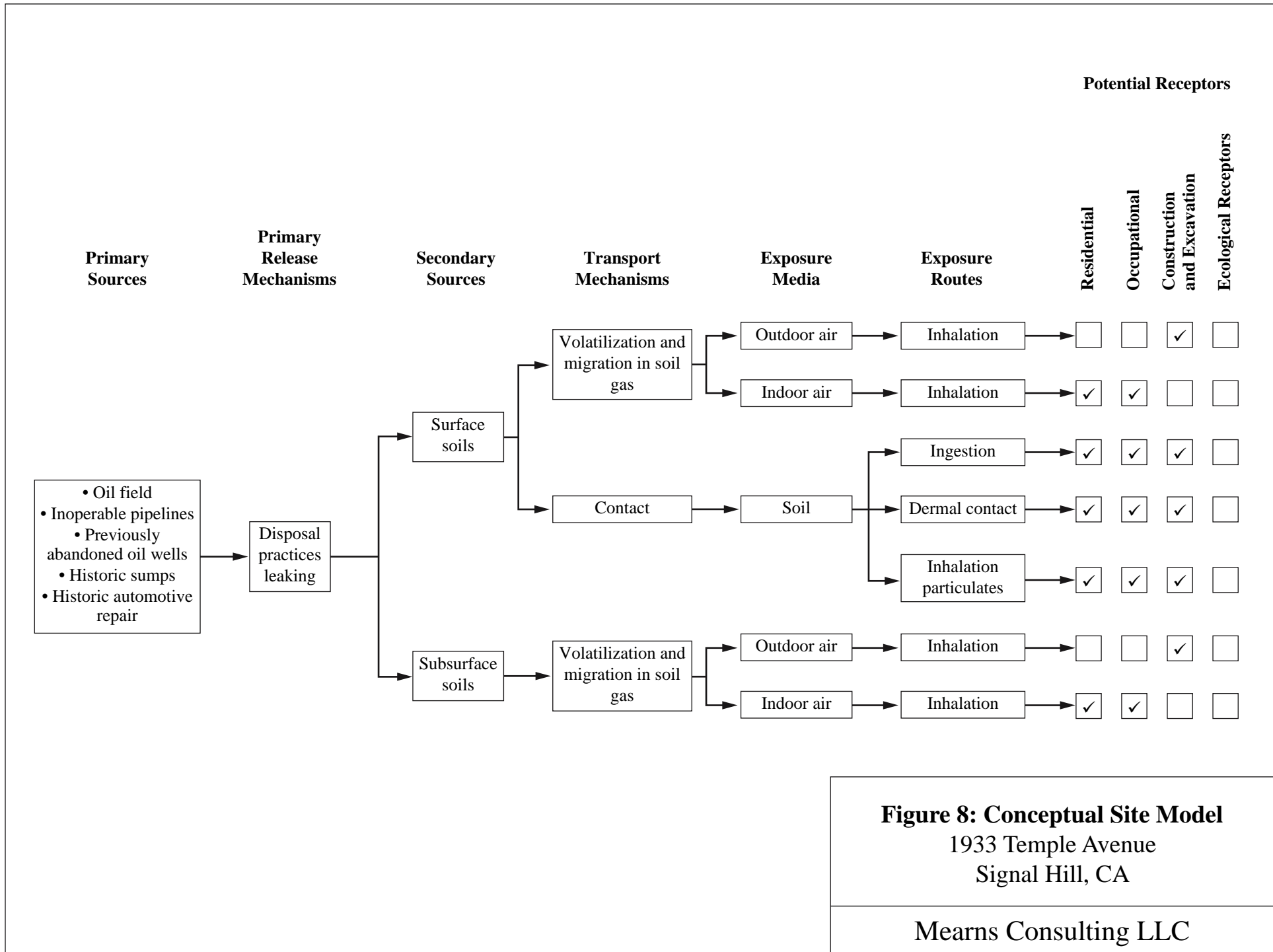
**EXPLANATION**

● Oil well



0 30 feet

**Figure 7: Location of Oil Wells**  
 1933 Temple Avenue  
 Signal Hill, CA



# **APPENDIX A**

**Jones Environmental Labs, Inc.  
SunStar Laboratories, Inc.  
2021 Soil Matrix Data**



714-449-9937  
562-646-1611

11007 FOREST PLACE  
SANTA FE SPRINGS, CA 90670  
WWW.JONESENV.COM

**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:**

**Report date:** 8/11/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Received:** 8/4/2021

**Date Analyzed:** 8/5-11/2021

**Physical State:** Soil


---

**ANALYSES REQUESTED**

**Soil:**

1. EPA 8015M – Extended Range Hydrocarbons
2. EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics
3. EPA 6010B by 3050B and EPA 7471A – CAM 17 Metals

**Approval:**

  
Annalise O'Toole



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/11/2021
<b>Client Address:</b>		<b>Jones Ref. No.:</b>	ST-17934
<b>Attn:</b>	David L. Lucero	<b>Date Sampled:</b>	8/4/2021
<b>Project:</b>	1933 N. Temple Ave.	<b>Date Received:</b>	8/4/2021
<b>Project Address:</b>	1933 N. Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	8/9-10/2021
		<b>Physical State:</b>	Soil

**EPA 8015M - Extended Range Hydrocarbons**

<u>Sample ID:</u>	<b>B-1 @ 5'</b>	<b>B-1 @ 10'</b>	<b>B-1 @ 15'</b>	<b>B-2 @ 5'</b>	<b>B-2 @ 10'</b>		
<u>Jones ID:</u>	ST-17934-01	ST-17934-02	ST-17934-03	ST-17934-04	ST-17934-05	<u>Reporting Limit</u>	<u>Units</u>
<b>Carbon Chain Range</b>							
C10 - C11	ND	ND	ND	ND	ND	1.0	mg/kg
C12 - C13	ND	ND	ND	ND	ND	1.0	mg/kg
C14 - C15	ND	ND	ND	ND	ND	1.0	mg/kg
C16 - C17	ND	ND	ND	ND	ND	1.0	mg/kg
C18 - C19	ND	ND	ND	ND	ND	1.0	mg/kg
C20 - C23	ND	ND	ND	ND	ND	1.0	mg/kg
C24 - C27	ND	ND	ND	ND	ND	1.0	mg/kg
C28 - C31	ND	ND	ND	ND	ND	1.0	mg/kg
C32 - C35	ND	ND	ND	ND	ND	1.0	mg/kg
C36 - C39	ND	ND	ND	ND	ND	1.0	mg/kg
C40 - C43	ND	ND	ND	ND	ND	1.0	mg/kg
C13 - C22	ND	ND	ND	ND	ND	10.0	mg/kg
C23 - C40	ND	ND	ND	ND	ND	10.0	mg/kg
<b><u>Dilution Factor</u></b>	1	1	1	1	1		
<b><u>Surrogate Recovery:</u></b>						<b><u>QC Limits</u></b>	
Hexacosane	46%	71%	50%	72%	68%	30 - 120	
<b><u>Batch:</u></b>	FID8	FID8	FID8	FID8	FID8		
	_080921_01	_080921_01	_080921_01	_080921_01	_080921_01		

ND = Value less than reporting limit



714-449-9937  
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11007 FOREST PLACE  
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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:**

**Report date:** 8/11/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021  
**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/9-10/2021  
**Physical State:** Soil

**EPA 8015M - Extended Range Hydrocarbons**

<u>Sample ID:</u>	<b>B-2 @ 15'</b>	<b>B-3 @ 5'</b>	<b>B-3 @ 10'</b>	<b>B-3 @ 15'</b>	<b>B-4 @ 5'</b>		
<u>Jones ID:</u>	ST-17934-06	ST-17934-07	ST-17934-08	ST-17934-09	ST-17934-10	<u>Reporting Limit</u>	<u>Units</u>
<b>Carbon Chain Range</b>							
C10 - C11	ND	ND	ND	ND	ND	1.0	mg/kg
C12 - C13	ND	ND	ND	ND	ND	1.0	mg/kg
C14 - C15	ND	ND	ND	ND	ND	1.0	mg/kg
C16 - C17	ND	ND	ND	ND	ND	1.0	mg/kg
C18 - C19	ND	ND	ND	ND	ND	1.0	mg/kg
C20 - C23	ND	ND	ND	ND	ND	1.0	mg/kg
C24 - C27	ND	ND	ND	ND	ND	1.0	mg/kg
C28 - C31	ND	ND	ND	ND	ND	1.0	mg/kg
C32 - C35	ND	ND	ND	ND	ND	1.0	mg/kg
C36 - C39	ND	ND	ND	ND	ND	1.0	mg/kg
C40 - C43	ND	ND	ND	ND	ND	1.0	mg/kg
C13 - C22	ND	ND	ND	ND	ND	10.0	mg/kg
C23 - C40	ND	ND	ND	ND	ND	10.0	mg/kg
<b><u>Dilution Factor</u></b>	1	1	1	1	1		
<b><u>Surrogate Recovery:</u></b>						<b><u>QC Limits</u></b>	
Hexacosane	76%	80%	63%	74%	92%	30 - 120	
<b><u>Batch:</u></b>	FID8	FID8	FID8	FID8	FID8		
	_080921_01	_080921_01	_080921_01	_080921_01	_080921_01		

ND = Value less than reporting limit



714-449-9937  
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11007 FOREST PLACE  
SANTA FE SPRINGS, CA 90670  
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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/11/2021
<b>Client Address:</b>		<b>Jones Ref. No.:</b>	ST-17934
<b>Attn:</b>	David L. Lucero	<b>Date Sampled:</b>	8/4/2021
<b>Project:</b>	1933 N. Temple Ave.	<b>Date Received:</b>	8/4/2021
<b>Project Address:</b>	1933 N. Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	8/9-10/2021
		<b>Physical State:</b>	Soil

**EPA 8015M - Extended Range Hydrocarbons**

<u>Sample ID:</u>	<b>B-4 @ 10'</b>	<b>B-4 @ 15'</b>	<b>B-5 @ 5'</b>	<b>B-5 @ 10'</b>	<b>B-5 @ 15'</b>		
<u>Jones ID:</u>	ST-17934-11	ST-17934-12	ST-17934-13	ST-17934-14	ST-17934-15	<u>Reporting Limit</u>	<u>Units</u>
<b>Carbon Chain Range</b>							
C10 - C11	ND	ND	ND	ND	ND	1.0	mg/kg
C12 - C13	ND	ND	ND	ND	ND	1.0	mg/kg
C14 - C15	ND	ND	ND	ND	ND	1.0	mg/kg
C16 - C17	ND	ND	ND	ND	ND	1.0	mg/kg
C18 - C19	ND	ND	ND	ND	ND	1.0	mg/kg
C20 - C23	ND	ND	ND	ND	ND	1.0	mg/kg
C24 - C27	ND	ND	ND	ND	ND	1.0	mg/kg
C28 - C31	ND	ND	ND	ND	ND	1.0	mg/kg
C32 - C35	ND	ND	ND	ND	ND	1.0	mg/kg
C36 - C39	ND	ND	ND	ND	ND	1.0	mg/kg
C40 - C43	ND	ND	ND	ND	ND	1.0	mg/kg
C13 - C22	ND	ND	ND	ND	ND	10.0	mg/kg
C23 - C40	ND	ND	ND	ND	ND	10.0	mg/kg
<b><u>Dilution Factor</u></b>	1	1	1	1	1		
<b><u>Surrogate Recovery:</u></b>						<b><u>QC Limits</u></b>	
Hexacosane	89%	78%	68%	71%	74%	30 - 120	
<b><u>Batch:</u></b>	FID8	FID8	FID8	FID8	FID8		
	_080921_01	_080921_01	_080921_01	_080921_01	_080921_01		

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:**

**Report date:** 8/11/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021  
**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/9-10/2021  
**Physical State:** Soil

**EPA 8015M - Extended Range Hydrocarbons**

<u>Sample ID:</u>	<b>B-6 @ 5'</b>	<b>B-6 @ 10'</b>	<b>B-6 @ 15'</b>	<b>B-7 @ 5'</b>	<b>B-7 @ 10'</b>		
<u>Jones ID:</u>	ST-17934-16	ST-17934-17	ST-17934-18	ST-17934-19	ST-17934-20	<u>Reporting Limit</u>	<u>Units</u>
Carbon Chain Range							
C10 - C11	ND	ND	ND	ND	ND	1.0	mg/kg
C12 - C13	ND	ND	ND	ND	ND	1.0	mg/kg
C14 - C15	<b>2.1</b>	ND	ND	ND	ND	1.0	mg/kg
C16 - C17	<b>6.8</b>	ND	ND	ND	ND	1.0	mg/kg
C18 - C19	<b>16.0</b>	ND	ND	ND	ND	1.0	mg/kg
C20 - C23	<b>72.3</b>	ND	ND	<b>24.7</b>	ND	1.0	mg/kg
C24 - C27	<b>137</b>	ND	ND	<b>42.0</b>	ND	1.0	mg/kg
C28 - C31	<b>254</b>	ND	ND	<b>64.1</b>	ND	1.0	mg/kg
C32 - C35	<b>221</b>	ND	ND	<b>67.4</b>	ND	1.0	mg/kg
C36 - C39	<b>224</b>	ND	ND	<b>71.4</b>	ND	1.0	mg/kg
C40 - C43	<b>188</b>	ND	ND	<b>71.1</b>	ND	1.0	mg/kg
C13 - C22	<b>72.9</b>	ND	ND	ND	ND	10.0	mg/kg
C23 - C40	<b>920</b>	ND	ND	<b>271</b>	ND	10.0	mg/kg
<u>Dilution Factor</u>	1	1	1	1	1		
<u>Surrogate Recovery:</u>						<u>QC Limits</u>	
Hexacosane	79%	55%	71%	70%	113%	30 - 120	
<u>Batch:</u>	FID8	FID8	FID8	FID7	FID7		
	_080921_01	_080921_01	_080921_01	_081021_01	_081021_01		

ND = Value less than reporting limit



714-449-9937  
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805-399-0060

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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:**

**Report date:** 8/11/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021

**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/9-10/2021

**Physical State:** Soil

**EPA 8015M - Extended Range Hydrocarbons**

<u>Sample ID:</u>	<b>B-7 @ 15'</b>	<b>B-8 @ 5'</b>	<b>B-8 @ 10'</b>	<b>B-8 @ 15'</b>	<b>B-9 @ 5'</b>		
<u>Jones ID:</u>	ST-17934-21	ST-17934-22	ST-17934-23	ST-17934-24	ST-17934-25	<u>Reporting Limit</u>	<u>Units</u>
<b>Carbon Chain Range</b>							
C10 - C11	ND	ND	ND	ND	ND	1.0	mg/kg
C12 - C13	ND	<b>1.2</b>	ND	ND	ND	1.0	mg/kg
C14 - C15	ND	<b>2.8</b>	ND	ND	ND	1.0	mg/kg
C16 - C17	ND	<b>6.1</b>	ND	ND	ND	1.0	mg/kg
C18 - C19	ND	<b>10.4</b>	ND	ND	ND	1.0	mg/kg
C20 - C23	ND	<b>33.0</b>	ND	ND	<b>11.9</b>	1.0	mg/kg
C24 - C27	ND	<b>50.5</b>	ND	ND	<b>19.9</b>	1.0	mg/kg
C28 - C31	ND	<b>78.0</b>	ND	ND	<b>32.4</b>	1.0	mg/kg
C32 - C35	ND	<b>73.7</b>	ND	ND	<b>32.0</b>	1.0	mg/kg
C36 - C39	ND	<b>75.4</b>	ND	ND	<b>35.2</b>	1.0	mg/kg
C40 - C43	ND	<b>72.6</b>	ND	ND	<b>35.7</b>	1.0	mg/kg
C13 - C22	ND	<b>42.8</b>	ND	ND	ND	10.0	mg/kg
C23 - C40	ND	<b>307</b>	ND	ND	<b>132</b>	10.0	mg/kg
<b><u>Dilution Factor</u></b>	1	1	1	1	1		
<b><u>Surrogate Recovery:</u></b>						<b><u>QC Limits</u></b>	
Hexacosane	107%	40%	88%	88%	90%	30 - 120	
<b><u>Batch:</u></b>	FID7	FID7	FID7	FID7	FID7		
	_081021_01	_081021_01	_081021_01	_081021_01	_081021_01		

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:**

**Report date:** 8/11/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021  
**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/9-10/2021  
**Physical State:** Soil

**EPA 8015M - Extended Range Hydrocarbons**

<u>Sample ID:</u>	<b>B-9 @ 10'</b>	<b>B-9 @ 15'</b>	<b>B-9 @ 20'</b>	<b>B-10 @ 5'</b>	<b>B-10 @ 10'</b>		
<u>Jones ID:</u>	ST-17934-26	ST-17934-27	ST-17934-28	ST-17934-29	ST-17934-30	<u>Reporting Limit</u>	<u>Units</u>
<b>Carbon Chain Range</b>							
C10 - C11	ND	ND	ND	ND	ND	1.0	mg/kg
C12 - C13	ND	ND	ND	ND	ND	1.0	mg/kg
C14 - C15	ND	ND	ND	ND	ND	1.0	mg/kg
C16 - C17	ND	ND	ND	ND	ND	1.0	mg/kg
C18 - C19	ND	ND	ND	ND	ND	1.0	mg/kg
C20 - C23	ND	ND	ND	<b>6.5</b>	ND	1.0	mg/kg
C24 - C27	ND	ND	ND	<b>10.8</b>	ND	1.0	mg/kg
C28 - C31	ND	ND	ND	<b>16.5</b>	ND	1.0	mg/kg
C32 - C35	ND	ND	ND	<b>16.3</b>	ND	1.0	mg/kg
C36 - C39	ND	ND	ND	<b>18.5</b>	ND	1.0	mg/kg
C40 - C43	ND	ND	ND	<b>19.6</b>	ND	1.0	mg/kg
C13 - C22	ND	ND	ND	ND	ND	10.0	mg/kg
C23 - C40	ND	ND	ND	<b>69.1</b>	ND	10.0	mg/kg
<b><u>Dilution Factor</u></b>	1	1	1	1	1		
<b><u>Surrogate Recovery:</u></b>						<b><u>QC Limits</u></b>	
Hexacosane	89%	83%	81%	50%	90%	30 - 120	
<b><u>Batch:</u></b>	FID7 _081021_01	FID7 _081021_01	FID7 _081021_01	FID7 _081021_01	FID7 _081021_01		

ND = Value less than reporting limit



714-449-9937  
562-646-1611  
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SANTA FE SPRINGS, CA 90670  
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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:**

**Report date:** 8/11/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021  
**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/9-10/2021  
**Physical State:** Soil

**EPA 8015M - Extended Range Hydrocarbons**

**Sample ID:** B-10 @ 15' B-10 @20'

**Jones ID:** ST-17934-31 ST-17934-32

**Reporting Limit** **Units**

**Carbon Chain Range**

C10 - C11	ND	ND	1.0	mg/kg
C12 - C13	ND	ND	1.0	mg/kg
C14 - C15	ND	ND	1.0	mg/kg
C16 - C17	ND	ND	1.0	mg/kg
C18 - C19	ND	ND	1.0	mg/kg
C20 - C23	ND	ND	1.0	mg/kg
C24 - C27	ND	ND	1.0	mg/kg
C28 - C31	ND	ND	1.0	mg/kg
C32 - C35	ND	ND	1.0	mg/kg
C36 - C39	ND	ND	1.0	mg/kg
C40 - C43	ND	ND	1.0	mg/kg
C13 - C22	ND	ND	10.0	mg/kg
C23 - C40	ND	ND	10.0	mg/kg

**Dilution Factor** 1 1

**Surrogate Recovery:**

Hexacosane 93% 84%

**QC Limits**

30 - 120

**Batch:** FID7 FID7  
\_081021\_01 \_081021\_01

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/11/2021
<b>Client Address:</b>		<b>Jones Ref. No.:</b>	ST-17934
<b>Attn:</b>	David L. Lucero	<b>Date Sampled:</b>	8/4/2021
<b>Project:</b>	1933 N. Temple Ave.	<b>Date Received:</b>	8/4/2021
<b>Project Address:</b>	1933 N. Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	8/9-10/2021
		<b>Physical State:</b>	Soil

**EPA 8015M - Extended Range Hydrocarbons**

<u>Sample ID:</u>	<u>METHOD</u>	<u>METHOD</u>		
	<u>BLANK #1</u>	<u>BLANK #2</u>		
<u>Jones ID:</u>	<u>MB1-</u>	<u>MB1-</u>		
	<u>080921FID8</u>	<u>081021FID7</u>	<u>Reporting Limit</u>	<u>Units</u>
<b>Carbon Chain Range</b>				
C10 - C11	ND	ND	1.0	mg/kg
C12 - C13	ND	ND	1.0	mg/kg
C14 - C15	ND	ND	1.0	mg/kg
C16 - C17	ND	ND	1.0	mg/kg
C18 - C19	ND	ND	1.0	mg/kg
C20 - C23	ND	ND	1.0	mg/kg
C24 - C27	ND	ND	1.0	mg/kg
C28 - C31	ND	ND	1.0	mg/kg
C32 - C35	ND	ND	1.0	mg/kg
C36 - C39	ND	ND	1.0	mg/kg
C40 - C43	ND	ND	1.0	mg/kg
C13 - C22	ND	ND	10.0	mg/kg
C23 - C40	ND	ND	10.0	mg/kg
<b><u>Dilution Factor</u></b>	1	1		
<b><u>Surrogate Recovery:</u></b>				<b><u>QC Limits</u></b>
Hexacosane	120%	120%		30 - 120
<b><u>Batch:</u></b>	FID8	FID7		
	_080921_01	_081021_01		

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/11/2021
<b>Client Address:</b>		<b>Jones Ref. No.:</b>	ST-17934
<b>Attn:</b>	David L. Lucero	<b>Date Sampled:</b>	8/4/2021
<b>Project:</b>	1933 N. Temple Ave.	<b>Date Received:</b>	8/4/2021
<b>Project Address:</b>	1933 N. Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	8/9-10/2021
		<b>Physical State:</b>	Soil

**BATCH:** FID8\_080921\_01      **Prepared:** 8/9/2021      **Analyzed:** 8/9/2021

**EPA 8015M - Extended Range Hydrocarbons**

	Result	Spike Level	% Recovery	% RPD	% Recovery Limits	Units
<b>LCS:</b>	LCS1-080921FID8	<b>SAMPLE SPIKED:</b>	CLEAN SOIL			
<b>Analyte:</b>						
Diesel (C10 - C28)	557	500	111%		60 - 140	mg/kg
<b>Surrogate Recovery:</b>						
Hexacosane			120%		30 - 120	
<b>LCSD:</b>	LCSD1-080921FID8	<b>SAMPLE SPIKED:</b>	CLEAN SOIL			
<b>Analyte:</b>						
Diesel (C10 - C28)	570	500	114%	2.3%	60 - 140	mg/kg
<b>Surrogate Recoveries:</b>						
Hexacosane			120%		30 - 120	
<b>CCV:</b>	CCV1-080921FID8					
<b>Analyte:</b>						
Diesel (C10 - C28)	1110	1000	111%		80 - 120	mg/kg

LCS = Laboratory Control Sample  
LCSD= Laboratory Control Sample Duplicate  
CCV = Continuing Calibration Verification  
RPD = Relative Percent Difference



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/11/2021
<b>Client Address:</b>		<b>Jones Ref. No.:</b>	ST-17934
<b>Attn:</b>	David L. Lucero	<b>Date Sampled:</b>	8/4/2021
<b>Project:</b>	1933 N. Temple Ave.	<b>Date Received:</b>	8/4/2021
<b>Project Address:</b>	1933 N. Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	8/9-10/2021
		<b>Physical State:</b>	Soil

**BATCH:** FID7\_081021\_01      **Prepared:** 8/10/2021      **Analyzed:** 8/10/2021

**EPA 8015M - Extended Range Hydrocarbons**

	Result	Spike Level	% Recovery	% RPD	% Recovery Limits	Units
<b>LCS:</b>	LCS1-0810211	<b>SAMPLE SPIKED:</b>		CLEAN SOIL		
<b>Analyte:</b>						
Diesel (C10 - C28)	560	500	112%		60 - 140	mg/kg
<b>Surrogate Recovery:</b>						
Hexacosane			119%		30 - 120	
<b>LCSD:</b>	LCSD1-0810211	<b>SAMPLE SPIKED:</b>		CLEAN SOIL		
<b>Analyte:</b>						
Diesel (C10 - C28)	534	500	107%	4.8%	60 - 140	mg/kg
<b>Surrogate Recoveries:</b>						
Hexacosane			120%		30 - 120	
<b>CCV:</b>	CCV1-0810211					
<b>Analyte:</b>						
Diesel (C10 - C28)	946	1000	95%		80 - 120	mg/kg

LCS = Laboratory Control Sample  
LCSD= Laboratory Control Sample Duplicate  
CCV = Continuing Calibration Verification  
RPD = Relative Percent Difference



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**JONES ENVIRONMENTAL LABORATORY RESULTS**

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/11/2021
<b>Client Address:</b>		<b>Jones Ref. No.:</b>	ST-17934
<b>Attn:</b>	David L. Lucero	<b>Date Sampled:</b>	8/4/2021
<b>Project:</b>	1933 N. Temple Ave.	<b>Date Received:</b>	8/4/2021
<b>Project Address:</b>	1933 N. Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	8/5-6/2021
		<b>Physical State:</b>	Soil

**EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics**

<u>Sample ID:</u>	<u>B-1 @ 5'</u>	<u>B-1 @ 10'</u>	<u>B-1 @ 15'</u>	<u>B-2 @ 5'</u>	<u>B-2 @ 10'</u>		
<u>Jones ID:</u>	<u>ST-17934-01</u>	<u>ST-17934-02</u>	<u>ST-17934-03</u>	<u>ST-17934-04</u>	<u>ST-17934-05</u>	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Benzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromodichloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
Bromoform	ND	ND	ND	ND	ND	1.0	µg/kg
n-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
sec-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
tert-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Carbon tetrachloride	ND	ND	ND	ND	ND	1.0	µg/kg
Chlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Chloroform	ND	ND	ND	ND	ND	1.0	µg/kg
2-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromochloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromomethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
2,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg

**JONES ENVIRONMENTAL LABORATORY RESULTS**

**EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics**

<b>Sample ID:</b>	<b>B-1 @ 5'</b>	<b>B-1 @ 10'</b>	<b>B-1 @ 15'</b>	<b>B-2 @ 5'</b>	<b>B-2 @ 10'</b>		
<b>Jones ID:</b>	<b>ST-17934-01</b>	<b>ST-17934-02</b>	<b>ST-17934-03</b>	<b>ST-17934-04</b>	<b>ST-17934-05</b>	<b>Reporting Limit</b>	<b>Units</b>
<b>Analytes:</b>							
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
Ethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Freon 11	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 12	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 113	ND	ND	ND	ND	ND	5.0	µg/kg
Hexachlorobutadiene	ND	ND	ND	ND	ND	1.0	µg/kg
Isopropylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Isopropyltoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Methylene chloride	ND	ND	ND	ND	ND	1.0	µg/kg
Naphthalene	ND	ND	ND	ND	ND	1.0	µg/kg
n-Propylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Styrene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Tetrachloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
Toluene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Trichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Vinyl chloride	ND	ND	ND	ND	ND	1.0	µg/kg
m,p-Xylene	ND	ND	ND	ND	ND	2.0	µg/kg
o-Xylene	ND	ND	ND	ND	ND	1.0	µg/kg
Methyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Di-isopropylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-amylmethylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-Butylalcohol	ND	ND	ND	ND	ND	50.0	µg/kg
Gasoline Range Organics (C4-C12)	ND	ND	ND	ND	ND	0.20	mg/kg
<b>Dilution Factor</b>	1	1	1	1	1		
<b>Surrogate Recoveries:</b>						<b>QC Limits</b>	
Dibromofluoromethane	104%	103%	103%	102%	103%	60 - 140	
Toluene-d <sub>8</sub>	87%	88%	88%	85%	87%	60 - 140	
4-Bromofluorobenzene	90%	88%	90%	86%	90%	60 - 140	
<b>Batch:</b>	VOC3-080521-01	VOC3-080521-01	VOC3-080521-01	VOC3-080521-01	VOC3-080521-01		

ND = Value less than reporting limit



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### JONES ENVIRONMENTAL LABORATORY RESULTS

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/11/2021
<b>Client Address:</b>		<b>Jones Ref. No.:</b>	ST-17934
<b>Attn:</b>	David L. Lucero	<b>Date Sampled:</b>	8/4/2021
<b>Project:</b>	1933 N. Temple Ave.	<b>Date Received:</b>	8/4/2021
<b>Project Address:</b>	1933 N. Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	8/5-6/2021
		<b>Physical State:</b>	Soil

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#### EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

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<u>Sample ID:</u>	<u>B-2 @ 15'</u>	<u>B-3 @ 5'</u>	<u>B-3 @ 10'</u>	<u>B-3 @ 15'</u>	<u>B-4 @ 5'</u>		
<u>Jones ID:</u>	<u>ST-17934-06</u>	<u>ST-17934-07</u>	<u>ST-17934-08</u>	<u>ST-17934-09</u>	<u>ST-17934-10</u>	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Benzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromodichloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
Bromoform	ND	ND	ND	ND	ND	1.0	µg/kg
n-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
sec-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
tert-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Carbon tetrachloride	ND	ND	ND	ND	ND	1.0	µg/kg
Chlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Chloroform	ND	ND	ND	ND	ND	1.0	µg/kg
2-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromochloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromomethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
2,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg

# JONES ENVIRONMENTAL LABORATORY RESULTS

## EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<b>Sample ID:</b>	<b>B-2 @ 15'</b>	<b>B-3 @ 5'</b>	<b>B-3 @ 10'</b>	<b>B-3 @ 15'</b>	<b>B-4 @ 5'</b>		
<b>Jones ID:</b>	<b>ST-17934-06</b>	<b>ST-17934-07</b>	<b>ST-17934-08</b>	<b>ST-17934-09</b>	<b>ST-17934-10</b>	<b>Reporting Limit</b>	<b>Units</b>
<b>Analytes:</b>							
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
Ethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Freon 11	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 12	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 113	ND	ND	ND	ND	ND	5.0	µg/kg
Hexachlorobutadiene	ND	ND	ND	ND	ND	1.0	µg/kg
Isopropylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Isopropyltoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Methylene chloride	ND	ND	ND	ND	ND	1.0	µg/kg
Naphthalene	ND	ND	ND	ND	ND	1.0	µg/kg
n-Propylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Styrene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Tetrachloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
Toluene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Trichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Vinyl chloride	ND	ND	ND	ND	ND	1.0	µg/kg
m,p-Xylene	ND	ND	ND	ND	ND	2.0	µg/kg
o-Xylene	ND	ND	ND	ND	ND	1.0	µg/kg
Methyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Di-isopropylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-amylmethylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-Butylalcohol	ND	ND	ND	ND	ND	50.0	µg/kg
Gasoline Range Organics (C4-C12)	ND	ND	ND	ND	ND	0.20	mg/kg
<b>Dilution Factor</b>	1	1	1	1	1		
<b>Surrogate Recoveries:</b>						<b>QC Limits</b>	
Dibromofluoromethane	106%	103%	103%	101%	103%	60 - 140	
Toluene-d <sub>8</sub>	89%	88%	88%	88%	87%	60 - 140	
4-Bromofluorobenzene	88%	91%	87%	89%	89%	60 - 140	
<b>Batch:</b>	VOC3-080521-01	VOC3-080521-01	VOC3-080521-01	VOC3-080521-01	VOC3-080521-01		

ND = Value less than reporting limit



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### JONES ENVIRONMENTAL LABORATORY RESULTS

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/11/2021
<b>Client Address:</b>		<b>Jones Ref. No.:</b>	ST-17934
<b>Attn:</b>	David L. Lucero	<b>Date Sampled:</b>	8/4/2021
<b>Project:</b>	1933 N. Temple Ave.	<b>Date Received:</b>	8/4/2021
<b>Project Address:</b>	1933 N. Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	8/5-6/2021
		<b>Physical State:</b>	Soil

#### EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	<u>B-4 @ 10'</u>	<u>B-4 @ 15'</u>	<u>B-5 @ 5'</u>	<u>B-5 @ 10'</u>	<u>B-5 @ 15'</u>	<u>Reporting Limit</u>	<u>Units</u>
<u>Jones ID:</u>	ST-17934-11	ST-17934-12	ST-17934-13	ST-17934-14	ST-17934-15		
<b>Analytes:</b>							
Benzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromodichloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
Bromoform	ND	ND	ND	ND	ND	1.0	µg/kg
n-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
sec-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
tert-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Carbon tetrachloride	ND	ND	ND	ND	ND	1.0	µg/kg
Chlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Chloroform	ND	ND	ND	ND	ND	1.0	µg/kg
2-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromochloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromomethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
2,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg

# JONES ENVIRONMENTAL LABORATORY RESULTS

## EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<b>Sample ID:</b>	<b>B-4 @ 10'</b>	<b>B-4 @ 15'</b>	<b>B-5 @ 5'</b>	<b>B-5 @ 10'</b>	<b>B-5 @ 15'</b>		
<b>Jones ID:</b>	<b>ST-17934-11</b>	<b>ST-17934-12</b>	<b>ST-17934-13</b>	<b>ST-17934-14</b>	<b>ST-17934-15</b>	<b>Reporting Limit</b>	<b>Units</b>
<b>Analytes:</b>							
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
Ethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Freon 11	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 12	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 113	ND	ND	ND	ND	ND	5.0	µg/kg
Hexachlorobutadiene	ND	ND	ND	ND	ND	1.0	µg/kg
Isopropylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Isopropyltoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Methylene chloride	ND	ND	ND	ND	ND	1.0	µg/kg
Naphthalene	ND	ND	ND	ND	ND	1.0	µg/kg
n-Propylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Styrene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Tetrachloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
Toluene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Trichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Vinyl chloride	ND	ND	ND	ND	ND	1.0	µg/kg
m,p-Xylene	ND	ND	ND	ND	ND	2.0	µg/kg
o-Xylene	ND	ND	ND	ND	ND	1.0	µg/kg
Methyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Di-isopropylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-amylmethylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-Butylalcohol	ND	ND	ND	ND	ND	50.0	µg/kg
Gasoline Range Organics (C4-C12)	ND	ND	ND	ND	ND	0.20	mg/kg
<b>Dilution Factor</b>	1	1	1	1	1		
<b>Surrogate Recoveries:</b>						<b>QC Limits</b>	
Dibromofluoromethane	103%	100%	102%	110%	105%	60 - 140	
Toluene-d <sub>8</sub>	90%	84%	88%	90%	97%	60 - 140	
4-Bromofluorobenzene	90%	87%	86%	96%	96%	60 - 140	
<b>Batch:</b>	VOC3-080521-01	VOC3-080521-01	VOC3-080521-01	VOC1-080521-01	VOC4-080521-01		

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL LABORATORY RESULTS**

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/11/2021
<b>Client Address:</b>		<b>Jones Ref. No.:</b>	ST-17934
<b>Attn:</b>	David L. Lucero	<b>Date Sampled:</b>	8/4/2021
<b>Project:</b>	1933 N. Temple Ave.	<b>Date Received:</b>	8/4/2021
<b>Project Address:</b>	1933 N. Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	8/5-6/2021
		<b>Physical State:</b>	Soil

**EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics**

<u>Sample ID:</u>	<u>B-6 @ 5'</u>	<u>B-6 @ 10'</u>	<u>B-6 @ 15'</u>	<u>B-7 @ 5'</u>	<u>B-7 @ 10'</u>		
<u>Jones ID:</u>	<u>ST-17934-16</u>	<u>ST-17934-17</u>	<u>ST-17934-18</u>	<u>ST-17934-19</u>	<u>ST-17934-20</u>	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Benzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromodichloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
Bromoform	ND	ND	ND	ND	ND	1.0	µg/kg
n-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
sec-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
tert-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Carbon tetrachloride	ND	ND	ND	ND	ND	1.0	µg/kg
Chlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Chloroform	ND	ND	ND	ND	ND	1.0	µg/kg
2-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromochloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromomethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
2,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg

# JONES ENVIRONMENTAL LABORATORY RESULTS

## EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<b>Sample ID:</b>	<b>B-6 @ 5'</b>	<b>B-6 @ 10'</b>	<b>B-6 @ 15'</b>	<b>B-7 @ 5'</b>	<b>B-7 @ 10'</b>		
<b>Jones ID:</b>	<b>ST-17934-16</b>	<b>ST-17934-17</b>	<b>ST-17934-18</b>	<b>ST-17934-19</b>	<b>ST-17934-20</b>	<b>Reporting Limit</b>	<b>Units</b>
<b>Analytes:</b>							
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
Ethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Freon 11	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 12	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 113	ND	ND	ND	ND	ND	5.0	µg/kg
Hexachlorobutadiene	ND	ND	ND	ND	ND	1.0	µg/kg
Isopropylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Isopropyltoluene	2.5	ND	ND	ND	ND	1.0	µg/kg
Methylene chloride	ND	ND	ND	ND	ND	1.0	µg/kg
Naphthalene	ND	ND	ND	ND	ND	1.0	µg/kg
n-Propylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Styrene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Tetrachloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
Toluene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Trichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Vinyl chloride	ND	ND	ND	ND	ND	1.0	µg/kg
m,p-Xylene	ND	ND	ND	ND	ND	2.0	µg/kg
o-Xylene	ND	ND	ND	ND	ND	1.0	µg/kg
Methyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Di-isopropylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-amylmethylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-Butylalcohol	ND	ND	ND	ND	ND	50.0	µg/kg
Gasoline Range Organics (C4-C12)	ND	ND	ND	ND	ND	0.20	mg/kg
<b>Dilution Factor</b>	1	1	1	1	1		
<b>Surrogate Recoveries:</b>						<b>QC Limits</b>	
Dibromofluoromethane	112%	112%	113%	111%	111%	60 - 140	
Toluene-d <sub>8</sub>	88%	91%	91%	95%	90%	60 - 140	
4-Bromofluorobenzene	97%	97%	99%	95%	97%	60 - 140	
<b>Batch:</b>	VOC1-080521-01	VOC1-080521-01	VOC1-080521-01	VOC1-080521-01	VOC1-080521-01		

ND = Value less than reporting limit



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### JONES ENVIRONMENTAL LABORATORY RESULTS

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/11/2021
<b>Client Address:</b>		<b>Jones Ref. No.:</b>	ST-17934
<b>Attn:</b>	David L. Lucero	<b>Date Sampled:</b>	8/4/2021
<b>Project:</b>	1933 N. Temple Ave.	<b>Date Received:</b>	8/4/2021
<b>Project Address:</b>	1933 N. Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	8/5-6/2021
		<b>Physical State:</b>	Soil

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**EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics**

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<u>Sample ID:</u>	<b>B-7 @ 15'</b>	<b>B-8 @ 5'</b>	<b>B-8 @ 10'</b>	<b>B-8 @ 15'</b>	<b>B-9 @ 5'</b>		
<u>Jones ID:</u>	ST-17934-21	ST-17934-22	ST-17934-23	ST-17934-24	ST-17934-25	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Benzene	ND	<b>3.9</b>	ND	ND	ND	1.0	µg/kg
Bromobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromodichloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
Bromoform	ND	ND	ND	ND	ND	1.0	µg/kg
n-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
sec-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
tert-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Carbon tetrachloride	ND	ND	ND	ND	ND	1.0	µg/kg
Chlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Chloroform	ND	ND	ND	ND	ND	1.0	µg/kg
2-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromochloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromomethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
2,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg

## JONES ENVIRONMENTAL LABORATORY RESULTS

### EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<b>Sample ID:</b>	<b>B-7 @ 15'</b>	<b>B-8 @ 5'</b>	<b>B-8 @ 10'</b>	<b>B-8 @ 15'</b>	<b>B-9 @ 5'</b>		
<b>Jones ID:</b>	<b>ST-17934-21</b>	<b>ST-17934-22</b>	<b>ST-17934-23</b>	<b>ST-17934-24</b>	<b>ST-17934-25</b>	<b>Reporting Limit</b>	<b>Units</b>
<b>Analytes:</b>							
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
Ethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Freon 11	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 12	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 113	ND	ND	ND	ND	ND	5.0	µg/kg
Hexachlorobutadiene	ND	ND	ND	ND	ND	1.0	µg/kg
Isopropylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Isopropyltoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Methylene chloride	ND	ND	ND	ND	ND	1.0	µg/kg
Naphthalene	ND	ND	ND	ND	ND	1.0	µg/kg
n-Propylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Styrene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Tetrachloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
Toluene	ND	<b>1.3</b>	ND	ND	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Trichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Vinyl chloride	ND	ND	ND	ND	ND	1.0	µg/kg
m,p-Xylene	ND	ND	ND	ND	ND	2.0	µg/kg
o-Xylene	ND	ND	ND	ND	ND	1.0	µg/kg
Methyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Di-isopropylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-amylmethylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-Butylalcohol	ND	ND	ND	ND	ND	50.0	µg/kg
Gasoline Range Organics (C4-C12)	ND	ND	ND	ND	ND	0.20	mg/kg
<b>Dilution Factor</b>	1	1	1	1	1		
<b>Surrogate Recoveries:</b>						<b>QC Limits</b>	
Dibromofluoromethane	113%	112%	110%	113%	112%	60 - 140	
Toluene-d <sub>8</sub>	92%	93%	96%	92%	92%	60 - 140	
4-Bromofluorobenzene	96%	96%	102%	100%	98%	60 - 140	
<b>Batch:</b>	VOC1-080521-01	VOC1-080521-01	VOC1-080521-01	VOC1-080521-01	VOC1-080521-01		

ND = Value less than reporting limit



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### JONES ENVIRONMENTAL LABORATORY RESULTS

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/11/2021
<b>Client Address:</b>		<b>Jones Ref. No.:</b>	ST-17934
<b>Attn:</b>	David L. Lucero	<b>Date Sampled:</b>	8/4/2021
<b>Project:</b>	1933 N. Temple Ave.	<b>Date Received:</b>	8/4/2021
<b>Project Address:</b>	1933 N. Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	8/5-6/2021
		<b>Physical State:</b>	Soil

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#### EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

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<u>Sample ID:</u>	<u>B-9 @ 10'</u>	<u>B-9 @ 15'</u>	<u>B-9 @ 20'</u>	<u>B-10 @ 5'</u>	<u>B-10 @ 10'</u>		
<u>Jones ID:</u>	<u>ST-17934-26</u>	<u>ST-17934-27</u>	<u>ST-17934-28</u>	<u>ST-17934-29</u>	<u>ST-17934-30</u>	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Benzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromodichloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
Bromoform	ND	ND	ND	ND	ND	1.0	µg/kg
n-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
sec-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
tert-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Carbon tetrachloride	ND	ND	ND	ND	ND	1.0	µg/kg
Chlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Chloroform	ND	ND	ND	ND	ND	1.0	µg/kg
2-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromochloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromomethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
2,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg

# JONES ENVIRONMENTAL LABORATORY RESULTS

## EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<b>Sample ID:</b>	<b>B-9 @ 10'</b>	<b>B-9 @ 15'</b>	<b>B-9 @ 20'</b>	<b>B-10 @ 5'</b>	<b>B-10 @ 10'</b>		
<b>Jones ID:</b>	<b>ST-17934-26</b>	<b>ST-17934-27</b>	<b>ST-17934-28</b>	<b>ST-17934-29</b>	<b>ST-17934-30</b>	<b>Reporting Limit</b>	<b>Units</b>
<b>Analytes:</b>							
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
Ethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Freon 11	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 12	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 113	ND	ND	ND	ND	ND	5.0	µg/kg
Hexachlorobutadiene	ND	ND	ND	ND	ND	1.0	µg/kg
Isopropylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Isopropyltoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Methylene chloride	ND	ND	ND	ND	ND	1.0	µg/kg
Naphthalene	ND	ND	ND	ND	ND	1.0	µg/kg
n-Propylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Styrene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Tetrachloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
Toluene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Trichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Vinyl chloride	ND	ND	ND	ND	ND	1.0	µg/kg
m,p-Xylene	ND	ND	ND	ND	ND	2.0	µg/kg
o-Xylene	ND	ND	ND	ND	ND	1.0	µg/kg
Methyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Di-isopropylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-amylmethylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-Butylalcohol	ND	ND	ND	ND	ND	50.0	µg/kg
Gasoline Range Organics (C4-C12)	ND	ND	ND	ND	ND	0.20	mg/kg
<b>Dilution Factor</b>	1	1	1	1	1		
<b>Surrogate Recoveries:</b>						<b>QC Limits</b>	
Dibromofluoromethane	111%	112%	104%	103%	102%	60 - 140	
Toluene-d <sub>8</sub>	88%	93%	86%	90%	89%	60 - 140	
4-Bromofluorobenzene	96%	98%	90%	86%	91%	60 - 140	
<b>Batch:</b>	VOC1-080521-01	VOC1-080521-01	VOC3-080521-01	VOC3-080521-01	VOC3-080621-01		

ND = Value less than reporting limit



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### JONES ENVIRONMENTAL LABORATORY RESULTS

**Client:** DL Science, Inc.  
**Client Address:**

**Report date:** 8/11/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021  
**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/5-6/2021  
**Physical State:** Soil

#### EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

**Sample ID:** B-10 @ 15' B-10 @20'

**Jones ID:** ST-17934-31 ST-17934-32

**Analytes:**

			<u>Reporting Limit</u>	<u>Units</u>
Benzene	ND	ND	1.0	µg/kg
Bromobenzene	ND	ND	1.0	µg/kg
Bromodichloromethane	ND	ND	1.0	µg/kg
Bromoform	ND	ND	1.0	µg/kg
n-Butylbenzene	ND	ND	1.0	µg/kg
sec-Butylbenzene	ND	ND	1.0	µg/kg
tert-Butylbenzene	ND	ND	1.0	µg/kg
Carbon tetrachloride	ND	ND	1.0	µg/kg
Chlorobenzene	ND	ND	1.0	µg/kg
Chloroform	ND	ND	1.0	µg/kg
2-Chlorotoluene	ND	ND	1.0	µg/kg
4-Chlorotoluene	ND	ND	1.0	µg/kg
Dibromochloromethane	ND	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	ND	1.0	µg/kg
Dibromomethane	ND	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	ND	1.0	µg/kg
1,1-Dichloroethane	ND	ND	1.0	µg/kg
1,2-Dichloroethane	ND	ND	1.0	µg/kg
1,1-Dichloroethene	ND	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	ND	1.0	µg/kg
1,2-Dichloropropane	ND	ND	1.0	µg/kg
1,3-Dichloropropane	ND	ND	1.0	µg/kg
2,2-Dichloropropane	ND	ND	1.0	µg/kg
1,1-Dichloropropene	ND	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	ND	1.0	µg/kg

## JONES ENVIRONMENTAL LABORATORY RESULTS

### EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<b>Sample ID:</b>	B-10 @ 15'	B-10 @ 20'		
<b>Jones ID:</b>	ST-17934-31	ST-17934-32		
			<b>Reporting Limit</b>	<b>Units</b>
<b>Analytes:</b>				
trans-1,3-Dichloropropene	ND	ND	1.0	µg/kg
Ethylbenzene	ND	ND	1.0	µg/kg
Freon 11	ND	ND	5.0	µg/kg
Freon 12	ND	ND	5.0	µg/kg
Freon 113	ND	ND	5.0	µg/kg
Hexachlorobutadiene	ND	ND	1.0	µg/kg
Isopropylbenzene	ND	ND	1.0	µg/kg
4-Isopropyltoluene	ND	ND	1.0	µg/kg
Methylene chloride	ND	ND	1.0	µg/kg
Naphthalene	ND	ND	1.0	µg/kg
n-Propylbenzene	ND	ND	1.0	µg/kg
Styrene	ND	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	ND	1.0	µg/kg
Tetrachloroethene	ND	ND	1.0	µg/kg
Toluene	ND	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	ND	1.0	µg/kg
Trichloroethene	ND	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	ND	1.0	µg/kg
Vinyl chloride	ND	ND	1.0	µg/kg
m,p-Xylene	ND	ND	2.0	µg/kg
o-Xylene	ND	ND	1.0	µg/kg
Methyl-tert-butylether	ND	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	ND	5.0	µg/kg
Di-isopropylether	ND	ND	5.0	µg/kg
tert-amylmethylether	ND	ND	5.0	µg/kg
tert-Butylalcohol	ND	ND	50.0	µg/kg
Gasoline Range Organics (C4-C12)	ND	ND	0.20	mg/kg
<b>Dilution Factor</b>	1	1		
<b>Surrogate Recoveries:</b>			<b>QC Limits</b>	
Dibromofluoromethane	105%	104%	60 - 140	
Toluene-d <sub>8</sub>	88%	88%	60 - 140	
4-Bromofluorobenzene	90%	90%	60 - 140	
<b>Batch:</b>	VOC3-080521-01	VOC3-080521-01		

ND = Value less than reporting limit



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562-646-1611

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### JONES ENVIRONMENTAL LABORATORY RESULTS

**Client:** DL Science, Inc.  
**Client Address:**

**Report date:** 8/11/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021

**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.

**Date Analyzed:** 8/5-6/2021

**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Physical State:** Soil

#### EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	<u>METHOD</u> <u>BLANK #1</u>	<u>METHOD</u> <u>BLANK #2</u>	<u>METHOD</u> <u>BLANK #3</u>	<u>METHOD</u> <u>BLANK #4</u>	<u>Reporting Limit</u>	<u>Units</u>
<u>Jones ID:</u>	<u>080521-</u> <u>V1MB1</u>	<u>080521-</u> <u>V3MB1</u>	<u>080521-</u> <u>V4MB1</u>	<u>080621-</u> <u>V3MB1</u>		
<b>Analytes:</b>						
Benzene	ND	ND	ND	ND	1.0	µg/kg
Bromobenzene	ND	ND	ND	ND	1.0	µg/kg
Bromodichloromethane	ND	ND	ND	ND	1.0	µg/kg
Bromoform	ND	ND	ND	ND	1.0	µg/kg
n-Butylbenzene	ND	ND	ND	ND	1.0	µg/kg
sec-Butylbenzene	ND	ND	ND	ND	1.0	µg/kg
tert-Butylbenzene	ND	ND	ND	ND	1.0	µg/kg
Carbon tetrachloride	ND	ND	ND	ND	1.0	µg/kg
Chlorobenzene	ND	ND	ND	ND	1.0	µg/kg
Chloroform	ND	ND	ND	ND	1.0	µg/kg
2-Chlorotoluene	ND	ND	ND	ND	1.0	µg/kg
4-Chlorotoluene	ND	ND	ND	ND	1.0	µg/kg
Dibromochloromethane	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	1.0	µg/kg
Dibromomethane	ND	ND	ND	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	ND	ND	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethane	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloroethane	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethene	ND	ND	ND	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	ND	ND	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloropropane	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichloropropane	ND	ND	ND	ND	1.0	µg/kg
2,2-Dichloropropane	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloropropene	ND	ND	ND	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	ND	ND	ND	1.0	µg/kg

## JONES ENVIRONMENTAL LABORATORY RESULTS

### EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	METHOD BLANK #1	METHOD BLANK #2	METHOD BLANK #3	METHOD BLANK #4		
<u>Jones ID:</u>	080521- V1MB1	080521- V3MB1	080521- V4MB1	080621- V3MB1	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>						
trans-1,3-Dichloropropene	ND	ND	ND	ND	1.0	µg/kg
Ethylbenzene	ND	ND	ND	ND	1.0	µg/kg
Freon 11	ND	ND	ND	ND	5.0	µg/kg
Freon 12	ND	ND	ND	ND	5.0	µg/kg
Freon 113	ND	ND	ND	ND	5.0	µg/kg
Hexachlorobutadiene	ND	ND	ND	ND	1.0	µg/kg
Isopropylbenzene	ND	ND	ND	ND	1.0	µg/kg
4-Isopropyltoluene	ND	ND	ND	ND	1.0	µg/kg
Methylene chloride	ND	ND	ND	ND	1.0	µg/kg
Naphthalene	ND	ND	ND	ND	1.0	µg/kg
n-Propylbenzene	ND	ND	ND	ND	1.0	µg/kg
Styrene	ND	ND	ND	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	1.0	µg/kg
Tetrachloroethene	ND	ND	ND	ND	1.0	µg/kg
Toluene	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	ND	ND	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	ND	ND	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	ND	ND	ND	1.0	µg/kg
Trichloroethene	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	ND	ND	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	1.0	µg/kg
Vinyl chloride	ND	ND	ND	ND	1.0	µg/kg
m,p-Xylene	ND	ND	ND	ND	2.0	µg/kg
o-Xylene	ND	ND	ND	ND	1.0	µg/kg
Methyl-tert-butylether	ND	ND	ND	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	ND	ND	ND	5.0	µg/kg
Di-isopropylether	ND	ND	ND	ND	5.0	µg/kg
tert-amylmethylether	ND	ND	ND	ND	5.0	µg/kg
tert-Butylalcohol	ND	ND	ND	ND	50.0	µg/kg
Gasoline Range Organics (C4-C12)	ND	ND	ND	ND	0.20	mg/kg
<b><u>Dilution Factor</u></b>	1	1	1	1		
<b><u>Surrogate Recoveries:</u></b>					<b><u>QC Limits</u></b>	
Dibromofluoromethane	106%	103%	105%	100%	60 - 140	
Toluene-d <sub>8</sub>	92%	86%	99%	87%	60 - 140	
4-Bromofluorobenzene	94%	90%	97%	91%	60 - 140	
<b><u>Batch:</u></b>	VOC1-080521- 01	VOC3-080521- 01	VOC4-080521- 01	VOC3-080621- 01		

ND = Value less than reporting limit



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### JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

**Client:** DL Science, Inc.  
**Client Address:**

**Report date:** 8/11/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021  
**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/5-6/2021  
**Physical State:** Soil

#### EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

GC#:	VOC1-080521-01					
	Jones ID:	080521-V1LCS1	080521-V1LCSD1		080521-V1CCV1	
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	133%	127%	4.6%	60 - 140	110%	80 - 120
1,1-Dichloroethene	129%	124%	4.1%	60 - 140	111%	80 - 120
Cis-1,2-Dichloroethene	116%	110%	5.1%	70 - 130	105%	80 - 120
1,1,1-Trichloroethane	109%	101%	7.0%	70 - 130	99%	80 - 120
Benzene	112%	106%	5.8%	70 - 130	102%	80 - 120
Trichloroethene	102%	98%	3.5%	70 - 130	97%	80 - 120
Toluene	103%	103%	0.3%	70 - 130	105%	80 - 120
Tetrachloroethene	96%	96%	0.2%	70 - 130	102%	80 - 120
Chlorobenzene	91%	91%	0.7%	70 - 130	99%	80 - 120
Ethylbenzene	101%	102%	0.6%	70 - 130	108%	80 - 120
1,2,4 Trimethylbenzene	99%	97%	2.0%	70 - 130	119%	80 - 120
Gasoline Range Organics (C4-C12)	104%	102%	1.8%	70 - 130		
<b>Surrogate Recovery:</b>						
Dibromofluoromethane	103%	109%		60 - 140	98%	80 - 120
Toluene-d <sub>8</sub>	89%	98%		60 - 140	95%	80 - 120
4-Bromofluorobenzene	92%	98%		60 - 140	99%	80 - 120

LCS = Laboratory Control Sample  
 LCSD = Laboratory Control Sample Duplicate  
 CCV = Continuing Calibration Verification  
 RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%



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### JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

**Client:** DL Science, Inc.  
**Client Address:**

**Report date:** 8/11/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021  
**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/5-6/2021  
**Physical State:** Soil

#### EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

GC#:	VOC3-080521-01					
	Jones ID: 080521-V3LCS1		080521-V3LCSD1		080521-V3CCV1	
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	90%	86%	4.9%	60 - 140	101%	80 - 120
1,1-Dichloroethene	99%	92%	7.2%	60 - 140	90%	80 - 120
Cis-1,2-Dichloroethene	98%	95%	3.7%	70 - 130	97%	80 - 120
1,1,1-Trichloroethane	90%	90%	0.6%	70 - 130	92%	80 - 120
Benzene	108%	103%	4.4%	70 - 130	109%	80 - 120
Trichloroethene	89%	88%	1.2%	70 - 130	96%	80 - 120
Toluene	105%	105%	0.0%	70 - 130	112%	80 - 120
Tetrachloroethene	93%	93%	0.6%	70 - 130	100%	80 - 120
Chlorobenzene	104%	104%	0.1%	70 - 130	112%	80 - 120
Ethylbenzene	71%	71%	0.0%	70 - 130	97%	80 - 120
1,2,4 Trimethylbenzene	94%	90%	4.2%	70 - 130	105%	80 - 120
Gasoline Range Organics (C4-C12)	94%	92%	2.3%	70 - 130		
<b>Surrogate Recovery:</b>						
Dibromofluoromethane	97%	95%		60 - 140	89%	80 - 120
Toluene-d <sub>8</sub>	87%	87%		60 - 140	92%	80 - 120
4-Bromofluorobenzene	87%	89%		60 - 140	100%	80 - 120

LCS = Laboratory Control Sample

LCSD = Laboratory Control Sample Duplicate

CCV = Continuing Calibration Verification

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%



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### JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

**Client:** DL Science, Inc.  
**Client Address:**

**Report date:** 8/11/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021  
**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/5-6/2021  
**Physical State:** Soil

#### EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

GC#:	VOC4-080521-01					
	Jones ID: 080521-V4LCS1		080521-V4LCSD1		080521-V4CCV1	
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	137%	140%	2.3%	60 - 140	116%	80 - 120
1,1-Dichloroethene	134%	128%	4.3%	60 - 140	108%	80 - 120
Cis-1,2-Dichloroethene	118%	113%	5.0%	70 - 130	102%	80 - 120
1,1,1-Trichloroethane	122%	115%	5.9%	70 - 130	99%	80 - 120
Benzene	127%	119%	6.5%	70 - 130	108%	80 - 120
Trichloroethene	112%	106%	5.2%	70 - 130	97%	80 - 120
Toluene	117%	105%	10.9%	70 - 130	111%	80 - 120
Tetrachloroethene	106%	97%	9.6%	70 - 130	89%	80 - 120
Chlorobenzene	105%	94%	11.1%	70 - 130	90%	80 - 120
Ethylbenzene	120%	107%	11.2%	70 - 130	103%	80 - 120
1,2,4 Trimethylbenzene	117%	105%	10.4%	70 - 130	99%	80 - 120
Gasoline Range Organics (C4-C12)	120%	109%	9.7%	70 - 130		
<b>Surrogate Recovery:</b>						
Dibromofluoromethane	97%	95%		60 - 140	95%	80 - 120
Toluene-d <sub>8</sub>	102%	99%		60 - 140	104%	80 - 120
4-Bromofluorobenzene	94%	92%		60 - 140	109%	80 - 120

LCS = Laboratory Control Sample  
 LCSD = Laboratory Control Sample Duplicate  
 CCV = Continuing Calibration Verification  
 RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%



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### JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

**Client:** DL Science, Inc.  
**Client Address:**

**Report date:** 8/11/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021  
**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/5-6/2021  
**Physical State:** Soil

#### EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

GC#:	VOC3-080621-01					
	Jones ID: 080621-V3LCS1		080621-V3LCSD1		080621-V3CCV1	
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	91%	89%	2.1%	60 - 140	98%	80 - 120
1,1-Dichloroethene	94%	100%	6.4%	60 - 140	94%	80 - 120
Cis-1,2-Dichloroethene	98%	102%	3.5%	70 - 130	100%	80 - 120
1,1,1-Trichloroethane	90%	91%	1.3%	70 - 130	93%	80 - 120
Benzene	103%	108%	4.5%	70 - 130	113%	80 - 120
Trichloroethene	86%	90%	3.8%	70 - 130	98%	80 - 120
Toluene	103%	109%	5.6%	70 - 130	116%	80 - 120
Tetrachloroethene	91%	96%	6.0%	70 - 130	100%	80 - 120
Chlorobenzene	103%	108%	5.1%	70 - 130	116%	80 - 120
Ethylbenzene	70%	73%	3.5%	70 - 130	99%	80 - 120
1,2,4 Trimethylbenzene	93%	97%	4.7%	70 - 130	107%	80 - 120
Gasoline Range Organics (C4-C12)	92%	97%	4.7%	70 - 130		
<b>Surrogate Recovery:</b>						
Dibromofluoromethane	95%	95%		60 - 140	92%	80 - 120
Toluene-d <sub>8</sub>	87%	88%		60 - 140	93%	80 - 120
4-Bromofluorobenzene	88%	88%		60 - 140	101%	80 - 120

LCS = Laboratory Control Sample  
 LCSD = Laboratory Control Sample Duplicate  
 CCV = Continuing Calibration Verification  
 RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:**

**Report date:** 8/11/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021  
**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/10-11/2021  
**Physical State:** Soil

**EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES**

<u>Sample ID:</u>	<b>B-1@5'</b>	<b>B-1@10'</b>	<b>B-1@15'</b>	<b>B-2@5'</b>	<b>B-2@10'</b>		
<u>Jones ID:</u>	ST-17934-01	ST-17934-02	ST-17934-03	ST-17934-04	ST-17934-05	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Silver, Ag	ND	ND	ND	ND	ND	0.5	mg/kg
Arsenic, As	ND	ND	ND	ND	ND	5.0	mg/kg
Barium, Ba	<b>86.2</b>	<b>48.1</b>	<b>37.1</b>	<b>49.3</b>	<b>35.8</b>	0.5	mg/kg
Beryllium, Be	ND	ND	ND	ND	ND	0.5	mg/kg
Cadmium, Cd	<b>1.6</b>	<b>1.5</b>	<b>1.0</b>	<b>1.3</b>	<b>0.9</b>	0.5	mg/kg
Cobalt, Co	<b>7.2</b>	<b>5.8</b>	<b>4.8</b>	<b>4.7</b>	<b>4.4</b>	0.5	mg/kg
Chromium, Cr	<b>15.4</b>	<b>13.6</b>	<b>8.5</b>	<b>12.2</b>	<b>7.9</b>	0.5	mg/kg
Copper, Cu	<b>17.5</b>	<b>7.0</b>	<b>3.2</b>	<b>6.3</b>	<b>2.9</b>	0.5	mg/kg
Molybdenum, Mo	ND	ND	ND	ND	ND	0.5	mg/kg
Nickel, Ni	<b>11.8</b>	<b>9.7</b>	<b>6.2</b>	<b>8.3</b>	<b>6.1</b>	0.5	mg/kg
Lead, Pb	<b>12.4</b>	<b>3.0</b>	<b>1.3</b>	<b>2.7</b>	<b>1.2</b>	0.5	mg/kg
Antimony, Sb	ND	ND	ND	ND	ND	5.0	mg/kg
Selenium, Se	ND	ND	ND	ND	ND	5.0	mg/kg
Thallium, Tl	ND	ND	ND	ND	ND	5.0	mg/kg
Vanadium, V	<b>28.5</b>	<b>28.7</b>	<b>18.4</b>	<b>25.0</b>	<b>16.4</b>	0.5	mg/kg
Zinc, Zn	<b>47.0</b>	<b>32.5</b>	<b>24.6</b>	<b>26.8</b>	<b>22.5</b>	1.0	mg/kg
<b>Dilution Factor</b>	1	1	1	1	1		

**Batch:** I21080901 I21080901 I21080901 I21080901 I21080901

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

<u>Sample ID:</u>	<b>B-1@5'</b>	<b>B-1@10'</b>	<b>B-1@15'</b>	<b>B-2@5'</b>	<b>B-2@10'</b>		
<u>Jones ID:</u>	ST-17934-01	ST-17934-02	ST-17934-03	ST-17934-04	ST-17934-05	<u>Reporting Limit</u>	<u>Units</u>
Mercury, Hg	<b>0.060</b>	<b>0.031</b>	ND	<b>0.033</b>	ND	0.020	mg/kg
<b>Dilution Factor</b>	1	1	1	1	1		
<b>Batch:</b>	H21080601	H21080601	H21080601	H21080601	H21080601		

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:**

**Report date:** 8/11/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021  
**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/10-11/2021  
**Physical State:** Soil

**EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES**

<u>Sample ID:</u>	B-2@15'	B-3@5'	B-3@10'	B-3@15'	B-4@5'		
<u>Jones ID:</u>	ST-17934-06	ST-17934-07	ST-17934-08	ST-17934-09	ST-17934-10	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Silver, Ag	ND	ND	ND	ND	ND	0.5	mg/kg
Arsenic, As	ND	ND	ND	ND	ND	5.0	mg/kg
Barium, Ba	<b>31.2</b>	<b>58.0</b>	<b>45.1</b>	<b>28.6</b>	<b>40.1</b>	0.5	mg/kg
Beryllium, Be	ND	ND	ND	ND	ND	0.5	mg/kg
Cadmium, Cd	<b>1.2</b>	<b>1.6</b>	<b>1.0</b>	<b>1.1</b>	<b>1.0</b>	0.5	mg/kg
Cobalt, Co	<b>5.0</b>	<b>5.3</b>	<b>4.5</b>	<b>4.5</b>	<b>4.1</b>	0.5	mg/kg
Chromium, Cr	<b>9.1</b>	<b>17.4</b>	<b>9.4</b>	<b>8.7</b>	<b>9.2</b>	0.5	mg/kg
Copper, Cu	<b>3.7</b>	<b>8.7</b>	<b>3.4</b>	<b>3.1</b>	<b>4.8</b>	0.5	mg/kg
Molybdenum, Mo	ND	ND	ND	ND	ND	0.5	mg/kg
Nickel, Ni	<b>8.1</b>	<b>9.9</b>	<b>6.8</b>	<b>6.2</b>	<b>5.7</b>	0.5	mg/kg
Lead, Pb	<b>1.5</b>	<b>5.1</b>	<b>1.9</b>	<b>1.4</b>	<b>2.2</b>	0.5	mg/kg
Antimony, Sb	ND	ND	ND	ND	ND	5.0	mg/kg
Selenium, Se	ND	ND	ND	ND	ND	5.0	mg/kg
Thallium, Tl	ND	ND	ND	ND	ND	5.0	mg/kg
Vanadium, V	<b>19.6</b>	<b>28.9</b>	<b>18.8</b>	<b>20.3</b>	<b>18.8</b>	0.5	mg/kg
Zinc, Zn	<b>28.2</b>	<b>32.4</b>	<b>24.4</b>	<b>23.8</b>	<b>17.7</b>	1.0	mg/kg
<b>Dilution Factor</b>	1	1	1	1	1		

**Batch:** I21080901 I21080901 I21080901 I21080901 I21080901

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

<u>Sample ID:</u>	B-2@15'	B-3@5'	B-3@10'	B-3@15'	B-4@5'		
<u>Jones ID:</u>	ST-17934-06	ST-17934-07	ST-17934-08	ST-17934-09	ST-17934-10	<u>Reporting Limit</u>	<u>Units</u>
Mercury, Hg	ND	<b>0.035</b>	<b>0.022</b>	ND	ND	0.020	mg/kg
<b>Dilution Factor</b>	1	1	1	1	1		
<b>Batch:</b>	H21080601	H21080601	H21080601	H21080601	H21080601		

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:**

**Report date:** 8/11/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021

**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/10-11/2021

**Physical State:** Soil

**EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES**

<u>Sample ID:</u>	B-4@10'	B-4@15'	B-5@5'	B-5@10'	B-5@15'		
<u>Jones ID:</u>	ST-17934-11	ST-17934-12	ST-17934-13	ST-17934-14	ST-17934-15	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Silver, Ag	ND	ND	ND	ND	ND	0.5	mg/kg
Arsenic, As	ND	ND	ND	ND	ND	5.0	mg/kg
Barium, Ba	<b>48.3</b>	<b>39.0</b>	<b>55.9</b>	<b>39.4</b>	<b>36.3</b>	0.5	mg/kg
Beryllium, Be	ND	ND	ND	ND	ND	0.5	mg/kg
Cadmium, Cd	<b>1.5</b>	<b>1.1</b>	<b>1.3</b>	<b>1.1</b>	<b>1.1</b>	0.5	mg/kg
Cobalt, Co	<b>5.6</b>	<b>4.8</b>	<b>6.6</b>	<b>4.7</b>	<b>4.7</b>	0.5	mg/kg
Chromium, Cr	<b>14.1</b>	<b>9.8</b>	<b>13.7</b>	<b>9.3</b>	<b>9.2</b>	0.5	mg/kg
Copper, Cu	<b>7.4</b>	<b>3.9</b>	<b>7.3</b>	<b>3.9</b>	<b>3.3</b>	0.5	mg/kg
Molybdenum, Mo	ND	ND	ND	ND	ND	0.5	mg/kg
Nickel, Ni	<b>9.4</b>	<b>6.6</b>	<b>7.7</b>	<b>7.5</b>	<b>6.3</b>	0.5	mg/kg
Lead, Pb	<b>2.8</b>	<b>1.5</b>	<b>3.0</b>	<b>1.5</b>	<b>1.5</b>	0.5	mg/kg
Antimony, Sb	ND	ND	ND	ND	ND	5.0	mg/kg
Selenium, Se	ND	ND	ND	ND	ND	5.0	mg/kg
Thallium, Tl	ND	ND	ND	ND	ND	5.0	mg/kg
Vanadium, V	<b>27.1</b>	<b>22.6</b>	<b>26.1</b>	<b>19.5</b>	<b>20.6</b>	0.5	mg/kg
Zinc, Zn	<b>30.9</b>	<b>26.9</b>	<b>27.5</b>	<b>23.2</b>	<b>24.9</b>	1.0	mg/kg
<b><u>Dilution Factor</u></b>	1	1	1	1	1		

**Batch:** I21080901 I21080901 I21080901 I21080901 I21080901

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

<u>Sample ID:</u>	B-4@10'	B-4@15'	B-5@5'	B-5@10'	B-5@15'		
<u>Jones ID:</u>	ST-17934-11	ST-17934-12	ST-17934-13	ST-17934-14	ST-17934-15	<u>Reporting Limit</u>	<u>Units</u>
Mercury, Hg	<b>0.029</b>	ND	<b>0.027</b>	<b>0.021</b>	ND	0.020	mg/kg
<b><u>Dilution Factor</u></b>	1	1	1	1	1		
<b>Batch:</b>	H21080601	H21080601	H21080601	H21080601	H21080601		

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:**

**Report date:** 8/11/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021  
**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/10-11/2021  
**Physical State:** Soil

**EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES**

<u>Sample ID:</u>	<b>B-6@5'</b>	<b>B-6@10'</b>	<b>B-6@15'</b>	<b>B-7@5'</b>	<b>B-7@10'</b>		
<u>Jones ID:</u>	ST-17934-16	ST-17934-17	ST-17934-18	ST-17934-19	ST-17934-20	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Silver, Ag	ND	ND	ND	ND	ND	0.5	mg/kg
Arsenic, As	ND	ND	ND	ND	ND	5.0	mg/kg
Barium, Ba	<b>580*</b>	<b>50.0</b>	<b>68.7</b>	<b>88.2</b>	<b>58.8</b>	0.5	mg/kg
Beryllium, Be	ND	ND	ND	ND	ND	0.5	mg/kg
Cadmium, Cd	<b>2.6</b>	<b>1.3</b>	<b>1.8</b>	<b>1.3</b>	<b>1.2</b>	0.5	mg/kg
Cobalt, Co	<b>12.0</b>	<b>6.1</b>	<b>7.7</b>	<b>4.5</b>	<b>5.6</b>	0.5	mg/kg
Chromium, Cr	<b>24.4</b>	<b>11.0</b>	<b>17.4</b>	<b>11.9</b>	<b>11.7</b>	0.5	mg/kg
Copper, Cu	<b>26.5</b>	<b>11.4</b>	<b>7.4</b>	<b>7.0</b>	<b>6.4</b>	0.5	mg/kg
Molybdenum, Mo	ND	ND	ND	ND	ND	0.5	mg/kg
Nickel, Ni	<b>23.1</b>	<b>9.2</b>	<b>10.1</b>	<b>6.7</b>	<b>7.2</b>	0.5	mg/kg
Lead, Pb	<b>57.8</b>	<b>7.1</b>	<b>3.7</b>	<b>4.2</b>	<b>3.1</b>	0.5	mg/kg
Antimony, Sb	ND	ND	ND	ND	ND	5.0	mg/kg
Selenium, Se	ND	ND	ND	ND	ND	5.0	mg/kg
Thallium, Tl	ND	ND	ND	ND	ND	5.0	mg/kg
Vanadium, V	<b>37.3</b>	<b>20.0</b>	<b>35.0</b>	<b>24.6</b>	<b>22.0</b>	0.5	mg/kg
Zinc, Zn	<b>105</b>	<b>57.0</b>	<b>35.2</b>	<b>23.4</b>	<b>21.2</b>	1.0	mg/kg
<b>Dilution Factor</b>	1/10*	1	1	1	1		

**Batch:** I21080901 I21080902 I21080902 I21080902 I21080902

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

<u>Sample ID:</u>	<b>B-6@5'</b>	<b>B-6@10'</b>	<b>B-6@15'</b>	<b>B-7@5'</b>	<b>B-7@10'</b>		
<u>Jones ID:</u>	ST-17934-16	ST-17934-17	ST-17934-18	ST-17934-19	ST-17934-20	<u>Reporting Limit</u>	<u>Units</u>
Mercury, Hg	<b>0.101</b>	<b>0.073</b>	<b>0.028</b>	<b>0.043</b>	<b>0.027</b>	0.020	mg/kg
<b>Dilution Factor</b>	1	1	1	1	1		
<b>Batch:</b>	H21080601	H21080901	H21080901	H21080901	H21080901		

\*= Dilutions for these compound(s); first number for all others

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:**

**Report date:** 8/11/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021  
**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/10-11/2021  
**Physical State:** Soil

**EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES**

<u>Sample ID:</u>	B-7@15'	B-8@5'	B-8@10'	B-8@15'	B-9@5'		
<u>Jones ID:</u>	ST-17934-21	ST-17934-22	ST-17934-23	ST-17934-24	ST-17934-25	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Silver, Ag	ND	ND	ND	ND	ND	0.5	mg/kg
Arsenic, As	ND	ND	ND	ND	ND	5.0	mg/kg
Barium, Ba	<b>43.1</b>	<b>120</b>	<b>117</b>	<b>53.6</b>	<b>96.7</b>	0.5	mg/kg
Beryllium, Be	ND	ND	ND	ND	ND	0.5	mg/kg
Cadmium, Cd	<b>1.1</b>	<b>1.6</b>	<b>1.3</b>	<b>1.6</b>	<b>1.7</b>	0.5	mg/kg
Cobalt, Co	<b>5.2</b>	<b>6.0</b>	<b>5.5</b>	<b>6.1</b>	<b>6.6</b>	0.5	mg/kg
Chromium, Cr	<b>11.1</b>	<b>14.2</b>	<b>13.2</b>	<b>13.9</b>	<b>15.6</b>	0.5	mg/kg
Copper, Cu	<b>5.3</b>	<b>23.1</b>	<b>10.1</b>	<b>7.4</b>	<b>20.2</b>	0.5	mg/kg
Molybdenum, Mo	ND	ND	ND	ND	ND	0.5	mg/kg
Nickel, Ni	<b>7.4</b>	<b>12.1</b>	<b>7.8</b>	<b>9.3</b>	<b>10.8</b>	0.5	mg/kg
Lead, Pb	<b>2.5</b>	<b>45.0</b>	<b>13.5</b>	<b>3.1</b>	<b>19.0</b>	0.5	mg/kg
Antimony, Sb	ND	ND	ND	ND	ND	5.0	mg/kg
Selenium, Se	ND	ND	ND	ND	ND	5.0	mg/kg
Thallium, Tl	ND	ND	ND	ND	ND	5.0	mg/kg
Vanadium, V	<b>21.5</b>	<b>24.8</b>	<b>23.9</b>	<b>29.0</b>	<b>27.8</b>	0.5	mg/kg
Zinc, Zn	<b>22.3</b>	<b>118</b>	<b>37.4</b>	<b>32.0</b>	<b>74.7</b>	1.0	mg/kg
<b>Dilution Factor</b>	1	1	1	1	1		

**Batch:** I21080902 I21080902 I21080902 I21080902 I21080902

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

<u>Sample ID:</u>	B-7@15'	B-8@5'	B-8@10'	B-8@15'	B-9@5'		
<u>Jones ID:</u>	ST-17934-21	ST-17934-22	ST-17934-23	ST-17934-24	ST-17934-25	<u>Reporting Limit</u>	<u>Units</u>
Mercury, Hg	ND	<b>0.187</b>	<b>0.045</b>	<b>0.023</b>	<b>0.085</b>	0.020	mg/kg
<b>Dilution Factor</b>	1	1	1	1	1		
<b>Batch:</b>	H21080901	H21080901	H21080901	H21080901	H21080901		

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:**

**Report date:** 8/11/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021  
**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/10-11/2021  
**Physical State:** Soil

**EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES**

<u>Sample ID:</u>	<u>B-9@10'</u>	<u>B-9@15'</u>	<u>B-9@20'</u>	<u>B-10@5'</u>	<u>B-10@10'</u>		
<u>Jones ID:</u>	ST-17934-26	ST-17934-27	ST-17934-28	ST-17934-29	ST-17934-30	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Silver, Ag	ND	ND	ND	ND	ND	0.5	mg/kg
Arsenic, As	ND	ND	ND	ND	ND	5.0	mg/kg
Barium, Ba	<b>53.4</b>	<b>25.4</b>	<b>54.6</b>	<b>81.0</b>	<b>76.0</b>	0.5	mg/kg
Beryllium, Be	ND	ND	ND	ND	ND	0.5	mg/kg
Cadmium, Cd	<b>1.6</b>	<b>0.8</b>	<b>1.6</b>	<b>1.4</b>	<b>0.9</b>	0.5	mg/kg
Cobalt, Co	<b>5.1</b>	<b>3.5</b>	<b>13.9</b>	<b>5.3</b>	<b>3.5</b>	0.5	mg/kg
Chromium, Cr	<b>15.7</b>	<b>6.9</b>	<b>19.6</b>	<b>21.3</b>	<b>12.8</b>	0.5	mg/kg
Copper, Cu	<b>8.2</b>	<b>2.8</b>	<b>6.8</b>	<b>19.3</b>	<b>4.9</b>	0.5	mg/kg
Molybdenum, Mo	ND	ND	ND	ND	ND	0.5	mg/kg
Nickel, Ni	<b>10.1</b>	<b>5.0</b>	<b>12.1</b>	<b>9.2</b>	<b>5.4</b>	0.5	mg/kg
Lead, Pb	<b>2.8</b>	<b>1.2</b>	<b>2.2</b>	<b>22.4</b>	<b>2.6</b>	0.5	mg/kg
Antimony, Sb	ND	ND	ND	ND	ND	5.0	mg/kg
Selenium, Se	ND	ND	ND	ND	ND	5.0	mg/kg
Thallium, Tl	ND	ND	ND	ND	ND	5.0	mg/kg
Vanadium, V	<b>30.6</b>	<b>17.4</b>	<b>32.0</b>	<b>20.9</b>	<b>18.9</b>	0.5	mg/kg
Zinc, Zn	<b>31.4</b>	<b>19.0</b>	<b>38.2</b>	<b>66.3</b>	<b>16.4</b>	1.0	mg/kg
<b>Dilution Factor</b>	1	1	1	1	1		

**Batch:** I21080902 I21080902 I21080902 I21080902 I21080902

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

<u>Sample ID:</u>	<u>B-9@10'</u>	<u>B-9@15'</u>	<u>B-9@20'</u>	<u>B-10@5'</u>	<u>B-10@10'</u>		
<u>Jones ID:</u>	ST-17934-26	ST-17934-27	ST-17934-28	ST-17934-29	ST-17934-30	<u>Reporting Limit</u>	<u>Units</u>
Mercury, Hg	<b>0.043</b>	ND	<b>0.023</b>	<b>4.168</b>	<b>0.037</b>	0.020	mg/kg
<b>Dilution Factor</b>	1	1	1	10	1		
<b>Batch:</b>	H21080901	H21080901	H21080901	H21080901	H21080901		

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:**

**Report date:** 8/11/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021  
**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/10-11/2021  
**Physical State:** Soil

**EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES**

**Sample ID:** B-10@15' B-10@20'

**Jones ID:** ST-17934-31 ST-17934-32

**Analytes:**

			<u>Reporting Limit</u>	<u>Units</u>
Silver, Ag	ND	ND	0.5	mg/kg
Arsenic, As	ND	ND	5.0	mg/kg
Barium, Ba	<b>47.7</b>	<b>49.0</b>	0.5	mg/kg
Beryllium, Be	ND	ND	0.5	mg/kg
Cadmium, Cd	<b>1.2</b>	<b>1.8</b>	0.5	mg/kg
Cobalt, Co	<b>5.4</b>	<b>8.6</b>	0.5	mg/kg
Chromium, Cr	<b>11.0</b>	<b>19.7</b>	0.5	mg/kg
Copper, Cu	<b>5.1</b>	<b>8.5</b>	0.5	mg/kg
Molybdenum, Mo	ND	ND	0.5	mg/kg
Nickel, Ni	<b>7.0</b>	<b>21.1</b>	0.5	mg/kg
Lead, Pb	<b>2.0</b>	<b>1.8</b>	0.5	mg/kg
Antimony, Sb	ND	ND	5.0	mg/kg
Selenium, Se	ND	ND	5.0	mg/kg
Thallium, Tl	ND	ND	5.0	mg/kg
Vanadium, V	<b>23.2</b>	<b>35.9</b>	0.5	mg/kg
Zinc, Zn	<b>23.8</b>	<b>46.9</b>	1.0	mg/kg
<b>Dilution Factor</b>	1	1		

**Batch:** I21080902 I21080902

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

**Sample ID:** B-10@15' B-10@20'

**Jones ID:** ST-17934-31 ST-17934-32

			<u>Reporting Limit</u>	<u>Units</u>
Mercury, Hg	ND	ND	0.020	mg/kg

**Dilution Factor** 1 1

**Batch:** H21080901 H21080901

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/11/2021
<b>Client Address:</b>		<b>Jones Ref. No.:</b>	ST-17934
<b>Attn:</b>	David L. Lucero	<b>Date Sampled:</b>	8/4/2021
<b>Project:</b>	1933 N. Temple Ave.	<b>Date Received:</b>	8/4/2021
<b>Project Address:</b>	1933 N. Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	8/10-11/2021
		<b>Physical State:</b>	Soil

**BATCH:** I21080901      **Prepared:** 8/9/2021      **Analyzed:** 8/10/2021

**EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES**

Analytes:	Result	Spike Level	% REC	% REC Limits	% RPD	Reporting Limit	Units
<b>METHOD BLANK:</b>	<b>I210809-MB1</b>						
Silver, Ag	ND					0.5	mg/kg
Arsenic, As	ND					5.0	mg/kg
Barium, Ba	ND					0.5	mg/kg
Beryllium, Be	ND					0.5	mg/kg
Cadmium, Cd	ND					0.5	mg/kg
Cobalt, Co	ND					0.5	mg/kg
Chromium, Cr	ND					0.5	mg/kg
Copper, Cu	ND					0.5	mg/kg
Molybdenum, Mo	ND					0.5	mg/kg
Nickel, Ni	ND					0.5	mg/kg
Lead, Pb	ND					0.5	mg/kg
Antimony, Sb	ND					5.0	mg/kg
Selenium, Se	ND					5.0	mg/kg
Thallium, Tl	ND					5.0	mg/kg
Vanadium, V	ND					0.5	mg/kg
Zinc, Zn	ND					1.0	mg/kg

ND= Not Detected



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### JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/11/2021
<b>Client Address:</b>		<b>Jones Ref. No.:</b>	ST-17934
<b>Attn:</b>	David L. Lucero	<b>Date Sampled:</b>	8/4/2021
<b>Project:</b>	1933 N. Temple Ave.	<b>Date Received:</b>	8/4/2021
<b>Project Address:</b>	1933 N. Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	8/10-11/2021
		<b>Physical State:</b>	Soil

**BATCH:** I21080901      **Prepared:** 8/9/2021      **Analyzed:** 8/10/2021

#### EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

	Result	Spike Level	% REC	% RPD	% REC Limits	Units
<b>Analyses:</b>						
<b>LCS: I210809-LCS1</b>						
Barium, Ba	205	200	103%		80 - 120	mg/kg
Cobalt, Co	52.1	50.0	104%		80 - 120	mg/kg
Lead, Pb	54.1	50.0	108%		80 - 120	mg/kg
Selenium, Se	191	200	96%		80 - 120	mg/kg
Zinc, Zn	48.4	50.0	97%		80 - 120	mg/kg
<b>LCSD: I210809-LCSD1</b>						
Barium, Ba	217	200	109%	5.7%	80 - 120	mg/kg
Cobalt, Co	52.8	50.0	106%	1.3%	80 - 120	mg/kg
Lead, Pb	54.7	50.0	109%	1.1%	80 - 120	mg/kg
Selenium, Se	192	200	96%	0.5%	80 - 120	mg/kg
Zinc, Zn	48.9	50.0	98%	1.0%	80 - 120	mg/kg
<b>CCV: I210809-CCV1</b>						
Barium, Ba	1.02	1.00	102%		90-110	mg/L
Cobalt, Co	1.04	1.00	104%		90-110	mg/L
Lead, Pb	1.02	1.00	102%		90-110	mg/L
Selenium, Se	0.97	1.00	97%		90-110	mg/L
Zinc, Zn	0.99	1.00	99%		90-110	mg/L

CCV = Continuing Calibration Verification  
LCS = Laboratory Control Sample  
LCSD= Laboratory Control Sample Duplicate

ND= Not Detected  
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/11/2021
<b>Client Address:</b>		<b>Jones Ref. No.:</b>	ST-17934
<b>Attn:</b>	David L. Lucero	<b>Date Sampled:</b>	8/4/2021
<b>Project:</b>	1933 N. Temple Ave.	<b>Date Received:</b>	8/4/2021
<b>Project Address:</b>	1933 N. Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	8/10-11/2021
		<b>Physical State:</b>	Soil

**BATCH:** H21080601      **Prepared:** 8/6/2021      **Analyzed:** 8/10/2021

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Reporting Limit	Units
<b>METHOD BLANK:</b>	<b>H210806-MB1</b>						
Mercury, Hg	ND					0.020	mg/kg
<b>LCS:</b>	<b>H210806-LCS1</b>						
Mercury, Hg	0.90	1.00	90%		80 - 120		mg/kg
<b>LCSD:</b>	<b>H210806-LCSD1</b>						
Mercury, Hg	1.01	1.00	101%	11.5%	80 - 120		mg/kg
<b>CCV:</b>	<b>H210806-CCV1</b>						
Mercury, Hg	5.21	5.00	104%		90-110		µg/L

ND= Not Detected  
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

LCS = Laboratory Control Sample  
LCSD= Laboratory Control Sample Duplicate  
CCV = Continuing Calibration Verification  
RPD = Relative Percent Difference



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/11/2021
<b>Client Address:</b>		<b>Jones Ref. No.:</b>	ST-17934
<b>Attn:</b>	David L. Lucero	<b>Date Sampled:</b>	8/4/2021
<b>Project:</b>	1933 N. Temple Ave.	<b>Date Received:</b>	8/4/2021
<b>Project Address:</b>	1933 N. Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	8/10-11/2021
		<b>Physical State:</b>	Soil

**BATCH:** I21080902      **Prepared:** 8/9/2021      **Analyzed:** 8/11/2021

**EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES**

Analytes:	Result	Spike Level	% REC	% REC Limits	% RPD	Reporting Limit	Units
<b>METHOD BLANK:</b>	<b>I210809-MB2</b>						
Silver, Ag	ND					0.5	mg/kg
Arsenic, As	ND					5.0	mg/kg
Barium, Ba	ND					0.5	mg/kg
Beryllium, Be	ND					0.5	mg/kg
Cadmium, Cd	ND					0.5	mg/kg
Cobalt, Co	ND					0.5	mg/kg
Chromium, Cr	ND					0.5	mg/kg
Copper, Cu	ND					0.5	mg/kg
Molybdenum, Mo	ND					0.5	mg/kg
Nickel, Ni	ND					0.5	mg/kg
Lead, Pb	ND					0.5	mg/kg
Antimony, Sb	ND					5.0	mg/kg
Selenium, Se	ND					5.0	mg/kg
Thallium, Tl	ND					5.0	mg/kg
Vanadium, V	ND					0.5	mg/kg
Zinc, Zn	ND					1.0	mg/kg

ND= Not Detected



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/11/2021
<b>Client Address:</b>		<b>Jones Ref. No.:</b>	ST-17934
<b>Attn:</b>	David L. Lucero	<b>Date Sampled:</b>	8/4/2021
<b>Project:</b>	1933 N. Temple Ave.	<b>Date Received:</b>	8/4/2021
<b>Project Address:</b>	1933 N. Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	8/10-11/2021
		<b>Physical State:</b>	Soil

**BATCH:** I21080902      **Prepared:** 8/9/2021      **Analyzed:** 8/11/2021

**EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES**

	Result	Spike Level	% REC	% RPD	% REC Limits	Units
<b>Analyses:</b>						
<b>LCS: I210809-LCS2</b>						
Barium, Ba	216	200	108%		80 - 120	mg/kg
Cobalt, Co	52.9	50.0	106%		80 - 120	mg/kg
Lead, Pb	56.5	50.0	113%		80 - 120	mg/kg
Selenium, Se	210	200	105%		80 - 120	mg/kg
Zinc, Zn	48.3	50.0	97%		80 - 120	mg/kg
<b>LCSD: I210809-LCSD2</b>						
Barium, Ba	220	200	110%	1.8%	80 - 120	mg/kg
Cobalt, Co	54.0	50.0	108%	2.1%	80 - 120	mg/kg
Lead, Pb	55.9	50.0	112%	1.1%	80 - 120	mg/kg
Selenium, Se	207	200	104%	1.4%	80 - 120	mg/kg
Zinc, Zn	49.9	50.0	100%	3.3%	80 - 120	mg/kg
<b>CCV: I210809-CCV2</b>						
Barium, Ba	1.04	1.00	104%		90-110	mg/L
Cobalt, Co	1.05	1.00	105%		90-110	mg/L
Lead, Pb	1.04	1.00	104%		90-110	mg/L
Selenium, Se	1.06	1.00	106%		90-110	mg/L
Zinc, Zn	1.03	1.00	103%		90-110	mg/L

CCV = Continuing Calibration Verification  
LCS = Laboratory Control Sample  
LCSD= Laboratory Control Sample Duplicate

ND= Not Detected  
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/11/2021
<b>Client Address:</b>		<b>Jones Ref. No.:</b>	ST-17934
<b>Attn:</b>	David L. Lucero	<b>Date Sampled:</b>	8/4/2021
<b>Project:</b>	1933 N. Temple Ave.	<b>Date Received:</b>	8/4/2021
<b>Project Address:</b>	1933 N. Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	8/10-11/2021
		<b>Physical State:</b>	Soil

**BATCH:** H21080901      **Prepared:** 8/9/2021      **Analyzed:** 8/10/2021

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Reporting Limit	Units
<b>METHOD BLANK:</b>	<b>H210809-MB1</b>						
Mercury, Hg	ND					0.020	mg/kg
<b>LCS:</b>	<b>H210809-LCS1</b>						
Mercury, Hg	1.04	1.00	104%		80 - 120		mg/kg
<b>LCSD:</b>	<b>H210809-LCSD1</b>						
Mercury, Hg	1.10	1.00	110%	5.6%	80 - 120		mg/kg
<b>CCV:</b>	<b>H210809-CCV1</b>						
Mercury, Hg	5.41	5.00	108%		90-110		µg/L

ND= Not Detected  
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

LCS = Laboratory Control Sample  
LCSD= Laboratory Control Sample Duplicate  
CCV = Continuing Calibration Verification  
RPD = Relative Percent Difference



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 Santa Fe Springs, CA 90670  
 (714) 449-9937  
 reports@jonesenv.com  
 www.jonesenv.com

# Chain-of-Custody Record

### Turn Around Requested:

- Immediate Attention - 200%
- Rush 24 Hours - 100%
- Rush 48 Hours - 50%
- Rush 72 Hours - 25%
- Rush 96 Hours - 10%
- Normal - No Surcharge

LAB USE ONLY

Jones Project #

ST-17934

Page

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Client: DL SCIENCE, INC.  
 Project Name: 1933 N. TEMPLE AVE.  
 Project Address: 1933 N. TEMPLE AVE  
 SIGNAL HILL, CA.  
 Email: dlucero@sbcglobal.net  
 Phone: (818) 731-9644  
 Report To: DL LUCERO / DL LUCERO (Sampler)

Date: 8/4/21  
 Client Project #: -

Sample Container / Preservative Abbreviations

- AS - Acetate Sleeve
- SS - Stainless Steel Sleeve
- BS - Brass Sleeve
- G - Glass
- AB - Amber Bottle
- P - Plastic
- SOBI - Sodium Bisulfate
- MeOH - Methanol
- HCl - Hydrochloric Acid
- HNO3 - Nitric Acid
- O - Other (See Notes)

Analysis Requested

Sample Matrix:	Soil (S)	Sediment (SL)	Aqueous (A)	Free Product (FP)
CC10 (C1-C12, C13-C22)	X			
C13-C14 (EPA METHOD 8015M)				
TITLE 22 METALS (EPA METHOD 6610/7240)				
NONVALENT CHROMIUM (EPA METHOD 7196A)				
VOC/PAH (EPA METHOD 8210)				
SVOC (EPA METHOD 8270C)				

Sample ID	Sample Collection Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Soil (S)	Sediment (SL)	Aqueous (A)	Free Product (FP)	Number of Containers	Notes & Special Instructions
B-1 @ 5'	8/4/21	1100	ST-17934-01		AS/FC	X				4	
B-1 @ 10'		1105	ST-17934-02			X					
B-1 @ 15'		1110	ST-17934-03			X					
B-2 @ 5'		1025	ST-17934-04			X					
B-2 @ 10'		1030	ST-17934-05			X					
B-2 @ 15'		1035	ST-17934-06			X					
B-3 @ 5'		0710	ST-17934-07			X					
B-3 @ 10'		0715	ST-17934-08			X					
B-3 @ 15'		0720	ST-17934-09			X					
B-4 @ 5'		0735	ST-17934-10			X					

Relinquished By (Signature):	Printed Name: DL LUCERO	Date: 8/4/21	Time: 1335 hr.	Received By (Signature):	Printed Name: Kiara	Date: 8/4/21	Time: 1335		
Company: DL SCIENCE, INC.	Relinquished By (Signature):	Printed Name:	Date:	Time:	Received By Laboratory (Signature):	Printed Name: JEL	Date: 8/4/21	Time: 1335	
Company:	Relinquished By (Signature):	Printed Name:	Date:	Time:	Company:	Received By Laboratory (Signature):	Printed Name:	Date:	Time:

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.



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Santa Fe Springs, CA 90670  
(714) 449-9937  
reports@jonesenv.com  
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# Chain-of-Custody Record

### Turn Around Requested:

- Immediate Attention - 200%
- Rush 24 Hours - 100%
- Rush 48 Hours - 50%
- Rush 72 Hours - 25%
- Rush 96 Hours - 10%
- Normal - No Surcharge

LAB USE ONLY

Jones Project #

ST-17934

Page

2 of 4

Client: DL SCIENCE, INC.  
Project Name: 1933 N. TEMPLE AVE.  
Project Address: 1933 N. TEMPLE AVE.  
SIGNAL HILL, CA.  
Email: dlucero@sbcglobal.net  
Phone: (818) 731-9644  
Report To: DL LUCERO / DL ~~Lucero~~ LUCERO

Date: 8/4/21  
Client Project #: -  
Sample Container / Preservative Abbreviations:  
AS - Acetate Sleeve  
SS - Stainless Steel Sleeve  
BS - Brass Sleeve  
G - Glass  
AB - Amber Bottle  
P - Plastic  
SOBI - Sodium Bisulfate  
MeOH - Methanol  
HCl - Hydrochloric Acid  
HNO3 - Nitric Acid  
O - Other (See Notes)

### Analysis Requested

Sample Matrix:	Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	AS	SS	BS	G	AB	P	SOBI	MeOH	HCl	HNO3	O
CE10C10-C13-C14-C15-C16-C17-C18-C19-C20		X	X	X	X	X	X	X	X	X	X	X
C2-C10 (EPA METHOD)		X	X	X	X	X	X	X	X	X	X	X
1110-20-METALS (EPA)		X	X	X	X	X	X	X	X	X	X	X
METALS (EPA)		X	X	X	X	X	X	X	X	X	X	X
HEXAVALENT CHROMIUM (EPA METHOD (196A))		X	X	X	X	X	X	X	X	X	X	X
VEGETABLE OILS (EPA METHOD (8260B))		X	X	X	X	X	X	X	X	X	X	X
SVOC (EPA METHOD (8270C))		X	X	X	X	X	X	X	X	X	X	X

Sample ID	Sample Collection Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	AS	SS	BS	G	AB	P	SOBI	MeOH	HCl	HNO3	O	Number of Containers	Notes & Special Instructions
B-4C10'	8/4/21	0740	ST-17934-11		AS/T-C	S	X	X	X	X	X	X	X	X	X	X	X	4	
B-4C15'		0745	ST-17934-12				X	X	X	X	X	X	X	X	X	X	X		
B-5C5'		0750	ST-17934-13				X	X	X	X	X	X	X	X	X	X	X		
B-5C10'		0755	ST-17934-14				X	X	X	X	X	X	X	X	X	X	X		
B-5C15'		0800	ST-17934-15				X	X	X	X	X	X	X	X	X	X	X		
B-6C5'		1000	ST-17934-16				X	X	X	X	X	X	X	X	X	X	X		
B-6C10'		1005	ST-17934-17				X	X	X	X	X	X	X	X	X	X	X		
B-6C15'		1010	ST-17934-18				X	X	X	X	X	X	X	X	X	X	X		
B-7C5'		0930	ST-17934-19				X	X	X	X	X	X	X	X	X	X	X		
B-7C10'		0935	ST-17934-20				X	X	X	X	X	X	X	X	X	X	X		

Relinquished By (Signature):	Printed Name: DL LUCERO	Date: 8/4/21	Time: 1335	Received By (Signature):	Printed Name: Kiara	Date: 8/4/21	Time: 1335	Total Number of Containers: 40
Company: DL SCIENCE, INC.	Relinquished By (Signature):	Printed Name:	Date:	Time:	Received By Laboratory (Signature):	Printed Name: JEL	Date: 8/4/21	Time: 1335
Company:	Date:	Time:	Company:	Date:	Time:	Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.		



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 www.jonesenv.com

# Chain-of-Custody Record

### Turn Around Requested:

- Immediate Attention - 200%
- Rush 24 Hours - 100%
- Rush 48 Hours - 50%
- Rush 72 Hours - 25%
- Rush 96 Hours - 10%
- Normal - No Surcharge

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Jones Project #

ST-17934

Page

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Client: DL SCIENCE, INC.  
 Project Name: 1933 N. TEMPLE AVE.  
 Project Address: 1933 N. TEMPLE AVE.  
 SIGNAL HILL, CO.  
 Email: dlucero@sbcglobal.net  
 Phone: (818) 731-9644  
 Report To: DLUCERO / Sampler: DLUCERO

Date: 8/4/21  
 Client Project #:  
 Sample Container / Preservative Abbreviations:  
 AS - Acetate Sleeve  
 SS - Stainless Steel Sleeve  
 BS - Brass Sleeve  
 G - Glass  
 AB - Amber Bottle  
 P - Plastic  
 SOBI - Sodium Bisulfate  
 MeOH - Methanol  
 HCl - Hydrochloric Acid  
 HNO3 - Nitric Acid  
 O - Other (See Notes)

### Analysis Requested

Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	Analysis Requested	Number of Containers
CC10 (Cp-C12, C13-C21) C22-C24 (Cp-C24) METHANOL & 15M		
TI1022 METALS (Cp-C10) METHANOL 6010 (Cp-C10)		
HEAVY METALS CHROMIUM (Cp-C10) METHANOL 719 (Cp-C10)		
VOC (Cp-C10) (Cp-C10) 8260E		
SUCC (Cp-C10) (Cp-C10) 8270E		

Sample ID	Sample Collection Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	AS/ T-C	Analysis Requested	Number of Containers	Notes & Special Instructions
B-7e15'	8/4/21	0946	ST-17934-21		AS/T-C	✓	✓	4	
B-8e5'		0855	ST-17934-22			✓	✓		
B-8e10'		0902	ST-17934-23			✓	✓		
B-8e15'		0905	ST-17934-24			✓	✓		
B-9e5'		1135	ST-17934-25			✓	✓		
B-9e10'		1140	ST-17934-26			✓	✓		
B-9e15'		1145	ST-17934-27			✓	✓		
B-9e20'		1150	ST-17934-28			✓	✓		
B-10e5'		0815	ST-17934-29			✓	✓		
B-10e10'		0820	ST-17934-30			✓	✓		

Relinquished By (Signature):	Printed Name: DLUCERO	Received By (Signature):	Printed Name: Kiara	Total Number of Containers: 40
Company: DL SCIENCE, INC.	Date: 8/4/21 Time: 1335	Company: JEL	Date: 8/4/21 Time: 1335	

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.

# Chain-of-Custody Record

**Turn Around Requested:**

- Immediate Attention - 200%
- Rush 24 Hours - 100%
- Rush 48 Hours - 50%
- Rush 72 Hours - 25%
- Rush 96 Hours - 10%
- Normal - No Surcharge

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Jones Project #  
**ST-17934**

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**4** of **4**

**Report Options**

- EDD \_\_\_\_\_
- EDF\* - 10% Surcharge \_\_\_\_\_
- \*Global ID \_\_\_\_\_

Client <b>DL SCIENCE, INC.</b>	Date <b>8/4/21</b>
Project Name <b>1933 N. TEMPLE AVE.</b>	Client Project # <b>-</b>
Project Address <b>1933 N. TEMPLE AVE.</b>	<u>Sample Container / Preservative Abbreviations</u>  AS - Acetate Sleeve SS - Stainless Steel Sleeve BS - Brass Sleeve G - Glass AB - Amber Bottle P - Plastic SOBI - Sodium Bisulfate MeOH - Methanol HCl - Hydrochloric Acid HNO3 - Nitric Acid O - Other (See Notes)
<b>SIGNAL HILL, CA.</b>	
Email <b>dlucero@shglobal.net</b>	
Phone <b>(818) 731-9644</b>	
Report To <b>DL LUCERO /</b>	Sampler <b>DL LUCERO</b>

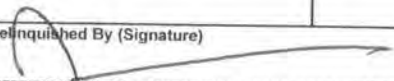

Sample Container / Preservative Abbreviations

- AS - Acetate Sleeve
- SS - Stainless Steel Sleeve
- BS - Brass Sleeve
- G - Glass
- AB - Amber Bottle
- P - Plastic
- SOBI - Sodium Bisulfate
- MeOH - Methanol
- HCl - Hydrochloric Acid
- HNO3 - Nitric Acid
- O - Other (See Notes)

**Analysis Requested**

Sample Matrix:	Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	CC1P (C4-C12) C13-C20	C21-C40 (C40+) EPA	METHOD 8015M	TITLE 22 METALS (EPA METHOD 6010B/3046)	HEXAVALENT CHROMIUM (EPA METHOD 7196A)	VOC/PAH/ESTR/METHO (EPA 8260 B)	SVOC (EPA METHOD 8270C)	Number of Containers
S ↓ ↓	X X X	X X	X X	X X	X X	X X	X X	X X	4 2

Sample ID	Sample Collection Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Sample Matrix:	Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	CC1P (C4-C12) C13-C20	C21-C40 (C40+) EPA	METHOD 8015M	TITLE 22 METALS (EPA METHOD 6010B/3046)	HEXAVALENT CHROMIUM (EPA METHOD 7196A)	VOC/PAH/ESTR/METHO (EPA 8260 B)	SVOC (EPA METHOD 8270C)	Number of Containers	Notes & Special Instructions
B-10 @ 15'	8/4/21	0825	ST-17934-31	<del>AS</del>	AS - T-C	S	X	X	X	X	X	X	X	X	4	
B-10 @ 20'	↓	0830	ST-17934-32		↓	↓	X	X	X	X	X	X	X	X	2	

Relinquished By (Signature) 	Printed Name <b>DL LUCERO</b>	Date <b>8/4/21</b>	Time <b>1335</b>	Received By (Signature) 	Printed Name <b>Kiana</b>	Date <b>8/4/21</b>	Time <b>1335</b>	<b>2</b>	Total Number of Containers
Company <b>DL SCIENCE, INC.</b>	Company	Date	Time	Company	Date	Time			
Relinquished By (Signature) 	Printed Name	Date	Time	Received By Laboratory (Signature) 	Printed Name <b>JEL</b>	Date <b>8/4/21</b>	Time <b>1335</b>		
Company	Company	Date	Time	Company	Date	Time			

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.



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### SAMPLE RECEIPT FORM

Jones ID: ST-17934

CLIENT: DL Science  
PROJECT: 1933 N. Temple Ave

DATE/TIME: 6/4/21 / 1335  
RECEIVED BY: Kara

Delivered by:  Client     Jones Courier     UPS / FedEx / USPS     Other

<b>TEMPERATURE:</b>		Number of coolers received: <u>0</u>	
Temperature Cooler #1	<u>17.5</u> °C ± 0.1°C	Blank	<u>Sample</u>
Temperature Cooler #2	_____ °C ± 0.1°C	Blank	Sample
Temp Criteria: 0 ≤ 6°C (NO frozen containers)		Criteria met?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If criteria is not met:			
Sample(s) received on ice?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No*
Sample(s) received chilled on same day of sampling?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No*
Ambient Temperature: <u>32.1</u> °C		Checked by: <u>KL</u>	

SAMPLE CONDITION:	YES	NO*	N/A
Chain of Custody (COC) received filled out completely	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total number of containers received match COC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and in good condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested on COC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservative indicated on COC/containers for analyses requested	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Volatile analysis container(s) free of headspace (EPA 8260 water)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Custody Seals Intact on Cooler/Sample	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

<b>CONTAINER TYPE:</b>		
<u>Solid:</u>	<u>Aqueous:</u>	<u>Air / Soil Gas:</u>
VOAs: <u>3X32</u>	Amber Bottle: _____	Tedlar Bag: _____
Glass Jar: _____	VOAs: _____	6 hr
Sleeve: <u>32</u>	Poly Bottle: _____	72 hr
Other: _____		5 Day
		Summa:
		(1L) _____ (6L) _____

<b>MILEAGE:</b>	Round Trip Mileage: _____	Travel Time: _____	On Site Time: _____
-----------------	---------------------------	--------------------	---------------------

\*Complete Non-Conformance if checked      Checked by: KL



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:** 532 W. Maple Ave.  
El Segundo, CA 90245

**Report date:** 8/18/2021  
**JEL Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021  
**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA


**Date Analyzed:** 8/17/2021  
**Physical State:** Soil

---

**ANALYSES REQUESTED**

1. STLC Waste Extraction Test by ICP-OES

**Approval:**

  
Annalise O'Toole



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:** 532 W. Maple Ave.  
El Segundo, CA 90245

**Report date:** 8/18/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021  
**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/17/2021  
**Physical State:** Soil

---

**STLC Waste Extraction Test by ICP-OES**

---

**Sample ID:** B-6@5'

**Jones ID:** ST-17934-16

**Reporting Limit**      **Units**

**Analytes:**

**Lead, Pb**                      **0.13**

0.01                      mg/L

**Dilution Factor**                      1

**Batch:** 121081701

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

**Client:** DL Science, Inc.  
**Client Address:** 532 W. Maple Ave.  
El Segundo, CA 90245

**Report date:** 8/18/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021

**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/17/2021

**Physical State:** Soil

**BATCH:** I21081701      **Prepared:** 8/17/2021      **Analyzed:** 8/17/2021

**STLC Waste Extraction Test by ICP-OES**

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Reporting Limit	Units
<b>Method Blank:</b>	<b>I210817-MB1</b>						
Lead, Pb	ND					0.01	mg/L

<b>LCS:</b>	<b>I210817-LCS1</b>						
Lead, Pb	4.95	5.00	99%		80 - 120		mg/L

<b>LCSD:</b>	<b>I210817-LCSD1</b>						
Lead, Pb	4.95	5.00	99%		80 - 120		mg/L

<b>CCV:</b>	<b>I210817-CCV1</b>						
Lead, Pb	1.04	1.00	104%		90-110		mg/L

ND= Not Detected  
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

LCS = Laboratory Control Sample  
LCSD= Laboratory Control Sample Duplicate  
CCV = Continuing Calibration Verification



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/18/2021
<b>Client Address:</b>	532 W. Maple Ave El Segundo, CA	<b>Jones Ref. No.:</b>	ST-17934
<b>Attn:</b>	David L. Lucero	<b>Date Sampled:</b>	8/4/2021
<b>Project:</b>	1933 N. Temple Ave.	<b>Date Received:</b>	8/4/2021
<b>Project Address:</b>	1933 N. Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	8/17/2021
		<b>Physical State:</b>	Soil

---

**STLC Waste Extraction Test by Cold Vapor Atomic Absorption**

---

<b><u>Sample ID:</u></b>	B-10@5'		
<b><u>Jones ID:</u></b>	ST-17934-29	<b><u>Reporting Limit</u></b>	<b><u>Units</u></b>
<b>Analytes:</b>			
Mercury, Hg	40.06	0.10	µg/L
<b><u>Dilution Factor</u></b>	1		
<b><u>Batch:</u></b>	H21081601		

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/18/2021
<b>Client Address:</b>	532 W. Maple Ave El Segundo, CA	<b>Jones Ref. No.:</b>	ST-17934
<b>Attn:</b>	David L. Lucero	<b>Date Sampled:</b>	8/4/2021
<b>Project:</b>	1933 N. Temple Ave.	<b>Date Received:</b>	8/4/2021
<b>Project Address:</b>	1933 N. Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	8/17/2021
		<b>Physical State:</b>	Soil

**BATCH:** H21081601      **Prepared:** 8/16/2021      **Analyzed:** 8/17/2021

**STLC Waste Extraction Test by Cold Vapor Atomic Absorption**

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Reporting Limit	Units
<b>Method Blank:</b>	<b>H210816-MB1</b>						
Lead, Pb	ND					0.01	µg/L

<b>LCS:</b>	<b>H210816-LCS1</b>						
Lead, Pb	5.28	5.00	106%		80 - 120		µg/L

<b>LCSD:</b>	<b>H210816-LCSD1</b>						
Lead, Pb	5.35	5.00	107%	1.3%	80 - 120		µg/L

<b>CCV:</b>	<b>H210816-CCV1</b>						
Lead, Pb	5.06	5.00	101%		90-110		µg/L

ND= Not Detected  
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

LCS = Laboratory Control Sample  
LCSD= Laboratory Control Sample Duplicate  
CCV = Continuing Calibration Verification



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# Chain-of-Custody Record

### Turn Around Requested:

- Immediate Attention - 200%
- Rush 24 Hours - 100%
- Rush 48 Hours - 50%
- Rush 72 Hours - 25%
- Rush 96 Hours - 10%
- Normal - No Surcharge

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Jones Project #

ST-17934

Page

1 of 4

Client: DL SCIENCE, INC.  
Project Name: 1933 N. TEMPLE AVE.  
Project Address: 1933 N. TEMPLE AVE  
SIGNAL HILL, CA.  
Email: dlucero@sbcglobal.net  
Phone: (818) 731-9644  
Report To: DL LUCERO / DL LUCERO (Sampler)

Date: 8/4/21  
Client Project #: -

Sample Container / Preservative Abbreviations

- AS - Acetate Sleeve
- SS - Stainless Steel Sleeve
- BS - Brass Sleeve
- G - Glass
- AB - Amber Bottle
- P - Plastic
- SOBI - Sodium Bisulfate
- MeOH - Methanol
- HCl - Hydrochloric Acid
- HNO3 - Nitric Acid
- O - Other (See Notes)

Analysis Requested

Sample Matrix:	Soil (S)	Sediment (SL)	Aqueous (A)	Free Product (FP)
CC10 (C1-C12, C13-C22)	X			
C13-C14 (EPA METHOD 8015M)				
TITLE 22 METALS (EPA METHOD 6610/7240)				
NONVALENT CHROMIUM (EPA METHOD 7196A)				
VOC/PAH (EPA METHOD 8210)				
SVOC (EPA METHOD 8270C)				

Sample ID	Sample Collection Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Soil (S)	Sediment (SL)	Aqueous (A)	Free Product (FP)	Number of Containers	Notes & Special Instructions
B-1 @ 5'	8/4/21	1100	ST-17934-01		AS/FC	X				4	
B-1 @ 10'		1105	ST-17934-02			X					
B-1 @ 15'		1110	ST-17934-03			X					
B-2 @ 5'		1025	ST-17934-04			X					
B-2 @ 10'		1030	ST-17934-05			X					
B-2 @ 15'		1035	ST-17934-06			X					
B-3 @ 5'		0710	ST-17934-07			X					
B-3 @ 10'		0715	ST-17934-08			X					
B-3 @ 15'		0720	ST-17934-09			X					
B-4 @ 5'		0735	ST-17934-10			X					

Relinquished By (Signature): <i>[Signature]</i>	Printed Name: DL LUCERO	Date: 8/4/21	Time: 1335 hr.	Received By (Signature): <i>[Signature]</i>	Printed Name: Kiara	Date: 8/4/21	Time: 1335	Total Number of Containers: 40
Company: DL SCIENCE, INC.	Relinquished By (Signature):	Printed Name:	Date:	Time:	Received By Laboratory (Signature): <i>[Signature]</i>	Printed Name: JEL	Date:	Time:

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.



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# Chain-of-Custody Record

- Turn Around Requested:**
- Immediate Attention - 200%
  - Rush 24 Hours - 100%
  - Rush 48 Hours - 50%
  - Rush 72 Hours - 25%
  - Rush 96 Hours - 10%
  - Normal - No Surcharge

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Jones Project #  
**ST-17934**

Page  
**2 of 4**

**Client**  
DL SCIENCE, INC.

**Project Name**  
1933 N. TEMPLE AVE.

**Project Address**  
1933 N. TEMPLE AVE.  
SIGNAL HILL, CA.

**Email**  
dllucero@sbcglobal.net

**Phone**  
(818) 731-9644

**Report To**  
DL LUCERO / DL ~~LUCCERO~~ LUCERO

**Date**  
8/4/21

**Client Project #**  
-

**Sample Container / Preservative Abbreviations**

AS - Acetate Sleeve  
 SS - Stainless Steel Sleeve  
 BS - Brass Sleeve  
 G - Glass  
 AB - Amber Bottle  
 P - Plastic  
 SOBI - Sodium Bisulfate  
 MeOH - Methanol  
 HCl - Hydrochloric Acid  
 HNO3 - Nitric Acid  
 O - Other (See Notes)

**Analysis Requested**

Sample Matrix:	Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	Analysis Requested
AS/T-C	✓	✓
SS	✓	✓
BS	✓	✓
G	✓	✓
AB	✓	✓
P	✓	✓
SOBI	✓	✓
MeOH	✓	✓
HCl	✓	✓
HNO3	✓	✓
O	✓	✓

Sample ID	Sample Collection Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Sample Matrix:	Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	Analysis Requested	Number of Containers	Notes & Special Instructions
B-4 C10'	8/4/21	0740	ST-17934-11		AS/T-C	S	✓	✓	4	
B-4 C15'		0745	ST-17934-12				✓	✓		
B-5 C5'		0750	ST-17934-13				✓	✓		
B-5 C10'		0755	ST-17934-14				✓	✓		
B-5 C15'		0800	ST-17934-15				✓	✓		
B-6 C5'		1000	ST-17934-16				✓	✓		
B-6 C10'		1005	ST-17934-17				✓	✓		
B-6 C15'		1010	ST-17934-18				✓	✓		
B-7 C5'		0930	ST-17934-19				✓	✓		
B-7 C10'		0935	ST-17934-20				✓	✓		

Relinquished By (Signature)	Printed Name DL LUCERO	Received By (Signature)	Printed Name Kiara	Total Number of Containers 40
Company DL SCIENCE, INC.	Date 8/4/21	Time 1335	Company	Date 8/4/21
Relinquished By (Signature)	Printed Name	Received By Laboratory (Signature)	Printed Name Kiara	
Company	Date	Time	Company JEL	Date 8/4/21
				Time 1335

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.



11007 Forest Pl.  
 Santa Fe Springs, CA 90670  
 (714) 449-9937  
 reports@jonesenv.com  
 www.jonesenv.com

# Chain-of-Custody Record

## Turn Around Requested:

- Immediate Attention - 200%
- Rush 24 Hours - 100%
- Rush 48 Hours - 50%
- Rush 72 Hours - 25%
- Rush 96 Hours - 10%
- Normal - No Surcharge

LAB USE ONLY

Jones Project #

ST-17934

Page

3 of 4

Client: DL SCIENCE, INC.  
 Project Name: 1933 N. TEMPLE AVE.  
 Project Address: 1933 N. TEMPLE AVE.  
 SIGNAL HILL, CO.  
 Email: dlucero@sbcglobal.net  
 Phone: (818) 731-9644  
 Report To: DLUCERO / Sampler: DLUCERO

Date: 8/4/21  
 Client Project #:  
 Sample Container / Preservative Abbreviations:  
 AS - Acetate Sleeve  
 SS - Stainless Steel Sleeve  
 BS - Brass Sleeve  
 G - Glass  
 AB - Amber Bottle  
 P - Plastic  
 SOBI - Sodium Bisulfate  
 MeOH - Methanol  
 HCl - Hydrochloric Acid  
 HNO3 - Nitric Acid  
 O - Other (See Notes)

## Analysis Requested

Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	Analysis Requested	Number of Containers
CC10 (Cp-C12, C13-C21) C22-C24 (Cp) METHANOL & 15M		
TT022 METALS (Cp) METHANOL 6010 (Cp)		
HEAVY METALS CHROMIUM (Cp) METHANOL (Cp)		
VOC (Cp) (Cp) 8260E		
SUCC (Cp) METHANOL (Cp) 8270E		

Sample ID	Sample Collection Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	AS	T-C	TT022 METALS (Cp)	HEAVY METALS CHROMIUM (Cp)	VOC (Cp)	SUCC (Cp)	Notes & Special Instructions
B-7e15'	8/4/21	0946	ST-17934-21		AS/T-C	X	X	X	X	X	X	4
B-8e5'		0855	ST-17934-22			X	X	X	X	X	X	
B-8e10'		0900	ST-17934-23			X	X	X	X	X	X	
B-8e15'		0905	ST-17934-24			X	X	X	X	X	X	
B-9e5'		1135	ST-17934-25			X	X	X	X	X	X	
B-9e10'		1140	ST-17934-26			X	X	X	X	X	X	
B-9e15'		1145	ST-17934-27			X	X	X	X	X	X	
B-9e20'		1150	ST-17934-28			X	X	X	X	X	X	
B-10e5'		0815	ST-17934-29			X	X	X	X	X	X	
B-10e10'		0820	ST-17934-30			X	X	X	X	X	X	

Relinquished By (Signature):	Printed Name: DLUCERO	Date: 8/4/21	Time: 1335	Received By (Signature):	Printed Name: Kiara	Date: 8/4/21	Time: 1335
Company: DL SCIENCE, INC.	Date: 8/4/21	Time: 1335	Received By Laboratory (Signature):	Printed Name: JEL	Date: 8/4/21	Time: 1335	

Total Number of Containers: 40

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.



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# Chain-of-Custody Record

### Turn Around Requested:

- Immediate Attention - 200%
- Rush 24 Hours - 100%
- Rush 48 Hours - 50%
- Rush 72 Hours - 25%
- Rush 96 Hours - 10%
- Normal - No Surcharge

LAB USE ONLY

Jones Project #

ST-17934

Page

4 of 4

Client DL SCIENCE, INC.

Project Name 1933 N. TEMPLE AVE.

Project Address 1933 N. TEMPLE AVE.

SIGNAL HILL, CA.

Email dlucero@shglobal.net

Phone (818) 731-9644

Report To DL LUCERO / Sampler DL LUCERO

Date 8/4/21

Client Project # -

Sample Container / Preservative Abbreviations

- AS - Acetate Sleeve
- SS - Stainless Steel Sleeve
- BS - Brass Sleeve
- G - Glass
- AB - Amber Bottle
- P - Plastic
- SOBI - Sodium Bisulfate
- MeOH - Methanol
- HCl - Hydrochloric Acid
- HNO3 - Nitric Acid
- O - Other (See Notes)

Analysis Requested

Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	CC1P (C4-C12) C13-C20	C20-C40 (C14-C20) EPA	METHODS 15M	TITLE 22 METH (EPA METHOD 6010B/3020)	HEXANALGENT CARBON (EPA METHOD 719.64)	VOC (EPA METHOD 8260 B)	SVOC (EPA METHOD 8270 C)	Number of Containers
S	X			X	X	X	X	4
↓	X			X	X	X	X	2

Sample ID	Sample Collection Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Sample Matrix	CC1P (C4-C12) C13-C20	C20-C40 (C14-C20) EPA	METHODS 15M	TITLE 22 METH (EPA METHOD 6010B/3020)	HEXANALGENT CARBON (EPA METHOD 719.64)	VOC (EPA METHOD 8260 B)	SVOC (EPA METHOD 8270 C)	Number of Containers	Notes & Special Instructions
B-10 @ 15'	8/4/21	0825	ST-17934-31	AS	AS - T-C	S	X			X	X	X	X	4	
B-10 @ 20'	↓	0830	ST-17934-32		↓	↓	X			X	X	X	X	2	

Relinquished By (Signature)	Printed Name <u>DL LUCERO</u>	Received By (Signature)	Printed Name <u>Kiana</u>	Total Number of Containers <u>2</u>
Company <u>DL SCIENCE, INC.</u>	Date <u>8/4/21</u> Time <u>1335</u>	Company _____	Date _____ Time _____	
Relinquished By (Signature) _____	Printed Name _____	Received By Laboratory (Signature)	Printed Name <u>JEL</u>	
Company _____	Date: _____ Time _____	Company <u>JEL</u>	Date <u>8/4/21</u> Time <u>1335</u>	

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

12 August 2021

Colby Wakeman  
Jones Environmental  
11007 Forest Place  
Santa Fe Springs, CA 90670  
RE: 1933 N. Temple Ave.

Enclosed are the results of analyses for samples received by the laboratory on 08/05/21 14:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'MJ', is positioned above the typed name and title.

Mike Jaroudi  
Project Manager



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

**Reported:**  
 08/12/21 13:52

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-1 @ 5'	T212463-01	Soil	08/04/21 11:00	08/05/21 14:55
B-1 @ 10'	T212463-02	Soil	08/04/21 11:05	08/05/21 14:55
B-1 @ 15'	T212463-03	Soil	08/04/21 11:10	08/05/21 14:55
B-2 @ 5'	T212463-04	Soil	08/04/21 10:25	08/05/21 14:55
B-2 @ 10'	T212463-05	Soil	08/04/21 10:30	08/05/21 14:55
B-2 @ 15'	T212463-06	Soil	08/04/21 10:35	08/05/21 14:55
B-3 @ 5'	T212463-07	Soil	08/04/21 07:10	08/05/21 14:55
B-3 @ 10'	T212463-08	Soil	08/04/21 07:15	08/05/21 14:55
B-3 @ 15'	T212463-09	Soil	08/04/21 07:20	08/05/21 14:55
B-4 @ 5'	T212463-10	Soil	08/04/21 07:35	08/05/21 14:55
B-4 @ 10'	T212463-11	Soil	08/04/21 07:40	08/05/21 14:55
B-4 @ 15'	T212463-12	Soil	08/04/21 07:45	08/05/21 14:55
B-5 @ 5'	T212463-13	Soil	08/04/21 07:50	08/05/21 14:55
B-5 @ 10'	T212463-14	Soil	08/04/21 07:55	08/05/21 14:55
B-5 @ 15'	T212463-15	Soil	08/04/21 08:00	08/05/21 14:55
B-6 @ 5'	T212463-16	Soil	08/04/21 10:00	08/05/21 14:55
B-6 @ 10'	T212463-17	Soil	08/04/21 10:05	08/05/21 14:55
B-6 @ 15'	T212463-18	Soil	08/04/21 10:10	08/05/21 14:55
B-7 @ 5'	T212463-19	Soil	08/04/21 09:30	08/05/21 14:55
B-7 @ 10'	T212463-20	Soil	08/04/21 09:35	08/05/21 14:55
B-7 @ 15'	T212463-21	Soil	08/04/21 09:40	08/05/21 14:55
B-8 @ 5'	T212463-22	Soil	08/04/21 08:55	08/05/21 14:55
B-8 @ 10'	T212463-23	Soil	08/04/21 09:00	08/05/21 14:55
B-8 @ 15'	T212463-24	Soil	08/04/21 09:05	08/05/21 14:55
B-9 @ 5'	T212463-25	Soil	08/04/21 11:35	08/05/21 14:55
B-9 @ 10'	T212463-26	Soil	08/04/21 11:40	08/05/21 14:55
B-9 @ 15'	T212463-27	Soil	08/04/21 11:45	08/05/21 14:55
B-9 @ 20'	T212463-28	Soil	08/04/21 11:50	08/05/21 14:55
B-10 @ 5'	T212463-29	Soil	08/04/21 08:15	08/05/21 14:55

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

**Reported:**  
08/12/21 13:52

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-10 @ 10'	T212463-30	Soil	08/04/21 08:20	08/05/21 14:55
B-10 @ 15'	T212463-31	Soil	08/04/21 08:25	08/05/21 14:55
B-10 @ 20'	T212463-32	Soil	08/04/21 08:30	08/05/21 14:55

Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

**Reported:**  
08/12/21 13:52

**DETECTIONS SUMMARY**

**Sample ID:** B-1 @ 5' **Laboratory ID:** T212463-01

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Hexavalent Chromium	120	1.0	ug/kg	EPA 7199	

**Sample ID:** B-1 @ 10' **Laboratory ID:** T212463-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Hexavalent Chromium	69	1.0	ug/kg	EPA 7199	

**Sample ID:** B-1 @ 15' **Laboratory ID:** T212463-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Hexavalent Chromium	71	1.0	ug/kg	EPA 7199	

**Sample ID:** B-2 @ 5' **Laboratory ID:** T212463-04

No Results Detected

**Sample ID:** B-2 @ 10' **Laboratory ID:** T212463-05

No Results Detected

**Sample ID:** B-2 @ 15' **Laboratory ID:** T212463-06

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Hexavalent Chromium	83	1.0	ug/kg	EPA 7199	



Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

**Reported:**  
08/12/21 13:52

**Sample ID:** B-3 @ 5'

**Laboratory ID:** T212463-07

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Hexavalent Chromium	96	1.0	ug/kg	EPA 7199	

**Sample ID:** B-3 @ 10'

**Laboratory ID:** T212463-08

No Results Detected

**Sample ID:** B-3 @ 15'

**Laboratory ID:** T212463-09

No Results Detected

**Sample ID:** B-4 @ 5'

**Laboratory ID:** T212463-10

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Hexavalent Chromium	90	1.0	ug/kg	EPA 7199	

**Sample ID:** B-4 @ 10'

**Laboratory ID:** T212463-11

No Results Detected

**Sample ID:** B-4 @ 15'

**Laboratory ID:** T212463-12

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Hexavalent Chromium	88	1.0	ug/kg	EPA 7199	

**Sample ID:** B-5 @ 5'

**Laboratory ID:** T212463-13

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Hexavalent Chromium	55	1.0	ug/kg	EPA 7199	



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Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

**Reported:**  
08/12/21 13:52

**Sample ID:** B-5 @ 10'

**Laboratory ID:** T212463-14

No Results Detected

**Sample ID:** B-5 @ 15'

**Laboratory ID:** T212463-15

No Results Detected

**Sample ID:** B-6 @ 5'

**Laboratory ID:** T212463-16

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Hexavalent Chromium	130	1.0	ug/kg	EPA 7199	

**Sample ID:** B-6 @ 10'

**Laboratory ID:** T212463-17

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Hexavalent Chromium	94	1.0	ug/kg	EPA 7199	

**Sample ID:** B-6 @ 15'

**Laboratory ID:** T212463-18

No Results Detected

**Sample ID:** B-7 @ 5'

**Laboratory ID:** T212463-19

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Hexavalent Chromium	81	1.0	ug/kg	EPA 7199	

**Sample ID:** B-7 @ 10'

**Laboratory ID:** T212463-20

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Hexavalent Chromium	90	1.0	ug/kg	EPA 7199	



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Santa Fe Springs CA, 90670

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Project Number: ST-17934  
Project Manager: Colby Wakeman

**Reported:**  
08/12/21 13:52

**Sample ID:** B-7 @ 15'

**Laboratory ID:** T212463-21

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Hexavalent Chromium	100	1.0	ug/kg	EPA 7199	

**Sample ID:** B-8 @ 5'

**Laboratory ID:** T212463-22

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Hexavalent Chromium	76	1.0	ug/kg	EPA 7199	

**Sample ID:** B-8 @ 10'

**Laboratory ID:** T212463-23

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Hexavalent Chromium	93	1.0	ug/kg	EPA 7199	

**Sample ID:** B-8 @ 15'

**Laboratory ID:** T212463-24

No Results Detected

**Sample ID:** B-9 @ 5'

**Laboratory ID:** T212463-25

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Hexavalent Chromium	160	1.0	ug/kg	EPA 7199	

**Sample ID:** B-9 @ 10'

**Laboratory ID:** T212463-26

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Hexavalent Chromium	87	1.0	ug/kg	EPA 7199	

**Sample ID:** B-9 @ 15'

**Laboratory ID:** T212463-27

No Results Detected





25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
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Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

**Reported:**  
 08/12/21 13:52

**Sample ID:** B-9 @ 20'

**Laboratory ID:** T212463-28

No Results Detected

**Sample ID:** B-10 @ 5'

**Laboratory ID:** T212463-29

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Hexavalent Chromium	110	1.0	ug/kg	EPA 7199	

**Sample ID:** B-10 @ 10'

**Laboratory ID:** T212463-30

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Hexavalent Chromium	83	1.0	ug/kg	EPA 7199	

**Sample ID:** B-10 @ 15'

**Laboratory ID:** T212463-31

No Results Detected

**Sample ID:** B-10 @ 20'

**Laboratory ID:** T212463-32

No Results Detected

Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-1 @ 5'**  
**T212463-01(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	320	3300	ug/kg	10	1080542	08/05/21	08/10/21	EPA 8270C	R-07
Aniline	ND	560	3300	"	"	"	"	"	"	R-07
Phenol	ND	500	11000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	470	11000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	480	3300	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	500	3300	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	590	3300	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	480	11000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	510	3300	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	580	3300	"	"	"	"	"	"	R-07
Acenaphthene	ND	190	3300	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	370	11000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	400	3300	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	870	11000	"	"	"	"	"	"	R-07
Pyrene	ND	320	3300	"	"	"	"	"	"	R-07
Acenaphthylene	ND	520	3300	"	"	"	"	"	"	R-07
Anthracene	ND	330	3300	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	260	3300	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	430	3300	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	570	3300	"	"	"	"	"	"	R-07
Benzo (g,h,i) perylene	ND	490	11000	"	"	"	"	"	"	R-07
Benzo (a) pyrene	ND	420	3300	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	580	3300	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	500	3300	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	500	3300	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	410	3300	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	870	3300	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	430	3300	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	890	3300	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	490	3300	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	430	3300	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	510	3300	"	"	"	"	"	"	R-07
Chrysene	ND	290	3300	"	"	"	"	"	"	R-07

SunStar Laboratories, Inc.

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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-1 @ 5'**  
**T212463-01(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	450	3300	ug/kg	10	1080542	08/05/21	08/10/21	EPA 8270C	R-07
Dibenzofuran	ND	560	3300	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	980	3300	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	450	3300	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	410	3300	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	480	11000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	390	3300	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	490	11000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	550	3300	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	540	11000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	2900	11000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	460	11000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	1100	3300	"	"	"	"	"	"	R-07
Fluoranthene	ND	250	3300	"	"	"	"	"	"	R-07
Fluorene	ND	430	3300	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	610	17000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	510	3300	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	450	11000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	360	3300	"	"	"	"	"	"	R-07
Indeno (1,2,3-cd) pyrene	ND	470	3300	"	"	"	"	"	"	R-07
Isophorone	ND	450	3300	"	"	"	"	"	"	R-07
2-Methylphenol	ND	900	11000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	460	11000	"	"	"	"	"	"	R-07
Naphthalene	ND	480	3300	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	430	3300	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	360	3300	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	430	3300	"	"	"	"	"	"	R-07
Nitrobenzene	ND	510	11000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	480	11000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	420	3300	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	460	3300	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	470	3300	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	510	3300	"	"	"	"	"	"	R-07

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-1 @ 5'**  
**T212463-01(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	420	3300	ug/kg	10	1080542	08/05/21	08/10/21	EPA 8270C	R-07
Azobenzene	ND	570	3300	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	410	11000	"	"	"	"	"	"	R-07
Pyridine	ND	1200	3300	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	410	11000	"	"	"	"	"	"	R-07
<i>Surrogate: 2-Fluorophenol</i>			58.7 %	15-121		"	"	"	"	R-07
<i>Surrogate: Phenol-d6</i>			66.4 %	24-113		"	"	"	"	R-07
<i>Surrogate: Nitrobenzene-d5</i>			61.8 %	21.3-119		"	"	"	"	R-07
<i>Surrogate: 2-Fluorobiphenyl</i>			65.0 %	32.4-102		"	"	"	"	R-07
<i>Surrogate: 2,4,6-Tribromophenol</i>			62.6 %	18.1-105		"	"	"	"	R-07
<i>Surrogate: Terphenyl-d14</i>			63.8 %	29.1-130		"	"	"	"	R-07

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	120	0.053	1.0	ug/kg	1	1080543	08/05/21	08/06/21	EPA 7199	
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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-1 @ 10'**  
**T212463-02(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbazole	ND	29	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

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Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-1 @ 10'**  
**T212463-02(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-1 @ 10'**  
**T212463-02(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			65.8 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			69.7 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			67.7 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			72.7 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			84.1 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			73.4 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	69	0.053	1.0	ug/kg	1	1080543	08/05/21	08/06/21	EPA 7199	
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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
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 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-1 @ 15'**  
**T212463-03(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	29	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

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 949.297.5027 Fax

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 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-1 @ 15'**  
**T212463-03(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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 949.297.5027 Fax

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Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-1 @ 15'**  
**T212463-03(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			66.1 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			69.9 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			67.7 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			71.9 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			79.3 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			78.1 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	71	0.053	1.0	ug/kg	1	1080543	08/05/21	08/06/21	EPA 7199	
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Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-2 @ 5'**  
**T212463-04(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbazole	ND	29	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-2 @ 5'**  
**T212463-04(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental 11007 Forest Place Santa Fe Springs CA, 90670	Project: 1933 N. Temple Ave. Project Number: ST-17934 Project Manager: Colby Wakeman	Reported: 08/12/21 13:52
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**B-2 @ 5'**  
**T212463-04(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			61.8 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			65.2 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			64.4 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			70.4 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			78.8 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			73.5 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	ND	0.053	1.0	ug/kg	1	1080543	08/05/21	08/06/21	EPA 7199	
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 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-2 @ 10'**  
**T212463-05(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	29	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-2 @ 10'**  
**T212463-05(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-2 @ 10'**  
**T212463-05(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			70.6 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			74.3 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			72.8 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			77.0 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			83.8 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			77.8 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	ND	0.053	1.0	ug/kg	1	1080543	08/05/21	08/06/21	EPA 7199	
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Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-2 @ 15'**  
**T212463-06(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	29	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

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Jones Environmental  
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Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-2 @ 15'**  
**T212463-06(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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 949.297.5027 Fax

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Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-2 @ 15'**  
**T212463-06(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			64.6 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			69.5 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			66.8 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			72.3 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			79.3 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			77.2 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	83	0.053	1.0	ug/kg	1	1080543	08/05/21	08/06/21	EPA 7199	
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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-3 @ 5'**  
**T212463-07(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	29	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

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Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-3 @ 5'**  
**T212463-07(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-3 @ 5'**  
**T212463-07(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			64.1 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			68.7 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			68.5 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			73.8 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			84.3 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			77.4 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	96	0.053	1.0	ug/kg	1	1080543	08/05/21	08/06/21	EPA 7199	
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 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
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 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-3 @ 10'**  
**T212463-08(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	29	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-3 @ 10'**  
**T212463-08(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-3 @ 10'**  
**T212463-08(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			67.4 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			70.4 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			68.2 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			74.6 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			84.9 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			74.3 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	ND	0.053	1.0	ug/kg	1	1080543	08/05/21	08/06/21	EPA 7199	
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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental 11007 Forest Place Santa Fe Springs CA, 90670	Project: 1933 N. Temple Ave. Project Number: ST-17934 Project Manager: Colby Wakeman	Reported: 08/12/21 13:52
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**B-3 @ 15'**  
**T212463-09(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	29	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

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Jones Environmental  
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Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-3 @ 15'**  
**T212463-09(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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Jones Environmental 11007 Forest Place Santa Fe Springs CA, 90670	Project: 1933 N. Temple Ave. Project Number: ST-17934 Project Manager: Colby Wakeman	Reported: 08/12/21 13:52
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**B-3 @ 15'**  
**T212463-09(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			63.9 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			70.7 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			71.0 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			80.7 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			91.9 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			79.1 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	ND	0.053	1.0	ug/kg	1	1080543	08/05/21	08/06/21	EPA 7199	
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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-4 @ 5'**  
**T212463-10(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	29	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

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Jones Environmental  
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Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-4 @ 5'**  
**T212463-10(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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 949.297.5027 Fax

Jones Environmental 11007 Forest Place Santa Fe Springs CA, 90670	Project: 1933 N. Temple Ave. Project Number: ST-17934 Project Manager: Colby Wakeman	Reported: 08/12/21 13:52
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**B-4 @ 5'**  
**T212463-10(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			72.5 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			74.8 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			72.8 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			78.5 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			86.8 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			72.9 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	90	0.053	1.0	ug/kg	1	1080543	08/05/21	08/06/21	EPA 7199	
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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-4 @ 10'**  
**T212463-11(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbazole	ND	29	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

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Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-4 @ 10'**  
**T212463-11(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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 949.297.5027 Fax

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 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-4 @ 10'**  
**T212463-11(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol			65.9 %	15-121		"	"	"	"	
Surrogate: Phenol-d6			72.1 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5			70.4 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl			77.1 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol			87.6 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14			81.9 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	ND	0.053	1.0	ug/kg	1	1080543	08/05/21	08/06/21	EPA 7199	
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**B-4 @ 15'**  
**T212463-12(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbazole	ND	29	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-4 @ 15'**  
**T212463-12(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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Jones Environmental 11007 Forest Place Santa Fe Springs CA, 90670	Project: 1933 N. Temple Ave. Project Number: ST-17934 Project Manager: Colby Wakeman	Reported: 08/12/21 13:52
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**B-4 @ 15'**  
**T212463-12(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			71.0 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			75.1 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			72.8 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			76.4 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			86.7 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			81.9 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	88	0.053	1.0	ug/kg	1	1080543	08/05/21	08/06/21	EPA 7199	
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Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-5 @ 5'**  
**T212463-13(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	29	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-5 @ 5'**  
**T212463-13(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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Jones Environmental 11007 Forest Place Santa Fe Springs CA, 90670	Project: 1933 N. Temple Ave. Project Number: ST-17934 Project Manager: Colby Wakeman	Reported: 08/12/21 13:52
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**B-5 @ 5'**  
**T212463-13(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080542	08/05/21	08/10/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			65.2 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			70.5 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			70.4 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			78.2 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			87.9 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			79.0 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	55	0.053	1.0	ug/kg	1	1080543	08/05/21	08/06/21	EPA 7199	
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Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-5 @ 10'**  
**T212463-14(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	29	300	ug/kg	1	1080542	08/05/21	08/11/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

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Jones Environmental 11007 Forest Place Santa Fe Springs CA, 90670	Project: 1933 N. Temple Ave. Project Number: ST-17934 Project Manager: Colby Wakeman	Reported: 08/12/21 13:52
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**B-5 @ 10'**  
**T212463-14(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080542	08/05/21	08/11/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-5 @ 10'**  
**T212463-14(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080542	08/05/21	08/11/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol			69.1 %	15-121		"	"	"	"	
Surrogate: Phenol-d6			73.8 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5			73.4 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl			77.6 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol			86.1 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14			78.7 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	ND	0.053	1.0	ug/kg	1	1080543	08/05/21	08/06/21	EPA 7199	
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SunStar Laboratories, Inc.

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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-5 @ 15'**  
**T212463-15(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	29	300	ug/kg	1	1080542	08/05/21	08/11/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-5 @ 15'**  
**T212463-15(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080542	08/05/21	08/11/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-5 @ 15'**  
**T212463-15(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080542	08/05/21	08/11/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			63.7 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			66.9 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			67.1 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			72.8 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			80.3 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			73.3 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	ND	0.053	1.0	ug/kg	1	1080543	08/05/21	08/06/21	EPA 7199	
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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-6 @ 5'**  
**T212463-16(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	290	3000	ug/kg	10	1080542	08/05/21	08/11/21	EPA 8270C	R-07
Aniline	ND	500	3000	"	"	"	"	"	"	R-07
Phenol	ND	450	10000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	420	10000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	430	3000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	450	3000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	530	3000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	430	10000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	460	3000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	520	3000	"	"	"	"	"	"	R-07
Acenaphthene	ND	170	3000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	330	10000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	360	3000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	780	10000	"	"	"	"	"	"	R-07
Pyrene	ND	290	3000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	470	3000	"	"	"	"	"	"	R-07
Anthracene	ND	300	3000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	230	3000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	390	3000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	510	3000	"	"	"	"	"	"	R-07
Benzo (g,h,i) perylene	ND	440	10000	"	"	"	"	"	"	R-07
Benzo (a) pyrene	ND	380	3000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	520	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	450	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	450	3000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	370	3000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	780	3000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	390	3000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	800	3000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	440	3000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	390	3000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	460	3000	"	"	"	"	"	"	R-07
Chrysene	ND	260	3000	"	"	"	"	"	"	R-07

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Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-6 @ 5'**  
**T212463-16(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	400	3000	ug/kg	10	1080542	08/05/21	08/11/21	EPA 8270C	R-07
Dibenzofuran	ND	500	3000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	880	3000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	400	3000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	370	3000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	430	10000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	350	3000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	440	10000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	490	3000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	480	10000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	2600	10000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	410	10000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	1000	3000	"	"	"	"	"	"	R-07
Fluoranthene	ND	220	3000	"	"	"	"	"	"	R-07
Fluorene	ND	390	3000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	550	15000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	460	3000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	400	10000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	320	3000	"	"	"	"	"	"	R-07
Indeno (1,2,3-cd) pyrene	ND	420	3000	"	"	"	"	"	"	R-07
Isophorone	ND	400	3000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	810	10000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	410	10000	"	"	"	"	"	"	R-07
Naphthalene	ND	430	3000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	390	3000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	320	3000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	390	3000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	460	10000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	430	10000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	380	3000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	410	3000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	420	3000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	460	3000	"	"	"	"	"	"	R-07

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Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-6 @ 5'**  
**T212463-16(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	380	3000	ug/kg	10	1080542	08/05/21	08/11/21	EPA 8270C	R-07
Azobenzene	ND	510	3000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	370	10000	"	"	"	"	"	"	R-07
Pyridine	ND	1100	3000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	370	10000	"	"	"	"	"	"	R-07
<i>Surrogate: 2-Fluorophenol</i>			66.7 %	15-121		"	"	"	"	R-07
<i>Surrogate: Phenol-d6</i>			69.8 %	24-113		"	"	"	"	R-07
<i>Surrogate: Nitrobenzene-d5</i>			66.1 %	21.3-119		"	"	"	"	R-07
<i>Surrogate: 2-Fluorobiphenyl</i>			70.3 %	32.4-102		"	"	"	"	R-07
<i>Surrogate: 2,4,6-Tribromophenol</i>			65.5 %	18.1-105		"	"	"	"	R-07
<i>Surrogate: Terphenyl-d14</i>			64.4 %	29.1-130		"	"	"	"	R-07

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	130	0.053	1.0	ug/kg	1	1080543	08/05/21	08/06/21	EPA 7199	
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Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-6 @ 10'**  
**T212463-17(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbazole	ND	29	300	ug/kg	1	1080542	08/05/21	08/11/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-6 @ 10'**  
**T212463-17(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080542	08/05/21	08/11/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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 Lake Forest, California 92630  
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 949.297.5027 Fax

Jones Environmental 11007 Forest Place Santa Fe Springs CA, 90670	Project: 1933 N. Temple Ave. Project Number: ST-17934 Project Manager: Colby Wakeman	Reported: 08/12/21 13:52
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**B-6 @ 10'**  
**T212463-17(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080542	08/05/21	08/11/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			68.3 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			76.2 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			69.9 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			76.3 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			89.3 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			80.5 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	94	0.053	1.0	ug/kg	1	1080543	08/05/21	08/06/21	EPA 7199	
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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-6 @ 15'**  
**T212463-18(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbazole	ND	29	300	ug/kg	1	1080542	08/05/21	08/11/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-6 @ 15'**  
**T212463-18(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080542	08/05/21	08/11/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-6 @ 15'**  
**T212463-18(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080542	08/05/21	08/11/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			66.8 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			70.5 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			67.6 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			72.6 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			84.9 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			73.7 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	ND	0.053	1.0	ug/kg	1	1080543	08/05/21	08/06/21	EPA 7199	
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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-7 @ 5'**  
**T212463-19(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	290	3000	ug/kg	10	1080542	08/05/21	08/11/21	EPA 8270C	R-07
Aniline	ND	500	3000	"	"	"	"	"	"	R-07
Phenol	ND	450	10000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	420	10000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	430	3000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	450	3000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	530	3000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	430	10000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	460	3000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	520	3000	"	"	"	"	"	"	R-07
Acenaphthene	ND	170	3000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	330	10000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	360	3000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	780	10000	"	"	"	"	"	"	R-07
Pyrene	ND	290	3000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	470	3000	"	"	"	"	"	"	R-07
Anthracene	ND	300	3000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	230	3000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	390	3000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	510	3000	"	"	"	"	"	"	R-07
Benzo (g,h,i) perylene	ND	440	10000	"	"	"	"	"	"	R-07
Benzo (a) pyrene	ND	380	3000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	520	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	450	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	450	3000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	370	3000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	780	3000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	390	3000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	800	3000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	440	3000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	390	3000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	460	3000	"	"	"	"	"	"	R-07
Chrysene	ND	260	3000	"	"	"	"	"	"	R-07

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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-7 @ 5'**  
**T212463-19(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	400	3000	ug/kg	10	1080542	08/05/21	08/11/21	EPA 8270C	R-07
Dibenzofuran	ND	500	3000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	880	3000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	400	3000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	370	3000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	430	10000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	350	3000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	440	10000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	490	3000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	480	10000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	2600	10000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	410	10000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	1000	3000	"	"	"	"	"	"	R-07
Fluoranthene	ND	220	3000	"	"	"	"	"	"	R-07
Fluorene	ND	390	3000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	550	15000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	460	3000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	400	10000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	320	3000	"	"	"	"	"	"	R-07
Indeno (1,2,3-cd) pyrene	ND	420	3000	"	"	"	"	"	"	R-07
Isophorone	ND	400	3000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	810	10000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	410	10000	"	"	"	"	"	"	R-07
Naphthalene	ND	430	3000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	390	3000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	320	3000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	390	3000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	460	10000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	430	10000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	380	3000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	410	3000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	420	3000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	460	3000	"	"	"	"	"	"	R-07

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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental 11007 Forest Place Santa Fe Springs CA, 90670	Project: 1933 N. Temple Ave. Project Number: ST-17934 Project Manager: Colby Wakeman	Reported: 08/12/21 13:52
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**B-7 @ 5'**  
**T212463-19(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	380	3000	ug/kg	10	1080542	08/05/21	08/11/21	EPA 8270C	R-07
Azobenzene	ND	510	3000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	370	10000	"	"	"	"	"	"	R-07
Pyridine	ND	1100	3000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	370	10000	"	"	"	"	"	"	R-07
<i>Surrogate: 2-Fluorophenol</i>			67.0 %	15-121		"	"	"	"	R-07
<i>Surrogate: Phenol-d6</i>			69.4 %	24-113		"	"	"	"	R-07
<i>Surrogate: Nitrobenzene-d5</i>			65.8 %	21.3-119		"	"	"	"	R-07
<i>Surrogate: 2-Fluorobiphenyl</i>			68.3 %	32.4-102		"	"	"	"	R-07
<i>Surrogate: 2,4,6-Tribromophenol</i>			65.6 %	18.1-105		"	"	"	"	R-07
<i>Surrogate: Terphenyl-d14</i>			63.6 %	29.1-130		"	"	"	"	R-07

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	81	0.053	1.0	ug/kg	1	1080543	08/05/21	08/06/21	EPA 7199	
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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-7 @ 10'**  
**T212463-20(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	29	300	ug/kg	1	1080542	08/05/21	08/11/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Jones Environmental  
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Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-7 @ 10'**  
**T212463-20(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080542	08/05/21	08/11/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-7 @ 10'**  
**T212463-20(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080542	08/05/21	08/11/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			67.0 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			72.6 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			68.0 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			76.1 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			86.2 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			76.4 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	90	0.053	1.0	ug/kg	1	1080543	08/05/21	08/06/21	EPA 7199	
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 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
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Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-7 @ 15'**  
**T212463-21(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	29	300	ug/kg	1	1080603	08/06/21	08/09/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

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11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-7 @ 15'**  
**T212463-21(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080603	08/06/21	08/09/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-7 @ 15'**  
**T212463-21(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080603	08/06/21	08/09/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			62.8 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			65.5 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			63.9 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			69.9 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			84.9 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			83.3 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	100	0.053	1.0	ug/kg	1	1080602	08/06/21	08/07/21	EPA 7199	
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Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-8 @ 5'**  
**T212463-22(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	290	3000	ug/kg	10	1080603	08/06/21	08/09/21	EPA 8270C	R-07
Aniline	ND	500	3000	"	"	"	"	"	"	R-07
Phenol	ND	450	10000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	420	10000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	430	3000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	450	3000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	530	3000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	430	10000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	460	3000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	520	3000	"	"	"	"	"	"	R-07
Acenaphthene	ND	170	3000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	330	10000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	360	3000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	780	10000	"	"	"	"	"	"	R-07
Pyrene	ND	290	3000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	470	3000	"	"	"	"	"	"	R-07
Anthracene	ND	300	3000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	230	3000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	390	3000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	510	3000	"	"	"	"	"	"	R-07
Benzo (g,h,i) perylene	ND	440	10000	"	"	"	"	"	"	R-07
Benzo (a) pyrene	ND	380	3000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	520	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	450	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	450	3000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	370	3000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	780	3000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	390	3000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	800	3000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	440	3000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	390	3000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	460	3000	"	"	"	"	"	"	R-07
Chrysene	ND	260	3000	"	"	"	"	"	"	R-07

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Project Manager: Colby Wakeman

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**B-8 @ 5'**  
**T212463-22(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	400	3000	ug/kg	10	1080603	08/06/21	08/09/21	EPA 8270C	R-07
Dibenzofuran	ND	500	3000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	880	3000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	400	3000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	370	3000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	430	10000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	350	3000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	440	10000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	490	3000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	480	10000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	2600	10000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	410	10000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	1000	3000	"	"	"	"	"	"	R-07
Fluoranthene	ND	220	3000	"	"	"	"	"	"	R-07
Fluorene	ND	390	3000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	550	15000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	460	3000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	400	10000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	320	3000	"	"	"	"	"	"	R-07
Indeno (1,2,3-cd) pyrene	ND	420	3000	"	"	"	"	"	"	R-07
Isophorone	ND	400	3000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	810	10000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	410	10000	"	"	"	"	"	"	R-07
Naphthalene	ND	430	3000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	390	3000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	320	3000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	390	3000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	460	10000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	430	10000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	380	3000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	410	3000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	420	3000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	460	3000	"	"	"	"	"	"	R-07

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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-8 @ 5'**  
**T212463-22(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	380	3000	ug/kg	10	1080603	08/06/21	08/09/21	EPA 8270C	R-07
Azobenzene	ND	510	3000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	370	10000	"	"	"	"	"	"	R-07
Pyridine	ND	1100	3000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	370	10000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol			53.2 %	15-121		"	"	"	"	R-07
Surrogate: Phenol-d6			54.1 %	24-113		"	"	"	"	R-07
Surrogate: Nitrobenzene-d5			53.6 %	21.3-119		"	"	"	"	R-07
Surrogate: 2-Fluorobiphenyl			55.5 %	32.4-102		"	"	"	"	R-07
Surrogate: 2,4,6-Tribromophenol			53.1 %	18.1-105		"	"	"	"	R-07
Surrogate: Terphenyl-d14			53.5 %	29.1-130		"	"	"	"	R-07

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	76	0.053	1.0	ug/kg	1	1080602	08/06/21	08/07/21	EPA 7199	
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Jones Environmental  
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 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-8 @ 10'**  
**T212463-23(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	290	3000	ug/kg	10	1080603	08/06/21	08/09/21	EPA 8270C	R-07
Aniline	ND	500	3000	"	"	"	"	"	"	R-07
Phenol	ND	450	10000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	420	10000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	430	3000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	450	3000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	530	3000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	430	10000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	460	3000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	520	3000	"	"	"	"	"	"	R-07
Acenaphthene	ND	170	3000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	330	10000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	360	3000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	780	10000	"	"	"	"	"	"	R-07
Pyrene	ND	290	3000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	470	3000	"	"	"	"	"	"	R-07
Anthracene	ND	300	3000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	230	3000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	390	3000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	510	3000	"	"	"	"	"	"	R-07
Benzo (g,h,i) perylene	ND	440	10000	"	"	"	"	"	"	R-07
Benzo (a) pyrene	ND	380	3000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	520	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	450	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	450	3000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	370	3000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	780	3000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	390	3000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	800	3000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	440	3000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	390	3000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	460	3000	"	"	"	"	"	"	R-07
Chrysene	ND	260	3000	"	"	"	"	"	"	R-07

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Jones Environmental  
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Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-8 @ 10'**  
**T212463-23(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	400	3000	ug/kg	10	1080603	08/06/21	08/09/21	EPA 8270C	R-07
Dibenzofuran	ND	500	3000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	880	3000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	400	3000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	370	3000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	430	10000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	350	3000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	440	10000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	490	3000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	480	10000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	2600	10000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	410	10000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	1000	3000	"	"	"	"	"	"	R-07
Fluoranthene	ND	220	3000	"	"	"	"	"	"	R-07
Fluorene	ND	390	3000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	550	15000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	460	3000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	400	10000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	320	3000	"	"	"	"	"	"	R-07
Indeno (1,2,3-cd) pyrene	ND	420	3000	"	"	"	"	"	"	R-07
Isophorone	ND	400	3000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	810	10000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	410	10000	"	"	"	"	"	"	R-07
Naphthalene	ND	430	3000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	390	3000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	320	3000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	390	3000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	460	10000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	430	10000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	380	3000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	410	3000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	420	3000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	460	3000	"	"	"	"	"	"	R-07

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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental 11007 Forest Place Santa Fe Springs CA, 90670	Project: 1933 N. Temple Ave. Project Number: ST-17934 Project Manager: Colby Wakeman	Reported: 08/12/21 13:52
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**B-8 @ 10'**  
**T212463-23(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	380	3000	ug/kg	10	1080603	08/06/21	08/09/21	EPA 8270C	R-07
Azobenzene	ND	510	3000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	370	10000	"	"	"	"	"	"	R-07
Pyridine	ND	1100	3000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	370	10000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol			76.9 %	15-121		"	"	"	"	R-07
Surrogate: Phenol-d6			82.8 %	24-113		"	"	"	"	R-07
Surrogate: Nitrobenzene-d5			76.1 %	21.3-119		"	"	"	"	R-07
Surrogate: 2-Fluorobiphenyl			82.5 %	32.4-102		"	"	"	"	R-07
Surrogate: 2,4,6-Tribromophenol			82.8 %	18.1-105		"	"	"	"	R-07
Surrogate: Terphenyl-d14			76.7 %	29.1-130		"	"	"	"	R-07

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	93	0.053	1.0	ug/kg	1	1080602	08/06/21	08/07/21	EPA 7199	
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 Lake Forest, California 92630  
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 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-8 @ 15'**  
**T212463-24(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	29	300	ug/kg	1	1080603	08/06/21	08/09/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Jones Environmental  
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Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-8 @ 15'**  
**T212463-24(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080603	08/06/21	08/09/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

**Reported:**  
08/12/21 13:52

**B-8 @ 15'**  
**T212463-24(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080603	08/06/21	08/09/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			65.0 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			67.9 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			66.5 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			71.6 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			84.2 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			76.2 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	ND	0.053	1.0	ug/kg	1	1080602	08/06/21	08/07/21	EPA 7199	
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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

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 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-9 @ 5'**  
**T212463-25(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	290	3000	ug/kg	10	1080603	08/06/21	08/09/21	EPA 8270C	R-07
Aniline	ND	500	3000	"	"	"	"	"	"	R-07
Phenol	ND	450	10000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	420	10000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	430	3000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	450	3000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	530	3000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	430	10000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	460	3000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	520	3000	"	"	"	"	"	"	R-07
Acenaphthene	ND	170	3000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	330	10000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	360	3000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	780	10000	"	"	"	"	"	"	R-07
Pyrene	ND	290	3000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	470	3000	"	"	"	"	"	"	R-07
Anthracene	ND	300	3000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	230	3000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	390	3000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	510	3000	"	"	"	"	"	"	R-07
Benzo (g,h,i) perylene	ND	440	10000	"	"	"	"	"	"	R-07
Benzo (a) pyrene	ND	380	3000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	520	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	450	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	450	3000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	370	3000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	780	3000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	390	3000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	800	3000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	440	3000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	390	3000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	460	3000	"	"	"	"	"	"	R-07
Chrysene	ND	260	3000	"	"	"	"	"	"	R-07

SunStar Laboratories, Inc.

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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-9 @ 5'**  
**T212463-25(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	400	3000	ug/kg	10	1080603	08/06/21	08/09/21	EPA 8270C	R-07
Dibenzofuran	ND	500	3000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	880	3000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	400	3000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	370	3000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	430	10000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	350	3000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	440	10000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	490	3000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	480	10000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	2600	10000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	410	10000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	1000	3000	"	"	"	"	"	"	R-07
Fluoranthene	ND	220	3000	"	"	"	"	"	"	R-07
Fluorene	ND	390	3000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	550	15000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	460	3000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	400	10000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	320	3000	"	"	"	"	"	"	R-07
Indeno (1,2,3-cd) pyrene	ND	420	3000	"	"	"	"	"	"	R-07
Isophorone	ND	400	3000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	810	10000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	410	10000	"	"	"	"	"	"	R-07
Naphthalene	ND	430	3000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	390	3000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	320	3000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	390	3000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	460	10000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	430	10000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	380	3000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	410	3000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	420	3000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	460	3000	"	"	"	"	"	"	R-07

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-9 @ 5'**  
**T212463-25(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	380	3000	ug/kg	10	1080603	08/06/21	08/09/21	EPA 8270C	R-07
Azobenzene	ND	510	3000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	370	10000	"	"	"	"	"	"	R-07
Pyridine	ND	1100	3000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	370	10000	"	"	"	"	"	"	R-07
<i>Surrogate: 2-Fluorophenol</i>			76.0 %	15-121		"	"	"	"	R-07
<i>Surrogate: Phenol-d6</i>			81.1 %	24-113		"	"	"	"	R-07
<i>Surrogate: Nitrobenzene-d5</i>			73.9 %	21.3-119		"	"	"	"	R-07
<i>Surrogate: 2-Fluorobiphenyl</i>			82.2 %	32.4-102		"	"	"	"	R-07
<i>Surrogate: 2,4,6-Tribromophenol</i>			86.9 %	18.1-105		"	"	"	"	R-07
<i>Surrogate: Terphenyl-d14</i>			78.7 %	29.1-130		"	"	"	"	R-07

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	160	0.053	1.0	ug/kg	1	1080602	08/06/21	08/07/21	EPA 7199	
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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-9 @ 10'**  
**T212463-26(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbazole	ND	29	300	ug/kg	1	1080603	08/06/21	08/09/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

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Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-9 @ 10'**  
**T212463-26(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080603	08/06/21	08/09/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
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Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-9 @ 10'**  
**T212463-26(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080603	08/06/21	08/09/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			63.3 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			67.1 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			66.6 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			72.0 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			85.1 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			77.2 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	87	0.053	1.0	ug/kg	1	1080602	08/06/21	08/07/21	EPA 7199	
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 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-9 @ 15'**  
**T212463-27(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	29	300	ug/kg	1	1080603	08/06/21	08/09/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-9 @ 15'**  
**T212463-27(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080603	08/06/21	08/09/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-9 @ 15'**  
**T212463-27(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080603	08/06/21	08/09/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			61.9 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			65.0 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			62.2 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			67.7 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			79.4 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			72.3 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	ND	0.053	1.0	ug/kg	1	1080602	08/06/21	08/07/21	EPA 7199	
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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-9 @ 20'**  
**T212463-28(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbazole	ND	32	330	ug/kg	1	1080603	08/06/21	08/09/21	EPA 8270C	
Aniline	ND	56	330	"	"	"	"	"	"	
Phenol	ND	50	1100	"	"	"	"	"	"	
2-Chlorophenol	ND	47	1100	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	48	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	50	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	59	330	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	48	1100	"	"	"	"	"	"	
1-Methylnaphthalene	ND	51	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	58	330	"	"	"	"	"	"	
Acenaphthene	ND	19	330	"	"	"	"	"	"	
4-Nitrophenol	ND	37	1100	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	40	330	"	"	"	"	"	"	
Pentachlorophenol	ND	87	1100	"	"	"	"	"	"	
Pyrene	ND	32	330	"	"	"	"	"	"	
Acenaphthylene	ND	52	330	"	"	"	"	"	"	
Anthracene	ND	33	330	"	"	"	"	"	"	
Benzo (a) anthracene	ND	26	330	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	43	330	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	57	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	49	1100	"	"	"	"	"	"	
Benzo (a) pyrene	ND	42	330	"	"	"	"	"	"	
Benzyl alcohol	ND	58	330	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	50	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	50	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	41	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	87	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	43	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	89	330	"	"	"	"	"	"	
4-Chloroaniline	ND	49	330	"	"	"	"	"	"	
2-Chloronaphthalene	ND	43	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	51	330	"	"	"	"	"	"	
Chrysene	ND	29	330	"	"	"	"	"	"	

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Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-9 @ 20'**  
**T212463-28(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Dibenz (a,h) anthracene	ND	44	330	ug/kg	1	1080603	08/06/21	08/09/21	EPA 8270C	
Dibenzofuran	ND	56	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	98	330	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	44	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	41	330	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	48	1100	"	"	"	"	"	"	
Diethyl phthalate	ND	39	330	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	49	1100	"	"	"	"	"	"	
Dimethyl phthalate	ND	54	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	53	1100	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	290	1100	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	46	1100	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	110	330	"	"	"	"	"	"	
Fluoranthene	ND	24	330	"	"	"	"	"	"	
Fluorene	ND	43	330	"	"	"	"	"	"	
Hexachlorobenzene	ND	61	1700	"	"	"	"	"	"	
Hexachlorobutadiene	ND	51	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	44	1100	"	"	"	"	"	"	
Hexachloroethane	ND	36	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	47	330	"	"	"	"	"	"	
Isophorone	ND	44	330	"	"	"	"	"	"	
2-Methylphenol	ND	90	1100	"	"	"	"	"	"	
4-Methylphenol	ND	46	1100	"	"	"	"	"	"	
Naphthalene	ND	48	330	"	"	"	"	"	"	
2-Nitroaniline	ND	43	330	"	"	"	"	"	"	
3-Nitroaniline	ND	36	330	"	"	"	"	"	"	
4-Nitroaniline	ND	43	330	"	"	"	"	"	"	
Nitrobenzene	ND	51	1100	"	"	"	"	"	"	
2-Nitrophenol	ND	48	1100	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	42	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	46	330	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	47	330	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	51	330	"	"	"	"	"	"	

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-9 @ 20'**  
**T212463-28(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	42	330	ug/kg	1	1080603	08/06/21	08/09/21	EPA 8270C	
Azobenzene	ND	57	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	41	1100	"	"	"	"	"	"	
Pyridine	ND	120	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	41	1100	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			66.7 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			69.5 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			67.7 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			74.1 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			84.0 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			78.6 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	ND	0.053	1.0	ug/kg	1	1080602	08/06/21	08/07/21	EPA 7199	
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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-10 @ 5'**  
**T212463-29(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	290	3000	ug/kg	10	1080603	08/06/21	08/09/21	EPA 8270C	R-07
Aniline	ND	500	3000	"	"	"	"	"	"	R-07
Phenol	ND	450	10000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	420	10000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	430	3000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	450	3000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	530	3000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	430	10000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	460	3000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	520	3000	"	"	"	"	"	"	R-07
Acenaphthene	ND	170	3000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	330	10000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	360	3000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	780	10000	"	"	"	"	"	"	R-07
Pyrene	ND	290	3000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	470	3000	"	"	"	"	"	"	R-07
Anthracene	ND	300	3000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	230	3000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	390	3000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	510	3000	"	"	"	"	"	"	R-07
Benzo (g,h,i) perylene	ND	440	10000	"	"	"	"	"	"	R-07
Benzo (a) pyrene	ND	380	3000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	520	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	450	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	450	3000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	370	3000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	780	3000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	390	3000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	800	3000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	440	3000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	390	3000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	460	3000	"	"	"	"	"	"	R-07
Chrysene	ND	260	3000	"	"	"	"	"	"	R-07

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Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-10 @ 5'**  
**T212463-29(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	400	3000	ug/kg	10	1080603	08/06/21	08/09/21	EPA 8270C	R-07
Dibenzofuran	ND	500	3000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	880	3000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	400	3000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	370	3000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	430	10000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	350	3000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	440	10000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	490	3000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	480	10000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	2600	10000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	410	10000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	1000	3000	"	"	"	"	"	"	R-07
Fluoranthene	ND	220	3000	"	"	"	"	"	"	R-07
Fluorene	ND	390	3000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	550	15000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	460	3000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	400	10000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	320	3000	"	"	"	"	"	"	R-07
Indeno (1,2,3-cd) pyrene	ND	420	3000	"	"	"	"	"	"	R-07
Isophorone	ND	400	3000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	810	10000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	410	10000	"	"	"	"	"	"	R-07
Naphthalene	ND	430	3000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	390	3000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	320	3000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	390	3000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	460	10000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	430	10000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	380	3000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	410	3000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	420	3000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	460	3000	"	"	"	"	"	"	R-07

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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-10 @ 5'**  
**T212463-29(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	380	3000	ug/kg	10	1080603	08/06/21	08/09/21	EPA 8270C	R-07
Azobenzene	ND	510	3000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	370	10000	"	"	"	"	"	"	R-07
Pyridine	ND	1100	3000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	370	10000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol			58.7 %	15-121		"	"	"	"	R-07
Surrogate: Phenol-d6			60.6 %	24-113		"	"	"	"	R-07
Surrogate: Nitrobenzene-d5			61.2 %	21.3-119		"	"	"	"	R-07
Surrogate: 2-Fluorobiphenyl			68.5 %	32.4-102		"	"	"	"	R-07
Surrogate: 2,4,6-Tribromophenol			63.0 %	18.1-105		"	"	"	"	R-07
Surrogate: Terphenyl-d14			64.2 %	29.1-130		"	"	"	"	R-07

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	110	0.053	1.0	ug/kg	1	1080602	08/06/21	08/07/21	EPA 7199	
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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-10 @ 10'**  
**T212463-30(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	290	3000	ug/kg	10	1080603	08/06/21	08/09/21	EPA 8270C	R-07
Aniline	ND	500	3000	"	"	"	"	"	"	R-07
Phenol	ND	450	10000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	420	10000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	430	3000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	450	3000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	530	3000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	430	10000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	460	3000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	520	3000	"	"	"	"	"	"	R-07
Acenaphthene	ND	170	3000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	330	10000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	360	3000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	780	10000	"	"	"	"	"	"	R-07
Pyrene	ND	290	3000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	470	3000	"	"	"	"	"	"	R-07
Anthracene	ND	300	3000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	230	3000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	390	3000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	510	3000	"	"	"	"	"	"	R-07
Benzo (g,h,i) perylene	ND	440	10000	"	"	"	"	"	"	R-07
Benzo (a) pyrene	ND	380	3000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	520	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	450	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	450	3000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	370	3000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	780	3000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	390	3000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	800	3000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	440	3000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	390	3000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	460	3000	"	"	"	"	"	"	R-07
Chrysene	ND	260	3000	"	"	"	"	"	"	R-07

SunStar Laboratories, Inc.

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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-10 @ 10'**  
**T212463-30(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	400	3000	ug/kg	10	1080603	08/06/21	08/09/21	EPA 8270C	R-07
Dibenzofuran	ND	500	3000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	880	3000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	400	3000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	370	3000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	430	10000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	350	3000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	440	10000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	490	3000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	480	10000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	2600	10000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	410	10000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	1000	3000	"	"	"	"	"	"	R-07
Fluoranthene	ND	220	3000	"	"	"	"	"	"	R-07
Fluorene	ND	390	3000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	550	15000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	460	3000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	400	10000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	320	3000	"	"	"	"	"	"	R-07
Indeno (1,2,3-cd) pyrene	ND	420	3000	"	"	"	"	"	"	R-07
Isophorone	ND	400	3000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	810	10000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	410	10000	"	"	"	"	"	"	R-07
Naphthalene	ND	430	3000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	390	3000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	320	3000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	390	3000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	460	10000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	430	10000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	380	3000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	410	3000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	420	3000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	460	3000	"	"	"	"	"	"	R-07

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-10 @ 10'**  
**T212463-30(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	380	3000	ug/kg	10	1080603	08/06/21	08/09/21	EPA 8270C	R-07
Azobenzene	ND	510	3000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	370	10000	"	"	"	"	"	"	R-07
Pyridine	ND	1100	3000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	370	10000	"	"	"	"	"	"	R-07
<i>Surrogate: 2-Fluorophenol</i>			66.2 %	15-121		"	"	"	"	R-07
<i>Surrogate: Phenol-d6</i>			74.6 %	24-113		"	"	"	"	R-07
<i>Surrogate: Nitrobenzene-d5</i>			68.0 %	21.3-119		"	"	"	"	R-07
<i>Surrogate: 2-Fluorobiphenyl</i>			74.0 %	32.4-102		"	"	"	"	R-07
<i>Surrogate: 2,4,6-Tribromophenol</i>			77.9 %	18.1-105		"	"	"	"	R-07
<i>Surrogate: Terphenyl-d14</i>			73.2 %	29.1-130		"	"	"	"	R-07

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	83	0.053	1.0	ug/kg	1	1080602	08/06/21	08/07/21	EPA 7199	
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Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-10 @ 15'**  
**T212463-31(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbazole	ND	29	300	ug/kg	1	1080603	08/06/21	08/09/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

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Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

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08/12/21 13:52

**B-10 @ 15'**  
**T212463-31(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080603	08/06/21	08/09/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**B-10 @ 15'**  
**T212463-31(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080603	08/06/21	08/09/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			65.2 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			68.7 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			67.6 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			74.7 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			86.8 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			75.3 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	ND	0.053	1.0	ug/kg	1	1080602	08/06/21	08/07/21	EPA 7199	
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11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-10 @ 20'**  
**T212463-32(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbazole	ND	29	300	ug/kg	1	1080603	08/06/21	08/09/21	EPA 8270C	
Aniline	ND	50	300	"	"	"	"	"	"	
Phenol	ND	45	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	42	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	43	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	45	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	53	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	43	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	46	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	52	300	"	"	"	"	"	"	
Acenaphthene	ND	17	300	"	"	"	"	"	"	
4-Nitrophenol	ND	33	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	36	300	"	"	"	"	"	"	
Pentachlorophenol	ND	78	1000	"	"	"	"	"	"	
Pyrene	ND	29	300	"	"	"	"	"	"	
Acenaphthylene	ND	47	300	"	"	"	"	"	"	
Anthracene	ND	30	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	23	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	39	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	51	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	44	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	38	300	"	"	"	"	"	"	
Benzyl alcohol	ND	52	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	45	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	37	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	78	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	39	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	80	300	"	"	"	"	"	"	
4-Chloroaniline	ND	44	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	39	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	46	300	"	"	"	"	"	"	
Chrysene	ND	26	300	"	"	"	"	"	"	

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Project Number: ST-17934  
Project Manager: Colby Wakeman

Reported:  
08/12/21 13:52

**B-10 @ 20'**  
**T212463-32(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	40	300	ug/kg	1	1080603	08/06/21	08/09/21	EPA 8270C	
Dibenzofuran	ND	50	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	88	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	40	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	37	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	43	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	35	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	44	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	49	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	48	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	260	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	41	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	300	"	"	"	"	"	"	
Fluoranthene	ND	22	300	"	"	"	"	"	"	
Fluorene	ND	39	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	55	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	46	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	40	1000	"	"	"	"	"	"	
Hexachloroethane	ND	32	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	42	300	"	"	"	"	"	"	
Isophorone	ND	40	300	"	"	"	"	"	"	
2-Methylphenol	ND	81	1000	"	"	"	"	"	"	
4-Methylphenol	ND	41	1000	"	"	"	"	"	"	
Naphthalene	ND	43	300	"	"	"	"	"	"	
2-Nitroaniline	ND	39	300	"	"	"	"	"	"	
3-Nitroaniline	ND	32	300	"	"	"	"	"	"	
4-Nitroaniline	ND	39	300	"	"	"	"	"	"	
Nitrobenzene	ND	46	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	43	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	38	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	41	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	42	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	46	300	"	"	"	"	"	"	

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 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental 11007 Forest Place Santa Fe Springs CA, 90670	Project: 1933 N. Temple Ave. Project Number: ST-17934 Project Manager: Colby Wakeman	Reported: 08/12/21 13:52
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**B-10 @ 20'**  
**T212463-32(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Semivolatile Organic Compounds by EPA Method 8270C**

Phenanthrene	ND	38	300	ug/kg	1	1080603	08/06/21	08/09/21	EPA 8270C	
Azobenzene	ND	51	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
Pyridine	ND	110	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	37	1000	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>			59.3 %	15-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>			61.8 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>			60.5 %	21.3-119		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>			66.3 %	32.4-102		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>			78.9 %	18.1-105		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>			71.8 %	29.1-130		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Hexavalent Chromium	ND	0.053	1.0	ug/kg	1	1080602	08/06/21	08/07/21	EPA 7199	
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Jones Environmental  
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Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1080542 - EPA 3550 ECD/GCMS**

**Blank (1080542-BLK1)**

Prepared: 08/05/21 Analyzed: 08/10/21

Surrogate: 2-Fluorophenol	2280			ug/kg	3290		69.4	15-121			
Surrogate: Phenol-d6	2360			"	3290		71.8	24-113			
Surrogate: Nitrobenzene-d5	2310			"	3290		70.3	21.3-119			
Surrogate: 2-Fluorobiphenyl	2560			"	3290		78.0	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2760			"	3290		84.0	18.1-105			
Surrogate: Terphenyl-d14	2590			"	3290		78.8	29.1-130			
Carbazole	ND	29	300	"							
Aniline	ND	50	300	"							
Phenol	ND	45	1000	"							
2-Chlorophenol	ND	42	1000	"							
1,4-Dichlorobenzene	ND	43	300	"							
N-Nitrosodi-n-propylamine	ND	45	300	"							
1,2,4-Trichlorobenzene	ND	53	300	"							
4-Chloro-3-methylphenol	ND	43	1000	"							
1-Methylnaphthalene	ND	46	300	"							
2-Methylnaphthalene	ND	52	300	"							
Acenaphthene	ND	17	300	"							
4-Nitrophenol	ND	33	1000	"							
2,4-Dinitrotoluene	ND	36	300	"							
Pentachlorophenol	ND	78	1000	"							
Pyrene	ND	29	300	"							
Acenaphthylene	ND	47	300	"							
Anthracene	ND	30	300	"							
Benzo (a) anthracene	ND	23	300	"							
Benzo (b) fluoranthene	ND	39	300	"							
Benzo (k) fluoranthene	ND	51	300	"							
Benzo (g,h,i) perylene	ND	44	1000	"							

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 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1080542 - EPA 3550 ECD/GCMS**

**Blank (1080542-BLK1)**

Prepared: 08/05/21 Analyzed: 08/10/21

Benzo (a) pyrene	ND	38	300	ug/kg							
Benzyl alcohol	ND	52	300	"							
Bis(2-chloroethoxy)methane	ND	45	300	"							
Bis(2-chloroethyl)ether	ND	45	300	"							
Bis(2-chloroisopropyl)ether	ND	37	300	"							
Bis(2-ethylhexyl)phthalate	ND	78	300	"							
4-Bromophenyl phenyl ether	ND	39	300	"							
Butyl benzyl phthalate	ND	80	300	"							
4-Chloroaniline	ND	44	300	"							
2-Chloronaphthalene	ND	39	300	"							
4-Chlorophenyl phenyl ether	ND	46	300	"							
Chrysene	ND	26	300	"							
Dibenz (a,h) anthracene	ND	40	300	"							
Dibenzofuran	ND	50	300	"							
Di-n-butyl phthalate	ND	88	300	"							
1,2-Dichlorobenzene	ND	40	300	"							
1,3-Dichlorobenzene	ND	37	300	"							
2,4-Dichlorophenol	ND	43	1000	"							
Diethyl phthalate	ND	35	300	"							
2,4-Dimethylphenol	ND	44	1000	"							
Dimethyl phthalate	ND	49	300	"							
4,6-Dinitro-2-methylphenol	ND	48	1000	"							
2,4-Dinitrophenol	ND	260	1000	"							
2,6-Dinitrotoluene	ND	41	1000	"							
Di-n-octyl phthalate	ND	100	300	"							
Fluoranthene	ND	22	300	"							
Fluorene	ND	39	300	"							

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 949.297.5027 Fax

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Reported:  
 08/12/21 13:52

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1080542 - EPA 3550 ECD/GCMS**

**Blank (1080542-BLK1)**

Prepared: 08/05/21 Analyzed: 08/10/21

Hexachlorobenzene	ND	55	1500	ug/kg							
Hexachlorobutadiene	ND	46	300	"							
Hexachlorocyclopentadiene	ND	40	1000	"							
Hexachloroethane	ND	32	300	"							
Indeno (1,2,3-cd) pyrene	ND	42	300	"							
Isophorone	ND	40	300	"							
2-Methylphenol	ND	81	1000	"							
4-Methylphenol	ND	41	1000	"							
Naphthalene	ND	43	300	"							
2-Nitroaniline	ND	39	300	"							
3-Nitroaniline	ND	32	300	"							
4-Nitroaniline	ND	39	300	"							
Nitrobenzene	ND	46	1000	"							
2-Nitrophenol	ND	43	1000	"							
N-Nitrosodimethylamine	ND	38	300	"							
N-Nitrosodiphenylamine	ND	41	300	"							
2,3,5,6-Tetrachlorophenol	ND	42	300	"							
2,3,4,6-Tetrachlorophenol	ND	46	300	"							
Phenanthrene	ND	38	300	"							
Azobenzene	ND	51	300	"							
2,4,5-Trichlorophenol	ND	37	1000	"							
Pyridine	ND	110	300	"							
2,4,6-Trichlorophenol	ND	37	1000	"							

**LCS (1080542-BS1)**

Prepared: 08/05/21 Analyzed: 08/10/21

Surrogate: 2-Fluorophenol	2170		ug/kg	3330	65.1	15-121
Surrogate: Phenol-d6	2330		"	3330	69.9	24-113
Surrogate: Nitrobenzene-d5	2270		"	3330	68.0	21.3-119

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 949.297.5027 Fax

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Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1080542 - EPA 3550 ECD/GCMS**

**LCS (1080542-BS1)**

Prepared: 08/05/21 Analyzed: 08/10/21

Surrogate: 2-Fluorobiphenyl	2460			ug/kg	3330		73.7	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2690			"	3330		80.8	18.1-105			
Surrogate: Terphenyl-d14	2650			"	3330		79.4	29.1-130			
Phenol	2180	45	1000	"	3330		65.4	34-114			
2-Chlorophenol	1970	42	1000	"	3330		59.2	34-114			
1,4-Dichlorobenzene	1990	43	300	"	3330		59.7	34-114			
N-Nitrosodi-n-propylamine	2230	45	300	"	3330		67.0	30-110			
1,2,4-Trichlorobenzene	2010	53	300	"	3330		60.2	39-119			
4-Chloro-3-methylphenol	2320	43	1000	"	3330		69.7	50-130			
Acenaphthene	1940	17	300	"	3330		58.2	34-114			
Pentachlorophenol	2740	78	1000	"	3330		82.3	50-130			
Pyrene	1520	29	300	"	3330		45.5	33.7-123			

**LCS Dup (1080542-BSD1)**

Prepared: 08/05/21 Analyzed: 08/10/21

Surrogate: 2-Fluorophenol	2330			ug/kg	3310		70.4	15-121			
Surrogate: Phenol-d6	2470			"	3310		74.6	24-113			
Surrogate: Nitrobenzene-d5	2430			"	3310		73.3	21.3-119			
Surrogate: 2-Fluorobiphenyl	2600			"	3310		78.6	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2880			"	3310		86.9	18.1-105			
Surrogate: Terphenyl-d14	2800			"	3310		84.5	29.1-130			
Phenol	2260	45	1000	"	3310		68.3	34-114	3.79	42	
2-Chlorophenol	2090	42	1000	"	3310		63.0	34-114	5.55	40	
1,4-Dichlorobenzene	2090	43	300	"	3310		63.1	34-114	4.83	28	
N-Nitrosodi-n-propylamine	2350	45	300	"	3310		70.9	30-110	5.01	38	
1,2,4-Trichlorobenzene	2110	53	300	"	3310		63.8	39-119	5.22	28	
4-Chloro-3-methylphenol	2460	43	1000	"	3310		74.3	50-130	5.76	42	
Acenaphthene	2040	17	300	"	3310		61.7	34-114	5.06	31	
Pentachlorophenol	2880	78	1000	"	3310		86.9	50-130	4.76	50	

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 949.297.5027 Fax

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 11007 Forest Place  
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 Project Manager: Colby Wakeman

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**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1080542 - EPA 3550 ECD/GCMS**

**LCS Dup (1080542-BSD1)**

Prepared: 08/05/21 Analyzed: 08/10/21

Pyrene	1640	29	300	ug/kg	3310		49.5	33.7-123	7.75	31	
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**Batch 1080603 - EPA 3550 ECD/GCMS**

**Blank (1080603-BLK1)**

Prepared: 08/06/21 Analyzed: 08/09/21

Surrogate: 2-Fluorophenol	2300			ug/kg	3340		68.9	15-121			
Surrogate: Phenol-d6	2400			"	3340		71.7	24-113			
Surrogate: Nitrobenzene-d5	2340			"	3340		69.8	21.3-119			
Surrogate: 2-Fluorobiphenyl	2440			"	3340		72.9	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2600			"	3340		77.7	18.1-105			
Surrogate: Terphenyl-dl4	2730			"	3340		81.7	29.1-130			
Carbazole	ND	29	300	"							
Aniline	ND	50	300	"							
Phenol	ND	45	1000	"							
2-Chlorophenol	ND	42	1000	"							
1,4-Dichlorobenzene	ND	43	300	"							
N-Nitrosodi-n-propylamine	ND	45	300	"							
1,2,4-Trichlorobenzene	ND	53	300	"							
4-Chloro-3-methylphenol	ND	43	1000	"							
1-Methylnaphthalene	ND	46	300	"							
2-Methylnaphthalene	ND	52	300	"							
Acenaphthene	ND	17	300	"							
4-Nitrophenol	ND	33	1000	"							
2,4-Dinitrotoluene	ND	36	300	"							
Pentachlorophenol	ND	78	1000	"							
Pyrene	ND	29	300	"							
Acenaphthylene	ND	47	300	"							
Anthracene	ND	30	300	"							
Benzo (a) anthracene	ND	23	300	"							

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 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1080603 - EPA 3550 ECD/GCMS**

**Blank (1080603-BLK1)**

Prepared: 08/06/21 Analyzed: 08/09/21

Benzo (b) fluoranthene	ND	39	300	ug/kg							
Benzo (k) fluoranthene	ND	51	300	"							
Benzo (g,h,i) perylene	ND	44	1000	"							
Benzo (a) pyrene	ND	38	300	"							
Benzyl alcohol	ND	52	300	"							
Bis(2-chloroethoxy)methane	ND	45	300	"							
Bis(2-chloroethyl)ether	ND	45	300	"							
Bis(2-chloroisopropyl)ether	ND	37	300	"							
Bis(2-ethylhexyl)phthalate	ND	78	300	"							
4-Bromophenyl phenyl ether	ND	39	300	"							
Butyl benzyl phthalate	ND	80	300	"							
4-Chloroaniline	ND	44	300	"							
2-Chloronaphthalene	ND	39	300	"							
4-Chlorophenyl phenyl ether	ND	46	300	"							
Chrysene	ND	26	300	"							
Dibenz (a,h) anthracene	ND	40	300	"							
Dibenzofuran	ND	50	300	"							
Di-n-butyl phthalate	ND	88	300	"							
1,2-Dichlorobenzene	ND	40	300	"							
1,3-Dichlorobenzene	ND	37	300	"							
2,4-Dichlorophenol	ND	43	1000	"							
Diethyl phthalate	ND	35	300	"							
2,4-Dimethylphenol	ND	44	1000	"							
Dimethyl phthalate	ND	49	300	"							
4,6-Dinitro-2-methylphenol	ND	48	1000	"							
2,4-Dinitrophenol	ND	260	1000	"							
2,6-Dinitrotoluene	ND	41	1000	"							

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 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1080603 - EPA 3550 ECD/GCMS**

**Blank (1080603-BLK1)**

Prepared: 08/06/21 Analyzed: 08/09/21

Di-n-octyl phthalate	ND	100	300	ug/kg							
Fluoranthene	ND	22	300	"							
Fluorene	ND	39	300	"							
Hexachlorobenzene	ND	55	1500	"							
Hexachlorobutadiene	ND	46	300	"							
Hexachlorocyclopentadiene	ND	40	1000	"							
Hexachloroethane	ND	32	300	"							
Indeno (1,2,3-cd) pyrene	ND	42	300	"							
Isophorone	ND	40	300	"							
2-Methylphenol	ND	81	1000	"							
4-Methylphenol	ND	41	1000	"							
Naphthalene	ND	43	300	"							
2-Nitroaniline	ND	39	300	"							
3-Nitroaniline	ND	32	300	"							
4-Nitroaniline	ND	39	300	"							
Nitrobenzene	ND	46	1000	"							
2-Nitrophenol	ND	43	1000	"							
N-Nitrosodimethylamine	ND	38	300	"							
N-Nitrosodiphenylamine	ND	41	300	"							
2,3,5,6-Tetrachlorophenol	ND	42	300	"							
2,3,4,6-Tetrachlorophenol	ND	46	300	"							
Phenanthrene	ND	38	300	"							
Azobenzene	ND	51	300	"							
2,4,5-Trichlorophenol	ND	37	1000	"							
Pyridine	ND	110	300	"							
2,4,6-Trichlorophenol	ND	37	1000	"							

**LCS (1080603-BS1)**

Prepared: 08/06/21 Analyzed: 08/09/21

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 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1080603 - EPA 3550 ECD/GCMS**

**LCS (1080603-BS1)**

Prepared: 08/06/21 Analyzed: 08/09/21

Surrogate: 2-Fluorophenol	2350			ug/kg	3330		70.6	15-121			
Surrogate: Phenol-d6	2430			"	3330		72.8	24-113			
Surrogate: Nitrobenzene-d5	2370			"	3330		71.1	21.3-119			
Surrogate: 2-Fluorobiphenyl	2550			"	3330		76.4	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2690			"	3330		80.7	18.1-105			
Surrogate: Terphenyl-dl4	2780			"	3330		83.4	29.1-130			
Phenol	2220	45	1000	"	3330		66.6	34-114			
2-Chlorophenol	2060	42	1000	"	3330		61.7	34-114			
1,4-Dichlorobenzene	2040	43	300	"	3330		61.2	34-114			
N-Nitrosodi-n-propylamine	2210	45	300	"	3330		66.4	30-110			
1,2,4-Trichlorobenzene	2110	53	300	"	3330		63.4	39-119			
4-Chloro-3-methylphenol	2330	43	1000	"	3330		69.9	50-130			
Acenaphthene	1950	17	300	"	3330		58.6	34-114			
Pentachlorophenol	2620	78	1000	"	3330		78.6	50-130			
Pyrene	1540	29	300	"	3330		46.3	33.7-123			

**LCS Dup (1080603-BSD1)**

Prepared: 08/06/21 Analyzed: 08/09/21

Surrogate: 2-Fluorophenol	2430			ug/kg	3320		73.1	15-121			
Surrogate: Phenol-d6	2480			"	3320		74.7	24-113			
Surrogate: Nitrobenzene-d5	2470			"	3320		74.5	21.3-119			
Surrogate: 2-Fluorobiphenyl	2610			"	3320		78.5	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2760			"	3320		83.1	18.1-105			
Surrogate: Terphenyl-dl4	2840			"	3320		85.4	29.1-130			
Phenol	2300	45	1000	"	3320		69.3	34-114	3.55	42	
2-Chlorophenol	2160	42	1000	"	3320		64.9	34-114	4.71	40	
1,4-Dichlorobenzene	2180	43	300	"	3320		65.7	34-114	6.76	28	
N-Nitrosodi-n-propylamine	2220	45	300	"	3320		66.9	30-110	0.433	38	
1,2,4-Trichlorobenzene	2240	53	300	"	3320		67.4	39-119	5.74	28	
4-Chloro-3-methylphenol	2440	43	1000	"	3320		73.3	50-130	4.46	42	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental  
 11007 Forest Place  
 Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
 Project Number: ST-17934  
 Project Manager: Colby Wakeman

Reported:  
 08/12/21 13:52

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1080603 - EPA 3550 ECD/GCMS**

**LCS Dup (1080603-BSD1)**

Prepared: 08/06/21 Analyzed: 08/09/21

Acenaphthene	2050	17	300	ug/kg	3320		61.6	34-114	4.67	31	
Pentachlorophenol	2630	78	1000	"	3320		79.0	50-130	0.200	50	
Pyrene	1550	29	300	"	3320		46.8	33.7-123	0.569	31	



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Jones Environmental 11007 Forest Place Santa Fe Springs CA, 90670	Project: 1933 N. Temple Ave. Project Number: ST-17934 Project Manager: Colby Wakeman	Reported: 08/12/21 13:52
---	--	-----------------------------

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 1080543 - General Preparation**

**Blank (1080543-BLK1)** Prepared: 08/05/21 Analyzed: 08/06/21

Hexavalent Chromium	ND	0.053	1.0	ug/kg							
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**LCS (1080543-BS1)** Prepared: 08/05/21 Analyzed: 08/06/21

Hexavalent Chromium	8690	0.053	1.0	ug/kg	10000		86.9	80-120			
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**Matrix Spike (1080543-MS1)** Source: T212463-02 Prepared: 08/05/21 Analyzed: 08/06/21

Hexavalent Chromium	8110	0.053	1.0	ug/kg	10100	68.5	79.8	75-125			
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**Matrix Spike Dup (1080543-MSD1)** Source: T212463-02 Prepared: 08/05/21 Analyzed: 08/06/21

Hexavalent Chromium	8250	0.053	1.0	ug/kg	10200	68.5	79.8	75-125	1.72	20	
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**Batch 1080602 - General Preparation**

**Blank (1080602-BLK1)** Prepared: 08/06/21 Analyzed: 08/07/21

Hexavalent Chromium	ND	0.053	1.0	ug/kg							
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**LCS (1080602-BS1)** Prepared: 08/06/21 Analyzed: 08/07/21

Hexavalent Chromium	8530	0.053	1.0	ug/kg	10000		85.3	80-120			
---------------------	------	-------	-----	-------	-------	--	------	--------	--	--	--

**Matrix Spike (1080602-MS1)** Source: T212463-21 Prepared: 08/06/21 Analyzed: 08/07/21

Hexavalent Chromium	8880	0.053	1.0	ug/kg	9920	103	88.4	75-125			
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**Matrix Spike Dup (1080602-MSD1)** Source: T212463-21 Prepared: 08/06/21 Analyzed: 08/07/21

Hexavalent Chromium	9030	0.053	1.0	ug/kg	9770	103	91.4	75-125	1.72	20	
---------------------	------	-------	-----	-------	------	-----	------	--------	------	----	--

Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-17934  
Project Manager: Colby Wakeman

**Reported:**  
08/12/21 13:52

### Notes and Definitions

R-07 Reporting limit for this compound(s) has been raised to account for dilution necessary due to high levels of interfering compound(s) and/or matrix affect.

DET Analyte DETECTED

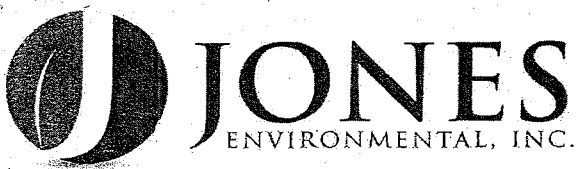
ND Analyte NOT DETECTED at or above the Method Detection Limit (MDL)

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference





11007 Forest Pl.  
 Santa Fe Springs, CA 90670  
 (714) 449-9937  
 reports@jonesenv.com  
 www.jonesenv.com

# Chain-of-Custody Record

**Turn Around Requested:**

- Immediate Attention - 200%
- Rush 24 Hours - 100%
- Rush 48 Hours - 50%
- Rush 72 Hours - 25%
- Rush 96 Hours - 10%
- Normal - No Surcharge

T212463

LAB USE ONLY

Jones Project #

Page

1 of 4

**Report Options**

EDD \_\_\_\_\_  
 EDF\* - 10% Surcharge \_\_\_\_\_  
 \*Global ID \_\_\_\_\_

**Client**  
 DL Science, In.

**Date**  
 8/4/2021

**Project Name**  
 1933 N. Temple Ave.

**Client Project #**

**Project Address**  
 1933 N. Temple Ave.

**Sample Container / Preservative Abbreviations**

**Signal Hill, CA**

**Email**  
 reports@jonesenv.com

**Phone**  
 714-449-9937

**Report To**                      **Sampler**  
 Colby Wakeman                      Ken Durand

Sample Container / Preservative Abbreviations

- AS - Acetate Sleeve
- SS - Stainless Steel Sleeve
- BS - Brass Sleeve
- G - Glass
- AB - Amber Bottle
- P - Plastic
- SOBI - Sodium Bisulfate
- MeOH - Methanol
- HCl - Hydrochloric Acid
- HNO3 - Nitric Acid
- O - Other (See Notes)

**Analysis Requested**

Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	Hexavalent Chromium	8720 (svoc)	Analysis Requested										Number of Containers			
S	X	X														
S	X	X														
S	X	X														
S	X	X														
S	X	X														
S	X	X														
S	X	X														
S	X	X														
S	X	X														
S	X	X														

Sample ID	Sample Collection Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	Hexavalent Chromium	8720 (svoc)	Analysis Requested										Number of Containers	Notes & Special Instructions		
B-1 @ 5'	8/4/2021	1100	01	none	digi-tube	S	X	X														ST-17934-01
B-1 @ 10'	8/4/2021	1105	02	none	digi-tube	S	X	X														ST-17934-02
B-1 @ 15'	8/4/2021	1110	03	none	digi-tube	S	X	X														ST-17934-03
B-2 @ 5'	8/4/2021	1025	04	none	digi-tube	S	X	X														ST-17934-04
B-2 @ 10'	8/4/2021	1030	05	none	digi-tube	S	X	X														ST-17934-05
B-2 @ 15'	8/4/2021	1035	06	none	digi-tube	S	X	X														ST-17934-06
B-3 @ 5'	8/4/2021	710	07	none	digi-tube	S	X	X														ST-17934-07
B-3 @ 10'	8/4/2021	715	08	none	digi-tube	S	X	X														ST-17934-08
B-3 @ 15'	8/4/2021	720	09	none	digi-tube	S	X	X														ST-17934-09
B-4 @ 5'	8/4/2021	735	10	none	digi-tube	S	X	X														ST-17934-10

Relinquished By (Signature) <i>Colby Wakeman</i>	Printed Name Colby Wakeman	Date 8-5-21	Time 1117	Received By (Signature) <i>Paul Berner</i>	Printed Name Paul Berner	Date 8-5-21	Time 1117	Total Number of Containers
Company Jones				Company SunStar				
Relinquished By (Signature) <i>Paul Berner</i>	Printed Name Paul Berner	Date 8-5-21	Time 1455	Received By Laboratory (Signature) <i>Ken Durand</i>	Printed Name Ken Durand	Date 8/5/21	Time 14:55	Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.
Company SunStar				Company SunStar Labs				



11007 Forest Pl.  
Santa Fe Springs, CA 90670  
(714) 449-9937  
reports@jonesenv.com  
www.jonesenv.com

# Chain-of-Custody Record

### Turn Around Requested:

- Immediate Attention - 200%
- Rush 24 Hours - 100%
- Rush 48 Hours - 50%
- Rush 72 Hours - 25%
- Rush 96 Hours - 10%
- Normal - No Surcharge

T212463

LAB USE ONLY

Jones Project #

Page

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### Report Options

EDD \_\_\_\_\_  
EDF\* - 10% Surcharge \_\_\_\_\_  
\*Global ID \_\_\_\_\_

Client <b>DL Science, In.</b>	
Project Name <b>1933 N. Temple Ave.</b>	
Project Address <b>1933 N. Temple Ave.</b>	
Signal Hill, CA	
Email <b>reports@jonesenv.com</b>	
Phone <b>714-449-9937</b>	
Report To <b>Colby Wakeman</b>	Sampler <b>Ken Durand</b>

Date <b>8/4/2021</b>
Client Project #
Sample Container / Preservative Abbreviations
AS - Acetate Sleeve SS - Stainless Steel Sleeve BS - Brass Sleeve G - Glass AB - Amber Bottle P - Plastic SOBI - Sodium Bisulfate MeOH - Methanol HCl - Hydrochloric Acid HNO3 - Nitric Acid O - Other (See Notes)

### Analysis Requested

Sample ID	Sample Collection Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	Hexavalent Chromium	8720 (svoc)	Analysis Requested										Number of Containers	Notes & Special Instructions				
B-4 @ 10'	8/4/2021	740	11	none	digi-tube	S	X	X																ST-17934-11
B-4 @ 15'	8/4/2021	745	12	none	digi-tube	S	X	X																ST-17934-12
B-5 @ 5'	8/4/2021	750	13	none	digi-tube	S	X	X																ST-17934-13
B-5 @ 10'	8/4/2021	755	14	none	digi-tube	S	X	X																ST-17934-14
B-5 @ 15'	8/4/2021	800	15	none	digi-tube	S	X	X																ST-17934-15
B-6 @ 5'	8/4/2021	1000	16	none	digi-tube	S	X	X																ST-17934-16
B-6 @ 10'	8/4/2021	1005	17	none	digi-tube	S	X	X																ST-17934-17
B-6 @ 15'	8/4/2021	1010	18	none	digi-tube	S	X	X																ST-17934-18
B-7 @ 5'	8/4/2021	930	19	none	digi-tube	S	X	X																ST-17934-19
B-7 @ 10'	8/4/2021	935	20	none	digi-tube	S	X	X																ST-17934-20

Relinquished By (Signature) <i>[Signature]</i>	Printed Name <b>Colby</b>	Date <b>8-5-21</b>	Time <b>1117</b>	Company <b>Jones</b>	Received By (Signature) <i>[Signature]</i>	Printed Name <b>David</b>	Date <b>8-5-21</b>	Time <b>1117</b>	Company <b>SunStar</b>	Total Number of Containers
Relinquished By (Signature) <i>[Signature]</i>	Printed Name <b>David</b>	Date <b>8-5-21</b>	Time <b>1455</b>	Company <b>SunStar</b>	Received By Laboratory (Signature) <i>[Signature]</i>	Printed Name <b>Paul Berner</b>	Date <b>8/5/21</b>	Time <b>14:55</b>	Company <b>SunStar Labs</b>	Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.



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# Chain-of-Custody Record

**Turn Around Requested:**

- Immediate Attention - 200%
- Rush 24 Hours - 100%
- Rush 48 Hours - 50%
- Rush 72 Hours - 25%
- Rush 96 Hours - 10%
- Normal - No Surcharge

*1212463*

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Jones Project #

Page

3 of 4

Client <b>DL Science, In.</b>	
Project Name <b>1933 N. Temple Ave.</b>	
Project Address <b>1933 N. Temple Ave.</b>	
Signal Hill, CA	
Email <b>reports@jonesenv.com</b>	
Phone <b>714-449-9937</b>	
Report To <b>Colby Wakeman</b>	Sampler <b>Ken Durand</b>

Date <b>8/4/2021</b>
Client Project #

Sample Container / Preservative Abbreviations

- AS - Acetate Sleeve
- SS - Stainless Steel Sleeve
- BS - Brass Sleeve
- G - Glass
- AB - Amber Bottle
- P - Plastic
- SOBI - Sodium Bisulfate
- MeOH - Methanol
- HCl - Hydrochloric Acid
- HNO3 - Nitric Acid
- O - Other (See Notes)

**Analysis Requested**

Sample Matrix:	Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	Hexavalent Chromium	8720 (svoc)	Analysis Requested										Number of Containers	
S	X	X													
S	X	X													
S	X	X													
S	X	X													
S	X	X													
S	X	X													
S	X	X													
S	X	X													
S	X	X													
S	X	X													
S	X	X													
S	X	X													

**Report Options**

- EDD \_\_\_\_\_
- EDF\* - 10% Surcharge \_\_\_\_\_
- \*Global ID \_\_\_\_\_

Sample ID	Sample Collection Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Sample Matrix:	Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	Hexavalent Chromium	8720 (svoc)	Analysis Requested										Number of Containers	Notes & Special Instructions		
B-7 @ 15'	8/4/2021	940	21	none	digi-tube	S	X	X															ST-17934-21
B-8 @ 5'	8/4/2021	855	22	none	digi-tube	S	X	X															ST-17934-22
B-8 @ 10'	8/4/2021	900	23	none	digi-tube	S	X	X															ST-17934-23
B-8 @ 15'	8/4/2021	905	24	none	digi-tube	S	X	X															ST-17934-24
B-9 @ 5'	8/4/2021	1135	25	none	digi-tube	S	X	X															ST-17934-25
B-9 @ 10'	8/4/2021	1140	26	none	digi-tube	S	X	X															ST-17934-26
B-9 @ 15'	8/4/2021	1145	27	none	digi-tube	S	X	X															ST-17934-27
B-9 @ 20'	8/4/2021	1150	28	none	digi-tube	S	X	X															ST-17934-28
B-10 @ 5'	8/4/2021	815	29	none	digi-tube	S	X	X															ST-17934-29
B-10 @ 10'	8/4/2021	820	30	none	digi-tube	S	X	X															ST-17934-30

Relinquished By (Signature) <i>Colby</i>	Printed Name <b>Colby</b>	Received By (Signature) <i>David</i>	Printed Name <b>David</b>	Total Number of Containers
Company <b>Jones</b>	Date <b>8-5-21</b>	Time <b>117</b>	Company <b>SunStar</b>	Date <b>8-5-21</b>
Relinquished By (Signature) <i>Paul Berner</i>	Printed Name <b>David</b>	Received By Laboratory (Signature) <i>Paul Berner</i>	Printed Name <b>Paul Berner</b>	
Company <b>SunStar</b>	Date <b>8-5-21</b>	Time <b>1455</b>	Company <b>SunStar Labs</b>	Date <b>8/5/21</b>

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.



11007 Forest Pl.  
 Santa Fe Springs, CA 90670  
 (714) 449-9937  
 reports@jonesenv.com  
 www.jonesenv.com

# Chain-of-Custody Record

## Turn Around Requested:

- Immediate Attention - 200%
- Rush 24 Hours - 100%
- Rush 48 Hours - 50%
- Rush 72 Hours - 25%
- Rush 96 Hours - 10%
- Normal - No Surcharge

T212463

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Jones Project #

Page

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## Report Options

EDD \_\_\_\_\_  
 EDF\* - 10% Surcharge \_\_\_\_\_  
 \*Global ID \_\_\_\_\_

**Client**  
 DL Science, In.

**Date**  
 8/4/2021

**Project Name**  
 1933 N. Temple Ave.

**Client Project #**

**Project Address**  
 1933 N. Temple Ave.

**Sample Container / Preservative Abbreviations**

**Signal Hill, CA**

**Email**  
 reports@jonesenv.com

**Phone**  
 714-449-9937

**Report To** **Sampler**  
 Colby Wakeman **Ken Durand**

**Sample Container / Preservative Abbreviations**

AS - Acetate Sleeve  
 SS - Stainless Steel Sleeve  
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 G - Glass  
 AB - Amber Bottle  
 P - Plastic  
 SOBI - Sodium Bisulfate  
 MeOH - Methanol  
 HCl - Hydrochloric Acid  
 HNO3 - Nitric Acid  
 O - Other (See Notes)

## Analysis Requested

Sample ID	Sample Collection Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Analysis Requested										Notes & Special Instructions		
						Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	Hexavalent Chromium	8720 (svoc)										
B-10 @ 15'	8/4/2021	825	31	none	digi-tube	S	X	X										ST-17934-31
B-10 @ 20'	8/4/2021	830	32	none	digi-tube	S	X	X										ST-17934-32

Relinquished By (Signature) <i>[Signature]</i>	Printed Name Colby	Date 8-5-21	Time 11:17	Received By (Signature) <i>[Signature]</i>	Printed Name David	Date 8-5-21	Time 11:07	Total Number of Containers
Company Jones				Company SunStar				
Relinquished By (Signature) <i>[Signature]</i>	Printed Name Dave	Date 8-5-21	Time 14:55	Received By Laboratory (Signature) <i>[Signature]</i>	Printed Name Paul Bernar	Date 8/5/21	Time 14:55	Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.
Company Sunstar				Company SunStar Labs				



## SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 7212463  
 Client Name: Jones Project: 1933 N. Temple Ave

Delivered by:  Client  SunStar Courier  GLS  FedEx  UPS

If Courier, Received by: Dave Date/Time Courier Received: 8.5.21 1117

Lab Received by: Paul Date/Time Lab Received: 8.5.21 1455

Total number of coolers received: 1 Thermometer ID: SC-1 Calibration due : 8/17/21

Temperature: Cooler #1	2.6	°C +/- the CF (-0.2°C) =	2.4	°C corrected temperature
Temperature: Cooler #2		°C +/- the CF (-0.2°C) =		°C corrected temperature
Temperature: Cooler #3		°C +/- the CF (-0.2°C) =		°C corrected temperature
<b>Temperature criteria = ≤ 6°C (no frozen containers)</b>		Within criteria?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<b>If NO:</b>				
Samples received on ice?		<input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet	
If on ice, samples received same day collected?		<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet	

- Custody seals intact on cooler/sample  Yes  No\*  N/A
- Sample containers intact  Yes  No\*
- Sample labels match Chain of Custody IDs  Yes  No\*
- Total number of containers received match COC  Yes  No\*
- Proper containers received for analyses requested on COC  Yes  No\*
- Proper preservative indicated on COC/containers for analyses requested  Yes  No\*  N/A
- Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times  Yes  No\*

\* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: 126 8.5.21

Comments: \_\_\_\_\_

**WORK ORDER**

**T212463**

**Client: Jones Environmental**

**Project Manager: Mike Jaroudi**

**Project: 1933 N. Temple Ave.**

**Project Number: ST-17934**

**Report To:**

Jones Environmental  
 Colby Wakeman  
 11007 Forest Place  
 Santa Fe Springs, CA 90670

Date Due: 08/12/21 17:00 (5 day TAT)

Received By: Paul Berner

Date Received: 08/05/21 14:55

Logged In By: Jennifer Berger

Date Logged In: 08/05/21 15:41

Samples Received at: **2.4°C**

Custody Seals No Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------

**T212463-01 B-1 @ 5' [Soil] Sampled 08/04/21 11:00 (GMT-08:00) Pacific Time (US &**

8270C	08/12/21 15:00	5	08/18/21 11:00	
-------	----------------	---	----------------	--

Cr6-7199	08/12/21 15:00	5	09/03/21 11:00	
----------	----------------	---	----------------	--

**T212463-02 B-1 @ 10' [Soil] Sampled 08/04/21 11:05 (GMT-08:00) Pacific Time (US &**

8270C	08/12/21 15:00	5	08/18/21 11:05	
-------	----------------	---	----------------	--

Cr6-7199	08/12/21 15:00	5	09/03/21 11:05	
----------	----------------	---	----------------	--

**T212463-03 B-1 @ 15' [Soil] Sampled 08/04/21 11:10 (GMT-08:00) Pacific Time (US &**

8270C	08/12/21 15:00	5	08/18/21 11:10	
-------	----------------	---	----------------	--

Cr6-7199	08/12/21 15:00	5	09/03/21 11:10	
----------	----------------	---	----------------	--

**T212463-04 B-2 @ 5' [Soil] Sampled 08/04/21 10:25 (GMT-08:00) Pacific Time (US &**

8270C	08/12/21 15:00	5	08/18/21 10:25	
-------	----------------	---	----------------	--

Cr6-7199	08/12/21 15:00	5	09/03/21 10:25	
----------	----------------	---	----------------	--

**T212463-05 B-2 @ 10' [Soil] Sampled 08/04/21 10:30 (GMT-08:00) Pacific Time (US &**

8270C	08/12/21 15:00	5	08/18/21 10:30	
-------	----------------	---	----------------	--

Cr6-7199	08/12/21 15:00	5	09/03/21 10:30	
----------	----------------	---	----------------	--

**WORK ORDER**

**T212463**

<b>Client:</b> Jones Environmental	<b>Project Manager:</b> Mike Jaroudi
<b>Project:</b> 1933 N. Temple Ave.	<b>Project Number:</b> ST-17934

Analysis	Due	TAT	Expires	Comments
<b>T212463-06 B-2 @ 15' [Soil] Sampled 08/04/21 10:35 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 10:35	
Cr6-7199	08/12/21 15:00	5	09/03/21 10:35	
<b>T212463-07 B-3 @ 5' [Soil] Sampled 08/04/21 07:10 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 07:10	
Cr6-7199	08/12/21 15:00	5	09/03/21 07:10	
<b>T212463-08 B-3 @ 10' [Soil] Sampled 08/04/21 07:15 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 07:15	
Cr6-7199	08/12/21 15:00	5	09/03/21 07:15	
<b>T212463-09 B-3 @ 15' [Soil] Sampled 08/04/21 07:20 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 07:20	
Cr6-7199	08/12/21 15:00	5	09/03/21 07:20	
<b>T212463-10 B-4 @ 5' [Soil] Sampled 08/04/21 07:35 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 07:35	
Cr6-7199	08/12/21 15:00	5	09/03/21 07:35	
<b>T212463-11 B-4 @ 10' [Soil] Sampled 08/04/21 07:40 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 07:40	
Cr6-7199	08/12/21 15:00	5	09/03/21 07:40	
<b>T212463-12 B-4 @ 15' [Soil] Sampled 08/04/21 07:45 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 07:45	
Cr6-7199	08/12/21 15:00	5	09/03/21 07:45	
<b>T212463-13 B-5 @ 5' [Soil] Sampled 08/04/21 07:50 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 07:50	
Cr6-7199	08/12/21 15:00	5	09/03/21 07:50	

**WORK ORDER**

**T212463**

**Client: Jones Environmental**  
**Project: 1933 N. Temple Ave.**

**Project Manager: Mike Jaroudi**  
**Project Number: ST-17934**

Analysis	Due	TAT	Expires	Comments
<b>T212463-14 B-5 @ 10' [Soil] Sampled 08/04/21 07:55 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 07:55	
Cr6-7199	08/12/21 15:00	5	09/03/21 07:55	
<b>T212463-15 B-5 @ 15' [Soil] Sampled 08/04/21 08:00 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 08:00	
Cr6-7199	08/12/21 15:00	5	09/03/21 08:00	
<b>T212463-16 B-6 @ 5' [Soil] Sampled 08/04/21 10:00 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 10:00	
Cr6-7199	08/12/21 15:00	5	09/03/21 10:00	
<b>T212463-17 B-6 @ 10' [Soil] Sampled 08/04/21 10:05 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 10:05	
Cr6-7199	08/12/21 15:00	5	09/03/21 10:05	
<b>T212463-18 B-6 @ 15' [Soil] Sampled 08/04/21 10:10 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 10:10	
Cr6-7199	08/12/21 15:00	5	09/03/21 10:10	
<b>T212463-19 B-7 @ 5' [Soil] Sampled 08/04/21 09:30 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 09:30	
Cr6-7199	08/12/21 15:00	5	09/03/21 09:30	
<b>T212463-20 B-7 @ 10' [Soil] Sampled 08/04/21 09:35 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 09:35	
Cr6-7199	08/12/21 15:00	5	09/03/21 09:35	
<b>T212463-21 B-7 @ 15' [Soil] Sampled 08/04/21 09:40 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 09:40	
Cr6-7199	08/12/21 15:00	5	09/03/21 09:40	

**WORK ORDER**

**T212463**

<b>Client:</b> Jones Environmental	<b>Project Manager:</b> Mike Jaroudi
<b>Project:</b> 1933 N. Temple Ave.	<b>Project Number:</b> ST-17934

Analysis	Due	TAT	Expires	Comments
<b>T212463-22 B-8 @ 5' [Soil] Sampled 08/04/21 08:55 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 08:55	
Cr6-7199	08/12/21 15:00	5	09/03/21 08:55	
<b>T212463-23 B-8 @ 10' [Soil] Sampled 08/04/21 09:00 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 09:00	
Cr6-7199	08/12/21 15:00	5	09/03/21 09:00	
<b>T212463-24 B-8 @ 15' [Soil] Sampled 08/04/21 09:05 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 09:05	
Cr6-7199	08/12/21 15:00	5	09/03/21 09:05	
<b>T212463-25 B-9 @ 5' [Soil] Sampled 08/04/21 11:35 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 11:35	
Cr6-7199	08/12/21 15:00	5	09/03/21 11:35	
<b>T212463-26 B-9 @ 10' [Soil] Sampled 08/04/21 11:40 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 11:40	
Cr6-7199	08/12/21 15:00	5	09/03/21 11:40	
<b>T212463-27 B-9 @ 15' [Soil] Sampled 08/04/21 11:45 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 11:45	
Cr6-7199	08/12/21 15:00	5	09/03/21 11:45	
<b>T212463-28 B-9 @ 20' [Soil] Sampled 08/04/21 11:50 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 11:50	
Cr6-7199	08/12/21 15:00	5	09/03/21 11:50	
<b>T212463-29 B-10 @ 5' [Soil] Sampled 08/04/21 08:15 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 08:15	
Cr6-7199	08/12/21 15:00	5	09/03/21 08:15	

**WORK ORDER**

**T212463**

<b>Client:</b> Jones Environmental	<b>Project Manager:</b> Mike Jaroudi
<b>Project:</b> 1933 N. Temple Ave.	<b>Project Number:</b> ST-17934

Analysis	Due	TAT	Expires	Comments
<b>T212463-30 B-10 @ 10' [Soil] Sampled 08/04/21 08:20 (GMT-08:00) Pacific Time (US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 08:20	
Cr6-7199	08/12/21 15:00	5	09/03/21 08:20	
<b>T212463-31 B-10 @ 15' [Soil] Sampled 08/04/21 08:25 (GMT-08:00) Pacific Time (US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 08:25	
Cr6-7199	08/12/21 15:00	5	09/03/21 08:25	
<b>T212463-32 B-10 @ 20' [Soil] Sampled 08/04/21 08:30 (GMT-08:00) Pacific Time (US &amp;</b>				
8270C	08/12/21 15:00	5	08/18/21 08:30	
Cr6-7199	08/12/21 15:00	5	09/03/21 08:30	



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** D. L. Science, Inc.  
**Client Address:** 532 W. Maple Ave.  
El Segundo, CA 90245

**Report date:** 10/29/2021  
**Jones Ref. No.:** ST-18477

**Attn:** Dave Lucero

**Date Sampled:** 10/21/2021  
**Date Received:** 10/21/2021

**Project:** 1933 Temple Ave.  
**Project Address:** 1933 Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 10/26/2021  
**Physical State:** Soil

---

**ANALYSES REQUESTED**

**Soil:**

EPA 7471A - Mercury by Cold Vapor Atomic Absorption

Approval:

A handwritten signature in black ink, appearing to read "Colby Wakeman", is written over a horizontal line.

Colby Wakeman  
QA/QC Manager



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** D. L. Science, Inc.  
**Client Address:** 532 W. Maple Ave.  
El Segundo, CA 90245

**Report date:** 10/29/2021  
**Jones Ref. No.:** ST-18477

**Attn:** Dave Lucero

**Date Sampled:** 10/21/2021

**Date Received:** 10/21/2021

**Project:** 1933 Temple Ave.  
**Project Address:** 1933 Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 10/26/2021

**Physical State:** Soil

---

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

---

<u>Sample ID:</u>	SS-1@5'	SS-1@10'	SS-1@15'	SS-1@20'	SS-2@5'		
<u>Jones ID:</u>	ST-18477-01	ST-18477-02	ST-18477-03	ST-18477-04	ST-18477-05	<u>Reporting Limit</u>	<u>Units</u>
Mercury, Hg	0.786	0.022	0.038	0.028	0.081	0.020	mg/kg
<u>Dilution Factor</u>	1	1	1	1	1		
<u>Batch:</u>	H21102501	H21102501	H21102501	H21102501	H21102501		

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** D. L. Science, Inc.  
**Client Address:** 532 W. Maple Ave.  
El Segundo, CA 90245

**Report date:** 10/29/2021  
**Jones Ref. No.:** ST-18477

**Attn:** Dave Lucero

**Date Sampled:** 10/21/2021

**Date Received:** 10/21/2021

**Project:** 1933 Temple Ave.

**Date Analyzed:** 10/26/2021

**Project Address:** 1933 Temple Ave.  
Signal Hill, CA

**Physical State:** Soil

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

<u>Sample ID:</u>	SS-2@10'	SS-2@15'	SS-2@20'	SS-3@5'	SS-3@10'		
<u>Jones ID:</u>	ST-18477-06	ST-18477-07	ST-18477-08	ST-18477-09	ST-18477-10	<u>Reporting Limit</u>	<u>Units</u>
Mercury, Hg	ND	ND	0.023	0.061	ND	0.020	mg/kg
<u>Dilution Factor</u>	1	1	1	1	1		
<u>Batch:</u>	H21102501	H21102501	H21102501	H21102501	H21102501		

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** D. L. Science, Inc.  
**Client Address:** 532 W. Maple Ave.  
El Segundo, CA 90245

**Report date:** 10/29/2021  
**Jones Ref. No.:** ST-18477

**Attn:** Dave Lucero

**Date Sampled:** 10/21/2021  
**Date Received:** 10/21/2021

**Project:** 1933 Temple Ave.  
**Project Address:** 1933 Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 10/26/2021  
**Physical State:** Soil

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

<u>Sample ID:</u>	SS-3@15'	SS-3@20'	SS-4@5'	SS-4@10'	SS-4@15'		
<u>Jones ID:</u>	ST-18477-11	ST-18477-12	ST-18477-13	ST-18477-14	ST-18477-15	<u>Reporting Limit</u>	<u>Units</u>
Mercury, Hg	0.027	0.024	0.061	0.030	ND	0.020	mg/kg
<u>Dilution Factor</u>	1	1	1	1	1		
<u>Batch:</u>	H21102501	H21102501	H21102501	H21102501	H21102501		

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** D. L. Science, Inc.  
**Client Address:** 532 W. Maple Ave.  
El Segundo, CA 90245

**Report date:** 10/29/2021  
**Jones Ref. No.:** ST-18477

**Attn:** Dave Lucero

**Date Sampled:** 10/21/2021  
**Date Received:** 10/21/2021

**Project:** 1933 Temple Ave.  
**Project Address:** 1933 Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 10/26/2021  
**Physical State:** Soil

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

**Sample ID:** SS-4@20'

**Jones ID:** ST-18477-16

**Reporting Limit**      **Units**

Mercury, Hg                      **0.025**

0.020                      mg/kg

**Dilution Factor**                      1

**Batch:** H21102501

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

**Client:** D. L. Science, Inc.  
**Client Address:** 532 W. Maple Ave.  
El Segundo, CA 90245

**Report date:** 10/29/2021  
**Jones Ref. No.:** ST-18477

**Attn:** Dave Lucero  
**Project:** 1933 Temple Ave.  
**Project Address:** 1933 Temple Ave.  
Signal Hill, CA

**Date Sampled:** 10/21/2021  
**Date Received:** 10/21/2021  
**Date Analyzed:** 10/26/2021  
**Physical State:** Soil

**BATCH:** H21102501      **Prepared:** 10/25/2021      **Analyzed:** 10/26/2021

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Reporting Limit	Units
<b>METHOD BLANK:</b>	<b>H211025-MB1</b>						
Mercury, Hg	ND					0.020	mg/kg
<b>LCS:</b>	<b>H211025-LCS1</b>						
Mercury, Hg	0.99	1.00	99%		80 - 120		mg/kg
<b>LCSD:</b>	<b>H211025-LCSD1</b>						
Mercury, Hg	0.94	1.00	94%	4.9%	80 - 120		mg/kg
<b>CCV:</b>	<b>H211025-CCV1</b>						
Mercury, Hg	5.15	5.00	103%		90-110		µg/L

ND= Not Detected  
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

LCS = Laboratory Control Sample  
LCSD= Laboratory Control Sample Duplicate  
CCV = Continuing Calibration Verification  
RPD = Relative Percent Difference



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# Chain-of-Custody Record

**Client** DL SCIENCE, INC.  
**Project Name** 1933 TEMPLE AVE.  
**Project Address** 1933 TEMPLE AVE.  
 SIGNAL HILL, CA.  
**Email** dlucero@sbcglobal.net  
**Phone** (918) 731-9644  
**Report To** DAVID LUCERO **Sampler** DL LUCERO

**Date** 10/21/21  
**Client Project #**  
**Sample Container / Preservative Abbreviations**  
 AS - Acetate Sleeve  
 SS - Stainless Steel Sleeve  
 BS - Brass Sleeve  
 G - Glass  
 AB - Amber Bottle  
 P - Plastic  
 SOBI - Sodium Bisulfate  
 MeOH - Methanol  
 HCl - Hydrochloric Acid  
 HNO3 - Nitric Acid  
 O - Other (See Notes)

**Turn Around Requested:**

- Immediate Attention
- Rush 24 Hours
- Rush 48 Hours
- Rush 72 Hours
- Normal

**Report Options**

EDD \_\_\_\_\_  
 EDF\* - 10% Surcharge \_\_\_\_\_  
 \*Global ID \_\_\_\_\_

LAB USE ONLY

Jones Project #

ST-18477

Page

1 of 2

Sample Condition as Received:

Chilled  yes  no  
 Sealed  yes  no

Sample ID	Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	Analysis Requested	Number of Containers	Notes & Special Instructions
SS-1 @ 5'	10/21/21	0810	ST-18477-01	-	AS	↓ TOTAL MERCURY (7477A)	X	1	
10'		0815	ST-18477-02				X	1	
15'		0820	ST-18477-03				X	1	
20'		0825	ST-18477-04				X	1	
SS-2 @ 5'		0845	ST-18477-05				X	1	
10'		0850	ST-18477-06				X	1	
15'		0855	ST-18477-07				X	1	
20'		0900	ST-18477-08				X	1	
SS-3 @ 5'		0910	ST-18477-09				X	1	
10'		0915	ST-18477-10				X	1	

**Relinquished By (Signature)** [Signature] **Printed Name** DL LUCERO **Received By (Signature)** [Signature] **Printed Name** Kiara  
**Company** DL SCIENCE, INC. **Date** 10/21/21 **Time** 12:00 hr **Company** [Signature] **Date** 10/21/21 **Time** 12:00  
**Relinquished By (Signature)** [Signature] **Printed Name** [Signature] **Received By Laboratory (Signature)** [Signature] **Printed Name** Kiara  
**Company** [Signature] **Date** 10/21/21 **Time** 12:00 **Company** [Signature] **Date** 10/21/21 **Time** 12:00

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.



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# Chain-of-Custody Record

**Client** DL SCIENCE, INC.  
**Date** 10/21/21  
**Project Name** 1933 TEMPLE AVE.  
**Client Project #** \_\_\_\_\_  
**Project Address** 1933 TEMPLE AVE.  
 SIGNAL HILL, CA  
**Email** dlucero@sbcglobal.net  
**Phone** (818) 731-9644  
**Report To** DAVID LUCERO **Sampler** DL LUCERO

**Turn Around Requested:**

- Immediate Attention
- Rush 24 Hours
- Rush 48 Hours
- Rush 72 Hours
- Normal

**Report Options**

EDD \_\_\_\_\_  
 EDF\* - 10% Surcharge \_\_\_\_\_  
 \*Global ID \_\_\_\_\_

LAB USE ONLY

Jones Project #

ST-18477

Page

2 of 2

Sample Condition as Received:

Chilled  yes  no  
 Sealed  yes  no

**Sample Container / Preservative Abbreviations**

- AS - Acetate Sleeve
- SS - Stainless Steel Sleeve
- BS - Brass Sleeve
- G - Glass
- AB - Amber Bottle
- P - Plastic
- SOBI - Sodium Bisulfate
- MeOH - Methanol
- HCl - Hydrochloric Acid
- HNO3 - Nitric Acid
- O - Other (See Notes)

**Analysis Requested**

Sample Matrix:  
 Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)

TOTAL MERCURY (TH71A)

Number of Containers

Sample ID	Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Analysis Requested	Number of Containers	Notes & Special Instructions
SS-3 @ 15'	10/21/21	0920	ST-18477-11	-	AS	X	1	
20'		0925	ST-18477-12			X		
SS-4 @ 5'		0940	ST-18477-13			X		
10'		0945	ST-18477-14			X		
15'		0950	ST-18477-15			X		
20'		0955	ST-18477-16			X		

**Relinquished By (Signature)** [Signature] **Printed Name** DL LUCERO **Received By (Signature)** [Signature] **Printed Name** Kiara  
**Company** DL SCIENCE, INC. **Date** 10/21/21 **Time** 12:00 hr. **Company** **Date** 10/21/21 **Time** 12:00  
**Relinquished By (Signature)** [Signature] **Printed Name** **Received By Laboratory (Signature)** [Signature] **Printed Name** Kiara  
**Company** **Date:** **Time** **Company** 8 of 8 **Date** 10/21/21 **Time** 12:00

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** D. L. Science, Inc.  
**Client Address:** 532 W. Maple Ave  
El Segundo, CA 90245

**Report date:** 12/20/2021  
**Jones Ref. No.:** ST-18854

**Attn:** Dave Lucero

**Date Sampled:** 12/20/2021  
**Date Received:** 12/20/2021

**Project:** 1933 Temple Ave.  
**Project Address:** 1933 Temple Ave.  
Signal Hill, CA 90755

**Date Analyzed:** 12/20/2021  
**Physical State:** Soil

---

**ANALYSES REQUESTED**

**Soil:**

1. EPA 7471A - Mercury by Cold Vapor Atomic Absorption

Approval:

Colby Wakeman  
QA/QC Manager



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** D. L. Science, Inc.  
**Client Address:** 532 W. Maple Ave  
El Segundo, CA 90245

**Report date:** 12/20/2021  
**Jones Ref. No.:** ST-18854

**Attn:** Dave Lucero

**Date Sampled:** 12/20/2021  
**Date Received:** 12/20/2021

**Project:** 1933 Temple Ave.  
**Project Address:** 1933 Temple Ave.  
Signal Hill, CA 90755

**Date Analyzed:** 12/20/2021  
**Physical State:** Soil

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

<u>Sample ID:</u>	SW-1	SW-2	SW-3	SW-4	Bottom-1		
<u>Jones ID:</u>	ST-18854-01	ST-18854-02	ST-18854-03	ST-18854-04	ST-18854-05	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b> Mercury, Hg	<b>1.43</b>	<b>0.935</b>	<b>2.28*</b>	<b>0.025</b>	<b>2.02*</b>	0.020	mg/kg
<b><u>Dilution Factor</u></b>	1	1	2*	1	2*		
<b><u>Batch:</u></b>	H21122001	H21122001	H21122001	H21122001	H21122001		

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

**Client:** D. L. Science, Inc.  
**Client Address:** 532 W. Maple Ave  
El Segundo, CA 90245

**Report date:** 12/20/2021  
**Jones Ref. No.:** ST-18854

**Attn:** Dave Lucero

**Date Sampled:** 12/20/2021  
**Date Received:** 12/20/2021

**Project:** 1933 Temple Ave.  
**Project Address:** 1933 Temple Ave.  
Signal Hill, CA 90755

**Date Analyzed:** 12/20/2021  
**Physical State:** Soil

**BATCH:** H2122001      **Prepared:** 12/20/2021      **Analyzed:** 12/20/2021

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Reporting Limit	Units
<b>METHOD BLANK:</b>	<b>H211220-MB1</b>						
Mercury, Hg	ND					0.020	mg/kg

<b>LCS:</b>	<b>H211220-LCS1</b>						
Mercury, Hg	1.00	1.00	100%		80 - 120		mg/kg

<b>LCSD:</b>	<b>H211220-LCSD1</b>						
Mercury, Hg	1.03	1.00	103%	3.0%	80 - 120		mg/kg

<b>CCV:</b>	<b>H211220-CCV1</b>						
Mercury, Hg	5.21	5.00	104%		90-110		µg/L

ND= Not Detected  
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

LCS = Laboratory Control Sample  
LCSD= Laboratory Control Sample Duplicate  
CCV = Continuing Calibration Verification  
RPD = Relative Percent Difference



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 Fax (714) 449-9685  
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# Chain-of-Custody Record

**Client** DL SCIENCE, INC.  
**Project Name** 1933 TEMPLE AVE  
**Project Address** 1933 TEMPLE AVE.  
 SIONTLEHILL, CA 90705  
**Email** dlucero@sbcglobal.net  
**Phone** (818) 731-9644  
**Report To** DANIEL LUCERO **Sampler** DL LUCERO

**Date** 12/20/21  
**Client Project #** —  
**Sample Container / Preservative Abbreviations**  
 AS - Acetate Sleeve  
 SS - Stainless Steel Sleeve  
 BS - Brass Sleeve  
 G - Glass  
 AB - Amber Bottle  
 P - Plastic  
 SOBI - Sodium Bisulfate  
 MeOH - Methanol  
 HCl - Hydrochloric Acid  
 HNO3 - Nitric Acid  
 O - Other (See Notes)

**Turn Around Requested:**

- Immediate Attention
- Rush 24 Hours
- Rush 48 Hours
- Rush 72 Hours
- Normal

**Report Options**

EDD \_\_\_\_\_  
 EDF\* - 10% Surcharge \_\_\_\_\_  
 \*Global ID \_\_\_\_\_

LAB USE ONLY

**Jones Project #**

ST-18054

Page

1 of 1

Sample Condition as Received:

- Chilled  yes  no
- Sealed  yes  no

**Analysis Requested**

Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	Analysis Requested
TOTAL METAL ANALYSIS (SEE NOTES)	X
	X
	X
	X
	X

Sample ID	Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Number of Containers	Notes & Special Instructions
SW-1	12/20/21	0815	ST-18054-01		SS S	1	
SW-2		0817	ST-18054-02		S	1	
SW-3		0819	ST-18054-03		S	1	
SW-4		0821	ST-18054-04		S	1	
BOTTOM-1		0823	ST-18054-05		S	1	

Relinquished By (Signature) Printed Name DL LUCERO

Received By (Signature) \_\_\_\_\_ Printed Name \_\_\_\_\_

5 Total Number of Containers

Company DL SCIENCE, INC. Date 12/20/21 Time 0900hr.

Company \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Relinquished By (Signature) \_\_\_\_\_ Printed Name \_\_\_\_\_

Received By Laboratory (Signature) Printed Name JET CHRIS JONES

Company \_\_\_\_\_ Date: \_\_\_\_\_ Time \_\_\_\_\_

Company JET Date 12/20/21 Time 0900

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** D. L. Science, Inc.  
**Client Address:** 532 W. Maple Ave  
El Segundo, CA 90245

**Report date:** 12/20/2021  
**Jones Ref. No.:** ST-18859

**Attn:** Dave Lucero  
**Project:** 1933 Temple Ave.  
**Project Address:** 1933 Temple Ave.  
Signal Hill, CA 90755

**Date Sampled:** 12/20/2021  
**Date Received:** 12/20/2021  
**Date Analyzed:** 12/20/2021  
**Physical State:** Soil

---

**ANALYSES REQUESTED**

**Soil:**

1. EPA 7471A – CAM 17 Metals

Approval:

Colby Wakeman  
QA/QC Manager



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** D. L. Science, Inc.  
**Client Address:** 532 W. Maple Ave  
El Segundo, CA 90245

**Report date:** 12/20/2021  
**Jones Ref. No.:** ST-18859

**Attn:** Dave Lucero

**Date Sampled:** 12/20/2021  
**Date Received:** 12/20/2021

**Project:** 1933 Temple Ave.  
**Project Address:** 1933 Temple Ave.  
Signal Hill, CA 90755

**Date Analyzed:** 12/20/2021  
**Physical State:** Soil

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

<u>Sample ID:</u>	NW-2	SOUTH WALL-2	BOTTOM-2	<u>Reporting Limit</u>	<u>Units</u>
<u>Jones ID:</u>	ST-18859-01	ST-18859-02	ST-18859-03		
<u>Analytes:</u>					
Mercury, Hg	<b>0.044</b>	<b>3.910</b>	ND	0.020	mg/kg
<u>Dilution Factor</u>	1	4	1		
<u>Batch:</u>	H21122003	H21122003	H21122003		

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

**Client:** D. L. Science, Inc.  
**Client Address:** 532 W. Maple Ave  
El Segundo, CA 90245

**Report date:** 12/20/2021  
**Jones Ref. No.:** ST-18859

**Attn:** Dave Lucero

**Date Sampled:** 12/20/2021

**Project:** 1933 Temple Ave.  
**Project Address:** 1933 Temple Ave.  
Signal Hill, CA 90755

**Date Received:** 12/20/2021

**Date Analyzed:** 12/20/2021

**Physical State:** Soil

**BATCH:** H2122003      **Prepared:** 12/20/2021      **Analyzed:** 12/20/2021

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Reporting Limit	Units
<b>METHOD BLANK:</b>	<b>H211220-MB3</b>						
Mercury, Hg	ND					0.020	mg/kg

<b>LCS:</b>	<b>H211220-LCS3</b>						
Mercury, Hg	0.96	1.00	96%		80 - 120		mg/kg

<b>LCSD:</b>	<b>H211220-LCSD3</b>						
Mercury, Hg	0.99	1.00	99%	3.1%	80 - 120		mg/kg

<b>CCV:</b>	<b>H211220-CCV3</b>						
Mercury, Hg	5.11	5.00	102%		90-110		µg/L

ND= Not Detected  
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

LCS = Laboratory Control Sample  
LCSD= Laboratory Control Sample Duplicate  
CCV = Continuing Calibration Verification  
RPD = Relative Percent Difference





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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:** 532 W Maple Ave  
El Segundo, CA

**Report date:** 12/27/2021  
**Jones Ref. No.:** ST-18876

**Attn:** DL Lucero

**Date Sampled:** 12/21/2021  
**Date Received:** 12/21/2021

**Project:** 1933 Temple Ave.  
**Project Address:** 1933 Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 12/22/2021  
**Physical State:** Soil

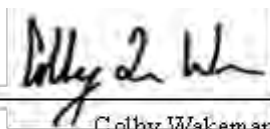
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**ANALYSES REQUESTED**

**Soil:**

1. EPA 8015M – Extended Range Hydrocarbons
2. EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics
3. EPA 6010B by 3050B and EPA 7471A – CAM 17 Metals

Approval

  
Colby Wakeman  
Lab Director



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:** 532 W Maple Ave  
El Segundo, CA

**Report date:** 12/27/2021  
**Jones Ref. No.:** ST-18876

**Attn:** DL Lucero  
**Project:** 1933 Temple Ave.  
**Project Address:** 1933 Temple Ave.  
Signal Hill, CA

**Date Sampled:** 12/21/2021  
**Date Received:** 12/21/2021  
**Date Analyzed:** 12/22/2021  
**Physical State:** Soil

**EPA 8015M - Extended Range Hydrocarbons**

**Sample ID:** South Wall  
@ 8.5'

**Jones ID:** ST-18876-02

**Reporting Limit**      **Units**

**Carbon Chain Range**

C13 - C22	<b>282</b>	10.0	mg/kg
C23 - C40	<b>656</b>	10.0	mg/kg

**Dilution Factor**                      1

<b>Surrogate Recovery:</b>		<b>QC Limits</b>
Hexacosane	37%	30 - 120

**Batch:** FID7\_  
122221\_01

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	12/27/2021
<b>Client Address:</b>	532 W Maple Ave El Segundo, CA	<b>Jones Ref. No.:</b>	ST-18876
<b>Attn:</b>	DL Lucero	<b>Date Sampled:</b>	12/21/2021
<b>Project:</b>	1933 Temple Ave.	<b>Date Received:</b>	12/21/2021
<b>Project Address:</b>	1933 Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	12/22/2021
		<b>Physical State:</b>	Soil

**EPA 8015M - Extended Range Hydrocarbons**

<b>Sample ID:</b>	<b>METHOD</b> BLANK #1		
<b>Jones ID:</b>	MB1- 122221FID7	<b>Reporting Limit</b>	<b>Units</b>
<b>Carbon Chain Range</b>			
C13 - C22	ND	10.0	mg/kg
C23 - C40	ND	10.0	mg/kg
<b>Dilution Factor</b>	1		
<b>Surrogate Recovery:</b>		<b>QC Limits</b>	
Hexacosane	72%	30 - 120	
<b>Batch:</b>	FID7_ 122221_01		

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	12/27/2021
<b>Client Address:</b>	532 W Maple Ave El Segundo, CA	<b>Jones Ref. No.:</b>	ST-18876
<b>Attn:</b>	DL Lucero	<b>Date Sampled:</b>	12/21/2021
<b>Project:</b>	1933 Temple Ave.	<b>Date Received:</b>	12/21/2021
<b>Project Address:</b>	1933 Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	12/22/2021
		<b>Physical State:</b>	Soil

**BATCH:** FID7\_122221\_01      **Prepared:** 12/22/2021      **Analyzed:** 12/22/2021

**EPA 8015M - Extended Range Hydrocarbons**

	Result	Spike Level	% Recovery	% RPD	% Recovery Limits	Units
<b>LCS:</b>	LCS1-122221FID7	<b>SAMPLE SPIKED:</b>	CLEAN SOIL			
<b>Analyte:</b>						
Diesel (C10 - C28)	455	500	91%		60 - 140	mg/kg
<b>Surrogate Recovery:</b>						
Hexacosane			87%		30 - 120	
<b>LCSD:</b>	LCSD1-122221FID7	<b>SAMPLE SPIKED:</b>	CLEAN SOIL			
<b>Analyte:</b>						
Diesel (C10 - C28)	449	500	90%	1.3%	60 - 140	mg/kg
<b>Surrogate Recoveries:</b>						
Hexacosane			105%		30 - 120	
<b>CCV:</b>	CCV1-122221FID7					
<b>Analyte:</b>						
Diesel (C10 - C28)	1010	1000	101%		80 - 120	mg/kg

LCS = Laboratory Control Sample  
LCSD= Laboratory Control Sample Duplicate  
CCV = Continuing Calibration Verification  
RPD = Relative Percent Difference



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**JONES ENVIRONMENTAL LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:** 532 W Maple Ave  
El Segundo, CA

**Report date:** 12/27/2021  
**Jones Ref. No.:** ST-18876

**Attn:** DL Lucero

**Date Sampled:** 12/21/2021  
**Date Received:** 12/21/2021

**Project:** 1933 Temple Ave.  
**Project Address:** 1933 Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 12/22/2021  
**Physical State:** Soil

**EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics**

**Sample ID:** South Wall  
@ 8.5'

**Jones ID:** ST-18876-02

<b>Jones ID:</b>	<b>ST-18876-02</b>	<b>Reporting Limit</b>	<b>Units</b>
<b>Analytes:</b>			
Benzene	ND	1.0	µg/kg
Bromobenzene	ND	1.0	µg/kg
Bromodichloromethane	ND	1.0	µg/kg
Bromoform	ND	1.0	µg/kg
n-Butylbenzene	ND	1.0	µg/kg
sec-Butylbenzene	ND	1.0	µg/kg
tert-Butylbenzene	ND	1.0	µg/kg
Carbon tetrachloride	ND	1.0	µg/kg
Chlorobenzene	ND	1.0	µg/kg
Chloroform	ND	1.0	µg/kg
2-Chlorotoluene	ND	1.0	µg/kg
4-Chlorotoluene	ND	1.0	µg/kg
Dibromochloromethane	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	1.0	µg/kg
Dibromomethane	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	1.0	µg/kg
1,1-Dichloroethane	ND	1.0	µg/kg
1,2-Dichloroethane	ND	1.0	µg/kg
1,1-Dichloroethene	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	1.0	µg/kg
1,2-Dichloropropane	ND	1.0	µg/kg
1,3-Dichloropropane	ND	1.0	µg/kg
2,2-Dichloropropane	ND	1.0	µg/kg
1,1-Dichloropropene	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	1.0	µg/kg

# JONES ENVIRONMENTAL LABORATORY RESULTS

## EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

**Sample ID:** South Wall  
@ 8.5'

**Jones ID:** ST-18876-02

<b>Analytes:</b>		<b>Reporting Limit</b>	<b>Units</b>
trans-1,3-Dichloropropene	ND	1.0	µg/kg
Ethylbenzene	ND	1.0	µg/kg
Freon 11	ND	5.0	µg/kg
Freon 12	ND	5.0	µg/kg
Freon 113	ND	5.0	µg/kg
Hexachlorobutadiene	ND	1.0	µg/kg
Isopropylbenzene	ND	1.0	µg/kg
4-Isopropyltoluene	ND	1.0	µg/kg
Methylene chloride	ND	1.0	µg/kg
Naphthalene	ND	1.0	µg/kg
n-Propylbenzene	ND	1.0	µg/kg
Styrene	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	1.0	µg/kg
Tetrachloroethene	ND	1.0	µg/kg
Toluene	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	1.0	µg/kg
Trichloroethene	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	1.0	µg/kg
Vinyl chloride	ND	1.0	µg/kg
m,p-Xylene	ND	2.0	µg/kg
o-Xylene	ND	1.0	µg/kg
Methyl-tert-butylether	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	5.0	µg/kg
Di-isopropylether	ND	5.0	µg/kg
tert-amylmethylether	ND	5.0	µg/kg
tert-Butylalcohol	ND	50.0	µg/kg
Gasoline Range Organics (C4-C12)	ND	0.20	mg/kg

**Dilution Factor** 1

**Surrogate Recoveries:**

		<b>QC Limits</b>
Dibromofluoromethane	135%	60 - 140
Toluene-d <sub>8</sub>	103%	60 - 140
4-Bromofluorobenzene	78%	60 - 140

**Batch:** VOC5\_122221\_  
01

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:** 532 W Maple Ave  
El Segundo, CA

**Report date:** 12/27/2021  
**Jones Ref. No.:** ST-18876

**Attn:** DL Lucero

**Date Sampled:** 12/21/2021

**Date Received:** 12/21/2021

**Project:** 1933 Temple Ave.  
**Project Address:** 1933 Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 12/22/2021

**Physical State:** Soil

**EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics**

<u>Sample ID:</u>	<u>METHOD</u>		
	<b>BLANK #1</b>		
<b>Jones ID:</b>	122221- V5MB1		
<b>Analytes:</b>		<u>Reporting Limit</u>	<u>Units</u>
Benzene	ND	1.0	µg/kg
Bromobenzene	ND	1.0	µg/kg
Bromodichloromethane	ND	1.0	µg/kg
Bromoform	ND	1.0	µg/kg
n-Butylbenzene	ND	1.0	µg/kg
sec-Butylbenzene	ND	1.0	µg/kg
tert-Butylbenzene	ND	1.0	µg/kg
Carbon tetrachloride	ND	1.0	µg/kg
Chlorobenzene	ND	1.0	µg/kg
Chloroform	ND	1.0	µg/kg
2-Chlorotoluene	ND	1.0	µg/kg
4-Chlorotoluene	ND	1.0	µg/kg
Dibromochloromethane	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	1.0	µg/kg
Dibromomethane	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	1.0	µg/kg
1,1-Dichloroethane	ND	1.0	µg/kg
1,2-Dichloroethane	ND	1.0	µg/kg
1,1-Dichloroethene	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	1.0	µg/kg
1,2-Dichloropropane	ND	1.0	µg/kg
1,3-Dichloropropane	ND	1.0	µg/kg
2,2-Dichloropropane	ND	1.0	µg/kg
1,1-Dichloropropene	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	1.0	µg/kg

**JONES ENVIRONMENTAL LABORATORY RESULTS**

**EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics**

<b><u>Sample ID:</u></b>	<b>METHOD</b>		
	<b>BLANK #1</b>		
<b><u>Jones ID:</u></b>	<b>122221- V5MB1</b>		
<b><u>Analytes:</u></b>		<b><u>Reporting Limit</u></b>	<b><u>Units</u></b>
trans-1,3-Dichloropropene	ND	1.0	µg/kg
Ethylbenzene	ND	1.0	µg/kg
Freon 11	ND	5.0	µg/kg
Freon 12	ND	5.0	µg/kg
Freon 113	ND	5.0	µg/kg
Hexachlorobutadiene	ND	1.0	µg/kg
Isopropylbenzene	ND	1.0	µg/kg
4-Isopropyltoluene	ND	1.0	µg/kg
Methylene chloride	ND	1.0	µg/kg
Naphthalene	ND	1.0	µg/kg
n-Propylbenzene	ND	1.0	µg/kg
Styrene	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	1.0	µg/kg
Tetrachloroethene	ND	1.0	µg/kg
Toluene	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	1.0	µg/kg
Trichloroethene	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	1.0	µg/kg
Vinyl chloride	ND	1.0	µg/kg
m,p-Xylene	ND	2.0	µg/kg
o-Xylene	ND	1.0	µg/kg
Methyl-tert-butylether	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	5.0	µg/kg
Di-isopropylether	ND	5.0	µg/kg
tert-amylmethylether	ND	5.0	µg/kg
tert-Butylalcohol	ND	50.0	µg/kg
Gasoline Range Organics (C4-C12)	ND	0.20	mg/kg
<b><u>Dilution Factor</u></b>	<b>1</b>		
<b><u>Surrogate Recoveries:</u></b>		<b><u>QC Limits</u></b>	
Dibromofluoromethane	127%	60 - 140	
Toluene-d <sub>8</sub>	99%	60 - 140	
4-Bromofluorobenzene	76%	60 - 140	

**Batch:** VOC5\_122221\_  
01

ND = Value less than reporting limit



714-449-9937  
562-646-1611

11007 FOREST PLACE  
SANTA FE SPRINGS, CA 90670  
WWW.JONESENV.COM

**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

**Client:** DL Science, Inc.  
**Client Address:** 532 W Maple Ave  
El Segundo, CA

**Report date:** 12/27/2021  
**Jones Ref. No.:** ST-18876

**Attn:** DL Lucero

**Date Sampled:** 12/21/2021  
**Date Received:** 12/21/2021

**Project:** 1933 Temple Ave.  
**Project Address:** 1933 Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 12/22/2021  
**Physical State:** Soil

**EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics**

<b>GC#:</b>	<b>VOC5_122221_01</b>					
<b>Jones ID:</b>	122221-V5LCS1		122221-V5LCS1		122221-V5CCV1	
<b>Parameter</b>	<b>LCS Recovery (%)</b>	<b>LCSD Recovery (%)</b>	<b>RPD</b>	<b>Acceptability Range (%)</b>	<b>CCV</b>	<b>Acceptability Range (%)</b>
Vinyl chloride	92%	93%	2%	60 - 140	105%	80 - 120
1,1-Dichloroethene	117%	119%	2.1%	60 - 140	112%	80 - 120
Cis-1,2-Dichloroethene	114%	115%	0.9%	70 - 130	111%	80 - 120
1,1,1-Trichloroethane	119%	118%	0.7%	70 - 130	116%	80 - 120
Benzene	109%	111%	2.1%	70 - 130	106%	80 - 120
Trichloroethene	110%	112%	1.3%	70 - 130	106%	80 - 120
Toluene	111%	110%	1.1%	70 - 130	100%	80 - 120
Tetrachloroethene	122%	119%	2.1%	70 - 130	120%	80 - 120
Chlorobenzene	117%	110%	5.8%	70 - 130	110%	80 - 120
Ethylbenzene	92%	89%	3.2%	70 - 130	94%	80 - 120
1,2,4 Trimethylbenzene	85%	77%	10.0%	70 - 130	90%	80 - 120
Gasoline Range Organics (C4-C12)	99%	97%	2.6%	70 - 130		
<b><u>Surrogate Recovery:</u></b>						
Dibromofluoromethane	118%	118%		60 - 140	120%	80 - 120
Toluene-d8	101%	101%		60 - 140	106%	80 - 120
4-Bromofluorobenzene	102%	101%		60 - 140	115%	80 - 120

LCS = Laboratory Control Sample  
 LCSD = Laboratory Control Sample Duplicate  
 CCV = Continuing Calibration Verification  
 RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** D.L. Science, Inc.  
**Client Address:** 532 W Maple Ave  
El Segundo, CA

**Report date:** 12/27/2021  
**Jones Ref. No.:** ST-18876

**Attn:** Dave Lucero

**Date Sampled:** 12/21/2021

**Date Received:** 12/21/2021

**Project:** 1933 Temple Ave.  
**Project Address:** 1933 Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 12/22/2021

**Physical State:** Soil

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

**Sample ID:** SW-3 South Wall  
@8.5'

**Jones ID:** ST-18876-01 ST-18876-02

**Reporting Limit**      **Units**

**Analytes:**  
Mercury, Hg                      **0.047**              **0.054**                      0.020              mg/kg

**Dilution Factor**                      1                      1

**Batch:** H21122201      H21122201

ND = Value less than reporting limit



714-449-9937  
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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** D.L. Science, Inc.  
**Client Address:** 532 W Maple Ave  
El Segundo, CA

**Report date:** 12/27/2021  
**Jones Ref. No.:** ST-18876

**Attn:** Dave Lucero

**Date Sampled:** 12/21/2021

**Date Received:** 12/21/2021

**Project:** 1933 Temple Ave.  
**Project Address:** 1933 Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 12/22/2021

**Physical State:** Soil

**EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES**

**Sample ID:** South Wall  
@8.5'

**Jones ID:** ST-18876-02

**Analytes:**

		<u>Reporting Limit</u>	<u>Units</u>
Silver, Ag	ND	0.5	mg/kg
Arsenic, As	ND	5.0	mg/kg
Barium, Ba	<b>42.0</b>	0.5	mg/kg
Beryllium, Be	ND	0.5	mg/kg
Cadmium, Cd	<b>0.6</b>	0.5	mg/kg
Cobalt, Co	<b>3.0</b>	0.5	mg/kg
Chromium, Cr	<b>7.3</b>	0.5	mg/kg
Copper, Cu	<b>6.3</b>	0.5	mg/kg
Molybdenum, Mo	ND	0.5	mg/kg
Nickel, Ni	<b>8.9</b>	0.5	mg/kg
Lead, Pb	<b>8.6</b>	0.5	mg/kg
Antimony, Sb	ND	5.0	mg/kg
Selenium, Se	ND	5.0	mg/kg
Thallium, Tl	ND	5.0	mg/kg
Vanadium, V	<b>16.5</b>	0.5	mg/kg
Zinc, Zn	<b>24.0</b>	0.5	mg/kg
<b>Dilution Factor</b>	1		

**Batch:** I21122203

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

<b>Client:</b>	D.L. Science, Inc.	<b>Report date:</b>	12/27/2021
<b>Client Address:</b>	532 W Maple Ave El Segundo, CA	<b>Jones Ref. No.:</b>	ST-18876
<b>Attn:</b>	Dave Lucero	<b>Date Sampled:</b>	12/21/2021
<b>Project:</b>	1933 Temple Ave.	<b>Date Received:</b>	12/21/2021
<b>Project Address:</b>	1933 Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	12/22/2021
		<b>Physical State:</b>	Soil

**BATCH:** I21122203      **Prepared:** 12/22/2021      **Analyzed:** 12/22/2021

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

Analytes:	Result	Spike Level	% REC	% REC Limits	% RPD	Reporting Limit	Units
<b>METHOD BLANK:</b>	<b>I211222-MB3</b>						
Silver, Ag	ND					0.5	mg/kg
Arsenic, As	ND					5.0	mg/kg
Barium, Ba	ND					0.5	mg/kg
Beryllium, Be	ND					0.5	mg/kg
Cadmium, Cd	ND					0.5	mg/kg
Cobalt, Co	ND					0.5	mg/kg
Chromium, Cr	ND					0.5	mg/kg
Copper, Cu	ND					0.5	mg/kg
Molybdenum, Mo	ND					0.5	mg/kg
Nickel, Ni	ND					0.5	mg/kg
Lead, Pb	ND					0.5	mg/kg
Antimony, Sb	ND					5.0	mg/kg
Selenium, Se	ND					5.0	mg/kg
Thallium, Tl	ND					5.0	mg/kg
Vanadium, V	ND					0.5	mg/kg
Zinc, Zn	ND					0.5	mg/kg

ND= Not Detected



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

<b>Client:</b>	D.L. Science, Inc.	<b>Report date:</b>	12/27/2021
<b>Client Address:</b>	532 W Maple Ave El Segundo, CA	<b>Jones Ref. No.:</b>	ST-18876
<b>Attn:</b>	Dave Lucero	<b>Date Sampled:</b>	12/21/2021
<b>Project:</b>	1933 Temple Ave.	<b>Date Received:</b>	12/21/2021
<b>Project Address:</b>	1933 Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	12/22/2021
		<b>Physical State:</b>	Soil

**BATCH:** I21122203      **Prepared:** 12/22/2021      **Analyzed:** 12/22/2021

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

	Result	Spike Level	% REC	% RPD	% REC Limits	Units
<b>Analyses:</b>						
<b>LCS: I211222-LCS3</b>						
Barium, Ba	190	200	95%		80 - 120	mg/kg
Cobalt, Co	46.6	50.0	93%		80 - 120	mg/kg
Lead, Pb	49.4	50.0	99%		80 - 120	mg/kg
Selenium, Se	170	200	85%		80 - 120	mg/kg
Zinc, Zn	43.9	50.0	88%		80 - 120	mg/kg
<b>LCSD: I211222-LCSD3</b>						
Barium, Ba	193	200	97%	1.6%	80 - 120	mg/kg
Cobalt, Co	48.1	50.0	96%	3.2%	80 - 120	mg/kg
Lead, Pb	48.9	50.0	98%	1.0%	80 - 120	mg/kg
Selenium, Se	170	200	85%		80 - 120	mg/kg
Zinc, Zn	44.6	50.0	89%	1.6%	80 - 120	mg/kg
<b>CCV: I211222-CCV3</b>						
Barium, Ba	0.95	1.00	95%		90-110	mg/L
Cobalt, Co	0.98	1.00	98%		90-110	mg/L
Lead, Pb	0.98	1.00	98%		90-110	mg/L
Selenium, Se	0.93	1.00	93%		90-110	mg/L
Zinc, Zn	0.97	1.00	97%		90-110	mg/L

CCV = Continuing Calibration Verification  
LCS = Laboratory Control Sample  
LCSD= Laboratory Control Sample Duplicate

ND= Not Detected  
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

<b>Client:</b>	D.L. Science, Inc.	<b>Report date:</b>	12/27/2021
<b>Client Address:</b>	532 W Maple Ave El Segundo, CA	<b>Jones Ref. No.:</b>	ST-18876
<b>Attn:</b>	Dave Lucero	<b>Date Sampled:</b>	12/21/2021
<b>Project:</b>	1933 Temple Ave.	<b>Date Received:</b>	12/21/2021
<b>Project Address:</b>	1933 Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	12/22/2021
		<b>Physical State:</b>	Soil

**BATCH:** H21122201      **Prepared:** 12/22/2021      **Analyzed:** 12/22/2021

#REF!

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Reporting Limit	Units
<b>METHOD BLANK:</b>	<b>H211222-MB1</b>						
Mercury, Hg	ND					0.020	mg/kg

<b>LCS:</b>	<b>H211222-LCS1</b>						
Mercury, Hg	0.98	1.00	98%		80 - 120		mg/kg

<b>LCSD:</b>	<b>H211222-LCSD1</b>						
Mercury, Hg	0.92	1.00	92%	6.3%	80 - 120		mg/kg

<b>CCV:</b>	<b>H211222-CCV1</b>						
Mercury, Hg	5.06	5.00	101%		90-110		µg/L

ND= Not Detected  
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

LCS = Laboratory Control Sample  
LCSD= Laboratory Control Sample Duplicate  
CCV = Continuing Calibration Verification  
RPD = Relative Percent Difference



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# Chain-of-Custody Record

LAB USE ONLY

Jones Project #

ST-18076

Page

1 of 1

Sample Condition as Received:

Chilled  yes  no

Sealed  yes  no

Client **DL SCIENCE, INC.**

Project Name **1933 TEMPLE AVE.**

Project Address **1933 TEMPLE AVE.**

**SIGNAL HILL, CA.**

Email **dlucero@sbcglobal.net**

Phone **(818) 731-9644**

Report To **DL LUCERO** Sampler **DL LUCERO**

Date **12/21/21**

Client Project #

Turn Around Requested:

- Immediate Attention
- Rush 24 Hours
- Rush 48 Hours
- Rush 72 Hours
- Normal

Report Options

EDD \_\_\_\_\_  
EDF\* - 10% Surcharge \_\_\_\_\_

\*Global ID \_\_\_\_\_

Sample Container / Preservative Abbreviations

- AS - Acetate Sleeve
- SS - Stainless Steel Sleeve
- BS - Brass Sleeve
- G - Glass
- AB - Amber Bottle
- P - Plastic
- SOBI - Sodium Bisulfate
- MeOH - Methanol
- HCl - Hydrochloric Acid
- HNO3 - Nitric Acid
- O - Other (See Notes)

Analysis Requested

Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	CCID TP (S)	TPH (S)	TITLE 22 METALS	VOC/TPH (S)	TOTAL MERCURY (S)	CHROMIUM-6 (S)	Hold	Number of Containers
S	X	X	X	X	X	X		1
S	X	X	X	X	X	X		4

Sample ID	Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Sample Matrix	CCID TP (S)	TPH (S)	TITLE 22 METALS	VOC/TPH (S)	TOTAL MERCURY (S)	CHROMIUM-6 (S)	Hold	Number of Containers	Notes & Special Instructions
SW-3	12/21/21	0710	ST-18076-01		SS	S	X	X	X	X	X	X		1	
SOUTH WALL @ 8.5'	↓	0725	ST-18076-02		SS+3TC	S	X	X	X	X	X	X		4	

Relinquished By (Signature) \_\_\_\_\_ Printed Name **DL LUCERO**

Company **DL SCIENCE, INC.** Date **12/21/21** Time **1455hr.**

Received By (Signature) \_\_\_\_\_ Printed Name \_\_\_\_\_

Company \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Received By Laboratory (Signature) \_\_\_\_\_ Printed Name **Emily Rosa**

Company **Jones 15** Date **12/21/21** Time **1455**

Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.

## SAMPLE RECEIPT FORM

Jones ID: \_\_\_\_\_

 CLIENT: DL Science  
 PROJECT: Temple Ave

 DATE/TIME(LAB RECEIVED): 12/21/1455  
 LAB RECEIVED BY: Emily

 Delivered by:  Client     Jones Courier     UPS / FedEx / USPS     Other \_\_\_\_\_

<b>TEMPERATURE:</b>		Thermometer ID: T-1	(Corrected Temp.)	Calibration Due: 08/03/2022
Temperature Cooler #1	<u>16.5</u> °C +/- the CF (-0.5°C)	<u>16.0</u> °C	Blank	Sample
Temperature Cooler #2	_____ °C +/- the CF (-0.5°C)	_____ °C	Blank	Sample
Temp Criteria: 0 ≤ 6°C (NO frozen containers)		Criteria met?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If criteria is not met:				
Sample(s) received on ice?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No*	
Sample(s) received chilled on same day of sampling?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No*	
Checked by: <u>VP</u>				

SAMPLE CONDITION:	YES	NO*	N/A
Chain of Custody-(COC) received filled out completely-----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total number of containers received match COC-----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC-----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and in good condition-----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested on COC-----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservative indicated on COC/containers for analyses requested -----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Volatile analysis container(s) free of headspace (EPA 8260 water) -----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Custody Seals Intact on Cooler/Sample-----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

<b>CONTAINER TYPE:</b>		
<b>Solid:</b> VOAs: _____ Glass Jar: _____ Sleeve: <u>2</u> Other: _____	<b>Aqueous:</b> Amber Bottle: _____ VOAs: _____ Poly Bottle: _____	<b>Air / Soil Gas:</b> Tedlar Bag: _____ 6 hr 72 hr 5 Day Summa: (1L) _____ (6L) _____

<b>MILEAGE:</b>
Round Trip Mileage: _____    Travel Time: _____    On Site Time: _____

\*Complete Non-Conformance if checked

Checked by: \_\_\_\_\_



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

29 December 2021

Colby Wakeman  
Jones Environmental  
11007 Forest Place  
Santa Fe Springs, CA 90670  
RE: 1933 N. Temple Ave.

Enclosed are the results of analyses for samples received by the laboratory on 12/22/21 13:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Joann Marroquin  
Director of Operations



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-18876  
Project Manager: Colby Wakeman

**Reported:**  
12/29/21 15:57

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
South Wall @ 8.5'	T213936-01	Soil	12/21/21 07:25	12/22/21 13:40

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Joann Marroquin, Director of Operations



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

Jones Environmental 11007 Forest Place Santa Fe Springs CA, 90670	Project: 1933 N. Temple Ave. Project Number: ST-18876 Project Manager: Colby Wakeman	<b>Reported:</b> 12/29/21 15:57
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**DETECTIONS SUMMARY**

**Sample ID:** South Wall @ 8.5'

**Laboratory ID:** T213936-01

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Hexavalent Chromium	180	1.0		ug/kg	EPA 7199	

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Joann Marroquin, Director of Operations



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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental 11007 Forest Place Santa Fe Springs CA, 90670	Project: 1933 N. Temple Ave. Project Number: ST-18876 Project Manager: Colby Wakeman	<b>Reported:</b> 12/29/21 15:57
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**South Wall @ 8.5'**  
**T213936-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Hexavalent Chromium	180	1.0	ug/kg	1	1122718	12/27/21	12/27/21	EPA 7199	

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Joann Marroquin, Director of Operations



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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Jones Environmental 11007 Forest Place Santa Fe Springs CA, 90670	Project: 1933 N. Temple Ave. Project Number: ST-18876 Project Manager: Colby Wakeman	Reported: 12/29/21 15:57
---	--	-----------------------------

**Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1122718 - General Preparation**

<b>Blank (1122718-BLK1)</b>				Prepared & Analyzed: 12/27/21						
Hexavalent Chromium	ND	1.0	ug/kg							
<b>LCS (1122718-BS1)</b>				Prepared & Analyzed: 12/27/21						
Hexavalent Chromium	9930	1.0	ug/kg	10000		99.3	80-120			
<b>Matrix Spike (1122718-MS1)</b>				Source: T213936-01		Prepared & Analyzed: 12/27/21				
Hexavalent Chromium	9180	1.0	ug/kg	10000	178	90.0	75-125			
<b>Matrix Spike Dup (1122718-MSD1)</b>				Source: T213936-01		Prepared & Analyzed: 12/27/21				
Hexavalent Chromium	9510	1.0	ug/kg	10000	178	93.3	75-125	3.47	20	

SunStar Laboratories, Inc.

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Joann Marroquin, Director of Operations



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949.297.5020 Phone  
949.297.5027 Fax

Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: 1933 N. Temple Ave.  
Project Number: ST-18876  
Project Manager: Colby Wakeman

**Reported:**  
12/29/21 15:57

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

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SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

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Joann Marroquin, Director of Operations



11007 Forest Pl.  
 Santa Fe Springs, CA 90670  
 (714) 449-9937  
 Fax (714) 449-9685  
 www.jonesenv.com

# Chain-of-Custody Record

**Client**  
DL Science

**Project Name**  
1933 Temple Ave

**Project Address**  
1933 Temple Ave

**Signal Hill, CA**

**Email**  
reports@jonesenv.com

**Phone**  
(747) 449-9937

**Report To**  
Colby Wakeman

**Sampler**  
Dave Lucero

**Date**  
12/21/2021

**Client Project #**

**Sample Container / Preservative Abbreviations**

AS - Acetate Sleeve  
 SS - Stainless Steel Sleeve  
 BS - Brass Sleeve  
 G - Glass  
 AB - Amber Bottle  
 P - Plastic  
 SOBI - Sodium Bisulfate  
 MeOH - Methanol  
 HCl - Hydrochloric Acid  
 HNO3 - Nitric Acid  
 O - Other (See Notes)

**Turn Around Requested:**

Immediate Attention  
 Rush 24 Hours  
 Rush 48 Hours  
 Rush 72 Hours  
 Normal

**Report Options**

T213936

**LAB USE ONLY**

**Jones Project #**

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**Page**  
1 of 1

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**Sample Condition as Received:**  
 Chilled  yes  no  
 Sealed  yes  no

**Analysis Requested**

Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	EPA 7199 - HEX CHROME																			

Number of Containers

1.20c

Sample ID	Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	EPA 7199 - HEX CHROME														Notes & Special Instructions
SOUTH WALL @ 8.5'	12/21/2021	07:25	01	NONE		S	X														1 ST-18876-02

<b>Relinquished By (Signature)</b> 	<b>Printed Name</b> Emily R	<b>Received By (Signature)</b> 	<b>Printed Name</b> Travis	<b>Total Number of Containers</b>
<b>Company</b> Jones	<b>Date</b> 12/22/21	<b>Company</b> Sunstar	<b>Date</b> 12-22-21	
<b>Relinquished By (Signature)</b> 	<b>Printed Name</b> Travis	<b>Received By Laboratory (Signature)</b> 	<b>Printed Name</b> Paul Berner	Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.
<b>Company</b> Sunstar	<b>Date</b> 12-22-21	<b>Company</b> Sunstar Labs	<b>Date</b> 12/22/21	

## SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T213936  
 Client Name: Jones Project: 1933 Temple Ave  
 Delivered by:  Client  SunStar Courier  GLS  FedEx  UPS  
 If Courier, Received by: Traws Date/Time Courier Received: 12-22-21 12:47  
 Lab Received by: Paul Date/Time Lab Received: 12-22-21 13:40  
 Total number of coolers received: \_\_\_\_\_ Thermometer ID: SC-1 Calibration due :8/24/22

Temperature:	Cooler #1	1.1 °C +/- the CF (+0.1 °C) =	1.2 °C	°C corrected temperature
Temperature:	Cooler #2	°C +/- the CF ( °C) =		°C corrected temperature
Temperature:	Cooler #3	°C +/- the CF ( °C) =		°C corrected temperature
<b>Temperature criteria = ≤ 6°C (no frozen containers)</b>		Within criteria?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<b>If NO:</b>				
Samples received on ice?		<input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet	
If on ice, samples received same day collected?		<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet	

Custody seals intact on cooler/sample  Yes  No\*  N/A  
 Sample containers intact  Yes  No\*  
 Sample labels match Chain of Custody IDs  Yes  No\*  
 Total number of containers received match COC  Yes  No\*  
 Proper containers received for analyses requested on COC  Yes  No\*  
 Proper preservative indicated on COC/containers for analyses requested  Yes  No\*  N/A  
 Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times  Yes  No\*

\* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: TB 12-22-21

**Comments:**  
 \_\_\_\_\_  
 \_\_\_\_\_

**WORK ORDER**

**T213936**

**Client:** Jones Environmental  
**Project:** 1933 N. Temple Ave.

**Project Manager:** Joann Marroquin  
**Project Number:** ST-18876

**Report To:**

Jones Environmental  
 Colby Wakeman  
 11007 Forest Place  
 Santa Fe Springs, CA 90670

Date Due: 12/29/21 17:00 (3 day TAT)

Received By: Paul Berner

Date Received: 12/22/21 13:40

Logged In By: Jennifer Berger

Date Logged In: 12/22/21 15:06

Samples Received at: **1.2°C**  
 Custody Seals No Received On Ice Yes  
 Containers Intact Yes  
 COC/Labels Agree Yes  
 Preservation Confirmed No

Analysis	Due	TAT	Expires	Comments
<b>T213936-01 South Wall @ 8.5' [Soil] Sampled 12/21/21 07:25 (GMT-08:00) Pacific Time (US &amp; Cr6-7199</b>	12/29/21 15:00	3	01/20/22 07:25	

# **APPENDIX B**

**Sierra Analytical Labs  
Background Soil Matrix Data  
April 4, 2005 and July 6, 2021**



Mearns Consulting Corporation  
 738 Ashland Avenue  
 Santa Monica CA, 90405

Project: City of Signal Hill  
 Project Number: Las Brisas  
 Project Manager: Susan Mearns

**Reported:**  
 04/12/05 14:01

**Metals by EPA 6000/7000 Series Methods**  
**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Offsite-1 (0504072-33) Soil    Sampled: 04/04/05 13:20    Received: 04/04/05 14:15</b>										
Silver	ND	0.80		mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Arsenic</b>	<b>5.2</b>	1.7		"	"	"	"	"	"	
<b>Barium</b>	<b>97</b>	3.3		"	"	"	"	"	"	
Beryllium	ND	0.75		"	"	"	"	"	"	
Cadmium	ND	0.51		"	"	"	"	"	"	
<b>Cobalt</b>	<b>8.1</b>	2.2		"	"	"	"	"	"	
<b>Chromium</b>	<b>21</b>	0.98		"	"	"	"	"	"	
<b>Copper</b>	<b>25</b>	2.2		"	"	"	"	"	"	
Mercury	ND	0.16		"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7		"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Nickel</b>	<b>12</b>	0.79		"	"	"	"	"	"	
<b>Lead</b>	<b>12</b>	1.3		"	"	"	"	"	"	
Antimony	ND	1.6		"	"	"	"	"	"	
Selenium	ND	1.9		"	"	"	"	"	"	
Thallium	ND	1.5		"	"	"	"	"	"	
<b>Vanadium</b>	<b>35</b>	0.73		"	"	"	"	"	"	
<b>Zinc</b>	<b>62</b>	1.3		"	"	"	"	"	"	
<b>Offsite-5 (0504072-34) Soil    Sampled: 04/04/05 13:25    Received: 04/04/05 14:15</b>										
Silver	ND	0.80		mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Arsenic</b>	<b>12</b>	1.7		"	"	"	"	"	"	
<b>Barium</b>	<b>160</b>	3.3		"	"	"	"	"	"	
<b>Beryllium</b>	<b>1.1</b>	0.75		"	"	"	"	"	"	
Cadmium	ND	0.51		"	"	"	"	"	"	
<b>Cobalt</b>	<b>17</b>	2.2		"	"	"	"	"	"	
<b>Chromium</b>	<b>50</b>	0.98		"	"	"	"	"	"	
<b>Copper</b>	<b>64</b>	2.2		"	"	"	"	"	"	
Mercury	ND	0.18		"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7		"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Nickel</b>	<b>30</b>	0.79		"	"	"	"	"	"	
<b>Lead</b>	<b>8.1</b>	1.3		"	"	"	"	"	"	
<b>Antimony</b>	<b>2.3</b>	1.6		"	"	"	"	"	"	
Selenium	ND	1.9		"	"	"	"	"	"	
Thallium	ND	1.5		"	"	"	"	"	"	
<b>Vanadium</b>	<b>75</b>	0.73		"	"	"	"	"	"	
<b>Zinc</b>	<b>99</b>	1.3		"	"	"	"	"	"	

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Mearns Consulting Corporation  
 738 Ashland Avenue  
 Santa Monica CA, 90405

Project: City of Signal Hill  
 Project Number: Las Brisas  
 Project Manager: Susan Mearns

**Reported:**  
 04/12/05 14:01

**Metals by EPA 6000/7000 Series Methods**  
**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Offsite-10 (0504072-35) Soil    Sampled: 04/04/05 13:29    Received: 04/04/05 14:15</b>									
Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Arsenic</b>	<b>12</b>	1.7	"	"	"	"	"	"	
<b>Barium</b>	<b>170</b>	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
<b>Cobalt</b>	<b>14</b>	2.2	"	"	"	"	"	"	
<b>Chromium</b>	<b>32</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>35</b>	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Nickel</b>	<b>22</b>	0.79	"	"	"	"	"	"	
<b>Lead</b>	<b>5.6</b>	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>58</b>	0.73	"	"	"	"	"	"	
<b>Zinc</b>	<b>67</b>	1.3	"	"	"	"	"	"	

<b>Offsite-20 (0504072-36) Soil    Sampled: 04/04/05 13:36    Received: 04/04/05 14:15</b>									
Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Arsenic</b>	<b>14</b>	1.7	"	"	"	"	"	"	
<b>Barium</b>	<b>73</b>	3.3	"	"	"	"	"	"	
<b>Beryllium</b>	<b>0.95</b>	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
<b>Cobalt</b>	<b>17</b>	2.2	"	"	"	"	"	"	
<b>Chromium</b>	<b>35</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>80</b>	2.2	"	"	"	"	"	"	
Mercury	ND	0.15	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Nickel</b>	<b>22</b>	0.79	"	"	"	"	"	"	
<b>Lead</b>	<b>10</b>	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>67</b>	0.73	"	"	"	"	"	"	
<b>Zinc</b>	<b>95</b>	1.3	"	"	"	"	"	"	

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13 July 2021

Susan Mearns  
Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica, CA 90405

RE:1905 E 21st St. - Spud Field

Work Order No.: 2107058

Attached are the results of the analyses for samples received by the laboratory on 07/06/21 14:35.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report.  
If you require any additional retaining time, please advise us.

Sincerely,

A handwritten signature in black ink that reads "Richard K. Forsyth". The signature is written in a cursive style and is positioned above a solid horizontal line.

Richard K. Forsyth

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS),  
Environmental Laboratory Accreditation Program (ELAP) No. 2320.



Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: 1905 E 21st St. - Spud Field  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
07/13/21 12:23

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB1-5	2107058-01	Soil	07/06/21 07:40	07/06/21 14:35
SB2-5	2107058-02	Soil	07/06/21 07:51	07/06/21 14:35
SB3-5	2107058-03	Soil	07/06/21 08:01	07/06/21 14:35
SB4-5	2107058-04	Soil	07/06/21 08:08	07/06/21 14:35
SB5-5	2107058-05	Soil	07/06/21 08:16	07/06/21 14:35
SB6-5	2107058-06	Soil	07/06/21 08:23	07/06/21 14:35
SB7-5	2107058-07	Soil	07/06/21 08:31	07/06/21 14:35
SB8-5	2107058-08	Soil	07/06/21 08:38	07/06/21 14:35
SB9-5	2107058-09	Soil	07/06/21 08:47	07/06/21 14:35
SB10-5	2107058-10	Soil	07/06/21 08:58	07/06/21 14:35
SB11-5	2107058-11	Soil	07/06/21 09:10	07/06/21 14:35

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Mearns Consulting LLC  
 738 Ashland Avenue  
 Santa Monica CA, 90405

Project: 1905 E 21st St. - Spud Field  
 Project Number: [none]  
 Project Manager: Susan Mearns

Reported:  
 07/13/21 12:23

**Metals by EPA 6000/7000 Series Methods**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SB1-5 (2107058-01) Soil Sampled: 07/06/21 07:40 Received: 07/06/21 14:35**

Silver	ND	2.0	mg/kg	1	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Arsenic	ND	5.5	"	"	"	"	"	"	
<b>Barium</b>	<b>84</b>	6.0	"	"	"	"	"	"	
Beryllium	ND	2.2	"	"	"	"	"	"	
Cadmium	ND	2.5	"	"	"	"	"	"	
<b>Cobalt</b>	<b>11</b>	3.3	"	"	"	"	"	"	
<b>Chromium</b>	<b>36</b>	2.3	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.10	"	"	B1G0711	07/07/21	07/09/21 12:47	EPA 7199A	
<b>Copper</b>	<b>40</b>	5.0	"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Mercury	ND	0.90	"	"	B1G0613	07/06/21	07/06/21 20:35	EPA 7471A	
Molybdenum	ND	5.2	"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
<b>Nickel</b>	<b>21</b>	3.0	"	"	"	"	"	"	
<b>Lead</b>	<b>8.8</b>	7.1	"	"	"	"	"	"	
Antimony	ND	8.0	"	"	"	"	"	"	
Selenium	ND	6.9	"	"	"	"	"	"	
Thallium	ND	17	"	"	"	"	"	"	
<b>Vanadium</b>	<b>46</b>	5.1	"	"	"	"	"	"	
<b>Zinc</b>	<b>54</b>	7.0	"	"	"	"	"	"	

**SB2-5 (2107058-02) Soil Sampled: 07/06/21 07:51 Received: 07/06/21 14:35**

Silver	ND	2.0	mg/kg	1	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Arsenic	ND	5.5	"	"	"	"	"	"	
<b>Barium</b>	<b>69</b>	6.0	"	"	"	"	"	"	
Beryllium	ND	2.2	"	"	"	"	"	"	
Cadmium	ND	2.5	"	"	"	"	"	"	
<b>Cobalt</b>	<b>9.3</b>	3.3	"	"	"	"	"	"	
<b>Chromium</b>	<b>21</b>	2.3	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.10	"	"	B1G0711	07/07/21	07/09/21 12:47	EPA 7199A	
<b>Copper</b>	<b>26</b>	5.0	"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Mercury	ND	0.90	"	"	B1G0613	07/06/21	07/06/21 20:35	EPA 7471A	
Molybdenum	ND	5.2	"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
<b>Nickel</b>	<b>15</b>	3.0	"	"	"	"	"	"	
Lead	ND	7.1	"	"	"	"	"	"	
Antimony	ND	8.0	"	"	"	"	"	"	
Selenium	ND	6.9	"	"	"	"	"	"	
Thallium	ND	17	"	"	"	"	"	"	
<b>Vanadium</b>	<b>36</b>	5.1	"	"	"	"	"	"	
<b>Zinc</b>	<b>39</b>	7.0	"	"	"	"	"	"	

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Mearns Consulting LLC  
 738 Ashland Avenue  
 Santa Monica CA, 90405

Project: 1905 E 21st St. - Spud Field  
 Project Number: [none]  
 Project Manager: Susan Mearns

Reported:  
 07/13/21 12:23

**Metals by EPA 6000/7000 Series Methods**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

**SB3-5 (2107058-03) Soil Sampled: 07/06/21 08:01 Received: 07/06/21 14:35**

Silver	ND	2.0	mg/kg	1	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Arsenic	ND	5.5	"	"	"	"	"	"	
<b>Barium</b>	<b>48</b>	6.0	"	"	"	"	"	"	
Beryllium	ND	2.2	"	"	"	"	"	"	
Cadmium	ND	2.5	"	"	"	"	"	"	
<b>Cobalt</b>	<b>4.6</b>	3.3	"	"	"	"	"	"	
<b>Chromium</b>	<b>9.0</b>	2.3	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.10	"	"	B1G0711	07/07/21	07/09/21 12:47	EPA 7199A	
<b>Copper</b>	<b>16</b>	5.0	"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Mercury	ND	0.90	"	"	B1G0613	07/06/21	07/06/21 20:35	EPA 7471A	
Molybdenum	ND	5.2	"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
<b>Nickel</b>	<b>6.2</b>	3.0	"	"	"	"	"	"	
Lead	ND	7.1	"	"	"	"	"	"	
Antimony	ND	8.0	"	"	"	"	"	"	
Selenium	ND	6.9	"	"	"	"	"	"	
Thallium	ND	17	"	"	"	"	"	"	
<b>Vanadium</b>	<b>16</b>	5.1	"	"	"	"	"	"	
<b>Zinc</b>	<b>29</b>	7.0	"	"	"	"	"	"	

**SB4-5 (2107058-04) Soil Sampled: 07/06/21 08:08 Received: 07/06/21 14:35**

Silver	ND	2.0	mg/kg	1	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Arsenic	ND	5.5	"	"	"	"	"	"	
<b>Barium</b>	<b>170</b>	6.0	"	"	"	"	"	"	
Beryllium	ND	2.2	"	"	"	"	"	"	
Cadmium	ND	2.5	"	"	"	"	"	"	
<b>Cobalt</b>	<b>14</b>	3.3	"	"	"	"	"	"	
<b>Chromium</b>	<b>42</b>	2.3	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.10	"	"	B1G0711	07/07/21	07/09/21 12:47	EPA 7199A	
<b>Copper</b>	<b>45</b>	5.0	"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Mercury	ND	0.90	"	"	B1G0613	07/06/21	07/06/21 20:35	EPA 7471A	
Molybdenum	ND	5.2	"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
<b>Nickel</b>	<b>26</b>	3.0	"	"	"	"	"	"	
<b>Lead</b>	<b>9.5</b>	7.1	"	"	"	"	"	"	
Antimony	ND	8.0	"	"	"	"	"	"	
Selenium	ND	6.9	"	"	"	"	"	"	
Thallium	ND	17	"	"	"	"	"	"	
<b>Vanadium</b>	<b>58</b>	5.1	"	"	"	"	"	"	
<b>Zinc</b>	<b>74</b>	7.0	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: 1905 E 21st St. - Spud Field  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
07/13/21 12:23

**Metals by EPA 6000/7000 Series Methods**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>SB5-5 (2107058-05) Soil Sampled: 07/06/21 08:16 Received: 07/06/21 14:35</b>									
Silver	ND	2.0	mg/kg	1	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Arsenic	ND	5.5	"	"	"	"	"	"	
<b>Barium</b>	<b>97</b>	6.0	"	"	"	"	"	"	
Beryllium	ND	2.2	"	"	"	"	"	"	
Cadmium	ND	2.5	"	"	"	"	"	"	
<b>Cobalt</b>	<b>16</b>	3.3	"	"	"	"	"	"	
<b>Chromium</b>	<b>30</b>	2.3	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.10	"	"	B1G0711	07/07/21	07/09/21 12:47	EPA 7199A	
<b>Copper</b>	<b>40</b>	5.0	"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Mercury	ND	0.90	"	"	B1G0613	07/06/21	07/06/21 20:35	EPA 7471A	
Molybdenum	ND	5.2	"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
<b>Nickel</b>	<b>27</b>	3.0	"	"	"	"	"	"	
<b>Lead</b>	<b>8.5</b>	7.1	"	"	"	"	"	"	
Antimony	ND	8.0	"	"	"	"	"	"	
Selenium	ND	6.9	"	"	"	"	"	"	
Thallium	ND	17	"	"	"	"	"	"	
<b>Vanadium</b>	<b>52</b>	5.1	"	"	"	"	"	"	
<b>Zinc</b>	<b>56</b>	7.0	"	"	"	"	"	"	

**SB6-5 (2107058-06) Soil Sampled: 07/06/21 08:23 Received: 07/06/21 14:35**

Silver	ND	2.0	mg/kg	1	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Arsenic	ND	5.5	"	"	"	"	"	"	
<b>Barium</b>	<b>130</b>	6.0	"	"	"	"	"	"	
Beryllium	ND	2.2	"	"	"	"	"	"	
Cadmium	ND	2.5	"	"	"	"	"	"	
<b>Cobalt</b>	<b>22</b>	3.3	"	"	"	"	"	"	
<b>Chromium</b>	<b>42</b>	2.3	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.10	"	"	B1G0711	07/07/21	07/09/21 12:47	EPA 7199A	
<b>Copper</b>	<b>46</b>	5.0	"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Mercury	ND	0.90	"	"	B1G0613	07/06/21	07/06/21 20:35	EPA 7471A	
Molybdenum	ND	5.2	"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
<b>Nickel</b>	<b>33</b>	3.0	"	"	"	"	"	"	
<b>Lead</b>	<b>11</b>	7.1	"	"	"	"	"	"	
Antimony	ND	8.0	"	"	"	"	"	"	
Selenium	ND	6.9	"	"	"	"	"	"	
Thallium	ND	17	"	"	"	"	"	"	
<b>Vanadium</b>	<b>71</b>	5.1	"	"	"	"	"	"	
<b>Zinc</b>	<b>85</b>	7.0	"	"	"	"	"	"	

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Mearns Consulting LLC  
 738 Ashland Avenue  
 Santa Monica CA, 90405

Project: 1905 E 21st St. - Spud Field  
 Project Number: [none]  
 Project Manager: Susan Mearns

Reported:  
 07/13/21 12:23

**Metals by EPA 6000/7000 Series Methods**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>SB7-5 (2107058-07) Soil Sampled: 07/06/21 08:31 Received: 07/06/21 14:35</b>									
Silver	ND	2.0	mg/kg	1	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Arsenic	ND	5.5	"	"	"	"	"	"	
<b>Barium</b>	<b>80</b>	6.0	"	"	"	"	"	"	
Beryllium	ND	2.2	"	"	"	"	"	"	
Cadmium	ND	2.5	"	"	"	"	"	"	
<b>Cobalt</b>	<b>12</b>	3.3	"	"	"	"	"	"	
<b>Chromium</b>	<b>24</b>	2.3	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.10	"	"	B1G0711	07/07/21	07/09/21 12:47	EPA 7199A	
<b>Copper</b>	<b>26</b>	5.0	"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Mercury	ND	0.90	"	"	B1G0613	07/06/21	07/06/21 20:35	EPA 7471A	
Molybdenum	ND	5.2	"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
<b>Nickel</b>	<b>19</b>	3.0	"	"	"	"	"	"	
Lead	ND	7.1	"	"	"	"	"	"	
Antimony	ND	8.0	"	"	"	"	"	"	
Selenium	ND	6.9	"	"	"	"	"	"	
Thallium	ND	17	"	"	"	"	"	"	
<b>Vanadium</b>	<b>43</b>	5.1	"	"	"	"	"	"	
<b>Zinc</b>	<b>47</b>	7.0	"	"	"	"	"	"	

**SB8-5 (2107058-08) Soil Sampled: 07/06/21 08:38 Received: 07/06/21 14:35**

Silver	ND	2.0	mg/kg	1	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Arsenic	ND	5.5	"	"	"	"	"	"	
<b>Barium</b>	<b>180</b>	6.0	"	"	"	"	"	"	
Beryllium	ND	2.2	"	"	"	"	"	"	
Cadmium	ND	2.5	"	"	"	"	"	"	
<b>Cobalt</b>	<b>17</b>	3.3	"	"	"	"	"	"	
<b>Chromium</b>	<b>38</b>	2.3	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.10	"	"	B1G0711	07/07/21	07/09/21 12:47	EPA 7199A	
<b>Copper</b>	<b>37</b>	5.0	"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Mercury	ND	0.90	"	"	B1G0613	07/06/21	07/06/21 20:35	EPA 7471A	
Molybdenum	ND	5.2	"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
<b>Nickel</b>	<b>32</b>	3.0	"	"	"	"	"	"	
<b>Lead</b>	<b>11</b>	7.1	"	"	"	"	"	"	
Antimony	ND	8.0	"	"	"	"	"	"	
Selenium	ND	6.9	"	"	"	"	"	"	
Thallium	ND	17	"	"	"	"	"	"	
<b>Vanadium</b>	<b>68</b>	5.1	"	"	"	"	"	"	
<b>Zinc</b>	<b>51</b>	7.0	"	"	"	"	"	"	

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 738 Ashland Avenue  
 Santa Monica CA, 90405

Project: 1905 E 21st St. - Spud Field  
 Project Number: [none]  
 Project Manager: Susan Mearns

Reported:  
 07/13/21 12:23

**Metals by EPA 6000/7000 Series Methods**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

**SB9-5 (2107058-09) Soil Sampled: 07/06/21 08:47 Received: 07/06/21 14:35**

Silver	ND	2.0	mg/kg	1	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Arsenic	ND	5.5	"	"	"	"	"	"	
<b>Barium</b>	<b>87</b>	6.0	"	"	"	"	"	"	
Beryllium	ND	2.2	"	"	"	"	"	"	
Cadmium	ND	2.5	"	"	"	"	"	"	
<b>Cobalt</b>	<b>14</b>	3.3	"	"	"	"	"	"	
<b>Chromium</b>	<b>30</b>	2.3	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.10	"	"	B1G0711	07/07/21	07/09/21 12:47	EPA 7199A	
<b>Copper</b>	<b>28</b>	5.0	"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Mercury	ND	0.90	"	"	B1G0613	07/06/21	07/06/21 20:35	EPA 7471A	
Molybdenum	ND	5.2	"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
<b>Nickel</b>	<b>24</b>	3.0	"	"	"	"	"	"	
<b>Lead</b>	<b>9.0</b>	7.1	"	"	"	"	"	"	
Antimony	ND	8.0	"	"	"	"	"	"	
Selenium	ND	6.9	"	"	"	"	"	"	
Thallium	ND	17	"	"	"	"	"	"	
<b>Vanadium</b>	<b>54</b>	5.1	"	"	"	"	"	"	
<b>Zinc</b>	<b>38</b>	7.0	"	"	"	"	"	"	

**SB10-5 (2107058-10) Soil Sampled: 07/06/21 08:58 Received: 07/06/21 14:35**

Silver	ND	2.0	mg/kg	1	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Arsenic	ND	5.5	"	"	"	"	"	"	
<b>Barium</b>	<b>98</b>	6.0	"	"	"	"	"	"	
Beryllium	ND	2.2	"	"	"	"	"	"	
Cadmium	ND	2.5	"	"	"	"	"	"	
<b>Cobalt</b>	<b>13</b>	3.3	"	"	"	"	"	"	
<b>Chromium</b>	<b>27</b>	2.3	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.10	"	"	B1G0711	07/07/21	07/09/21 12:47	EPA 7199A	
<b>Copper</b>	<b>30</b>	5.0	"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Mercury	ND	0.90	"	"	B1G0613	07/06/21	07/06/21 20:35	EPA 7471A	
Molybdenum	ND	5.2	"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
<b>Nickel</b>	<b>23</b>	3.0	"	"	"	"	"	"	
<b>Lead</b>	<b>7.5</b>	7.1	"	"	"	"	"	"	
Antimony	ND	8.0	"	"	"	"	"	"	
Selenium	ND	6.9	"	"	"	"	"	"	
Thallium	ND	17	"	"	"	"	"	"	
<b>Vanadium</b>	<b>51</b>	5.1	"	"	"	"	"	"	
<b>Zinc</b>	<b>39</b>	7.0	"	"	"	"	"	"	

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 Santa Monica CA, 90405

Project: 1905 E 21st St. - Spud Field  
 Project Number: [none]  
 Project Manager: Susan Mearns

Reported:  
 07/13/21 12:23

**Metals by EPA 6000/7000 Series Methods**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>SB11-5 (2107058-11) Soil Sampled: 07/06/21 09:10 Received: 07/06/21 14:35</b>										
Silver	ND	2.0		mg/kg	1	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Arsenic	ND	5.5		"	"	"	"	"	"	
<b>Barium</b>	<b>120</b>	6.0		"	"	"	"	"	"	
Beryllium	ND	2.2		"	"	"	"	"	"	
Cadmium	ND	2.5		"	"	"	"	"	"	
<b>Cobalt</b>	<b>9.8</b>	3.3		"	"	"	"	"	"	
<b>Chromium</b>	<b>22</b>	2.3		"	"	"	"	"	"	
Hexavalent Chromium	ND	0.10		"	"	B1G0711	07/07/21	07/09/21 12:47	EPA 7199A	
<b>Copper</b>	<b>14</b>	5.0		"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
Mercury	ND	0.90		"	"	B1G0613	07/06/21	07/06/21 20:35	EPA 7471A	
Molybdenum	ND	5.2		"	"	B1G0611	07/06/21	07/07/21 13:55	EPA 6010B	
<b>Nickel</b>	<b>16</b>	3.0		"	"	"	"	"	"	
Lead	ND	7.1		"	"	"	"	"	"	
Antimony	ND	8.0		"	"	"	"	"	"	
Selenium	ND	6.9		"	"	"	"	"	"	
Thallium	ND	17		"	"	"	"	"	"	
<b>Vanadium</b>	<b>39</b>	5.1		"	"	"	"	"	"	
<b>Zinc</b>	<b>31</b>	7.0		"	"	"	"	"	"	

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 Santa Monica CA, 90405

Project: 1905 E 21st St. - Spud Field  
 Project Number: [none]  
 Project Manager: Susan Mearns

Reported:  
 07/13/21 12:23

**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B1G0611 - EPA 3050B**

**Blank (B1G0611-BLK1)**

Prepared: 07/06/21 Analyzed: 07/07/21

Antimony	ND	8.0	mg/kg							
Selenium	ND	6.9	"							
Cadmium	ND	2.5	"							
Vanadium	ND	5.1	"							
Chromium	ND	2.3	"							
Cobalt	ND	3.3	"							
Zinc	ND	7.0	"							
Thallium	ND	17	"							
Copper	ND	5.0	"							
Barium	ND	6.0	"							
Lead	ND	7.1	"							
Arsenic	ND	5.5	"							
Molybdenum	ND	5.2	"							
Nickel	ND	3.0	"							
Silver	ND	2.0	"							
Beryllium	ND	2.2	"							

**LCS (B1G0611-BS1)**

Prepared: 07/06/21 Analyzed: 07/07/21

Copper	107	5.0	mg/kg	100		107	78-122			
Lead	112	7.1	"	100		112	80-120			
Antimony	103	8.0	"	100		103	75-125			
Chromium	111	2.3	"	100		111	80-120			
Selenium	105	6.9	"	100		105	76-124			
Cobalt	119	3.3	"	100		119	80-120			
Beryllium	107	2.2	"	100		107	80-120			
Silver	106	2.0	"	100		106	60-140			
Arsenic	105	5.5	"	100		105	78-122			
Barium	112	6.0	"	100		112	80-120			
Zinc	110	7.0	"	100		110	80-120			
Nickel	119	3.0	"	100		119	80-120			
Vanadium	107	5.1	"	100		107	80-120			
Cadmium	103	2.5	"	100		103	80-120			
Molybdenum	108	5.2	"	100		108	80-120			
Thallium	114	17	"	100		114	80-120			

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Santa Monica CA, 90405

Project: 1905 E 21st St. - Spud Field  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
07/13/21 12:23

**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B1G0611 - EPA 3050B**

**LCS Dup (B1G0611-BSD1)**

Prepared: 07/06/21 Analyzed: 07/07/21

Beryllium	105	2.2	mg/kg	100	105	80-120	1.49	20	
Chromium	106	2.3	"	100	106	80-120	4.14	20	
Cadmium	97.5	2.5	"	100	97.5	80-120	5.78	20	
Copper	112	5.0	"	100	112	78-122	4.64	20	
Arsenic	101	5.5	"	100	101	78-122	3.70	20	
Cobalt	116	3.3	"	100	116	80-120	2.58	20	
Silver	108	2.0	"	100	108	60-140	1.96	40	
Molybdenum	105	5.2	"	100	105	80-120	3.50	20	
Barium	109	6.0	"	100	109	80-120	2.55	20	
Vanadium	105	5.1	"	100	105	80-120	1.32	20	
Selenium	100	6.9	"	100	100	76-124	4.29	20	
Antimony	112	8.0	"	100	112	75-125	8.57	20	
Nickel	115	3.0	"	100	115	80-120	3.21	20	
Lead	115	7.1	"	100	115	80-120	3.08	20	
Thallium	107	17	"	100	107	80-120	6.02	20	
Zinc	109	7.0	"	100	109	80-120	1.23	20	

**Matrix Spike (B1G0611-MS1)**

Source: 2107028-01

Prepared: 07/06/21 Analyzed: 07/07/21

Vanadium	126	5.1	mg/kg	96.8	32.6	96.9	70-130		
Barium	192	6.0	"	96.8	83.1	113	70-130		
Cobalt	102	3.3	"	96.8	7.94	97.4	70-130		
Molybdenum	82.1	5.2	"	96.8	0.635	84.2	70-130		
Cadmium	84.1	2.5	"	96.8	1.03	85.8	70-130		
Zinc	132	7.0	"	96.8	46.6	88.5	70-130		
Arsenic	86.3	5.5	"	96.8	ND	89.2	70-130		
Selenium	86.0	6.9	"	96.8	1.66	87.2	70-130		
Silver	99.9	2.0	"	96.8	0.269	103	60-140		
Beryllium	88.1	2.2	"	96.8	0.220	91.1	70-130		
Antimony	94.6	8.0	"	96.8	5.77	91.8	60-140		
Chromium	109	2.3	"	96.8	17.4	94.5	70-130		
Nickel	110	3.0	"	96.8	15.2	97.7	70-130		
Thallium	85.0	17	"	96.8	ND	87.8	70-130		
Lead	129	7.1	"	96.8	22.8	109	70-130		
Copper	135	5.0	"	96.8	25.5	113	70-130		

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Project: 1905 E 21st St. - Spud Field  
 Project Number: [none]  
 Project Manager: Susan Mearns

Reported:  
 07/13/21 12:23

**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B1G0611 - EPA 3050B**

**Matrix Spike Dup (B1G0611-MSD1)**

Source: 2107028-01

Prepared: 07/06/21 Analyzed: 07/07/21

Barium	193	6.0	mg/kg	96.7	83.1	114	70-130	0.455	20	
Molybdenum	82.3	5.2	"	96.7	0.635	84.4	70-130	0.168	20	
Silver	98.4	2.0	"	96.7	0.269	101	60-140	1.49	40	
Arsenic	87.1	5.5	"	96.7	ND	90.0	70-130	0.880	20	
Zinc	148	7.0	"	96.7	46.6	105	70-130	11.0	20	
Nickel	107	3.0	"	96.7	15.2	95.2	70-130	2.37	20	
Cobalt	103	3.3	"	96.7	7.94	98.1	70-130	0.588	20	
Copper	136	5.0	"	96.7	25.5	115	70-130	1.31	30	
Beryllium	87.0	2.2	"	96.7	0.220	90.0	70-130	1.31	20	
Thallium	85.1	17	"	96.7	ND	88.0	70-130	0.102	20	
Lead	127	7.1	"	96.7	22.8	108	70-130	1.16	30	
Chromium	110	2.3	"	96.7	17.4	95.8	70-130	1.07	20	
Cadmium	86.2	2.5	"	96.7	1.03	88.1	70-130	2.52	20	
Vanadium	124	5.1	"	96.7	32.6	94.2	70-130	2.17	20	
Antimony	91.9	8.0	"	96.7	5.77	89.1	60-140	2.90	20	
Selenium	87.0	6.9	"	96.7	1.66	88.3	70-130	1.16	20	

**Batch B1G0613 - EPA 7471A**

**Blank (B1G0613-BLK1)**

Prepared & Analyzed: 07/06/21

Mercury	ND	0.90	mg/kg							
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**LCS (B1G0613-BS1)**

Prepared & Analyzed: 07/06/21

Mercury	0.20	0.90	mg/kg	0.167		118	70-130			
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**Matrix Spike (B1G0613-MS1)**

Source: 2107028-01

Prepared & Analyzed: 07/06/21

Mercury	0.24	0.90	mg/kg	0.163	0.09	90.8	70-130			
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 Santa Monica CA, 90405

Project: 1905 E 21st St. - Spud Field  
 Project Number: [none]  
 Project Manager: Susan Mearns

**Reported:**  
 07/13/21 12:23

**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B1G0613 - EPA 7471A**

**Matrix Spike Dup (B1G0613-MSD1)**

Source: 2107028-01

Prepared & Analyzed: 07/06/21

Mercury	0.24	0.90	mg/kg	0.162	0.09	89.1	70-130	1.57	30	
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**Batch B1G0711 - EPA 3060A**

**Blank (B1G0711-BLK1)**

Prepared: 07/07/21 Analyzed: 07/09/21

Hexavalent Chromium	ND	0.10	mg/kg							
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**LCS (B1G0711-BS1)**

Prepared: 07/07/21 Analyzed: 07/09/21

Hexavalent Chromium	0.158	0.10	mg/kg	0.150		105	80-120			
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**Matrix Spike (B1G0711-MS1)**

Source: 2107058-01

Prepared: 07/07/21 Analyzed: 07/09/21

Hexavalent Chromium	0.175	0.10	mg/kg	0.149	0.0273	99.1	75-125			
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**Matrix Spike Dup (B1G0711-MSD1)**

Source: 2107058-01

Prepared: 07/07/21 Analyzed: 07/09/21

Hexavalent Chromium	0.183	0.10	mg/kg	0.150	0.0273	104	75-125	4.44	20	
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*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: 1905 E 21st St. - Spud Field  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
07/13/21 12:23

#### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

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*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*





# **APPENDIX C**

**Jones Environmental Labs, Inc.  
2021 Soil Vapor Data**



714-449-9937  
562-646-1611

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## JONES ENVIRONMENTAL LABORATORY RESULTS

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/18/2021
<b>Client Address:</b>	532 W. Maple Ave El Segundo, CA	<b>Jones Ref. No.:</b>	E-1182
<b>Attn:</b>	Dave Lucero	<b>Date Sampled:</b>	8/17/2021
<b>Project:</b>	1933 N Temple Ave	<b>Date Received:</b>	8/17/2021
<b>Project Address:</b>	1933 N Temple Ave Long Beach, CA 90806	<b>Date Analyzed:</b>	8/17/2021
		<b>Physical State:</b>	Soil Gas

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### EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

#### ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No tracer was detected in any of the samples reported herein.

The sampling rate was approximately 200 cc/min, except when noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed using a pump set at approximately 200 cc/min, except when noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity. All samples were injected into the GC/MS system within 30 minutes of collection.

Approval: \_\_\_\_\_

Annalise O'Toole  
Mobile Lab Manager



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### JONES ENVIRONMENTAL LABORATORY RESULTS

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/18/2021
<b>Client Address:</b>	532 W. Maple Ave El Segundo, CA	<b>Jones Ref. No.:</b>	E-1182
<b>Attn:</b>	Dave Lucero	<b>Date Sampled:</b>	8/17/2021
<b>Project:</b>	1933 N Temple Ave	<b>Date Received:</b>	8/17/2021
<b>Project Address:</b>	1933 N Temple Ave Long Beach, CA 90806	<b>Date Analyzed:</b>	8/17/2021
		<b>Physical State:</b>	Soil Gas

#### EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	B-10-5	B-10-15	B-9-5	B-9-15	B-8-5		
<u>Jones ID:</u>	E-1182-01	E-1182-02	E-1182-03	E-1182-04	E-1182-05	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Benzene	ND	ND	ND	ND	ND	8	µg/m3
Bromobenzene	ND	ND	ND	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	ND	ND	ND	8	µg/m3
Bromoform	ND	ND	ND	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	ND	ND	ND	12	µg/m3
sec-Butylbenzene	ND	ND	ND	ND	ND	12	µg/m3
tert-Butylbenzene	ND	ND	ND	ND	ND	12	µg/m3
Carbon tetrachloride	ND	ND	ND	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Chloroform	ND	ND	ND	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	ND	12	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	ND	12	µg/m3
Dibromochloromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	µg/m3
Dibromomethane	ND	ND	ND	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	16	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	ND	16	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	ND	10	µg/m3

**JONES ENVIRONMENTAL LABORATORY RESULTS**

**EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics**

<b>Sample ID:</b>	<b>B-10-5</b>	<b>B-10-15</b>	<b>B-9-5</b>	<b>B-9-15</b>	<b>B-8-5</b>		
<b>Jones ID:</b>	<b>E-1182-01</b>	<b>E-1182-02</b>	<b>E-1182-03</b>	<b>E-1182-04</b>	<b>E-1182-05</b>	<b>Reporting Limit</b>	<b>Units</b>
<b>Analytes:</b>							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Freon 113	ND	ND	ND	ND	ND	16	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	ND	24	µg/m3
Isopropylbenzene	ND	ND	ND	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	ND	ND	ND	8	µg/m3
Methylene chloride	ND	ND	ND	ND	ND	14	µg/m3
Naphthalene	ND	ND	ND	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Styrene	ND	ND	ND	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	16	µg/m3
Tetrachloroethene	<b>32</b>	<b>12</b>	ND	ND	ND	8	µg/m3
Toluene	ND	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	19	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
Trichloroethene	ND	ND	ND	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	ND	ND	ND	16	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	ND	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	ND	ND	ND	16	µg/m3
o-Xylene	ND	ND	ND	ND	ND	8	µg/m3
MTBE	ND	ND	ND	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	ND	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	ND	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	ND	400	µg/m3
Gasoline Range Organics (C4-C12)	ND	ND	ND	ND	ND	2000	µg/m3
<b>Tracer:</b>							
n-Pentane	ND	ND	ND	ND	ND	80	µg/m3
n-Hexane	ND	ND	ND	ND	ND	80	µg/m3
n-Heptane	ND	ND	ND	ND	ND	80	µg/m3
<b>Dilution Factor</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>		
<b>Surrogate Recoveries:</b>						<b>QC Limits</b>	
1,2-Dichloroethane-d4	120%	118%	119%	121%	121%	60 - 140	
Toluene-d8	102%	97%	97%	99%	99%	60 - 140	
4-Bromofluorobenzene	112%	103%	104%	100%	102%	60 - 140	
<b>Batch ID:</b>	<b>E2-081721-01</b>	<b>E2-081721-01</b>	<b>E2-081721-01</b>	<b>E2-081721-01</b>	<b>E2-081721-01</b>		

ND = Value below reporting limit



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### JONES ENVIRONMENTAL LABORATORY RESULTS

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/18/2021
<b>Client Address:</b>	532 W. Maple Ave El Segundo, CA	<b>Jones Ref. No.:</b>	E-1182
<b>Attn:</b>	Dave Lucero	<b>Date Sampled:</b>	8/17/2021
<b>Project:</b>	1933 N Temple Ave	<b>Date Received:</b>	8/17/2021
<b>Project Address:</b>	1933 N Temple Ave Long Beach, CA 90806	<b>Date Analyzed:</b>	8/17/2021
		<b>Physical State:</b>	Soil Gas

#### EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	<b>B-8-5 REP</b>	<b>B-8-15</b>	<b>B-7-5</b>	<b>B-7-15</b>	<b>B-6-5</b>		
<u>Jones ID:</u>	<b>E-1182-06</b>	<b>E-1182-07</b>	<b>E-1182-08</b>	<b>E-1182-09</b>	<b>E-1182-10</b>	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Benzene	ND	ND	ND	ND	ND	8	µg/m3
Bromobenzene	ND	ND	ND	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	ND	ND	ND	8	µg/m3
Bromoform	ND	ND	ND	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	ND	ND	ND	12	µg/m3
sec-Butylbenzene	ND	ND	ND	ND	ND	12	µg/m3
tert-Butylbenzene	ND	ND	ND	ND	ND	12	µg/m3
Carbon tetrachloride	ND	ND	ND	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Chloroform	ND	ND	ND	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	ND	12	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	ND	12	µg/m3
Dibromochloromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	µg/m3
Dibromomethane	ND	ND	ND	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	16	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	ND	16	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	ND	10	µg/m3

## JONES ENVIRONMENTAL LABORATORY RESULTS

### EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<b>Sample ID:</b>	<b>B-8-5 REP</b>	<b>B-8-15</b>	<b>B-7-5</b>	<b>B-7-15</b>	<b>B-6-5</b>		
<b>Jones ID:</b>	<b>E-1182-06</b>	<b>E-1182-07</b>	<b>E-1182-08</b>	<b>E-1182-09</b>	<b>E-1182-10</b>	<b>Reporting Limit</b>	<b>Units</b>
<b>Analytes:</b>							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Freon 113	ND	ND	ND	ND	ND	16	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	ND	24	µg/m3
Isopropylbenzene	ND	ND	ND	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	ND	ND	ND	8	µg/m3
Methylene chloride	ND	ND	ND	ND	ND	14	µg/m3
Naphthalene	ND	ND	ND	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Styrene	ND	ND	ND	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	16	µg/m3
Tetrachloroethene	ND	<b>11</b>	ND	ND	ND	8	µg/m3
Toluene	ND	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	19	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
Trichloroethene	ND	ND	ND	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	ND	ND	ND	16	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	ND	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	ND	ND	ND	16	µg/m3
o-Xylene	ND	ND	ND	ND	ND	8	µg/m3
MTBE	ND	ND	ND	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	ND	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	ND	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	ND	400	µg/m3
Gasoline Range Organics (C4-C12)	ND	ND	ND	ND	ND	2000	µg/m3
<b>Tracer:</b>							
n-Pentane	ND	ND	ND	ND	ND	80	µg/m3
n-Hexane	ND	ND	ND	ND	ND	80	µg/m3
n-Heptane	ND	ND	ND	ND	ND	80	µg/m3
<b>Dilution Factor</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>		
<b>Surrogate Recoveries:</b>						<b>QC Limits</b>	
1,2-Dichloroethane-d4	121%	121%	121%	122%	120%	60 - 140	
Toluene-d8	99%	99%	98%	99%	98%	60 - 140	
4-Bromofluorobenzene	105%	101%	102%	104%	103%	60 - 140	
<b>Batch ID:</b>	<b>E2-081721-01</b>	<b>E2-081721-01</b>	<b>E2-081721-01</b>	<b>E2-081721-01</b>	<b>E2-081721-01</b>		

ND = Value below reporting limit



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**JONES ENVIRONMENTAL LABORATORY RESULTS**

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/18/2021
<b>Client Address:</b>	532 W. Maple Ave El Segundo, CA	<b>Jones Ref. No.:</b>	E-1182
<b>Attn:</b>	Dave Lucero	<b>Date Sampled:</b>	8/17/2021
<b>Project:</b>	1933 N Temple Ave	<b>Date Received:</b>	8/17/2021
<b>Project Address:</b>	1933 N Temple Ave Long Beach, CA 90806	<b>Date Analyzed:</b>	8/17/2021
		<b>Physical State:</b>	Soil Gas

**EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics**

<u>Sample ID:</u>	<b>B-6-5 REP</b>	<b>B-6-15</b>	<b>B-1-5</b>	<b>B-1-15</b>	<b>B-2-5</b>		
<u>Jones ID:</u>	<b>E-1182-11</b>	<b>E-1182-12</b>	<b>E-1182-13</b>	<b>E-1182-14</b>	<b>E-1182-15</b>	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Benzene	ND	ND	ND	ND	ND	8	µg/m3
Bromobenzene	ND	ND	ND	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	ND	ND	ND	8	µg/m3
Bromoform	ND	ND	ND	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	ND	ND	ND	12	µg/m3
sec-Butylbenzene	ND	ND	ND	ND	ND	12	µg/m3
tert-Butylbenzene	ND	ND	ND	ND	ND	12	µg/m3
Carbon tetrachloride	ND	ND	ND	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Chloroform	ND	ND	ND	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	ND	12	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	ND	12	µg/m3
Dibromochloromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	µg/m3
Dibromomethane	ND	ND	ND	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	16	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	ND	16	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	ND	10	µg/m3

**JONES ENVIRONMENTAL LABORATORY RESULTS**

**EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics**

<b>Sample ID:</b>	<b>B-6-5 REP</b>	<b>B-6-15</b>	<b>B-1-5</b>	<b>B-1-15</b>	<b>B-2-5</b>		
<b>Jones ID:</b>	<b>E-1182-11</b>	<b>E-1182-12</b>	<b>E-1182-13</b>	<b>E-1182-14</b>	<b>E-1182-15</b>	<b>Reporting Limit</b>	<b>Units</b>
<b>Analytes:</b>							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Freon 113	ND	ND	ND	ND	ND	16	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	ND	24	µg/m3
Isopropylbenzene	ND	ND	ND	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	ND	ND	ND	8	µg/m3
Methylene chloride	ND	ND	ND	ND	ND	14	µg/m3
Naphthalene	ND	ND	ND	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Styrene	ND	ND	ND	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	16	µg/m3
Tetrachloroethene	ND	ND	ND	ND	<b>8</b>	8	µg/m3
Toluene	ND	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	19	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
Trichloroethene	ND	ND	ND	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	ND	ND	ND	16	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	ND	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	ND	ND	ND	16	µg/m3
o-Xylene	ND	ND	ND	ND	ND	8	µg/m3
MTBE	ND	ND	ND	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	ND	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	ND	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	ND	400	µg/m3
Gasoline Range Organics (C4-C12)	ND	ND	ND	ND	ND	2000	µg/m3
<b>Tracer:</b>							
n-Pentane	ND	ND	ND	ND	ND	80	µg/m3
n-Hexane	ND	ND	ND	ND	ND	80	µg/m3
n-Heptane	ND	ND	ND	ND	ND	80	µg/m3
<b>Dilution Factor</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>		
<b>Surrogate Recoveries:</b>						<b>QC Limits</b>	
1,2-Dichloroethane-d4	121%	117%	121%	101%	124%	60 - 140	
Toluene-d8	99%	98%	100%	97%	99%	60 - 140	
4-Bromofluorobenzene	105%	101%	105%	101%	98%	60 - 140	
<b>Batch ID:</b>	<b>E2-081721-01</b>	<b>E2-081721-01</b>	<b>E2-081721-01</b>	<b>E2-081721-01</b>	<b>E2-081721-01</b>		

ND = Value below reporting limit



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### JONES ENVIRONMENTAL LABORATORY RESULTS

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/18/2021
<b>Client Address:</b>	532 W. Maple Ave El Segundo, CA	<b>Jones Ref. No.:</b>	E-1182
<b>Attn:</b>	Dave Lucero	<b>Date Sampled:</b>	8/17/2021
<b>Project:</b>	1933 N Temple Ave	<b>Date Received:</b>	8/17/2021
<b>Project Address:</b>	1933 N Temple Ave Long Beach, CA 90806	<b>Date Analyzed:</b>	8/17/2021
		<b>Physical State:</b>	Soil Gas

#### EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	B-2-15	B-3-5	B-3-15	B-4-5	B-4-15		
<u>Jones ID:</u>	E-1182-16	E-1182-17	E-1182-18	E-1182-19	E-1182-20	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Benzene	ND	ND	ND	ND	ND	8	µg/m3
Bromobenzene	ND	ND	ND	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	ND	ND	ND	8	µg/m3
Bromoform	ND	ND	ND	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	ND	ND	ND	12	µg/m3
sec-Butylbenzene	ND	ND	ND	ND	ND	12	µg/m3
tert-Butylbenzene	ND	ND	ND	ND	ND	12	µg/m3
Carbon tetrachloride	ND	ND	ND	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Chloroform	ND	ND	ND	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	ND	12	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	ND	12	µg/m3
Dibromochloromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	µg/m3
Dibromomethane	ND	ND	ND	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	16	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	ND	16	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	ND	10	µg/m3

## JONES ENVIRONMENTAL LABORATORY RESULTS

### EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	B-2-15	B-3-5	B-3-15	B-4-5	B-4-15		
<u>Jones ID:</u>	E-1182-16	E-1182-17	E-1182-18	E-1182-19	E-1182-20	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Freon 113	ND	ND	ND	ND	ND	16	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	ND	24	µg/m3
Isopropylbenzene	ND	ND	ND	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	ND	ND	ND	8	µg/m3
Methylene chloride	ND	ND	ND	ND	ND	14	µg/m3
Naphthalene	ND	ND	ND	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Styrene	ND	ND	ND	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	16	µg/m3
Tetrachloroethene	ND	ND	<b>9</b>	<b>13</b>	<b>24</b>	8	µg/m3
Toluene	ND	<b>23</b>	ND	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	19	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
Trichloroethene	ND	ND	ND	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	ND	ND	ND	16	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	ND	ND	ND	8	µg/m3
m,p-Xylene	ND	<b>20</b>	ND	ND	ND	16	µg/m3
o-Xylene	ND	<b>18</b>	ND	ND	ND	8	µg/m3
MTBE	ND	ND	ND	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	ND	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	ND	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	ND	400	µg/m3
Gasoline Range Organics (C4-C12)	ND	ND	ND	ND	ND	2000	µg/m3
<b>Tracer:</b>							
n-Pentane	ND	ND	ND	ND	ND	80	µg/m3
n-Hexane	ND	ND	ND	ND	ND	80	µg/m3
n-Heptane	ND	ND	ND	ND	ND	80	µg/m3
<b>Dilution Factor</b>	1	1	1	1	1		
<b>Surrogate Recoveries:</b>						<b>QC Limits</b>	
1,2-Dichloroethane-d4	122%	125%	127%	123%	122%	60 - 140	
Toluene-d8	99%	95%	97%	@	@	60 - 140	
4-Bromofluorobenzene	98%	101%	99%	98%	98%	60 - 140	
<b>Batch ID:</b>	E2-081721-01	E2-081721-01	E2-081721-01	E2-081721-01	E2-081721-01		

ND = Value below reporting limit

@= Surrogate outside acceptable limits. All other QC parameters in control, therefore data was accepted.



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/18/2021
<b>Client Address:</b>	532 W. Maple Ave El Segundo, CA	<b>Jones Ref. No.:</b>	E-1182
<b>Attn:</b>	Dave Lucero	<b>Date Sampled:</b>	8/17/2021
<b>Project:</b>	1933 N Temple Ave	<b>Date Received:</b>	8/17/2021
<b>Project Address:</b>	1933 N Temple Ave Long Beach, CA 90806	<b>Date Analyzed:</b>	8/17/2021
		<b>Physical State:</b>	Soil Gas

**EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics**

<u>Sample ID:</u>	<b>METHOD</b>	<b>SAMPLING</b>		
	<b>BLANK</b>	<b>BLANK</b>		
<u>Jones ID:</u>	<b>081721- E2MB1</b>	<b>081721- E2SB1</b>	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>				
Benzene	ND	ND	8	µg/m3
Bromobenzene	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	8	µg/m3
Bromoform	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	12	µg/m3
sec-Butylbenzene	ND	ND	12	µg/m3
tert-Butylbenzene	ND	ND	12	µg/m3
Carbon tetrachloride	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	8	µg/m3
Chloroform	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	12	µg/m3
4-Chlorotoluene	ND	ND	12	µg/m3
Dibromochloromethane	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	8	µg/m3
Dibromomethane	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	16	µg/m3
1,3-Dichlorobenzene	ND	ND	16	µg/m3
1,4-Dichlorobenzene	ND	ND	16	µg/m3
Dichlorodifluoromethane	ND	ND	16	µg/m3
1,1-Dichloroethane	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	16	µg/m3
1,1-Dichloropropene	ND	ND	10	µg/m3

## JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

### EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	METHOD BLANK	SAMPLING BLANK		
<u>Jones ID:</u>	081721- E2MB1	081721- E2SB1	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>				
cis-1,3-Dichloropropene	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	8	µg/m3
Freon 113	ND	ND	16	µg/m3
Hexachlorobutadiene	ND	ND	24	µg/m3
Isopropylbenzene	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	8	µg/m3
Methylene chloride	ND	ND	14	µg/m3
Naphthalene	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	8	µg/m3
Styrene	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	16	µg/m3
Tetrachloroethene	ND	ND	8	µg/m3
Toluene	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	16	µg/m3
1,2,4-Trichlorobenzene	ND	ND	19	µg/m3
1,1,1-Trichloroethane	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	8	µg/m3
Trichloroethene	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	16	µg/m3
1,2,3-Trichloropropane	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	16	µg/m3
o-Xylene	ND	ND	8	µg/m3
MTBE	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	400	µg/m3
Gasoline Range Organics (C4-C12)	ND	ND	2000	µg/m3
<b>Tracer:</b>				
n-Pentane	ND	ND	80	µg/m3
n-Hexane	ND	ND	80	µg/m3
n-Heptane	ND	ND	80	µg/m3
<b><u>Dilution Factor</u></b>	1	1		
<b><u>Surrogate Recoveries:</u></b>			<b><u>QC Limits</u></b>	
1,2-Dichloroethane-d4	123%	117%	60 - 140	
Toluene-d8	100%	100%	60 - 140	
4-Bromofluorobenzene	102%	101%	60 - 140	
<b><u>Batch ID:</u></b>	E2-081721- 01	E2-081721- 01		

ND = Value below reporting limit



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### JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

**Client:** DL Science, Inc.  
**Client Address:** 532 W. Maple Ave  
El Segundo, CA

**Report date:** 8/18/2021  
**Jones Ref. No.:** E-1182

**Attn:** Dave Lucero

**Date Sampled:** 8/17/2021  
**Date Received:** 8/17/2021

**Project:** 1933 N Temple Ave  
**Project Address:** 1933 N Temple Ave  
Long Beach, CA 90806

**Date Analyzed:** 8/17/2021  
**Physical State:** Soil Gas

#### EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

**Batch ID:** E2-081721-01

**Jones ID:**                   **081721-E2LCS1**       **081721-E2LCSD1**                                   **081721-E2CCV1**

<u>Parameter</u>	LCS Recovery (%)	LCSD Recovery (%)	<u>RPD</u>	Acceptability Range (%)	<u>CCV</u>	Acceptability Range (%)
Vinyl chloride	139%	120%	14.4%	60 - 140	123% <sup>1</sup>	80 - 120
1,1-Dichloroethene	123%	108%	13.0%	60 - 140	89%	80 - 120
Cis-1,2-Dichloroethene	125%	109%	13.6%	70 - 130	96%	80 - 120
1,1,1-Trichloroethane	123%	107%	13.8%	70 - 130	100%	80 - 120
Benzene	120%	102%	17.0%	70 - 130	99%	80 - 120
Trichloroethene	114%	101%	12.5%	70 - 130	93%	80 - 120
Toluene	127% <sup>2</sup>	111%	13.4%	70 - 130	105%	80 - 120
Tetrachloroethene	146%	127%	14.1%	70 - 130	119%	80 - 120
Chlorobenzene	114%	101%	12.3%	70 - 130	97%	80 - 120
Ethylbenzene	94%	79%	17.1%	70 - 130	92%	80 - 120
1,2,4 Trimethylbenzene	135% <sup>2</sup>	118%	13.8%	70 - 130	120%	80 - 120
Gasoline Range Organics (C4-C12)	119%	102%	15.1%	70 - 130	104%	80 - 120
<b>Surrogate Recovery:</b>						
1,2-Dichloroethane-d4	122%	122%		60 - 140	117%	60 - 140
Toluene-d <sub>8</sub>	99%	98%		60 - 140	101%	60 - 140
4-Bromofluorobenzene	105%	103%		60 - 140	105%	60 - 140

<sup>1</sup>Recovery outside of acceptable limits. LCS/LCSD recoveries and RPD were within QC limits, therefore data was accepted.

<sup>2</sup>Recovery outside of acceptable limits. CCV and LCSD recoveries and LCS/LCSD RPD were within QC limits, therefore data was accepted.

LCS = Laboratory Control Sample

LCSD = Laboratory Control Sample Duplicate

CCV = Continuing Calibration Verification

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%



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# Soil-Gas Chain-of-Custody Record

**Client**  
**DL Science**

**Project Name**  
**1933 N Temple Ave**

**Project Address**  
**1933 N Temple Ave**

**Long Beach, CA 90806**

**Email**

**Phone**

**Date**  
 8/17/2021

**Client Project #**

**Purge Number:**  
 1P  3P  7P  10P

**Report Options**  
 EDD \_\_\_\_\_  
 EDF\* - 10% Surcharge \_\_\_\_\_

**Shut-In Test:** (Y) N

\*Global ID \_\_\_\_\_

LAB USE ONLY

**Jones Project #**

**E-1182**

Page

1 of 2

Sample Container:

GASTIGHT GLASS SYRINGE

If different than above, see Notes.

**Turn Around Requested**

- Immediate Attention
- Rush 24 Hours
- Rush 48 Hours
- Rush 72 Hours
- Normal
- Mobile Lab

**Tracer**

- n-pentane
- n-hexane
- n-heptane
- Isopropyl Alcohol
- 1,1-DFA

**Analysis Requested**

Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B (VOCs)	Gasoline Range Organics	Magnehelic Vacuum (In/H <sub>2</sub> O)	Number of Containers
SG	X	X	<2	1

**Reporting Limits**

- Standard
  - Low Level\*
  - MDL\*
- \*surcharge for these limits

Units  
 mg/m<sup>3</sup>

**Report To**  
**Dave Lucero**

**Sampler**  
**Dylan Lindsay**

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B (VOCs)	Gasoline Range Organics	Magnehelic Vacuum (In/H <sub>2</sub> O)	Number of Containers	Notes & Special Instructions
B-10-5	3	2300	8/17/21	7:49	7:51	E-1182-01	200	GOOSE.1	M100.201	SG	X	X	<2	1	
B-10-15	3	2470	8/17/21	8:05	8:07	E-1182-02	200	SAMPLER.2	M100.203	SG	X	X	<2	1	
B-9-5	3	2300	8/17/21	8:21	8:24	E-1182-03	200	GOOSE.1	M100.114	SG	X	X	<2	1	
B-9-15	3	2470	8/17/21	8:38	8:42	E-1182-04	200	SAMPLER.2	118012	SG	X	X	<2	1	
B-8-5	3	2300	8/17/21	8:54	9:00	E-1182-05	200	GOOSE.1	M100.201	SG	X	X	<2	1	
B-8-5 REP	3	2300	8/17/21	9:02	9:19	E-1182-06	200	GOOSE.1	M100.201	SG	X	X	<2	1	
B-8-15	3	2470	8/17/21	9:28	9:36	E-1182-07	200	SAMPLER.2	M100.203	SG	X	X	<2	1	
B-7-5	3	2300	8/17/21	9:40	9:57	E-1182-08	200	GOOSE.1	M100.114	SG	X	X	<2	1	
B-7-15	3	2470	8/17/21	10:02	10:13	E-1182-09	200	SAMPLER.2	118012	SG	X	X	<2	1	
B-6-5	3	2300	8/17/21	10:28	10:30	E-1182-10	200	GOOSE.1	M100.201	SG	X	X	<2	1	

**Representative Signature** \_\_\_\_\_ **Printed Name**  
 Dave Lucero

**Company** DL Science **Date** 8/17/2021 **Time** 14:12

**Laboratory Signature** \_\_\_\_\_ **Printed Name**  
 Dylan Lindsay

**Company** JONES ENVIRONMENTAL, INC. **Date** 8/17/2021 **Time** 14:12

10 Total Number of Containers

**Representative Signature** \_\_\_\_\_ **Printed Name**

**Company** \_\_\_\_\_ **Date** \_\_\_\_\_ **Time** \_\_\_\_\_

**Laboratory Signature** \_\_\_\_\_ **Printed Name**

**Company** \_\_\_\_\_ **Date** \_\_\_\_\_ **Time** \_\_\_\_\_

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.



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 Fax (714) 449-9685  
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# Soil-Gas Chain-of-Custody Record

**Client**  
**DL Science**

**Project Name**  
**1933 N Temple Ave**

**Project Address**  
**1933 N Temple Ave**

**Long Beach, CA 90806**

**Email**

**Phone**

**Report To**  
**Dave Lucero**

**Sampler**  
**Dylan Lindsay**

**Date**  
 8/17/2021

**Client Project #**

**Turn Around Requested**

Immediate Attention  
 Rush 24 Hours  
 Rush 48 Hours  
 Rush 72 Hours  
 Normal  
 Mobile Lab

**Reporting Limits**

Standard  Low Level\*  MDL\*  
\*surcharge for these limits

**Purge Number:**  
 1P  3P  7P  10P

**Shut-In Test:** (Y) N

**Report Options**  
 EDD \_\_\_\_\_  
 EDF\* - 10% Surcharge \_\_\_\_\_

\*Global ID \_\_\_\_\_

**Tracer**

n-pentane  
 n-hexane  
 n-heptane  
 Isopropyl Alcohol  
 1,1-DFA

**Analysis Requested**

Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B (VOCs)	Gasoline Range Organics	Magnehelic Vacuum (in/H <sub>2</sub> O)	Number of Containers
--	------------------	-------------------------	---	----------------------

**Units**  
 mg/m<sup>3</sup>

**LAB USE ONLY**

**Jones Project #**  
**E-1182**

**Page**  
 2 of 2

**Sample Container:**  
 GASTIGHT GLASS SYRINGE  
If different than above, see Notes.

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B (VOCs)	Gasoline Range Organics	Magnehelic Vacuum (in/H <sub>2</sub> O)	Number of Containers	Notes & Special Instructions
B-6-5 REP	3	2300	8/17/21	10:36	10:50	E-1182-11	200	GOOSE.1	M100.201	SG	X	X	<2	1	
B-6-15	3	2470	8/17/21	11:04	11:09	E-1182-12	200	SAMPLER.2	M100.203	SG	X	X	<2	1	
B-1-5	3	2300	8/17/21	11:23	11:27	E-1182-13	200	GOOSE.1	M100.114	SG	X	X	<2	1	
B-1-15	3	2470	8/17/21	11:35	11:48	E-1182-14	200	SAMPLER.2	118012	SG	X	X	<2	1	
B-2-5	3	2300	8/17/21	12:02	12:05	E-1182-15	200	GOOSE.1	M100.201	SG	X	X	<2	1	
B-2-15	3	2470	8/17/21	12:21	12:23	E-1182-16	200	SAMPLER.2	M100.203	SG	X	X	<2	1	
B-3-5	3	2300	8/17/21	12:42	12:43	E-1182-17	200	GOOSE.1	M100.114	SG	X	X	<2	1	
B-3-15	3	2470	8/17/21	12:59	13:01	E-1182-18	200	SAMPLER.2	118012	SG	X	X	<2	1	
B-4-5	3	2300	8/17/21	13:18	13:20	E-1182-19	200	GOOSE.1	M100.201	SG	X	X	<2	1	
B-4-15	3	2470	8/17/21	13:23	13:40	E-1182-20	200	SAMPLER.2	M100.203	SG	X	X	<2	1	

<b>Representative Signature</b> 	<b>Printed Name</b> Dave Lucero	<b>Laboratory Signature</b> 	<b>Printed Name</b> Dylan Lindsay	10	Total Number of Containers
<b>Company</b> DL Science	<b>Date</b> 8/17/2021	<b>Time</b> 14:12	<b>Company</b> JONES ENVIRONMENTAL, INC.	<b>Date</b> 8/17/2021	<b>Time</b> 14:12
<b>Representative Signature</b>	<b>Printed Name</b>	<b>Laboratory Signature</b>	<b>Printed Name</b>	Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.	
<b>B-6-15</b>	<b>Date</b>	<b>Time</b>	<b>Company</b>	<b>Date</b>	<b>Time</b>



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:** 532 W. Maple Ave.  
El Segundo, CA 90245

**Report date:** 8/18/2021  
**JEL Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021  
**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA


**Date Analyzed:** 8/17/2021  
**Physical State:** Soil

---

**ANALYSES REQUESTED**

1. STLC Waste Extraction Test by ICP-OES

**Approval:**

  
Annalise O'Toole



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:** 532 W. Maple Ave.  
El Segundo, CA 90245

**Report date:** 8/18/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021  
**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/17/2021  
**Physical State:** Soil

---

**STLC Waste Extraction Test by ICP-OES**

---

**Sample ID:** B-6@5'

**Jones ID:** ST-17934-16

**Reporting Limit**      **Units**

**Analytes:**

**Lead, Pb**                      **0.13**

0.01                      mg/L

**Dilution Factor**                      1

**Batch:** 121081701

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

**Client:** DL Science, Inc.  
**Client Address:** 532 W. Maple Ave.  
El Segundo, CA 90245

**Report date:** 8/18/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021

**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/17/2021

**Physical State:** Soil

**BATCH:** I21081701      **Prepared:** 8/17/2021      **Analyzed:** 8/17/2021

**STLC Waste Extraction Test by ICP-OES**

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Reporting Limit	Units
<b>Method Blank:</b>	<b>I210817-MB1</b>						
Lead, Pb	ND					0.01	mg/L

<b>LCS:</b>	<b>I210817-LCS1</b>						
Lead, Pb	4.95	5.00	99%		80 - 120		mg/L

<b>LCSD:</b>	<b>I210817-LCSD1</b>						
Lead, Pb	4.95	5.00	99%		80 - 120		mg/L

<b>CCV:</b>	<b>I210817-CCV1</b>						
Lead, Pb	1.04	1.00	104%		90-110		mg/L

ND= Not Detected  
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

LCS = Laboratory Control Sample  
LCSD= Laboratory Control Sample Duplicate  
CCV = Continuing Calibration Verification



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** DL Science, Inc.  
**Client Address:** 532 W. Maple Ave  
El Segundo, CA

**Report date:** 8/18/2021  
**Jones Ref. No.:** ST-17934

**Attn:** David L. Lucero

**Date Sampled:** 8/4/2021  
**Date Received:** 8/4/2021

**Project:** 1933 N. Temple Ave.  
**Project Address:** 1933 N. Temple Ave.  
Signal Hill, CA

**Date Analyzed:** 8/17/2021  
**Physical State:** Soil

**STLC Waste Extraction Test by Cold Vapor Atomic Absorption**

**Sample ID:** B-10@5'

**Jones ID:** ST-17934-29

**Reporting Limit**      **Units**

**Analytes:**

**Mercury, Hg**                      **40.06**                                      0.10                      µg/L

**Dilution Factor**                      1

**Batch:** H21081601

ND = Value less than reporting limit



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

<b>Client:</b>	DL Science, Inc.	<b>Report date:</b>	8/18/2021
<b>Client Address:</b>	532 W. Maple Ave El Segundo, CA	<b>Jones Ref. No.:</b>	ST-17934
<b>Attn:</b>	David L. Lucero	<b>Date Sampled:</b>	8/4/2021
<b>Project:</b>	1933 N. Temple Ave.	<b>Date Received:</b>	8/4/2021
<b>Project Address:</b>	1933 N. Temple Ave. Signal Hill, CA	<b>Date Analyzed:</b>	8/17/2021
		<b>Physical State:</b>	Soil

**BATCH:** H21081601      **Prepared:** 8/16/2021      **Analyzed:** 8/17/2021

**STLC Waste Extraction Test by Cold Vapor Atomic Absorption**

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Reporting Limit	Units
<b>Method Blank:</b>	<b>H210816-MB1</b>						
Lead, Pb	ND					0.01	µg/L

<b>LCS:</b>	<b>H210816-LCS1</b>						
Lead, Pb	5.28	5.00	106%		80 - 120		µg/L

<b>LCSD:</b>	<b>H210816-LCSD1</b>						
Lead, Pb	5.35	5.00	107%	1.3%	80 - 120		µg/L

<b>CCV:</b>	<b>H210816-CCV1</b>						
Lead, Pb	5.06	5.00	101%		90-110		µg/L

ND= Not Detected  
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

LCS = Laboratory Control Sample  
LCSD= Laboratory Control Sample Duplicate  
CCV = Continuing Calibration Verification



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# Chain-of-Custody Record

### Turn Around Requested:

- Immediate Attention - 200%
- Rush 24 Hours - 100%
- Rush 48 Hours - 50%
- Rush 72 Hours - 25%
- Rush 96 Hours - 10%
- Normal - No Surcharge

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Jones Project #

ST-17934

Page

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### Report Options

EDD \_\_\_\_\_  
 EDF\* - 10% Surcharge \_\_\_\_\_  
 \*Global ID \_\_\_\_\_

Client: DL SCIENCE, INC.  
 Project Name: 1933 N. TEMPLE AVE.  
 Project Address: 1933 N. TEMPLE AVE  
 SIGNAL HILL, CA.  
 Email: dlucero@sbcglobal.net  
 Phone: (818) 731-9644  
 Report To: DL LUCERO / DL LUCERO (Sampler)

Date: 8/4/21  
 Client Project #: -

### Sample Container / Preservative Abbreviations

- AS - Acetate Sleeve
- SS - Stainless Steel Sleeve
- BS - Brass Sleeve
- G - Glass
- AB - Amber Bottle
- P - Plastic
- SOBI - Sodium Bisulfate
- MeOH - Methanol
- HCl - Hydrochloric Acid
- HNO3 - Nitric Acid
- O - Other (See Notes)

### Analysis Requested

Sample Matrix:	Soil (S)	Sediment (SL)	Aqueous (A)	Free Product (FP)
CC10 (C1-C12, C13-C22)	X			
C13-C14 (EPA METHOD 8015M)				
TITLE 22 METALS (EPA METHOD 6610/7240)	X			
HEAVY METALS (EPA METHOD 7144)	X			
VOC/PAH (EPA METHOD 8210)	X			
SUOC (EPA METHOD 8270C)	X			

Sample ID	Sample Collection Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Soil (S)	Sediment (SL)	Aqueous (A)	Free Product (FP)	Number of Containers	Notes & Special Instructions
B-1 @ 5'	8/4/21	1100	ST-17934-01		AS/FC	X				4	
B-1 @ 10'		1105	ST-17934-02			X					
B-1 @ 15'		1110	ST-17934-03			X					
B-2 @ 5'		1025	ST-17934-04			X					
B-2 @ 10'		1030	ST-17934-05			X					
B-2 @ 15'		1035	ST-17934-06			X					
B-3 @ 5'		0710	ST-17934-07			X					
B-3 @ 10'		0715	ST-17934-08			X					
B-3 @ 15'		0720	ST-17934-09			X					
B-4 @ 5'		0735	ST-17934-10			X					

Relinquished By (Signature):	Printed Name: DL LUCERO	Date: 8/4/21	Time: 1335 hr.	Received By (Signature):	Printed Name: Kiara	Date: 8/4/21	Time: 1335
Company: DL SCIENCE, INC.	Company: JEL	Total Number of Containers: 40		Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.			





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# Chain-of-Custody Record

## Turn Around Requested:

- Immediate Attention - 200%
- Rush 24 Hours - 100%
- Rush 48 Hours - 50%
- Rush 72 Hours - 25%
- Rush 96 Hours - 10%
- Normal - No Surcharge

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Jones Project #

ST-17934

Page

3 of 4

## Report Options

EDD \_\_\_\_\_  
EDF\* - 10% Surcharge \_\_\_\_\_  
\*Global ID \_\_\_\_\_

Client: DL SCIENCE, INC.  
Project Name: 1933 N. TEMPLE AVE.  
Project Address: 1933 N. TEMPLE AVE.  
SIGNAL HILL, CO.  
Email: dlucero@sbcglobal.net  
Phone: (818) 731-9644  
Report To: DLUCERO / Sampler: DLUCERO

Date: 8/4/21  
Client Project #:  
Sample Container / Preservative Abbreviations:  
AS - Acetate Sleeve  
SS - Stainless Steel Sleeve  
BS - Brass Sleeve  
G - Glass  
AB - Amber Bottle  
P - Plastic  
SOBI - Sodium Bisulfate  
MeOH - Methanol  
HCl - Hydrochloric Acid  
HNO3 - Nitric Acid  
O - Other (See Notes)

## Analysis Requested

Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	Analysis Requested	Number of Containers
CC10 (Cp-C12, C13-C21) C22-C24 METHANOL & 15M		
TI1022 METALS (EPA) METHANOL 6010 (EPA)		
HEAVY METALS CHROMIUM (EPA METHOD 7190A)		
VOC (EPA) (EPA METHOD 8210)		
SUCC (EPA) METHOD P (EPA)		

Sample ID	Sample Collection Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	AS/ T-C	AS	SS	BS	G	AB	P	SOBI	MeOH	HCl	HNO3	O	Number of Containers	Notes & Special Instructions
B-7e15'	8/4/21	0946	ST-17934-21		AS/T-C		X											4	
B-8e5'		0855	ST-17934-22				X												
B-8e10'		0902	ST-17934-23				X												
B-8e15'		0905	ST-17934-24				X												
B-9e5'		1135	ST-17934-25				X												
B-9e10'		1140	ST-17934-26				X												
B-9e15'		1145	ST-17934-27				X												
B-9e20'		1150	ST-17934-28				X												
B-10e5'		0815	ST-17934-29				X												
B-10e10'		0820	ST-17934-30				X												

Relinquished By (Signature): [Signature]  
Printed Name: DLUCERO  
Company: DL SCIENCE, INC.  
Date: 8/4/21 Time: 1335

Received By (Signature): [Signature]  
Printed Name: Kiara  
Company: JEL  
Date: 8/4/21 Time: 1335

Total Number of Containers: 40  
Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.



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# Chain-of-Custody Record

### Turn Around Requested:

- Immediate Attention - 200%
- Rush 24 Hours - 100%
- Rush 48 Hours - 50%
- Rush 72 Hours - 25%
- Rush 96 Hours - 10%
- Normal - No Surcharge

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Jones Project #

ST-17934

Page

4 of 4

Client: DL SCIENCE, INC.  
 Project Name: 1933 N. TEMPLE AVE.  
 Project Address: 1933 N. TEMPLE AVE.  
 SIGNAL HILL, CA.  
 Email: dlucero@shglobal.net  
 Phone: (818) 731-9644  
 Report To: DL LUCERO / Sampler DL LUCERO

Date: 8/4/21  
 Client Project #: -  
 Sample Container / Preservative Abbreviations:  
 AS - Acetate Sleeve  
 SS - Stainless Steel Sleeve  
 BS - Brass Sleeve  
 G - Glass  
 AB - Amber Bottle  
 P - Plastic  
 SOBI - Sodium Bisulfate  
 MeOH - Methanol  
 HCl - Hydrochloric Acid  
 HNO3 - Nitric Acid  
 O - Other (See Notes)

### Analysis Requested

Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	CC1P (C4-C12) C13-C20 C20-C40 EPA METHOD 8015M	TITLE 22 METALS (EPA METHOD 6010B/3024)	HEXANALGENT CARBON (EPA METHOD 719.6A)	VOC/PROP/ESTER METHOD (EPA 8210 B)	SVOC (EPA METHOD 8270C)
S	X	X	X	X	X
↓	X	X	X	X	X

Sample ID	Sample Collection Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Sample Matrix	CC1P (C4-C12) C13-C20 C20-C40 EPA METHOD 8015M	TITLE 22 METALS (EPA METHOD 6010B/3024)	HEXANALGENT CARBON (EPA METHOD 719.6A)	VOC/PROP/ESTER METHOD (EPA 8210 B)	SVOC (EPA METHOD 8270C)	Number of Containers	Notes & Special Instructions
B-10 @ 15'	8/4/21	0825	ST-17934-31	AS	AS - T-C	S	X	X	X	X	X	4	
B-10 @ 20'	↓	0830	ST-17934-32		↓	↓	X	X	X	X	X	2	

Relinquished By (Signature):	Printed Name: DL LUCERO	Received By (Signature):	Printed Name: Kiana	Total Number of Containers: 2
Company: DL SCIENCE, INC.	Date: 8/4/21 Time: 1335	Company: JEL	Date: 8/4/21 Time: 1335	

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.



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805-399-0060

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### JONES ENVIRONMENTAL LABORATORY RESULTS

**Client:** DL Science, Inc  
**Client Address:** 532 W. Maple Ave  
El Segundo, CA 90245

**Report date:** 8/24/2021  
**Jones Ref. No.:** ST-18018

**Attn:** Dave Lucero  
**Project:** 1933 N Temple Ave  
**Project Address:** 1933 N Temple Ave  
Long Beach, CA 90806

**Date Sampled:** 8/17/2021  
**Date Received:** 8/17/2021  
**Date Analyzed:** 8/18/2021  
**Physical State:** Soil Gas

---

#### ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Approval:

Colby Wakeman  
QA/QC Manager



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562-646-1611  
805-399-0060

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### JONES ENVIRONMENTAL LABORATORY RESULTS

**Client:** DL Science, Inc  
**Client Address:** 532 W. Maple Ave  
El Segundo, CA 90245

**Report date:** 8/24/2021  
**Jones Ref. No.:** ST-18018

**Attn:** Dave Lucero

**Date Sampled:** 8/17/2021  
**Date Received:** 8/17/2021

**Project:** 1933 N Temple Ave  
1933 N Temple Ave  
Long Beach, CA 90806

**Date Analyzed:** 8/18/2021  
**Physical State:** Soil Gas

#### EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

**Sample ID:** B-5-5 B-5-15

**Jones ID:** ST-18018-01 ST-18018-02

			<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>				
Benzene	ND	ND	8	µg/m3
Bromobenzene	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	8	µg/m3
Bromoform	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	12	µg/m3
sec-Butylbenzene	ND	ND	12	µg/m3
tert-Butylbenzene	ND	ND	12	µg/m3
Carbon tetrachloride	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	8	µg/m3
Chloroform	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	12	µg/m3
4-Chlorotoluene	ND	ND	12	µg/m3
Dibromochloromethane	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	8	µg/m3
Dibromomethane	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	16	µg/m3
1,3-Dichlorobenzene	ND	ND	16	µg/m3
1,4-Dichlorobenzene	ND	ND	16	µg/m3
Dichlorodifluoromethane	ND	ND	8	µg/m3
1,1-Dichloroethane	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	16	µg/m3
1,1-Dichloropropene	ND	ND	10	µg/m3

**JONES ENVIRONMENTAL LABORATORY RESULTS**

**EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics**

<b><u>Sample ID:</u></b>	<b>B-5-5</b>	<b>B-5-15</b>		
<b><u>Jones ID:</u></b>	<b>ST-18018-01</b>	<b>ST-18018-02</b>	<b><u>Reporting Limit</u></b>	<b><u>Units</u></b>
<b>Analytes:</b>				
cis-1,3-Dichloropropene	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	8	µg/m3
Freon 113	ND	ND	16	µg/m3
Hexachlorobutadiene	ND	ND	24	µg/m3
Isopropylbenzene	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	8	µg/m3
Methylene chloride	ND	ND	8	µg/m3
Naphthalene	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	8	µg/m3
Styrene	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	16	µg/m3
Tetrachloroethene	<b>30</b>	ND	8	µg/m3
Toluene	ND	<b>15</b>	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	16	µg/m3
1,2,4-Trichlorobenzene	ND	ND	16	µg/m3
1,1,1-Trichloroethane	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	8	µg/m3
Trichloroethene	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	16	µg/m3
1,2,3-Trichloropropane	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	16	µg/m3
o-Xylene	ND	ND	8	µg/m3
MTBE	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	400	µg/m3
Gasoline Range Organics (C4-C12)	ND	ND	2000	µg/m3
<b><u>Tracer:</u></b>				
n-Pentane	ND	ND	80	µg/m3
n-Hexane	ND	ND	80	µg/m3
n-Heptane	ND	ND	80	µg/m3
<b><u>Dilution Factor</u></b>				
	1	1		
<b><u>Surrogate Recoveries:</u></b>				
1,2-Dichloroethane-d <sub>4</sub>	136%	135%		<b><u>QC Limits</u></b> 60 - 140
Toluene-d <sub>8</sub>	87%	88%		60 - 140
4-Bromofluorobenzene	89%	91%		60 - 140
<b><u>Batch ID:</u></b>				
	D1-081821-01	D1-081821-01		

ND = Value below reporting limit



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### JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

**Client:** DL Science, Inc  
**Client Address:** 532 W. Maple Ave  
El Segundo, CA 90245

**Report date:** 8/24/2021  
**Jones Ref. No.:** ST-18018

**Attn:** Dave Lucero

**Date Sampled:** 8/17/2021  
**Date Received:** 8/17/2021

**Project:** 1933 N Temple Ave  
1933 N Temple Ave  
Long Beach, CA 90806

**Date Analyzed:** 8/18/2021  
**Physical State:** Soil Gas

#### EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	<b>METHOD</b>	<b>SAMPLING</b>		
	<b>BLANK</b>	<b>BLANK</b>		
<u>Jones ID:</u>	<b>081821- D1MB1</b>	<b>081821- D1SB1</b>	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>				
Benzene	ND	ND	8	µg/m3
Bromobenzene	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	8	µg/m3
Bromoform	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	12	µg/m3
sec-Butylbenzene	ND	ND	12	µg/m3
tert-Butylbenzene	ND	ND	12	µg/m3
Carbon tetrachloride	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	8	µg/m3
Chloroform	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	12	µg/m3
4-Chlorotoluene	ND	ND	12	µg/m3
Dibromochloromethane	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	8	µg/m3
Dibromomethane	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	16	µg/m3
1,3-Dichlorobenzene	ND	ND	16	µg/m3
1,4-Dichlorobenzene	ND	ND	16	µg/m3
Dichlorodifluoromethane	ND	ND	8	µg/m3
1,1-Dichloroethane	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	16	µg/m3
1,1-Dichloropropene	ND	ND	10	µg/m3

## JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

### EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	METHOD BLANK	SAMPLING BLANK		
<u>Jones ID:</u>	081821- D1MB1	081821- D1SB1	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>				
cis-1,3-Dichloropropene	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	8	µg/m3
Freon 113	ND	ND	16	µg/m3
Hexachlorobutadiene	ND	ND	24	µg/m3
Isopropylbenzene	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	8	µg/m3
Methylene chloride	ND	ND	8	µg/m3
Naphthalene	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	8	µg/m3
Styrene	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	16	µg/m3
Tetrachloroethene	ND	ND	8	µg/m3
Toluene	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	16	µg/m3
1,2,4-Trichlorobenzene	ND	ND	16	µg/m3
1,1,1-Trichloroethane	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	8	µg/m3
Trichloroethene	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	16	µg/m3
1,2,3-Trichloropropane	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	16	µg/m3
o-Xylene	ND	ND	8	µg/m3
MTBE	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	400	µg/m3
<b>Tracer:</b>				
n-Pentane	ND	ND		
n-Hexane	ND	ND		
n-Heptane	ND	ND	80	µg/m3
<b><u>Dilution Factor</u></b>	1	1		
<b><u>Surrogate Recoveries:</u></b>				
1,2-Dichloroethane-d <sub>4</sub>	136%	131%	<b><u>QC Limits</u></b>	60 - 140
Toluene-d <sub>8</sub>	88%	89%		60 - 140
4-Bromofluorobenzene	91%	92%		60 - 140
<b><u>Batch ID:</u></b>	D1-081821- 01	D1-081821- 01		

ND = Value below reporting limit



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

<b>Client:</b>	DL Science, Inc	<b>Report date:</b>	8/24/2021
<b>Client Address:</b>	532 W. Maple Ave El Segundo, CA 90245	<b>Jones Ref. No.:</b>	ST-18018
<b>Attn:</b>	Dave Lucero	<b>Date Sampled:</b>	8/17/2021
<b>Project:</b>	1933 N Temple Ave 1933 N Temple Ave Long Beach, CA 90806	<b>Date Received:</b>	8/17/2021
		<b>Date Analyzed:</b>	8/18/2021
		<b>Physical State:</b>	Soil Gas

**EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics**

<b>Batch ID:</b>	D1-081821-01					
<b>Jones ID:</b>	<b>081821-D1LCS1</b>	<b>081821-D1LCSD1</b>			<b>081821-D1CCV1</b>	
<u>Parameter</u>	LCS Recovery (%)	LCSD Recovery (%)	<u>RPD</u>	Acceptability Range (%)	<u>CCV</u>	Acceptability Range (%)
Vinyl chloride	86%	77%	10.8%	60 - 140	103%	80 - 120
1,1-Dichloroethene	103%	98%	4.8%	60 - 140	95%	80 - 120
Cis-1,2-Dichloroethene	122%	112%	8.7%	70 - 130	105%	80 - 120
1,1,1-Trichloroethane	119%	112%	5.9%	70 - 130	116%	80 - 120
Benzene	119%	113%	5.3%	70 - 130	108%	80 - 120
Trichloroethene	124%	114%	8.8%	70 - 130	113%	80 - 120
Toluene	121%	116%	4.1%	70 - 130	108%	80 - 120
Tetrachloroethene	115%	106%	8.2%	70 - 130	106%	80 - 120
Chlorobenzene	110%	104%	5.9%	70 - 130	101%	80 - 120
Ethylbenzene	125%	118%	5.6%	70 - 130	112%	80 - 120
1,2,4 Trimethylbenzene	112%	107%	4.8%	70 - 130	102%	80 - 120
Gasoline Range Organics (C4-C12)	119%	114%	4.9%	70 - 130	107%	80 - 120
<b><u>Surrogate Recovery:</u></b>						
1,2-Dichloroethane-d <sub>4</sub>	134%	135%		60 - 140	125%	59 - 140
Toluene-d <sub>8</sub>	87%	88%		60 - 140	87%	60 - 140
4-Bromofluorobenzene	89%	92%		60 - 140	93%	60 - 140

LCS = Laboratory Control Sample  
 LCSD = Laboratory Control Sample Duplicate  
 CCV = Continuing Calibration Verification  
 RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%



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# Soil-Gas Chain-of-Custody Record

LAB USE ONLY

Jones Project #

ST-18018

Page 1 of 1

Sample Container:  
GASTIGHT GLASS SYRINGE  
If different than above, see Notes.

Client  
**DL Science**

Project Name  
**1933 N Temple Ave**

Project Address  
**1933 N Temple Ave**

**Long Beach, CA 90806**

Email

Phone

Date  
**8/17/2021**

Purge Number:  
 1P  3P  7P  10P

Report Options  
EDD \_\_\_\_\_  
EDF\* - 10% Surcharge \_\_\_\_\_

Client Project #

Shut-In Test:  Y  N

\*Global ID \_\_\_\_\_

Turn Around Requested  
 Immediate Attention  
 Rush 24 Hours  
 Rush 48 Hours  
 Rush 72 Hours  
 Normal  
 Mobile Lab

Reporting Limits  
 Standard  Low Level\*  MDL\*  
\*surcharge for these limits

Tracer  
 n-pentane  
 n-hexane  
 n-heptane  
 Isopropyl Alcohol  
 1,1-DFA

Analysis Requested

Units  
mg/m<sup>3</sup>

Report To  
**Dave Lucero**

Sampler  
**Dylan Lindsay**

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B (VOCs)	Gasoline Range Organics	Magnehelic Vacuum (In/H <sub>2</sub> O)	Number of Containers	Notes & Special Instructions
B-5-5	3	2300	8/17/21	14:04		ST-18018 01	200	GOOSE.1	M100.114	SG	X	X	<2	1	
B-5-15	3	2470	8/17/21	13:45		ST-18018 02	200	SAMPLER.2	118012	SG	X	X	<2	1	
			8/17/21												
			8/17/21												
			8/17/21												
			8/17/21												
			8/17/21												
			8/17/21												
			8/17/21												

Representative Signature

Printed Name  
**Dave Lucero**

Company  
DL Science

Date  
8/17/2021

Time  
14:12

Laboratory Signature

Printed Name  
**Dylan Lindsay**

Company

Date  
8/17/2021

Time  
14:12

2 Total Number of Containers

Representative Signature

Printed Name  
**Dylan Lindsay**

Company  
Jones Env

Date  
8/17/21

Time  
15:00

Laboratory Signature

Printed Name

Company

Date

Time

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.

# **APPENDIX D**

## **Boring Logs**

# BORING LOG: B-1

Date: 4-Aug-21  
 Project: 1933 N. Temple Avenue, Signal Hill, CA  
 Drilling: GeoProbe Direct-Push  
 Boring Diameter: 1.75-inch  
 Elevation Top of Hole: 118 feet amsl

Drive Weight: N.A. Drop: N.A.  
 Reference: see Site Plan

Elevation (Feet)	Depth (ft)	Graphic Log	Time	Sample No.	PID	Odors	Soil Class. (USCS)	GEOLOGIC DESCRIPTION
	0							Unpaved soil
	5				ND		ML	Brown very fine sandy silt, slightly moist, loose, no odor
	10				ND		SM	Brown silty very fine grained sand, slightly cohesive, slightly moist, no odor
	15				ND		SW	Light brown very fine grained sand, slightly moist, loose, no odor
	20							Total Depth = 15 feet, no groundwater encountered.
	25							
	30							

Sampled By DL \_\_\_\_\_ Checked By KMC \_\_\_\_\_

# BORING LOG: B-2

Date: 4-Aug-21  
 Project: 1933 N. Temple Avenue, Signal Hill, CA  
 Drilling: GeoProbe Direct-Push  
 Boring Diameter: 1.75-inch  
 Elevation Top of Hole: 120 feet amsl

Drive Weight: N.A. Drop: N.A.  
 Reference: see Site Plan

Elevation (Feet)	Depth (ft)	Graphic Log	Time	Sample No.	PID	Odors	Soil Class. (USCS)	GEOLOGIC DESCRIPTION
	0							Unpaved soil
	5				ND		ML	Brown very fine sandy silt, slightly moist, loose, no odor
	10				ND		SW	Brown slightly silty very fine grained sand, slightly moist, loose, no odor
	15				ND		SW	Light brown very fine grained sand, slightly moist, loose, no odor
	20							Total Depth = 15 feet, no groundwater encountered.
	25							
	30							

Sampled By DL \_\_\_\_\_ Checked By KMC \_\_\_\_\_

# BORING LOG: B-3

Date: 4-Aug-21  
 Project: 1933 N. Temple Avenue, Signal Hill, CA  
 Drilling: GeoProbe Direct-Push  
 Boring Diameter: 1.75-inch  
 Elevation Top of Hole: 122 feet amsl

Drive Weight: N.A. Drop: N.A.  
 Reference: see Site Plan

Elevation (Feet)	Depth (ft)	Graphic Log	Time	Sample No.	PID	Odors	Soil Class. (USCS)	GEOLOGIC DESCRIPTION
								Sampled By DL _____ Checked By KMC _____
	0							4-inches of asphalt
	5				2.1		ML	Brown very fine sandy silt, slightly moist, loose, no odor
	10				ND		SM	Brown slightly silty very fine grained sand, slightly moist, slightly cohesive, no odor
	15				1.2		SW	Light brown very fine grained sand, slightly moist, loose, no odor
	20							Total Depth = 15 feet, no groundwater encountered.
	25							
	30							

# BORING LOG: B-4

Date: 4-Aug-21  
 Project: 1933 N. Temple Avenue, Signal Hill, CA  
 Drilling: GeoProbe Direct-Push  
 Boring Diameter: 1.75-inch  
 Elevation Top of Hole: 121 feet amsl

Drive Weight: N.A. Drop: N.A.  
 Reference: see Site Plan

Elevation (Feet)	Depth (ft)	Graphic Log	Time	Sample No.	PID	Odors	Soil Class. (USCS)	GEOLOGIC DESCRIPTION
	0							Sampled By DL _____ Checked By KMC _____
								<b>2-inches of asphalt</b>
	5				ND		SM	Brown silty very grained sand, slightly moist, loose, no odor
	10				ND		SM	Brown silty very grained sand, slightly moist, cohesive, no odor
	15				ND		SW	Light brown very fine grained sand, slightly moist, loose, no odor
	20							Total Depth = 15 feet, no groundwater encountered.
	25							
	30							

# BORING LOG: B-5

Date: 4-Aug-21

Project: 1933 N. Temple Avenue, Signal Hill, CA

Drilling: GeoProbe Direct-Push

Boring Diameter: 1.75-inch

Elevation Top of Hole: 121 feet amsl

Drive Weight: N.A. Drop: N.A.

Reference: see Site Plan

Elevation (Feet)	Depth (ft)	Graphic Log	Time	Sample No.	PID	Odors	Soil Class. (USCS)	GEOLOGIC DESCRIPTION
	0							Sampled By DL _____ Checked By KMC _____
	4							<b>4 inches of concrete</b>
	5				ND		SM	Reddish brown to brown silty very fine grained sand, slightly moist, slightly cohesive. no odor
	10				ND		SW	Light brown very fine grained sand. slightly moist. loose. no odor
	15				ND		SW	Light brown very fine grained sand. slightly moist. loose. no odor
	20							Total Depth = 15 feet, no groundwater encountered.
	25							
	30							

# BORING LOG: B-6

Date: 4-Aug-21  
 Project: 1933 N. Temple Avenue, Signal Hill, CA  
 Drilling: GeoProbe Direct-Push  
 Boring Diameter: 1.75-inch  
 Elevation Top of Hole: 116 feet amsl

Drive Weight: N.A. Drop: N.A.  
 Reference: see Site Plan

Elevation (Feet)	Depth (ft)	Graphic Log	Time	Sample No.	PID	Odors	Soil Class. (USCS)	GEOLOGIC DESCRIPTION
	0							Unpaved soil
	5				ND		ML	Brown very fine sandy silt, slightly moist, slightly cohesive, no odor
	10				ND		ML	Brown very fine sandy silt, slightly moist, slightly cohesive, no odor
	15				ND		SM	Light brown very fine grained sand, slightly moist, loose, no odor
	20							Total Depth = 15 feet, no groundwater encountered.
	25							
	30							

Sampled By DL \_\_\_\_\_ Checked By KMC \_\_\_\_\_

# BORING LOG: B-7

Date: 4-Aug-21  
 Project: 1933 N. Temple Avenue, Signal Hill, CA  
 Drilling: GeoProbe Direct-Push  
 Boring Diameter: 1.75-inch  
 Elevation Top of Hole: 116 feet amsl

Drive Weight: N.A. Drop: N.A.  
 Reference: see Site Plan

Elevation (Feet)	Depth (ft)	Graphic Log	Time	Sample No.	PID	Odors	Soil Class. (USCS)	GEOLOGIC DESCRIPTION
	0							Unpaved soil
	5				ND		SP	Brown slightly silty very fine grained sand, slightly moist, loose, no odor
	10				ND		SM	Brown silty very fine grained sand, slightly moist, loose, no odor
	15				ND		SM	Brown silty very fine grained sand, slightly moist, loose, no odor
	20							Total Depth = 15 feet, no groundwater encountered.
	25							
	30							

Sampled By DL \_\_\_\_\_ Checked By KMC \_\_\_\_\_

# BORING LOG: B-8

Date: 4-Aug-21

Project: 1933 N. Temple Avenue, Signal Hill, CA

Drilling: GeoProbe Direct-Push

Boring Diameter: 1.75-inch

Drive Weight: N.A. Drop: N.A.

Elevation Top of Hole: 116 feet amsl

Reference: see Site Plan

Elevation (Feet)	Depth (ft)	Graphic Log	Time	Sample No.	PID	Odors	Soil Class. (USCS)	GEOLOGIC DESCRIPTION
	0							Unpaved soil
	5				ND		SM	Brown silty very fine grained sand, slightly moist, slightly cohesive, no odor
	10				ND		ML	Brown very fine sand/silt, slightly moist, slightly cohesive, no odor
	15				ND		SM	Brown silty very fine grained sand, slightly moist, loose, no odor
	20							Total Depth = 15 feet, no groundwater encountered.
	25							
	30							

Sampled By DL \_\_\_\_\_ Checked By KMC \_\_\_\_\_

# BORING LOG: B-9

Date: 4-Aug-21  
 Project: 1933 N. Temple Avenue, Signal Hill, CA  
 Drilling: GeoProbe Direct-Push  
 Boring Diameter: 1.75-inch  
 Elevation Top of Hole: 116 feet amsl

Drive Weight: N.A. Drop: N.A.  
 Reference: see Site Plan

Elevation (Feet)	Depth (ft)	Graphic Log	Time	Sample No.	PID	Odors	Soil Class. (USCS)	GEOLOGIC DESCRIPTION
	0							Unpaved soil
	5				ND		ML	Brown very fine sandy silt, slightly moist, loose, no odor
	10				ND		SM	Brown silty very fine grained sand, slightly moist, slightly cohesive, no odor
	15				ND		SP	Light brown slightly silty very fine grained sand, slightly moist, loose, no odor
	20				ND		SM	Light brown slightly silty very fine grained sand, slightly moist, loose, no odor
	25							Total Depth = 20 feet, no groundwater encountered.
	30							

Sampled By DL \_\_\_\_\_ Checked By KMC \_\_\_\_\_

# BORING LOG: B-10

Date: 4-Aug-21  
 Project: 1933 N. Temple Avenue, Signal Hill, CA  
 Drilling: GeoProbe Direct-Push  
 Boring Diameter: 1.75-inch  
 Elevation Top of Hole: 116 feet amsl

Drive Weight: N.A. Drop: N.A.  
 Reference: see Site Plan

Elevation (Feet)	Depth (ft)	Graphic Log	Time	Sample No.	PID	Odors	Soil Class. (USCS)	GEOLOGIC DESCRIPTION
	0							Unpaved soil
	5				ND		ML	Brown very fine sandy silt, slightly moist, loose, no odor
	10				ND		ML	Brown very fine sandy silt, slightly moist, loose, no odor
	15				ND		SM	Brown silty very fine grained sand, slightly moist, loose, no odor
	20				ND		SW	Light brown very fine grained sand, slightly moist, loose, no odor
	25							Total Depth = 20 feet, no groundwater encountered.
	30							

Sampled By DL \_\_\_\_\_ Checked By KMC \_\_\_\_\_

# BORING LOG: SS-1

Date: 21-Oct-21  
 Project: 1933 N. Temple Avenue, Signal Hill, CA  
 Drilling: GeoProbe Direct-Push 6600  
 Boring Diameter: 1.75-inch  
 Elevation Top of Hole: 115 feet amsl

Drive Weight: N.A. Drop: N.A.  
 Reference: see Site Plan

Elevation (Feet)	Depth (ft)	Graphic Log	Time	Sample No.	PID	Odors	Soil Class. (USCS)	GEOLOGIC DESCRIPTION
								Sampled By DL _____ Checked By KMC _____
	0							Unpaved soil
	5				ND		SM	Brown very fine to fine grained silty sand, dry to damp, loose, no odor
	10				ND		SP	Light brown fine to coarse grained sand with gravel to 1/2-inch. loose. dry to damp. no odor
	15				ND		SM	Brown very fine grained silty sand. damp. loose to slightly cohesive. no odor
	20				ND		SM	Light brown very fine grained silty sand. damp. loose to slightly cohesive. no odor
	25							Total Depth = 20 feet, no groundwater encountered.
	30							

**Kevin Clark, Professional Geologist**

# BORING LOG: SS-2

Date: 21-Oct-21  
 Project: 1933 N. Temple Avenue, Signal Hill, CA  
 Drilling: GeoProbe Direct-Push 6600  
 Boring Diameter: 1.75-inch  
 Elevation Top of Hole: 115 feet amsl

Drive Weight: N.A. Drop: N.A.  
 Reference: see Site Plan

Elevation (Feet)	Depth (ft)	Graphic Log	Time	Sample No.	PID	Odors	Soil Class. (USCS)	GEOLOGIC DESCRIPTION
								Sampled By DL _____ Checked By KMC _____
	0							Unpaved soil
	5				ND		SP	Brown fine to coarse grained sand, loose, dry to damp, no odor
	10				2.6		SM	Brown very fine grained silty sand. slightly cohesive. dry to damp no odor
	15				ND		SM	Light brown very fine grained silty sand. dry to damp. loose to slightly cohesive. no odor
	20				ND		SM	Light brown very fine grained silty sand. dry to damp. loose to slightly cohesive. no odor
	25							Total Depth = 20 feet, no groundwater encountered.
	30							

Kevin Clark, Professional Geologist

# BORING LOG: SS-3

Date: 21-Oct-21  
 Project: 1933 N. Temple Avenue, Signal Hill, CA  
 Drilling: GeoProbe Direct-Push 6600  
 Boring Diameter: 1.75-inch  
 Elevation Top of Hole: 115 feet amsl

Drive Weight: N.A. Drop: N.A.  
 Reference: see Site Plan

Elevation (Feet)	Depth (ft)	Graphic Log	Time	Sample No.	PID	Odors	Soil Class. (USCS)	GEOLOGIC DESCRIPTION
								Sampled By DL _____ Checked By KMC _____
	0							Unpaved soil
	5				ND		SM	Brown very fine grained silty sand, dry to damp, loose, no odor
	10				ND		SM	Brown very fine grained silty sand, dry to damp, loose, no odor
	15				ND		SM	Brown very fine grained silty sand, damp, slightly cohesive, no odor
	20				ND		SM	Light brown very fine grained silty sand, dry to damp, slightly cohesive, no odor
	25							Total Depth = 20 feet, no groundwater encountered.
	30							

**Kevin Clark, Professional Geologist**

# BORING LOG: SS-4

Date: 21-Oct-21

Project: 1933 N. Temple Avenue, Signal Hill, CA

Drilling: GeoProbe Direct-Push 6600

Boring Diameter: 1.75-inch

Drive Weight: N.A. Drop: N.A.

Elevation Top of Hole: 115 feet amsl

Reference: see Site Plan

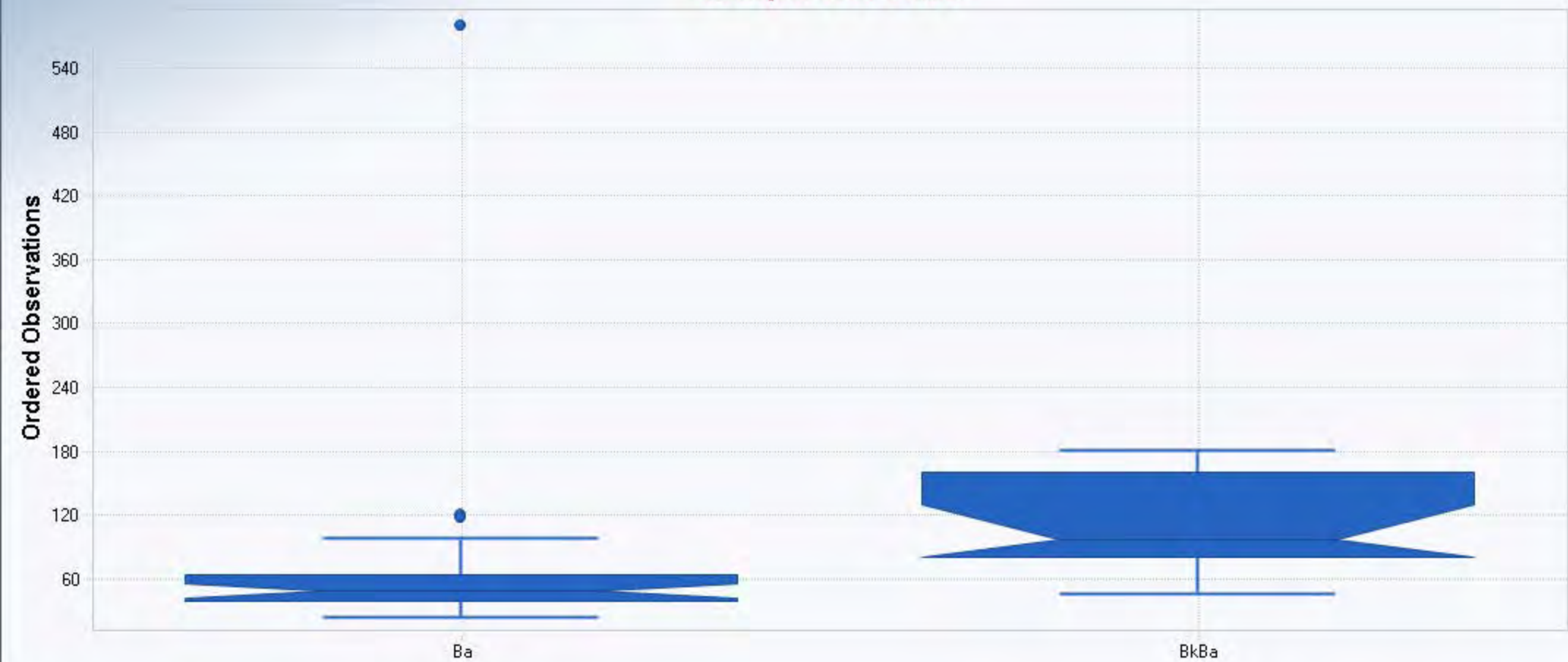
Elevation (Feet)	Depth (ft)	Graphic Log	Time	Sample No.	PID	Odors	Soil Class. (USCS)	GEOLOGIC DESCRIPTION
								Sampled By DL _____ Checked By KMC _____
	0							Unpaved soil
	5				ND		SM	Brown very fine to fine grained silty sand, dry to damp, loose, no odor
	10				ND		SM	Brown very fine grained silty sand. damp. loose. no odor
	15				ND		SM	Brown very fine grained silty sand. dry to damp. loose. no odor
	20				ND		SM	Light brown very fine grained silty sand. dry to damp. loose to slightly cohesive. cohesive. no odor
	25							Total Depth = 20 feet, no groundwater encountered.
	30							

**Kevin Clark, Professional Geologist**

# **APPENDIX E**

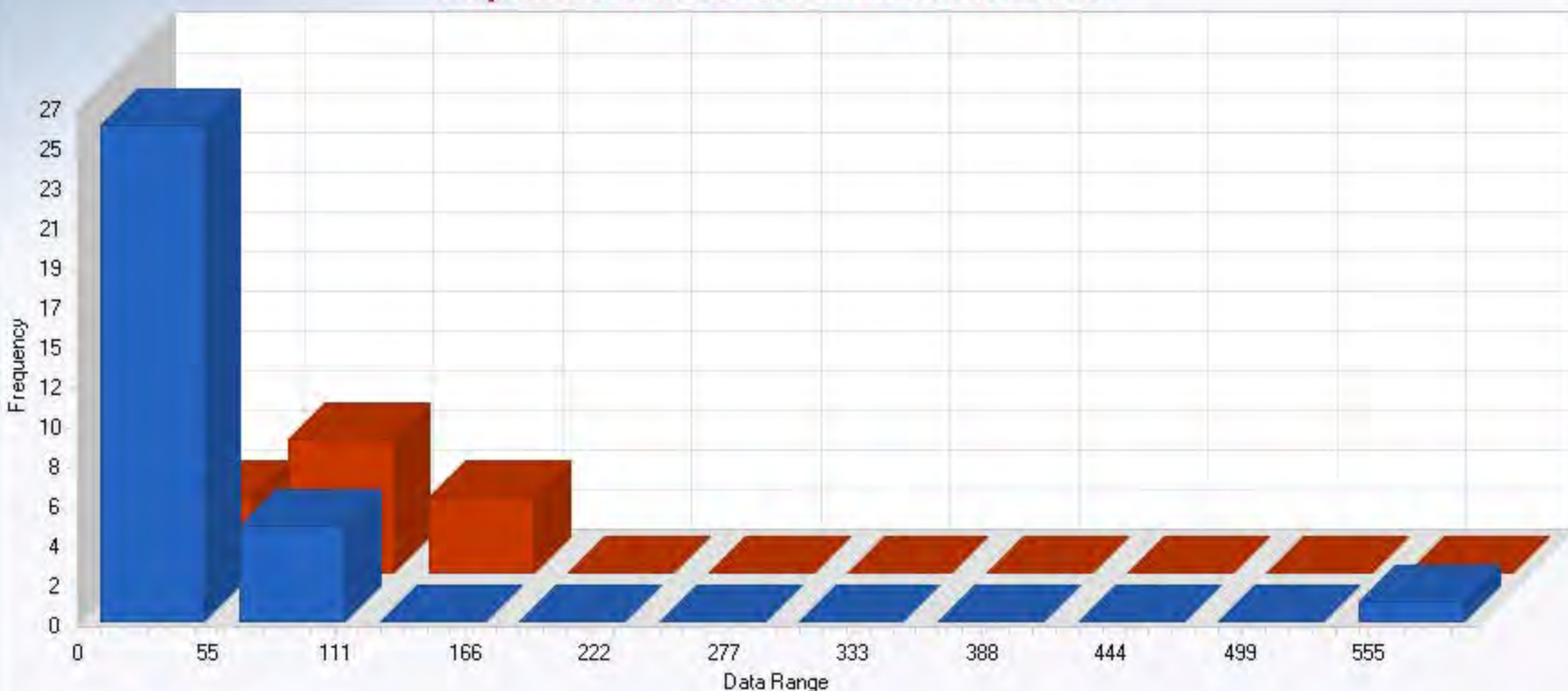
## **Metals Statistical Analyses**

## Multiple Box Plots



	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Gehan Sample 1 vs Sample 2 Comparison Hypothesis Test for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 3:04:19 PM									
5	From File		Metals.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Selected Null Hypothesis		Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)									
9	Alternative Hypothesis		Sample 1 Mean/Median > Sample 2 Mean/Median									
10												
11												
12	<b>Sample 1 Data: Ba</b>											
13	<b>Sample 2 Data: BkBa</b>											
14												
15	<b>Raw Statistics</b>											
16					Sample 1	Sample 2						
17	Number of Valid Data				32	15						
18	Number of Non-Detects				0	0						
19	Number of Detect Data				32	15						
20	Minimum Non-Detect				N/A	N/A						
21	Maximum Non-Detect				N/A	N/A						
22	Percent Non-detects				0.00%	0.00%						
23	Minimum Detect				25.4	48						
24	Maximum Detect				580	180						
25	Mean of Detects				71.96	110.9						
26	Median of Detects				49.15	97						
27	SD of Detects				95.63	41.89						
28	KM Mean				71.96	110.9						
29	KM SD				95.63	41.89						
30												
31	<b>Sample 1 vs Sample 2 Gehan Test</b>											
32												
33	<b>H0: Mean/Median of Sample 1 &lt;= Mean/Median of background</b>											
34												
35	Gehan z Test Value				-3.994							
36	Critical z (0.05)				1.645							
37	P-Value				1							
38												
39	<b>Conclusion with Alpha = 0.05</b>											
40	<b>Do Not Reject H0, Conclude Sample 1 &lt;= Sample 2</b>											
41	<b>P-Value &gt;= alpha (0.05)</b>											
42												

## Multiple Histogram Reported values used for nondetects



■ Ba
 ■ BkBa

- Normal Distribution
- Less Bins
- More Bins

### Ba

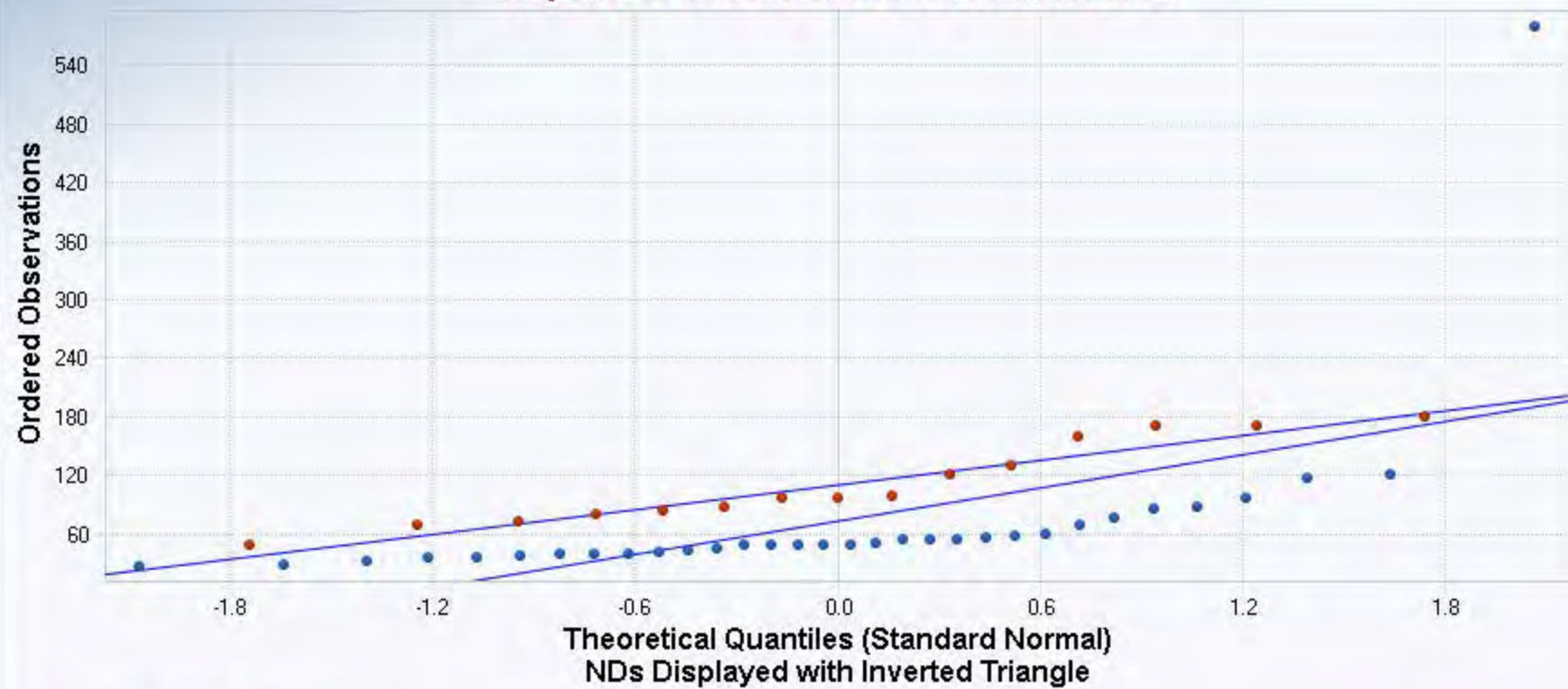
Number of Values	32
Number of Values	32
Mean	71.96
SD	95.63

### BkBa

Number of Values	15
Number of Values	15
Mean	110.87
SD	41.89

## Q-Q Plot

Reported values used for nondetects



● Ba ● BkBa

### Ba

Total Number of Data = 32  
Number of Non-Detects = 0  
Number of Detects = 32  
Detected Mean = 71.96  
Detected Sd = 95.63  
Slope (displayed data) = 56.93  
Intercept (displayed data) = 71.96  
Correlation, R = 0.58

### BkBa

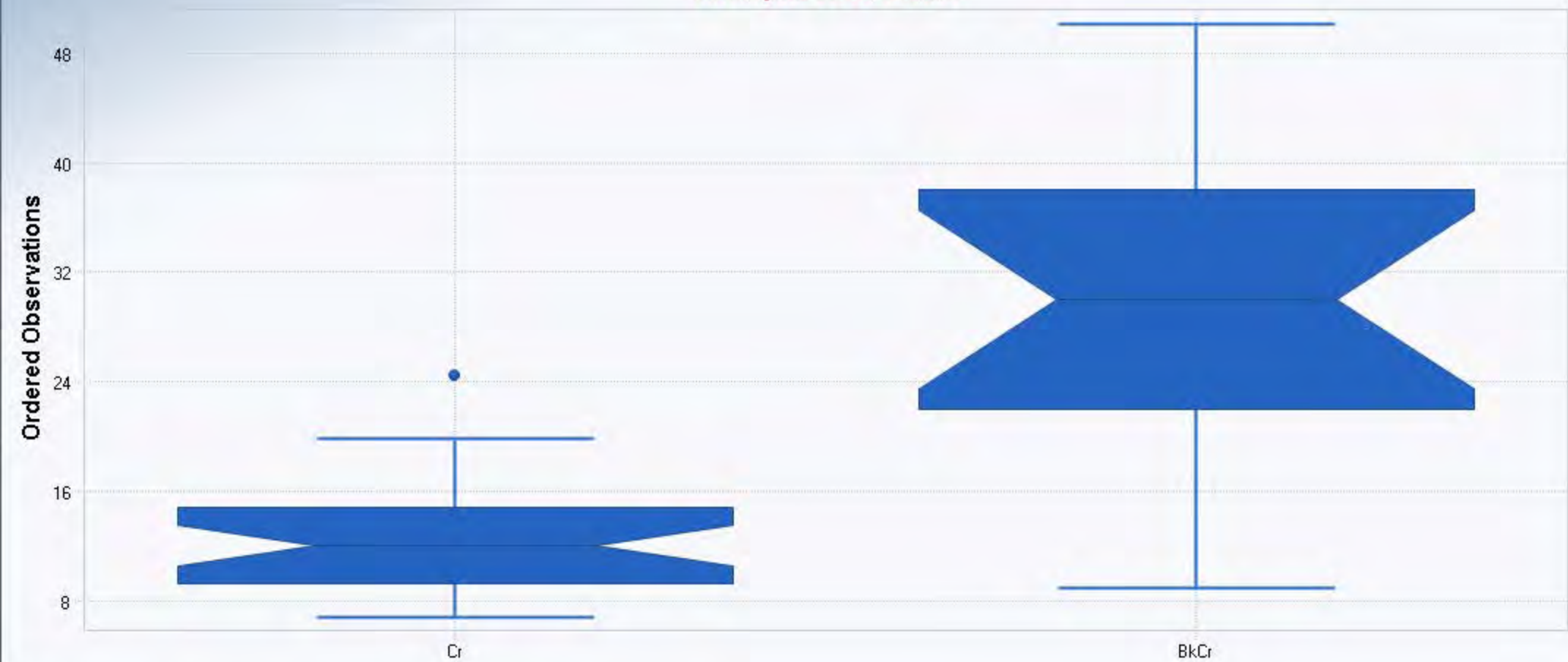
Total Number of Data = 15  
Number of Non-Detects = 0  
Number of Detects = 15  
Detected Mean = 110.9  
Detected Sd = 41.89  
Slope (displayed data) = 42.22  
Intercept (displayed data) = 110.9  
Correlation, R = 0.962

■ Best Fit Line

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Tarone-Ware Sample 1 vs Sample 2 Comparison Hypothesis Test for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 3:07:44 PM									
5	From File		Metals.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Selected Null Hypothesis		Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)									
9	Alternative Hypothesis		Sample 1 Mean/Median > Sample 2 Mean/Median									
10												
11												
12	<b>Sample 1 Data: Ba</b>											
13	<b>Sample 2 Data: BkBa</b>											
14												
15	<b>Raw Statistics</b>											
16			Sample 1	Sample 2								
17	Number of Valid Data		32	15								
18	Number of Non-Detects		0	0								
19	Number of Detects		32	15								
20	Minimum Non-Detect		N/A	N/A								
21	Maximum Non-Detect		N/A	N/A								
22	Percent Non-detects		0.00%	0.00%								
23	Minimum Detect		25.4	48								
24	Maximum Detect		580	180								
25	Mean of Detects		71.96	110.9								
26	Median of Detects		49.15	97								
27	SD of Detects		95.63	41.89								
28	KM Mean		71.96	110.9								
29	KM SD		95.63	41.89								
30												
31	<b>Sample 1 vs Sample 2 Tarone-Ware Test</b>											
32												
33	<b>H0: Mean/Median of Sample 1 &lt;= Mean/Median of Sample 2</b>											
34												
35	TW Statistic		-4.866									
36	TW Critical Value (0.05)		1.645									
37	P-Value		1									
38												
39	<b>Conclusion with Alpha = 0.05</b>											
40	<b>Do Not Reject H0, Conclude Sample 1 &lt;= Sample 2</b>											
41	<b>P-Value &gt;= alpha (0.05)</b>											
42												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 3:08:27 PM									
5	From File		Metals.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Selected Null Hypothesis		Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)									
9	Alternative Hypothesis		Sample 1 Mean/Median > Sample 2 Mean/Median									
10												
11												
12	<b>Sample 1 Data: Ba</b>											
13	<b>Sample 2 Data: BkBa</b>											
14												
15	<b>Raw Statistics</b>											
16			Sample 1	Sample 2								
17	Number of Valid Data		32	15								
18	Number of Non-Detects		0	0								
19	Number of Detect Data		32	15								
20	Minimum Non-Detect		N/A	N/A								
21	Maximum Non-Detect		N/A	N/A								
22	Percent Non-detects		0.00%	0.00%								
23	Minimum Detect		25.4	48								
24	Maximum Detect		580	180								
25	Mean of Detects		71.96	110.9								
26	Median of Detects		49.15	97								
27	SD of Detects		95.63	41.89								
28												
29	<b>Wilcoxon-Mann-Whitney (WMW) Test</b>											
30												
31	<b>H0: Mean/Median of Sample 1 &lt;= Mean/Median of Sample 2</b>											
32												
33	Sample 1 Rank Sum W-Stat		593.5									
34	Standardized WMW U-Stat		-3.994									
35	Mean (U)		240									
36	SD(U) - Adj ties		43.82									
37	Approximate U-Stat Critical Value (0.05)		1.645									
38	P-Value (Adjusted for Ties)		1									
39												
40	<b>Conclusion with Alpha = 0.05</b>											
41	<b>Do Not Reject H0, Conclude Sample 1 &lt;= Sample 2</b>											
42	<b>P-Value &gt;= alpha (0.05)</b>											
43												

## Multiple Box Plots



	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Gehan Sample 1 vs Sample 2 Comparison Hypothesis Test for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 3:10:31 PM									
5	From File		Metals.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Selected Null Hypothesis		Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)									
9	Alternative Hypothesis		Sample 1 Mean/Median > Sample 2 Mean/Median									
10												
11												
12	<b>Sample 1 Data: Cr</b>											
13	<b>Sample 2 Data: BkCr</b>											
14												
15	<b>Raw Statistics</b>											
16				Sample 1	Sample 2							
17	Number of Valid Data			32	15							
18	Number of Non-Detects			0	0							
19	Number of Detect Data			32	15							
20	Minimum Non-Detect			N/A	N/A							
21	Maximum Non-Detect			N/A	N/A							
22	Percent Non-detects			0.00%	0.00%							
23	Minimum Detect			6.9	9							
24	Maximum Detect			24.4	50							
25	Mean of Detects			12.65	30.6							
26	Median of Detects			12.05	30							
27	SD of Detects			4.048	10.43							
28	KM Mean			12.65	30.6							
29	KM SD			4.048	10.43							
30												
31	<b>Sample 1 vs Sample 2 Gehan Test</b>											
32												
33	<b>H0: Mean/Median of Sample 1 &lt;= Mean/Median of background</b>											
34												
35	Gehan z Test Value			-4.77								
36	Critical z (0.05)			1.645								
37	P-Value			1								
38												
39	<b>Conclusion with Alpha = 0.05</b>											
40	<b>Do Not Reject H0, Conclude Sample 1 &lt;= Sample 2</b>											
41	<b>P-Value &gt;= alpha (0.05)</b>											
42												

## Multiple Histogram Reported values used for nondetects

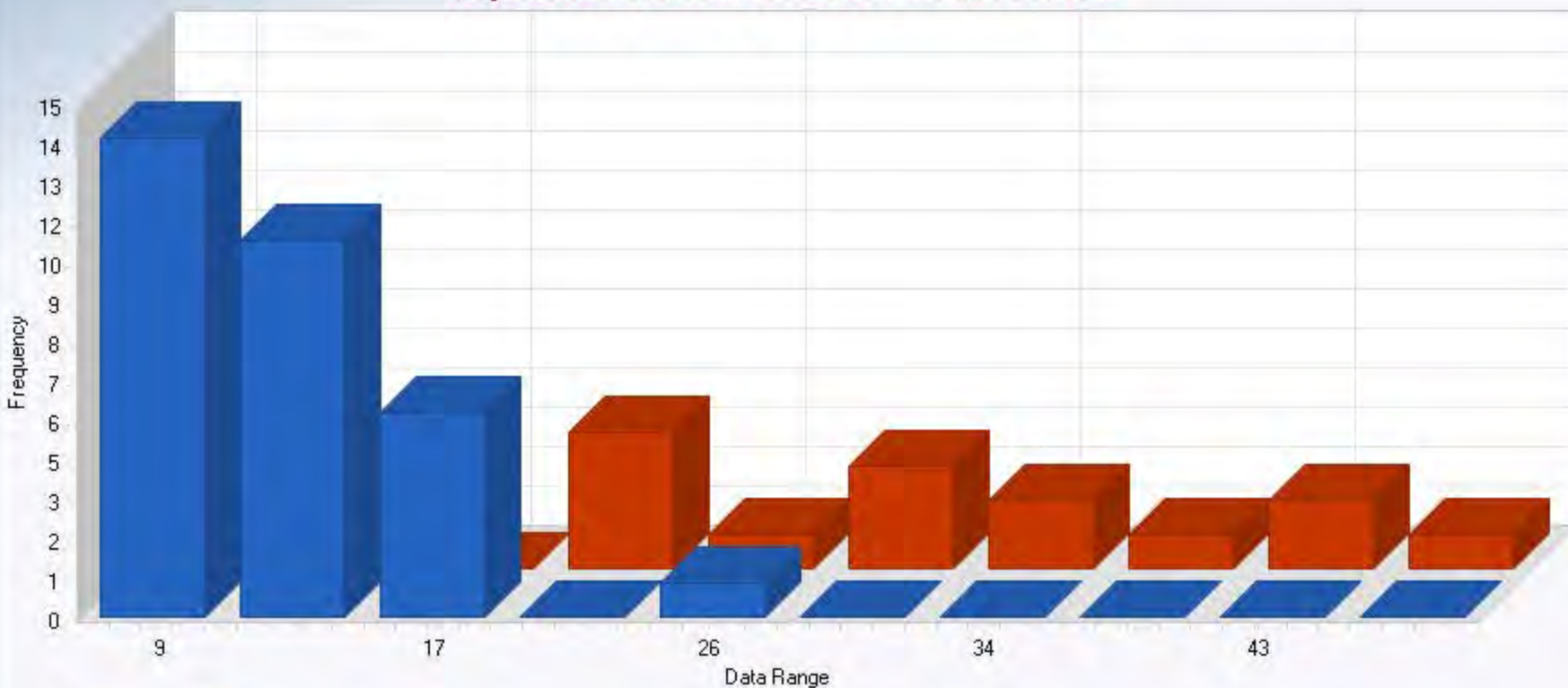
- Normal Distribution
- Less Bins
- More Bins

### Cr

Number of Values	32
Number of Values	32
Mean	12.65
SD	4.05

### BkCr

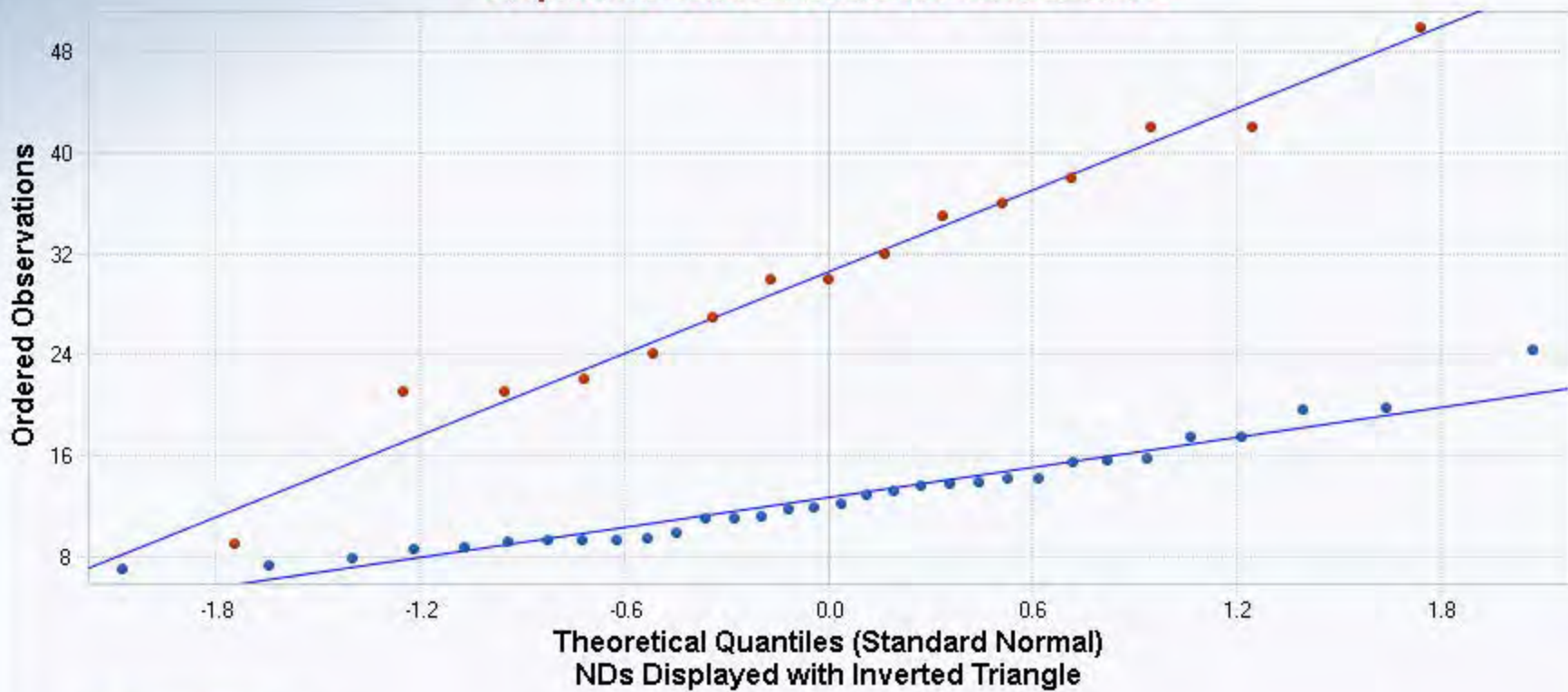
Number of Values	15
Number of Values	15
Mean	30.60
SD	10.43



■ Cr   
 ■ BkCr

# Q-Q Plot

## Reported values used for nondetects



**Cr**

Total Number of Data = 32  
Number of Non-Detects = 0  
Number of Detects = 32  
Detected Mean = 12.65  
Detected Sd = 4.048  
Slope (displayed data) = 4.025  
Intercept (displayed data) = 12.65  
Correlation, R = 0.968

**BkCr**

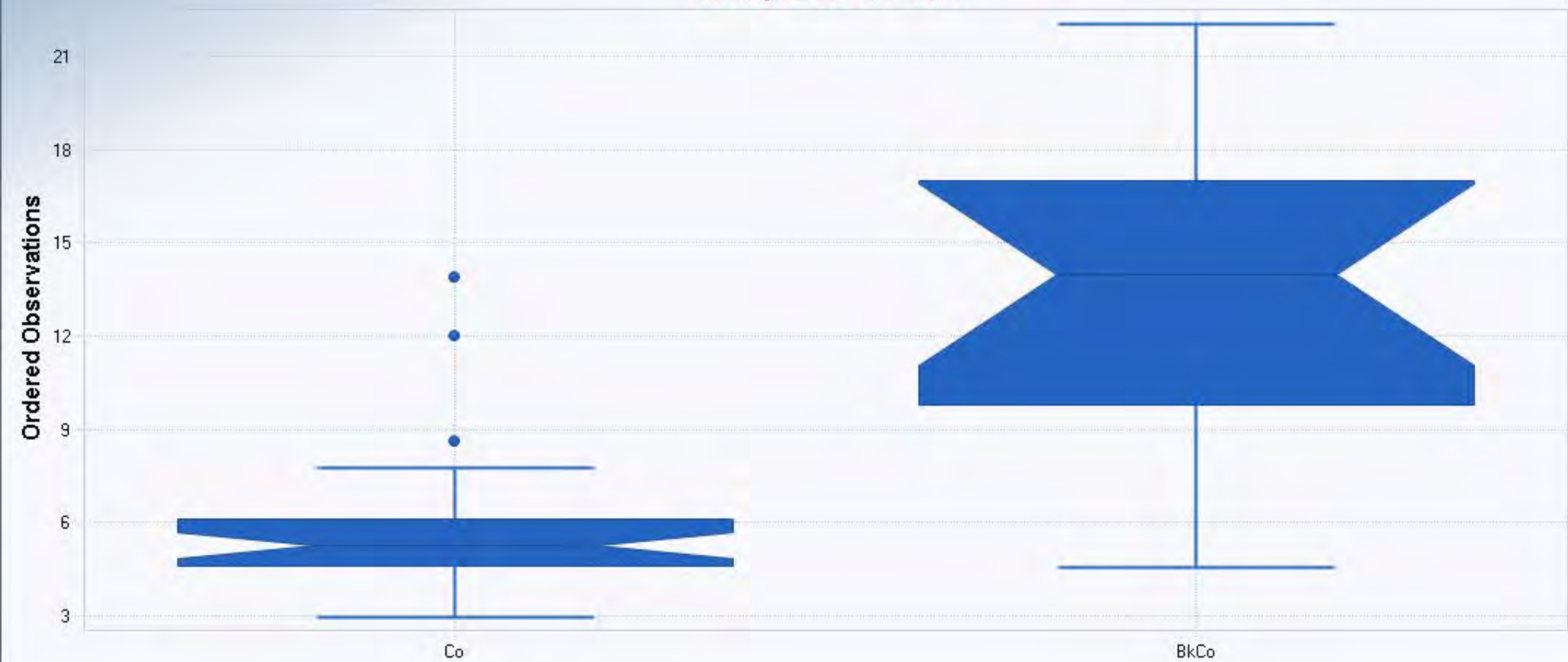
Total Number of Data = 15  
Number of Non-Detects = 0  
Number of Detects = 15  
Detected Mean = 30.6  
Detected Sd = 10.43  
Slope (displayed data) = 10.8  
Intercept (displayed data) = 30.6  
Correlation, R = 0.989

■ Best Fit Line

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Tarone-Ware Sample 1 vs Sample 2 Comparison Hypothesis Test for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 3:30:44 PM									
5	From File		Metals.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Selected Null Hypothesis		Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)									
9	Alternative Hypothesis		Sample 1 Mean/Median > Sample 2 Mean/Median									
10												
11												
12	<b>Sample 1 Data: Cr</b>											
13	<b>Sample 2 Data: BkCr</b>											
14												
15	<b>Raw Statistics</b>											
16			Sample 1	Sample 2								
17	Number of Valid Data		32	15								
18	Number of Non-Detects		0	0								
19	Number of Detects		32	15								
20	Minimum Non-Detect		N/A	N/A								
21	Maximum Non-Detect		N/A	N/A								
22	Percent Non-detects		0.00%	0.00%								
23	Minimum Detect		6.9	9								
24	Maximum Detect		24.4	50								
25	Mean of Detects		12.65	30.6								
26	Median of Detects		12.05	30								
27	SD of Detects		4.048	10.43								
28	KM Mean		12.65	30.6								
29	KM SD		4.048	10.43								
30												
31	<b>Sample 1 vs Sample 2 Tarone-Ware Test</b>											
32												
33	<b>H0: Mean/Median of Sample 1 &lt;= Mean/Median of Sample 2</b>											
34												
35	TW Statistic		-5.922									
36	TW Critical Value (0.05)		1.645									
37	P-Value		1									
38												
39	<b>Conclusion with Alpha = 0.05</b>											
40	<b>Do Not Reject H0, Conclude Sample 1 &lt;= Sample 2</b>											
41	<b>P-Value &gt;= alpha (0.05)</b>											
42												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 3:31:13 PM									
5	From File		Metals.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Selected Null Hypothesis		Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)									
9	Alternative Hypothesis		Sample 1 Mean/Median > Sample 2 Mean/Median									
10												
11												
12	<b>Sample 1 Data: Cr</b>											
13	<b>Sample 2 Data: BkCr</b>											
14												
15	<b>Raw Statistics</b>											
16			Sample 1	Sample 2								
17	Number of Valid Data		32	15								
18	Number of Non-Detects		0	0								
19	Number of Detect Data		32	15								
20	Minimum Non-Detect		N/A	N/A								
21	Maximum Non-Detect		N/A	N/A								
22	Percent Non-detects		0.00%	0.00%								
23	Minimum Detect		6.9	9								
24	Maximum Detect		24.4	50								
25	Mean of Detects		12.65	30.6								
26	Median of Detects		12.05	30								
27	SD of Detects		4.048	10.43								
28												
29	<b>Wilcoxon-Mann-Whitney (WMW) Test</b>											
30												
31	<b>H0: Mean/Median of Sample 1 &lt;= Mean/Median of Sample 2</b>											
32												
33	Sample 1 Rank Sum W-Stat		559									
34	Standardized WMW U-Stat		-4.782									
35	Mean (U)		240									
36	SD(U) - Adj ties		43.81									
37	Approximate U-Stat Critical Value (0.05)		1.645									
38	P-Value (Adjusted for Ties)		1									
39												
40	<b>Conclusion with Alpha = 0.05</b>											
41	<b>Do Not Reject H0, Conclude Sample 1 &lt;= Sample 2</b>											
42	<b>P-Value &gt;= alpha (0.05)</b>											
43												

## Multiple Box Plots



	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Gehan Sample 1 vs Sample 2 Comparison Hypothesis Test for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 3:06:50 PM									
5	From File		Metals.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Selected Null Hypothesis		Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)									
9	Alternative Hypothesis		Sample 1 Mean/Median > Sample 2 Mean/Median									
10												
11												
12	<b>Sample 1 Data: Co</b>											
13	<b>Sample 2 Data: BkCo</b>											
14												
15	<b>Raw Statistics</b>											
16			Sample 1	Sample 2								
17	Number of Valid Data		32	15								
18	Number of Non-Detects		0	0								
19	Number of Detect Data		32	15								
20	Minimum Non-Detect		N/A	N/A								
21	Maximum Non-Detect		N/A	N/A								
22	Percent Non-detects		0.00%	0.00%								
23	Minimum Detect		3	4.6								
24	Maximum Detect		13.9	22								
25	Mean of Detects		5.781	13.25								
26	Median of Detects		5.25	14								
27	SD of Detects		2.236	4.339								
28	KM Mean		5.781	13.25								
29	KM SD		2.236	4.339								
30												
31	<b>Sample 1 vs Sample 2 Gehan Test</b>											
32												
33	<b>H0: Mean/Median of Sample 1 &lt;= Mean/Median of background</b>											
34												
35	Gehan z Test Value		-4.678									
36	Critical z (0.05)		1.645									
37	P-Value		1									
38												
39	<b>Conclusion with Alpha = 0.05</b>											
40	<b>Do Not Reject H0, Conclude Sample 1 &lt;= Sample 2</b>											
41	<b>P-Value &gt;= alpha (0.05)</b>											
42												

# Multiple Histogram

## Reported values used for nondetects

Normal Distribution

Less Bins

More Bins

### Co

Number of Values 32

Number of Values 32

Mean 5.78

SD 2.24

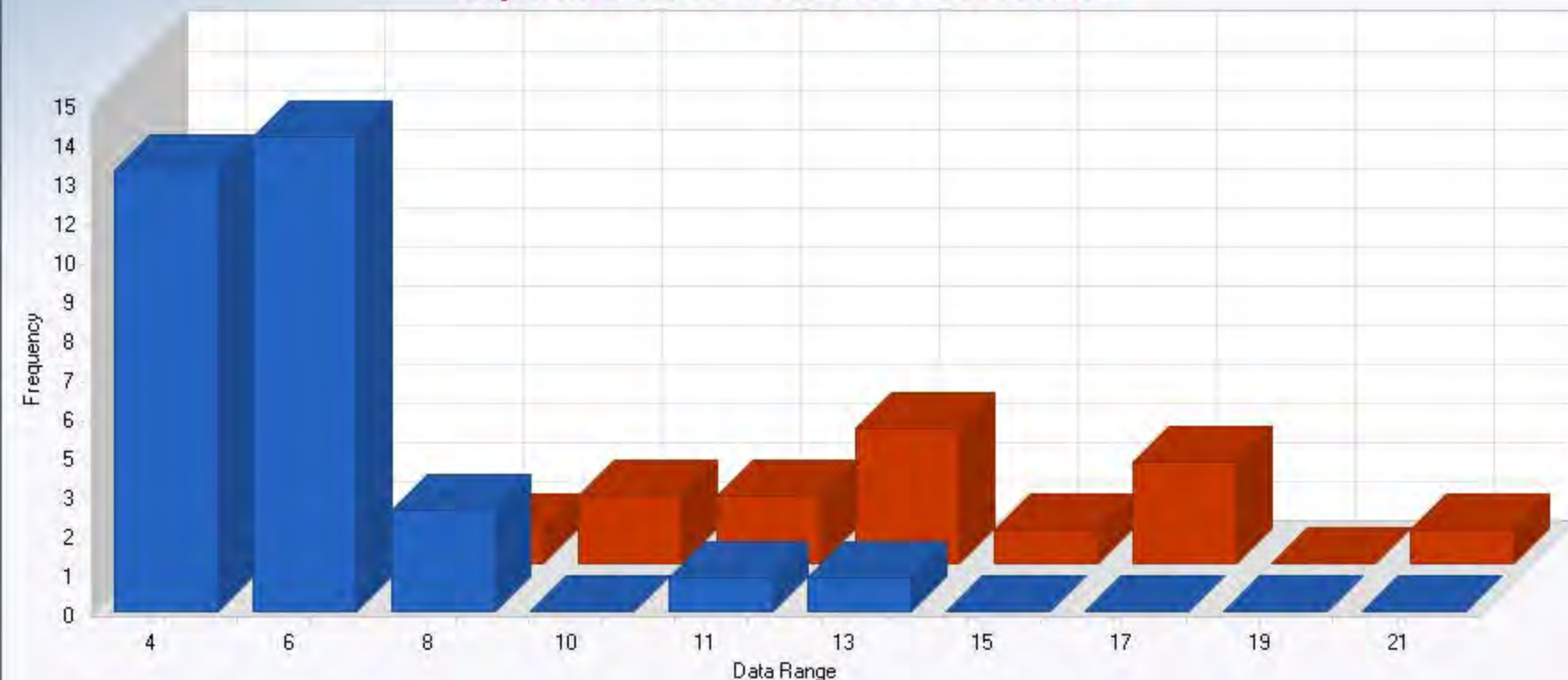
### BkCo

Number of Values 15

Number of Values 15

Mean 13.25

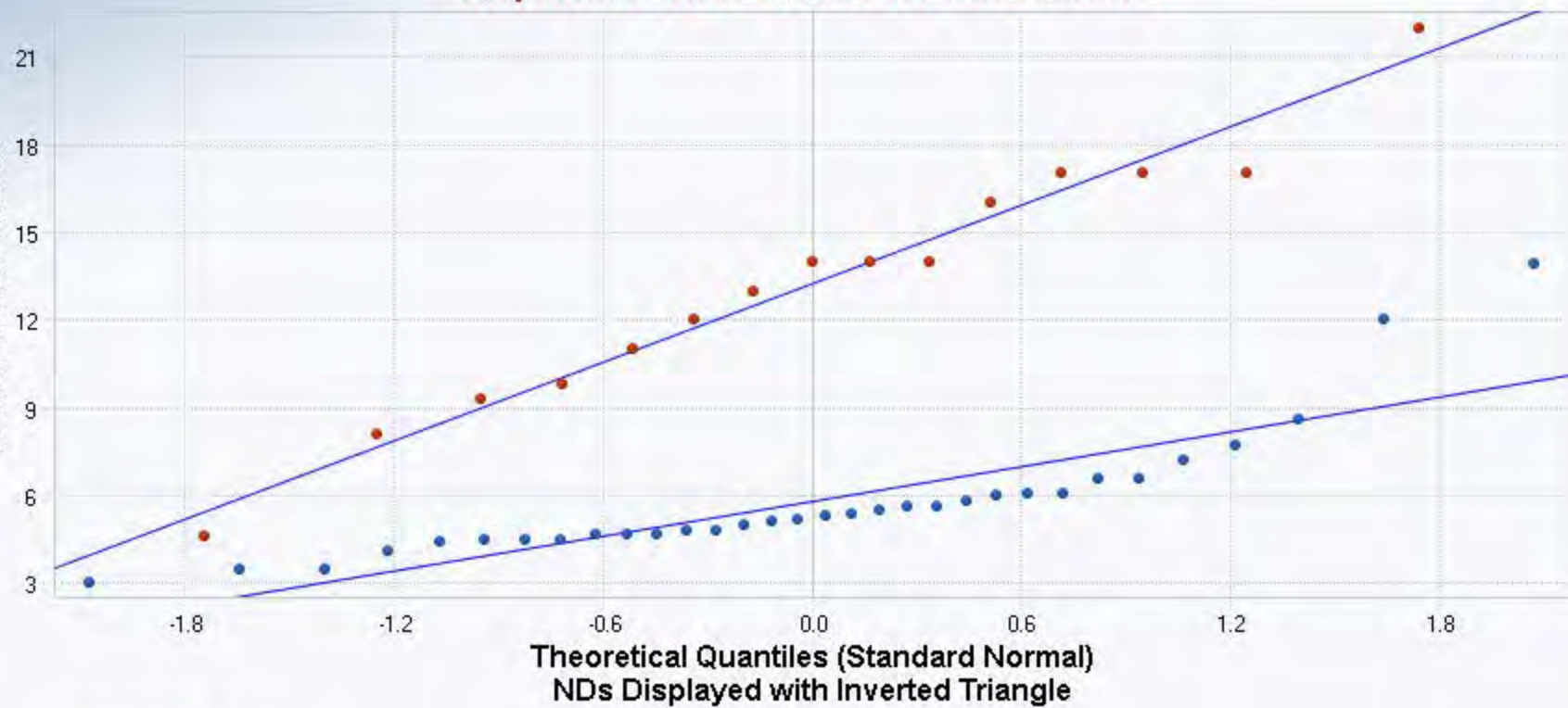
SD 4.34



Co BkCo

## Q-Q Plot

### Reported values used for nondetects



#### Co

Total Number of Data = 32  
Number of Non-Detects = 0  
Number of Detects = 32  
Detected Mean = 5.781  
Detected Sd = 2.236  
Slope (displayed data) = 1.988  
Intercept (displayed data) = 5.781  
Correlation, R = 0.866

#### BkCo

Total Number of Data = 15  
Number of Non-Detects = 0  
Number of Detects = 15  
Detected Mean = 13.25  
Detected Sd = 4.339  
Slope (displayed data) = 4.478  
Intercept (displayed data) = 13.25  
Correlation, R = 0.986

■ Best Fit Line

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Tarone-Ware Sample 1 vs Sample 2 Comparison Hypothesis Test for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 3:09:25 PM									
5	From File		Metals.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Selected Null Hypothesis		Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)									
9	Alternative Hypothesis		Sample 1 Mean/Median > Sample 2 Mean/Median									
10												
11												
12	<b>Sample 1 Data: Co</b>											
13	<b>Sample 2 Data: BkCo</b>											
14												
15	<b>Raw Statistics</b>											
16			Sample 1	Sample 2								
17	Number of Valid Data		32	15								
18	Number of Non-Detects		0	0								
19	Number of Detects		32	15								
20	Minimum Non-Detect		N/A	N/A								
21	Maximum Non-Detect		N/A	N/A								
22	Percent Non-detects		0.00%	0.00%								
23	Minimum Detect		3	4.6								
24	Maximum Detect		13.9	22								
25	Mean of Detects		5.781	13.25								
26	Median of Detects		5.25	14								
27	SD of Detects		2.236	4.339								
28	KM Mean		5.781	13.25								
29	KM SD		2.236	4.339								
30												
31	<b>Sample 1 vs Sample 2 Tarone-Ware Test</b>											
32												
33	<b>H0: Mean/Median of Sample 1 &lt;= Mean/Median of Sample 2</b>											
34												
35	TW Statistic		-5.821									
36	TW Critical Value (0.05)		1.645									
37	P-Value		1									
38												
39	<b>Conclusion with Alpha = 0.05</b>											
40	<b>Do Not Reject H0, Conclude Sample 1 &lt;= Sample 2</b>											
41	<b>P-Value &gt;= alpha (0.05)</b>											
42												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 3:10:01 PM									
5	From File		Metals.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Selected Null Hypothesis		Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)									
9	Alternative Hypothesis		Sample 1 Mean/Median > Sample 2 Mean/Median									
10												
11												
12	<b>Sample 1 Data: Co</b>											
13	<b>Sample 2 Data: BkCo</b>											
14												
15	<b>Raw Statistics</b>											
16			Sample 1	Sample 2								
17	Number of Valid Data		32	15								
18	Number of Non-Detects		0	0								
19	Number of Detect Data		32	15								
20	Minimum Non-Detect		N/A	N/A								
21	Maximum Non-Detect		N/A	N/A								
22	Percent Non-detects		0.00%	0.00%								
23	Minimum Detect		3	4.6								
24	Maximum Detect		13.9	22								
25	Mean of Detects		5.781	13.25								
26	Median of Detects		5.25	14								
27	SD of Detects		2.236	4.339								
28												
29	<b>Wilcoxon-Mann-Whitney (WMW) Test</b>											
30												
31	<b>H0: Mean/Median of Sample 1 &lt;= Mean/Median of Sample 2</b>											
32												
33	Sample 1 Rank Sum W-Stat		563.5									
34	Standardized WMW U-Stat		-4.681									
35	Mean (U)		240									
36	SD(U) - Adj ties		43.79									
37	Approximate U-Stat Critical Value (0.05)		1.645									
38	P-Value (Adjusted for Ties)		1									
39												
40	<b>Conclusion with Alpha = 0.05</b>											
41	<b>Do Not Reject H0, Conclude Sample 1 &lt;= Sample 2</b>											
42	<b>P-Value &gt;= alpha (0.05)</b>											
43												

## Multiple Box Plots



	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Gehan Sample 1 vs Sample 2 Comparison Hypothesis Test for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 3:31:47 PM									
5	From File		Metals.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Selected Null Hypothesis		Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)									
9	Alternative Hypothesis		Sample 1 Mean/Median > Sample 2 Mean/Median									
10												
11												
12	<b>Sample 1 Data: Cu</b>											
13	<b>Sample 2 Data: BkCu</b>											
14												
15	<b>Raw Statistics</b>											
16				Sample 1	Sample 2							
17	Number of Valid Data			32	15							
18	Number of Non-Detects			0	0							
19	Number of Detect Data			32	15							
20	Minimum Non-Detect			N/A	N/A							
21	Maximum Non-Detect			N/A	N/A							
22	Percent Non-detects			0.00%	0.00%							
23	Minimum Detect			2.8	14							
24	Maximum Detect			26.5	80							
25	Mean of Detects			7.934	36.8							
26	Median of Detects			6.6	35							
27	SD of Detects			5.884	17.38							
28	KM Mean			7.934	36.8							
29	KM SD			5.884	17.38							
30												
31	<b>Sample 1 vs Sample 2 Gehan Test</b>											
32												
33	<b>H0: Mean/Median of Sample 1 &lt;= Mean/Median of background</b>											
34												
35	Gehan z Test Value			-5.226								
36	Critical z (0.05)			1.645								
37	P-Value			1								
38												
39	<b>Conclusion with Alpha = 0.05</b>											
40	<b>Do Not Reject H0, Conclude Sample 1 &lt;= Sample 2</b>											
41	<b>P-Value &gt;= alpha (0.05)</b>											
42												

## Multiple Histogram Reported values used for nondetects

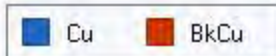
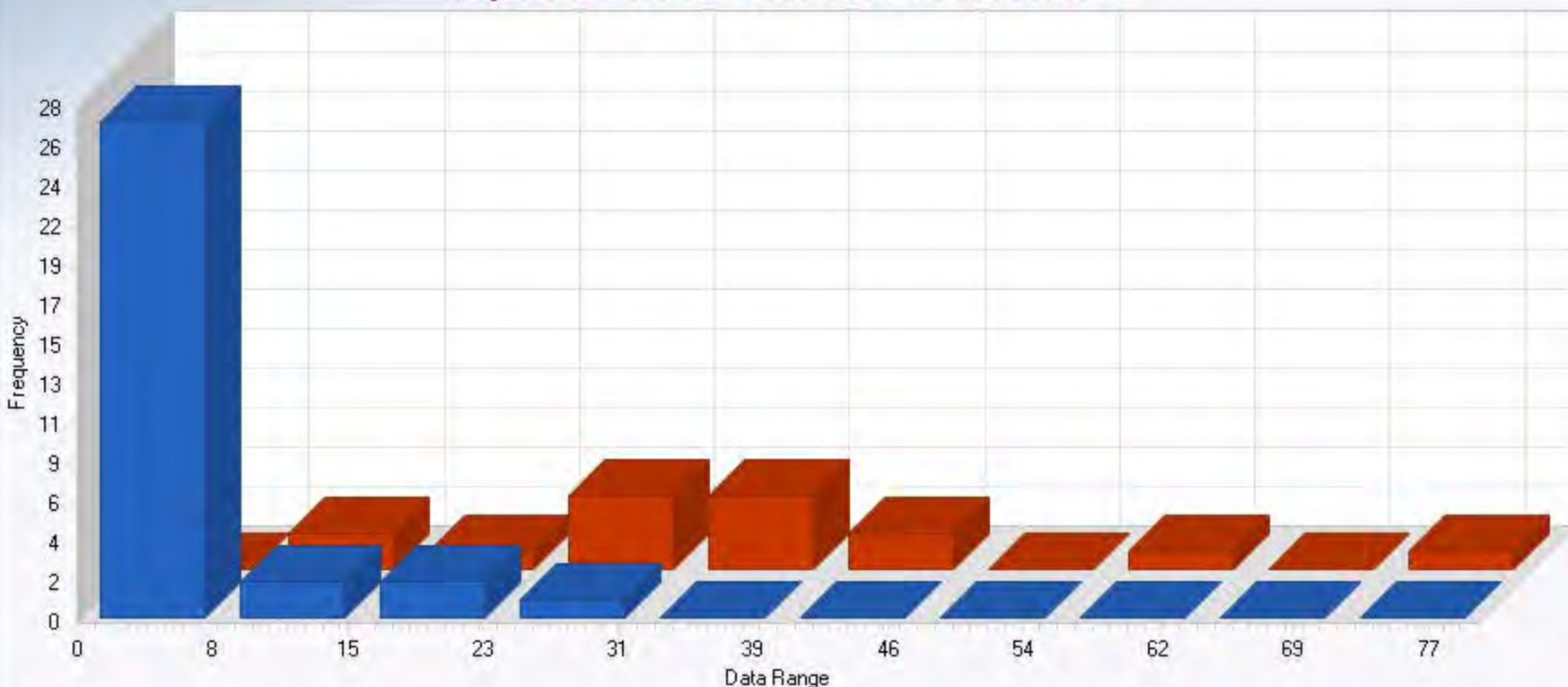
- Normal Distribution
- Less Bins
- More Bins

### Cu

Number of Values	32
Number of Values	32
Mean	7.93
SD	5.88

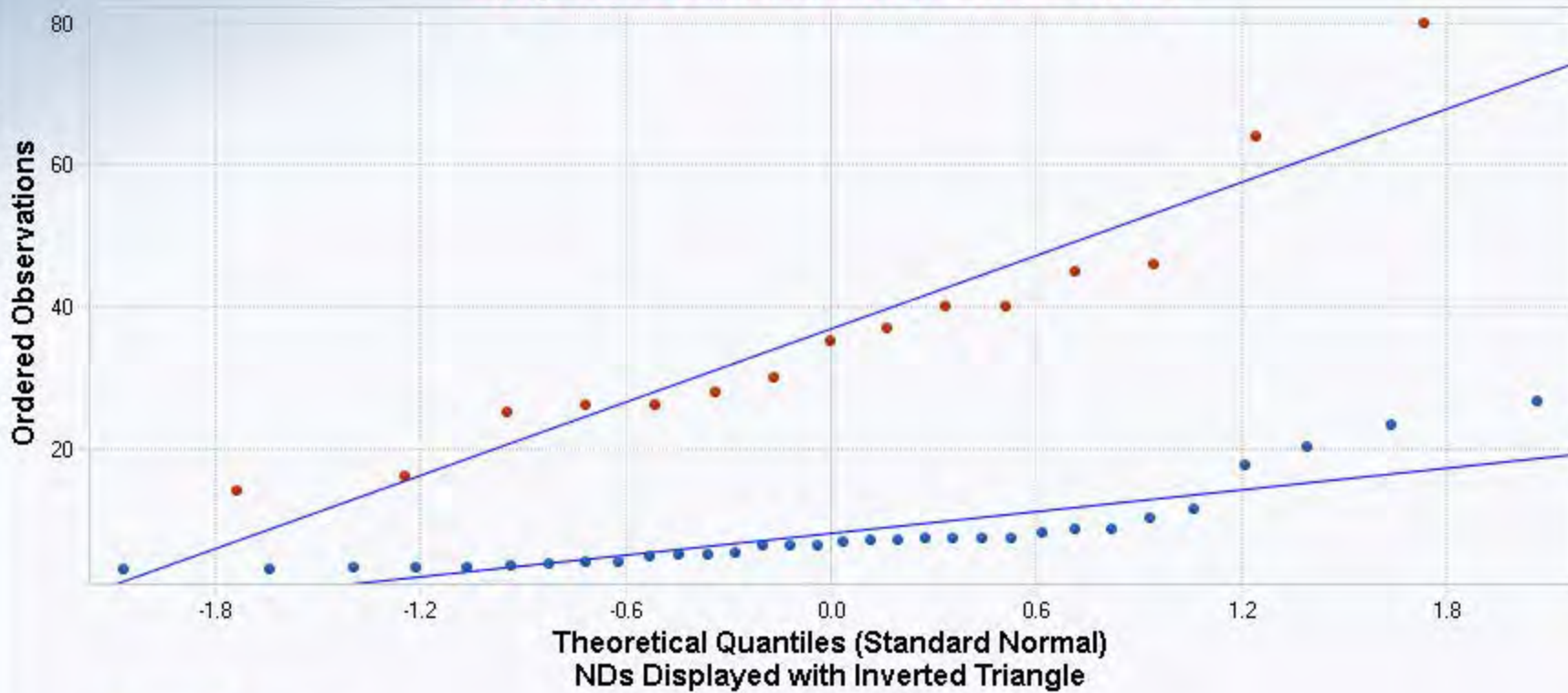
### BkCu

Number of Values	15
Number of Values	15
Mean	36.80
SD	17.38



# Q-Q Plot

## Reported values used for nondetects



### Cu

Total Number of Data = 32  
Number of Non-Detects = 0  
Number of Detects = 32  
Detected Mean = 7.934  
Detected Sd = 5.884  
Slope (displayed data) = 5.188  
Intercept (displayed data) = 7.934  
Correlation, R = 0.859

### BkCu

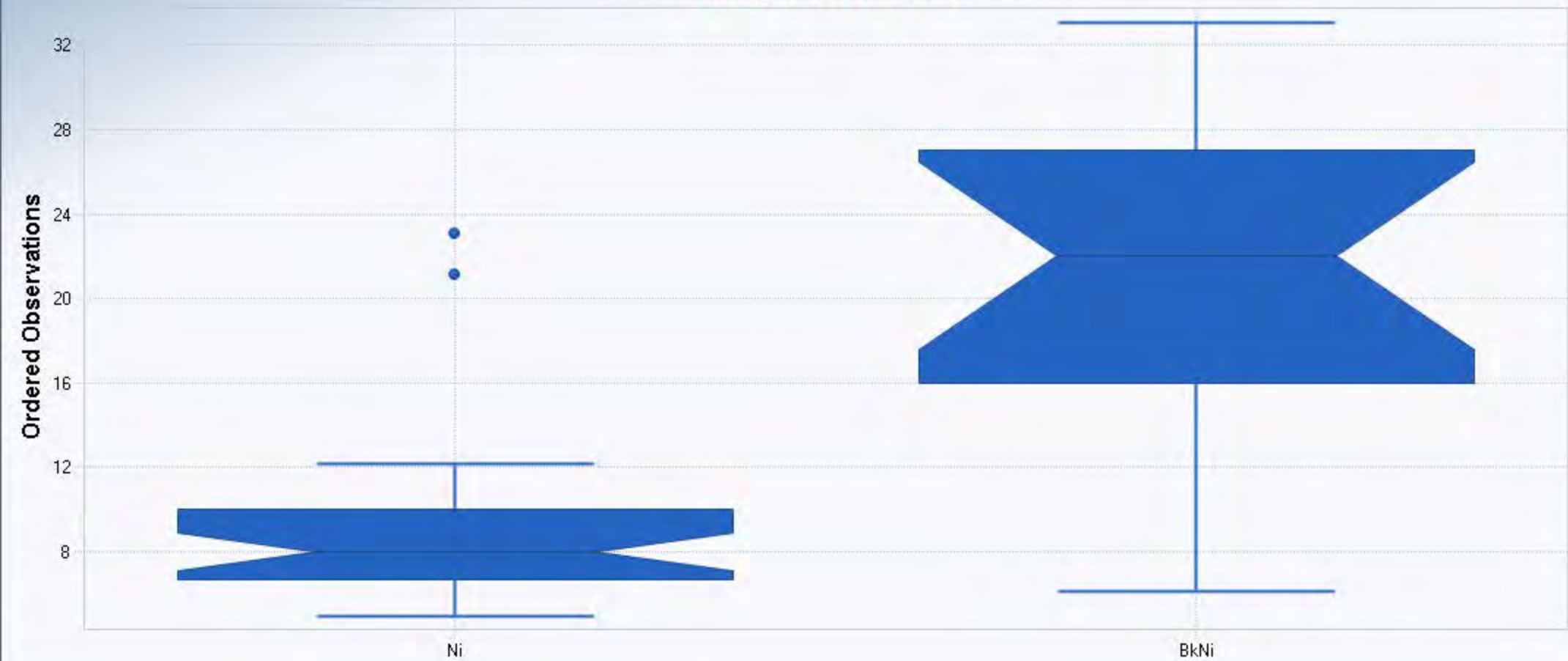
Total Number of Data = 15  
Number of Non-Detects = 0  
Number of Detects = 15  
Detected Mean = 36.8  
Detected Sd = 17.38  
Slope (displayed data) = 17.26  
Intercept (displayed data) = 36.8  
Correlation, R = 0.948

■ Best Fit Line

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Tarone-Ware Sample 1 vs Sample 2 Comparison Hypothesis Test for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 3:32:17 PM									
5	From File		Metals.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Selected Null Hypothesis		Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)									
9	Alternative Hypothesis		Sample 1 Mean/Median > Sample 2 Mean/Median									
10												
11												
12	<b>Sample 1 Data: Cu</b>											
13	<b>Sample 2 Data: BkCu</b>											
14												
15	<b>Raw Statistics</b>											
16			Sample 1	Sample 2								
17	Number of Valid Data		32	15								
18	Number of Non-Detects		0	0								
19	Number of Detects		32	15								
20	Minimum Non-Detect		N/A	N/A								
21	Maximum Non-Detect		N/A	N/A								
22	Percent Non-detects		0.00%	0.00%								
23	Minimum Detect		2.8	14								
24	Maximum Detect		26.5	80								
25	Mean of Detects		7.934	36.8								
26	Median of Detects		6.6	35								
27	SD of Detects		5.884	17.38								
28	KM Mean		7.934	36.8								
29	KM SD		5.884	17.38								
30												
31	<b>Sample 1 vs Sample 2 Tarone-Ware Test</b>											
32												
33	<b>H0: Mean/Median of Sample 1 &lt;= Mean/Median of Sample 2</b>											
34												
35	TW Statistic		-7.247									
36	TW Critical Value (0.05)		1.645									
37	P-Value		1									
38												
39	<b>Conclusion with Alpha = 0.05</b>											
40	<b>Do Not Reject H0, Conclude Sample 1 &lt;= Sample 2</b>											
41	<b>P-Value &gt;= alpha (0.05)</b>											
42												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 3:32:44 PM									
5	From File		Metals.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Selected Null Hypothesis		Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)									
9	Alternative Hypothesis		Sample 1 Mean/Median > Sample 2 Mean/Median									
10												
11												
12	<b>Sample 1 Data: Cu</b>											
13	<b>Sample 2 Data: BkCu</b>											
14												
15	<b>Raw Statistics</b>											
16			Sample 1	Sample 2								
17	Number of Valid Data		32	15								
18	Number of Non-Detects		0	0								
19	Number of Detect Data		32	15								
20	Minimum Non-Detect		N/A	N/A								
21	Maximum Non-Detect		N/A	N/A								
22	Percent Non-detects		0.00%	0.00%								
23	Minimum Detect		2.8	14								
24	Maximum Detect		26.5	80								
25	Mean of Detects		7.934	36.8								
26	Median of Detects		6.6	35								
27	SD of Detects		5.884	17.38								
28												
29	<b>Wilcoxon-Mann-Whitney (WMW) Test</b>											
30												
31	<b>H0: Mean/Median of Sample 1 &lt;= Mean/Median of Sample 2</b>											
32												
33	Sample 1 Rank Sum W-Stat		539									
34	Standardized WMW U-Stat		-5.239									
35	Mean (U)		240									
36	SD(U) - Adj ties		43.81									
37	Approximate U-Stat Critical Value (0.05)		1.645									
38	P-Value (Adjusted for Ties)		1									
39												
40	<b>Conclusion with Alpha = 0.05</b>											
41	<b>Do Not Reject H0, Conclude Sample 1 &lt;= Sample 2</b>											
42	<b>P-Value &gt;= alpha (0.05)</b>											
43												

## Multiple Box Plots



	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Gehan Sample 1 vs Sample 2 Comparison Hypothesis Test for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 3:33:11 PM									
5	From File		Metals.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Selected Null Hypothesis		Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)									
9	Alternative Hypothesis		Sample 1 Mean/Median > Sample 2 Mean/Median									
10												
11												
12	<b>Sample 1 Data: Ni</b>											
13	<b>Sample 2 Data: BkNi</b>											
14												
15	<b>Raw Statistics</b>											
16			Sample 1	Sample 2								
17	Number of Valid Data		32	15								
18	Number of Non-Detects		0	0								
19	Number of Detect Data		32	15								
20	Minimum Non-Detect		N/A	N/A								
21	Maximum Non-Detect		N/A	N/A								
22	Percent Non-detects		0.00%	0.00%								
23	Minimum Detect		5	6.2								
24	Maximum Detect		23.1	33								
25	Mean of Detects		9.05	21.88								
26	Median of Detects		7.95	22								
27	SD of Detects		3.947	7.442								
28	KM Mean		9.05	21.88								
29	KM SD		3.947	7.442								
30												
31	<b>Sample 1 vs Sample 2 Gehan Test</b>											
32												
33	<b>H0: Mean/Median of Sample 1 &lt;= Mean/Median of background</b>											
34												
35	Gehan z Test Value		-4.542									
36	Critical z (0.05)		1.645									
37	P-Value		1									
38												
39	<b>Conclusion with Alpha = 0.05</b>											
40	<b>Do Not Reject H0, Conclude Sample 1 &lt;= Sample 2</b>											
41	<b>P-Value &gt;= alpha (0.05)</b>											
42												

## Multiple Histogram Reported values used for nondetects

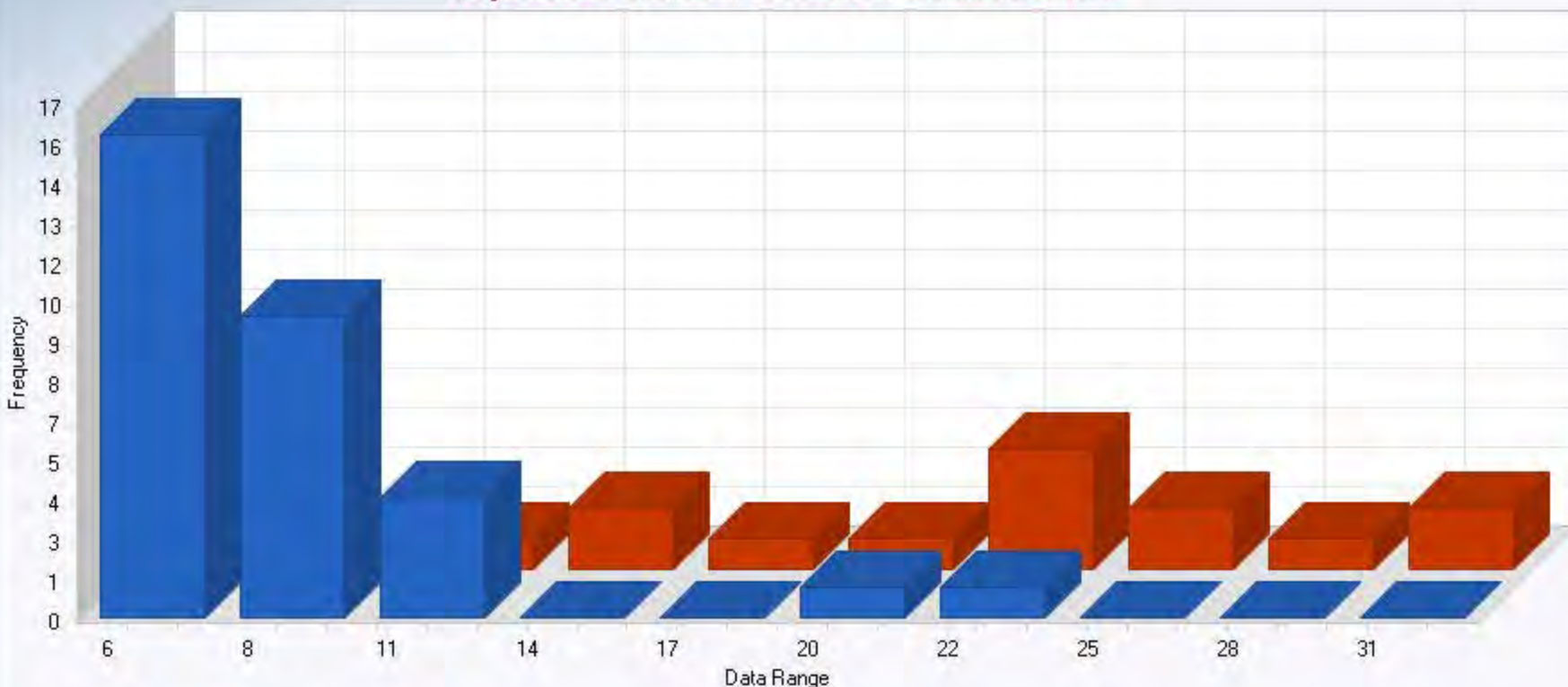
- Normal Distribution
- Less Bins
- More Bins

### Ni

Number of Values	32
Number of Values	32
Mean	9.05
SD	3.95

### BkNi

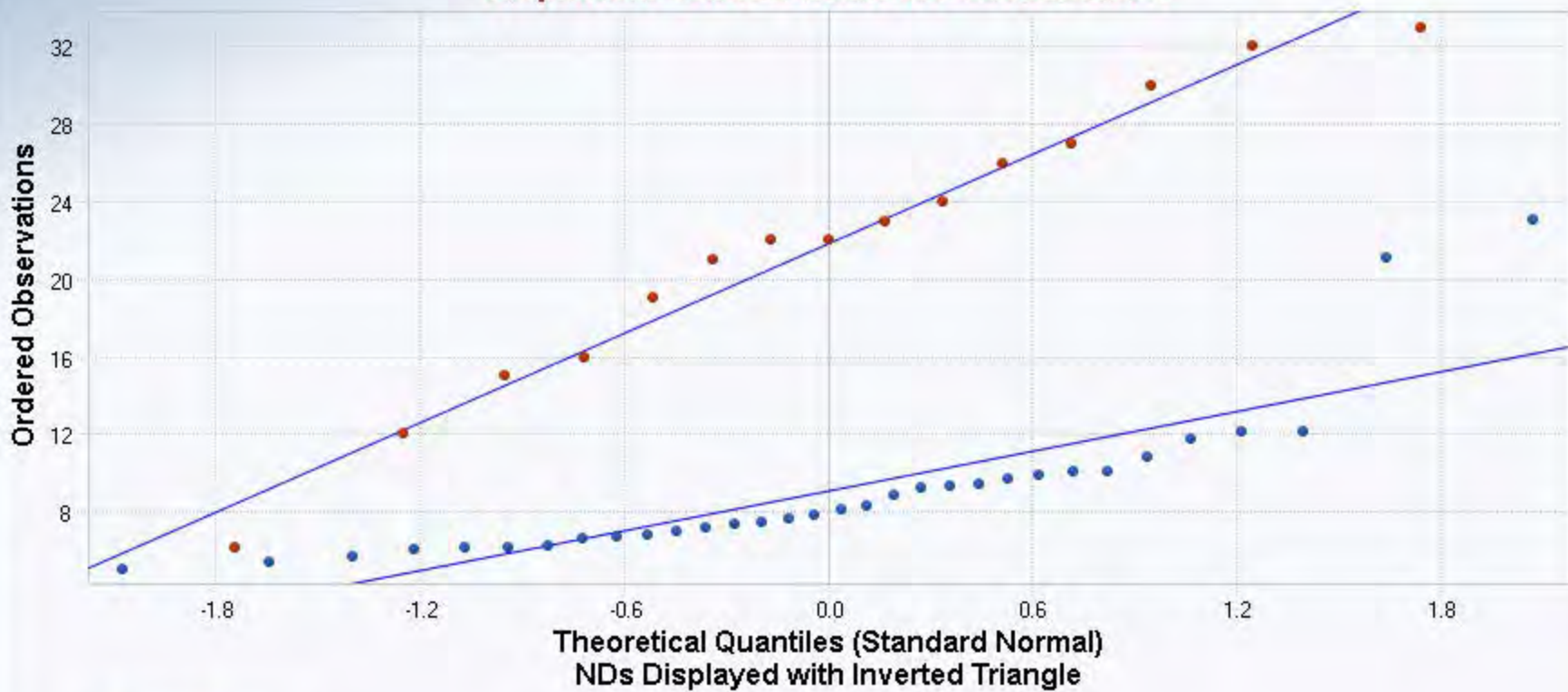
Number of Values	15
Number of Values	15
Mean	21.88
SD	7.44



■ Ni    ■ BkNi

# Q-Q Plot

## Reported values used for nondetects



● Ni ● BkNi

**Ni**  
Total Number of Data = 32  
Number of Non-Detects = 0  
Number of Detects = 32  
Detected Mean = 9.05  
Detected Sd = 3.947  
Slope (displayed data) = 3.45  
Intercept (displayed data) = 9.05  
Correlation, R = 0.851

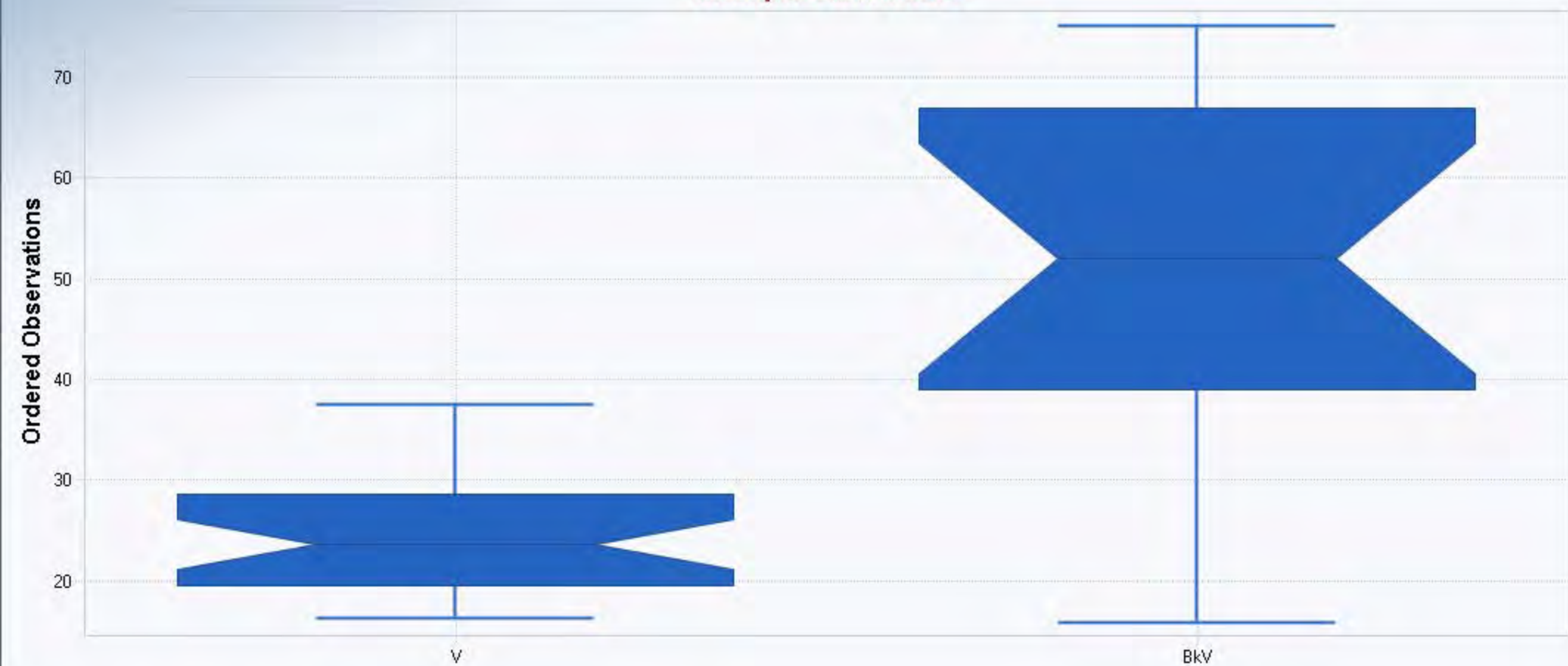
**BkNi**  
Total Number of Data = 15  
Number of Non-Detects = 0  
Number of Detects = 15  
Detected Mean = 21.88  
Detected Sd = 7.442  
Slope (displayed data) = 7.701  
Intercept (displayed data) = 21.88  
Correlation, R = 0.988

■ Best Fit Line

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Tarone-Ware Sample 1 vs Sample 2 Comparison Hypothesis Test for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 3:33:39 PM									
5	From File		Metals.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Selected Null Hypothesis		Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)									
9	Alternative Hypothesis		Sample 1 Mean/Median > Sample 2 Mean/Median									
10												
11												
12	<b>Sample 1 Data: Ni</b>											
13	<b>Sample 2 Data: BkNi</b>											
14												
15	<b>Raw Statistics</b>											
16			Sample 1	Sample 2								
17	Number of Valid Data		32	15								
18	Number of Non-Detects		0	0								
19	Number of Detects		32	15								
20	Minimum Non-Detect		N/A	N/A								
21	Maximum Non-Detect		N/A	N/A								
22	Percent Non-detects		0.00%	0.00%								
23	Minimum Detect		5	6.2								
24	Maximum Detect		23.1	33								
25	Mean of Detects		9.05	21.88								
26	Median of Detects		7.95	22								
27	SD of Detects		3.947	7.442								
28	KM Mean		9.05	21.88								
29	KM SD		3.947	7.442								
30												
31	<b>Sample 1 vs Sample 2 Tarone-Ware Test</b>											
32												
33	<b>H0: Mean/Median of Sample 1 &lt;= Mean/Median of Sample 2</b>											
34												
35	TW Statistic		-5.489									
36	TW Critical Value (0.05)		1.645									
37	P-Value		1									
38												
39	<b>Conclusion with Alpha = 0.05</b>											
40	<b>Do Not Reject H0, Conclude Sample 1 &lt;= Sample 2</b>											
41	<b>P-Value &gt;= alpha (0.05)</b>											
42												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 3:34:05 PM									
5	From File		Metals.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Selected Null Hypothesis		Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)									
9	Alternative Hypothesis		Sample 1 Mean/Median > Sample 2 Mean/Median									
10												
11												
12	<b>Sample 1 Data: Ni</b>											
13	<b>Sample 2 Data: BkNi</b>											
14												
15	<b>Raw Statistics</b>											
16			Sample 1	Sample 2								
17	Number of Valid Data		32	15								
18	Number of Non-Detects		0	0								
19	Number of Detect Data		32	15								
20	Minimum Non-Detect		N/A	N/A								
21	Maximum Non-Detect		N/A	N/A								
22	Percent Non-detects		0.00%	0.00%								
23	Minimum Detect		5	6.2								
24	Maximum Detect		23.1	33								
25	Mean of Detects		9.05	21.88								
26	Median of Detects		7.95	22								
27	SD of Detects		3.947	7.442								
28												
29	<b>Wilcoxon-Mann-Whitney (WMW) Test</b>											
30												
31	<b>H0: Mean/Median of Sample 1 &lt;= Mean/Median of Sample 2</b>											
32												
33	Sample 1 Rank Sum W-Stat		570									
34	Standardized WMW U-Stat		-4.531									
35	Mean (U)		240									
36	SD(U) - Adj ties		43.81									
37	Approximate U-Stat Critical Value (0.05)		1.645									
38	P-Value (Adjusted for Ties)		1									
39												
40	<b>Conclusion with Alpha = 0.05</b>											
41	<b>Do Not Reject H0, Conclude Sample 1 &lt;= Sample 2</b>											
42	<b>P-Value &gt;= alpha (0.05)</b>											
43												

## Multiple Box Plots



	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Gehan Sample 1 vs Sample 2 Comparison Hypothesis Test for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 3:35:54 PM									
5	From File		Metals.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Selected Null Hypothesis		Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)									
9	Alternative Hypothesis		Sample 1 Mean/Median > Sample 2 Mean/Median									
10												
11												
12	<b>Sample 1 Data: V</b>											
13	<b>Sample 2 Data: BkV</b>											
14												
15	<b>Raw Statistics</b>											
16			Sample 1	Sample 2								
17	Number of Valid Data		32	15								
18	Number of Non-Detects		0	0								
19	Number of Detect Data		32	15								
20	Minimum Non-Detect		N/A	N/A								
21	Maximum Non-Detect		N/A	N/A								
22	Percent Non-detects		0.00%	0.00%								
23	Minimum Detect		16.4	16								
24	Maximum Detect		37.3	75								
25	Mean of Detects		24.37	51.27								
26	Median of Detects		23.55	52								
27	SD of Detects		5.757	15.96								
28	KM Mean		24.37	51.27								
29	KM SD		5.757	15.96								
30												
31	<b>Sample 1 vs Sample 2 Gehan Test</b>											
32												
33	<b>H0: Mean/Median of Sample 1 &lt;= Mean/Median of background</b>											
34												
35	Gehan z Test Value		-4.678									
36	Critical z (0.05)		1.645									
37	P-Value		1									
38												
39	<b>Conclusion with Alpha = 0.05</b>											
40	<b>Do Not Reject H0, Conclude Sample 1 &lt;= Sample 2</b>											
41	<b>P-Value &gt;= alpha (0.05)</b>											
42												

## Multiple Histogram Reported values used for nondetects

Normal Distribution

Less Bins

More Bins

**V**

Number of Values 32

Number of Values 32

Mean 24.37

SD 5.76

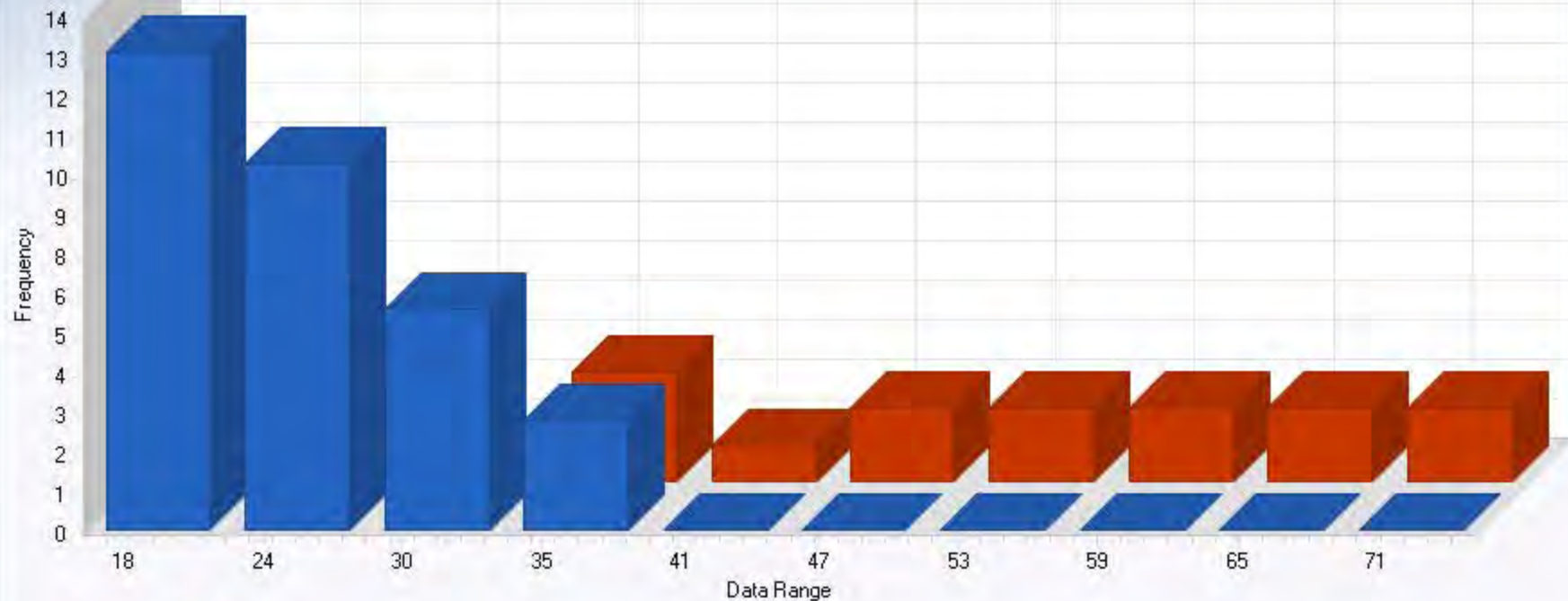
**BkV**

Number of Values 15

Number of Values 15

Mean 51.27

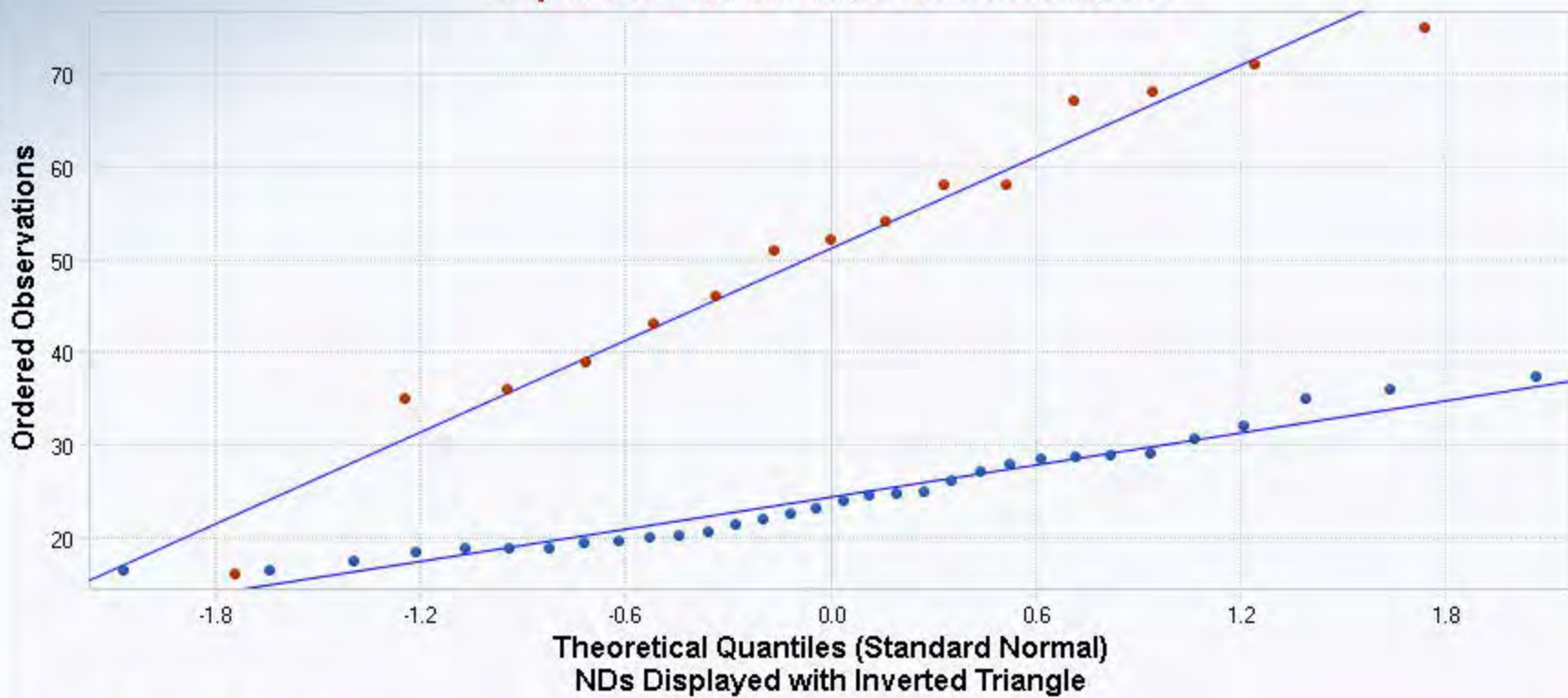
SD 15.96



V  BkV

# Q-Q Plot

## Reported values used for nondetects



V

Total Number of Data = 32  
Number of Non-Detects = 0  
Number of Detects = 32  
Detected Mean = 24.37  
Detected Sd = 5.757  
Slope (displayed data) = 5.761  
Intercept (displayed data) = 24.37  
Correlation, R = 0.975

BkV

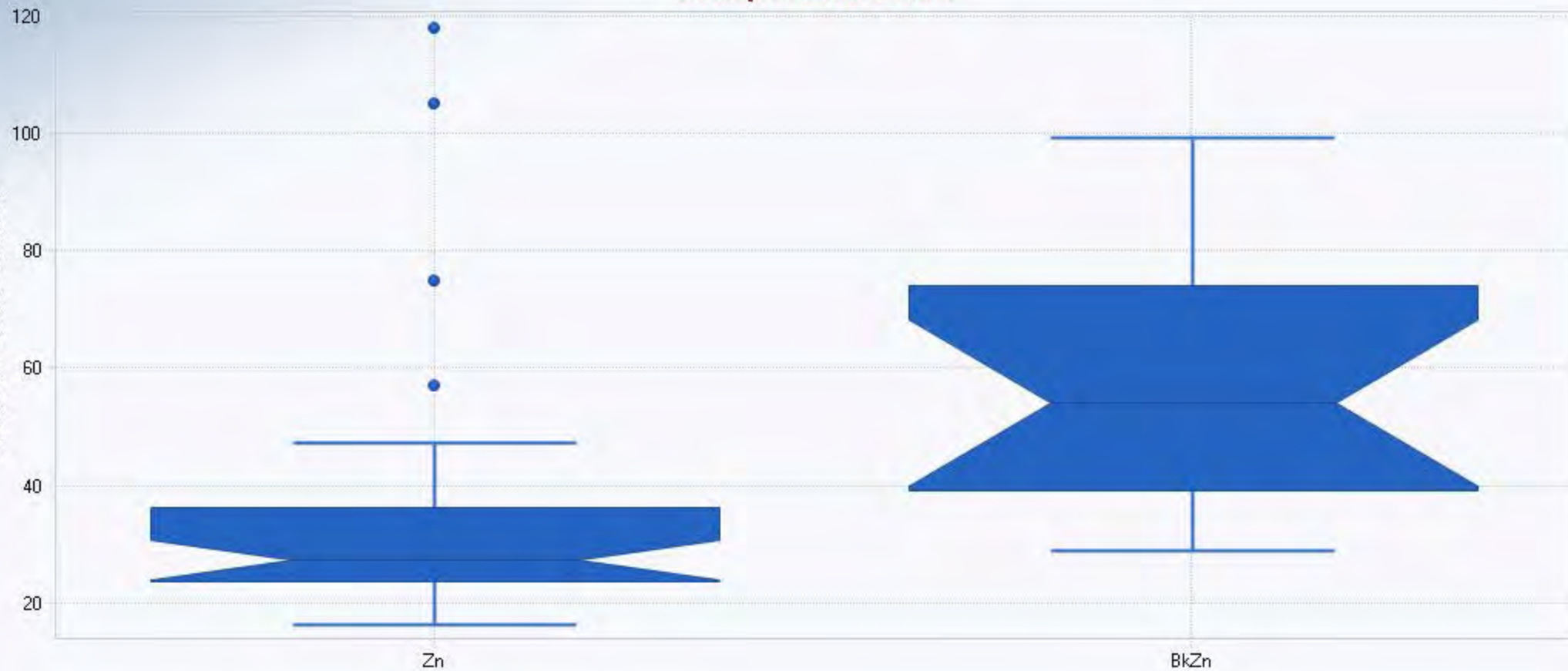
Total Number of Data = 15  
Number of Non-Detects = 0  
Number of Detects = 15  
Detected Mean = 51.27  
Detected Sd = 15.96  
Slope (displayed data) = 16.44  
Intercept (displayed data) = 51.27  
Correlation, R = 0.984

Best Fit Line

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Tarone-Ware Sample 1 vs Sample 2 Comparison Hypothesis Test for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 3:36:21 PM									
5	From File		Metals.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Selected Null Hypothesis		Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)									
9	Alternative Hypothesis		Sample 1 Mean/Median > Sample 2 Mean/Median									
10												
11												
12	<b>Sample 1 Data: V</b>											
13	<b>Sample 2 Data: BkV</b>											
14												
15	<b>Raw Statistics</b>											
16			Sample 1	Sample 2								
17	Number of Valid Data		32	15								
18	Number of Non-Detects		0	0								
19	Number of Detects		32	15								
20	Minimum Non-Detect		N/A	N/A								
21	Maximum Non-Detect		N/A	N/A								
22	Percent Non-detects		0.00%	0.00%								
23	Minimum Detect		16.4	16								
24	Maximum Detect		37.3	75								
25	Mean of Detects		24.37	51.27								
26	Median of Detects		23.55	52								
27	SD of Detects		5.757	15.96								
28	KM Mean		24.37	51.27								
29	KM SD		5.757	15.96								
30												
31	<b>Sample 1 vs Sample 2 Tarone-Ware Test</b>											
32												
33	<b>H0: Mean/Median of Sample 1 &lt;= Mean/Median of Sample 2</b>											
34												
35	TW Statistic		-5.467									
36	TW Critical Value (0.05)		1.645									
37	P-Value		1									
38												
39	<b>Conclusion with Alpha = 0.05</b>											
40	<b>Do Not Reject H0, Conclude Sample 1 &lt;= Sample 2</b>											
41	<b>P-Value &gt;= alpha (0.05)</b>											
42												

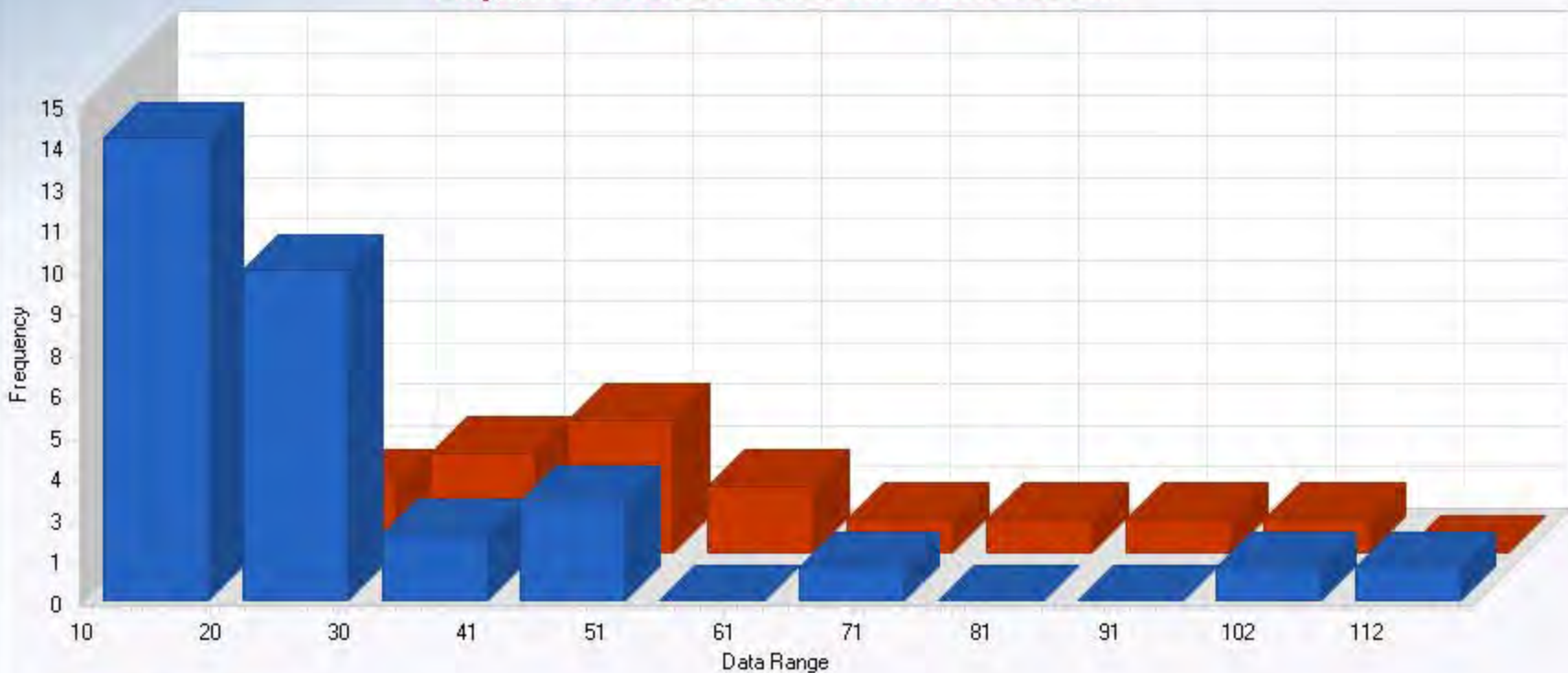
	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 3:36:49 PM									
5	From File		Metals.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Selected Null Hypothesis		Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)									
9	Alternative Hypothesis		Sample 1 Mean/Median > Sample 2 Mean/Median									
10												
11												
12	<b>Sample 1 Data: V</b>											
13	<b>Sample 2 Data: BkV</b>											
14												
15	<b>Raw Statistics</b>											
16			Sample 1	Sample 2								
17	Number of Valid Data		32	15								
18	Number of Non-Detects		0	0								
19	Number of Detect Data		32	15								
20	Minimum Non-Detect		N/A	N/A								
21	Maximum Non-Detect		N/A	N/A								
22	Percent Non-detects		0.00%	0.00%								
23	Minimum Detect		16.4	16								
24	Maximum Detect		37.3	75								
25	Mean of Detects		24.37	51.27								
26	Median of Detects		23.55	52								
27	SD of Detects		5.757	15.96								
28												
29	<b>Wilcoxon-Mann-Whitney (WMW) Test</b>											
30												
31	<b>H0: Mean/Median of Sample 1 &lt;= Mean/Median of Sample 2</b>											
32												
33	Sample 1 Rank Sum W-Stat		563.5									
34	Standardized WMW U-Stat		-4.679									
35	Mean (U)		240									
36	SD(U) - Adj ties		43.82									
37	Approximate U-Stat Critical Value (0.05)		1.645									
38	P-Value (Adjusted for Ties)		1									
39												
40	<b>Conclusion with Alpha = 0.05</b>											
41	<b>Do Not Reject H0, Conclude Sample 1 &lt;= Sample 2</b>											
42	<b>P-Value &gt;= alpha (0.05)</b>											
43												

## Multiple Box Plots



	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Gehan Sample 1 vs Sample 2 Comparison Hypothesis Test for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 3:37:19 PM									
5	From File		Metals.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Selected Null Hypothesis		Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)									
9	Alternative Hypothesis		Sample 1 Mean/Median > Sample 2 Mean/Median									
10												
11												
12	<b>Sample 1 Data: Zn</b>											
13	<b>Sample 2 Data: BkZn</b>											
14												
15	<b>Raw Statistics</b>											
16				Sample 1	Sample 2							
17	Number of Valid Data			32	15							
18	Number of Non-Detects			0	0							
19	Number of Detect Data			32	15							
20	Minimum Non-Detect			N/A	N/A							
21	Maximum Non-Detect			N/A	N/A							
22	Percent Non-detects			0.00%	0.00%							
23	Minimum Detect			16.4	29							
24	Maximum Detect			118	99							
25	Mean of Detects			35.6	57.73							
26	Median of Detects			27.2	54							
27	SD of Detects			23.28	22.38							
28	KM Mean			35.6	57.73							
29	KM SD			23.28	22.38							
30												
31	<b>Sample 1 vs Sample 2 Gehan Test</b>											
32												
33	<b>H0: Mean/Median of Sample 1 &lt;= Mean/Median of background</b>											
34												
35	Gehan z Test Value			-3.72								
36	Critical z (0.05)			1.645								
37	P-Value			1								
38												
39	<b>Conclusion with Alpha = 0.05</b>											
40	<b>Do Not Reject H0, Conclude Sample 1 &lt;= Sample 2</b>											
41	<b>P-Value &gt;= alpha (0.05)</b>											
42												

## Multiple Histogram Reported values used for nondetects



■ Zn   
 ■ BkZn

Normal Distribution  
 Less Bins  
 More Bins

**Zn**

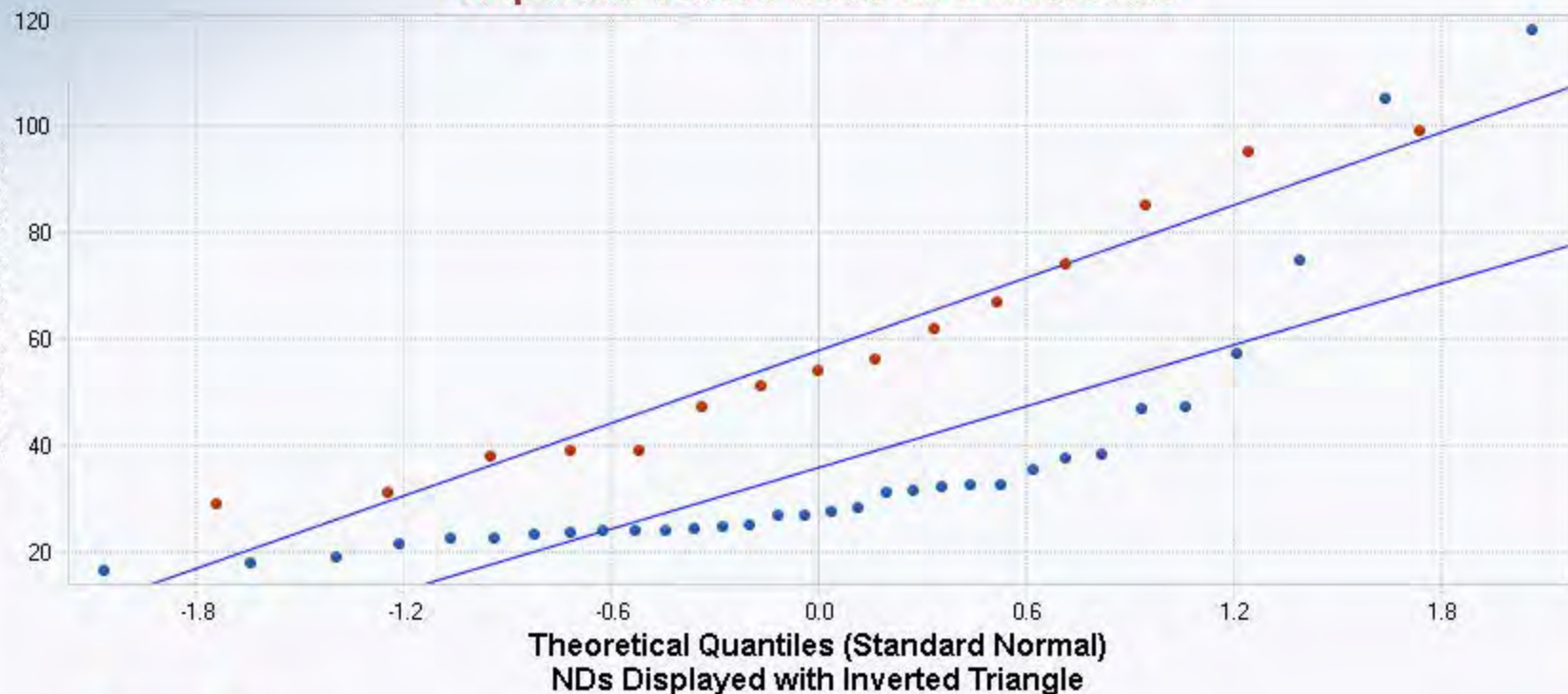
Number of Values	32
Number of Values	32
Mean	35.60
SD	23.28

**BkZn**

Number of Values	15
Number of Values	15
Mean	57.73
SD	22.38

## Q-Q Plot

### Reported values used for nondetects



● Zn ● BkZn

#### Zn

Total Number of Data = 32  
Number of Non-Detects = 0  
Number of Detects = 32  
Detected Mean = 35.6  
Detected Sd = 23.28  
Slope (displayed data) = 19.29  
Intercept (displayed data) = 35.6  
Correlation, R = 0.807

#### BkZn

Total Number of Data = 15  
Number of Non-Detects = 0  
Number of Detects = 15  
Detected Mean = 57.73  
Detected Sd = 22.38  
Slope (displayed data) = 22.8  
Intercept (displayed data) = 57.73  
Correlation, R = 0.973

■ Best Fit Line

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Tarone-Ware Sample 1 vs Sample 2 Comparison Hypothesis Test for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 3:37:46 PM									
5	From File		Metals.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Selected Null Hypothesis		Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)									
9	Alternative Hypothesis		Sample 1 Mean/Median > Sample 2 Mean/Median									
10												
11												
12	<b>Sample 1 Data: Zn</b>											
13	<b>Sample 2 Data: BkZn</b>											
14												
15	<b>Raw Statistics</b>											
16			Sample 1	Sample 2								
17	Number of Valid Data		32	15								
18	Number of Non-Detects		0	0								
19	Number of Detects		32	15								
20	Minimum Non-Detect		N/A	N/A								
21	Maximum Non-Detect		N/A	N/A								
22	Percent Non-detects		0.00%	0.00%								
23	Minimum Detect		16.4	29								
24	Maximum Detect		118	99								
25	Mean of Detects		35.6	57.73								
26	Median of Detects		27.2	54								
27	SD of Detects		23.28	22.38								
28	KM Mean		35.6	57.73								
29	KM SD		23.28	22.38								
30												
31	<b>Sample 1 vs Sample 2 Tarone-Ware Test</b>											
32												
33	<b>H0: Mean/Median of Sample 1 &lt;= Mean/Median of Sample 2</b>											
34												
35	TW Statistic		-4.559									
36	TW Critical Value (0.05)		1.645									
37	P-Value		1									
38												
39	<b>Conclusion with Alpha = 0.05</b>											
40	<b>Do Not Reject H0, Conclude Sample 1 &lt;= Sample 2</b>											
41	<b>P-Value &gt;= alpha (0.05)</b>											
42												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Wilcoxon-Mann-Whitney Sample 1 vs Sample 2 Comparison Test for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 3:38:50 PM									
5	From File		Metals.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Selected Null Hypothesis		Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)									
9	Alternative Hypothesis		Sample 1 Mean/Median > Sample 2 Mean/Median									
10												
11												
12	<b>Sample 1 Data: Zn</b>											
13	<b>Sample 2 Data: BkZn</b>											
14												
15	<b>Raw Statistics</b>											
16					Sample 1	Sample 2						
17	Number of Valid Data				32	15						
18	Number of Non-Detects				0	0						
19	Number of Detect Data				32	15						
20	Minimum Non-Detect				N/A	N/A						
21	Maximum Non-Detect				N/A	N/A						
22	Percent Non-detects				0.00%	0.00%						
23	Minimum Detect				16.4	29						
24	Maximum Detect				118	99						
25	Mean of Detects				35.6	57.73						
26	Median of Detects				27.2	54						
27	SD of Detects				23.28	22.38						
28												
29	<b>Wilcoxon-Mann-Whitney (WMW) Test</b>											
30												
31	<b>H0: Mean/Median of Sample 1 &lt;= Mean/Median of Sample 2</b>											
32												
33	Sample 1 Rank Sum W-Stat				605.5							
34	Standardized WMW U-Stat				-3.72							
35	Mean (U)				240							
36	SD(U) - Adj ties				43.82							
37	Approximate U-Stat Critical Value (0.05)				1.645							
38	P-Value (Adjusted for Ties)				1							
39												
40	<b>Conclusion with Alpha = 0.05</b>											
41	<b>Do Not Reject H0, Conclude Sample 1 &lt;= Sample 2</b>											
42	<b>P-Value &gt;= alpha (0.05)</b>											
43												

# **APPENDIX F**

## **ProUCL Statistical Analyses**

	A	B	C	D	E	F	G	H	I	J	K	L	
1	<b>UCL Statistics for Data Sets with Non-Detects</b>												
2													
3	User Selected Options												
4	Date/Time of Computation			ProUCL 5.12/14/2022 2:09:55 PM									
5	From File			Table 1.xls									
6	Full Precision			OFF									
7	Confidence Coefficient			95%									
8	Number of Bootstrap Operations			2000									
9													
10	<b>C13-C22</b>												
11													
12	<b>General Statistics</b>												
13	Total Number of Observations				32		Number of Distinct Observations				4		
14									Number of Missing Observations				1
15	Number of Detects				3		Number of Non-Detects				29		
16	Number of Distinct Detects				3		Number of Distinct Non-Detects				1		
17	Minimum Detect				42.8		Minimum Non-Detect				10		
18	Maximum Detect				282		Maximum Non-Detect				10		
19	Variance Detects				16974		Percent Non-Detects				90.63%		
20	Mean Detects				132.6		SD Detects				130.3		
21	Median Detects				72.9		CV Detects				0.983		
22	Skewness Detects				1.629		Kurtosis Detects				N/A		
23	Mean of Logged Detects				4.563		SD of Logged Detects				0.972		
24													
25	<b>Warning: Data set has only 3 Detected Values.</b>												
26	<b>This is not enough to compute meaningful or reliable statistics and estimates.</b>												
27													
28													
29	<b>Normal GOF Test on Detects Only</b>												
30	Shapiro Wilk Test Statistic				0.843		<b>Shapiro Wilk GOF Test</b>						
31	5% Shapiro Wilk Critical Value				0.767		Detected Data appear Normal at 5% Significance Level						
32	Lilliefors Test Statistic				0.343		<b>Lilliefors GOF Test</b>						
33	5% Lilliefors Critical Value				0.425		Detected Data appear Normal at 5% Significance Level						
34	<b>Detected Data appear Normal at 5% Significance Level</b>												
35													
36	<b>Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs</b>												
37	KM Mean			21.49		KM Standard Error of Mean			10.47				
38	KM SD			48.34		95% KM (BCA) UCL			N/A				
39	95% KM (t) UCL			39.24		95% KM (Percentile Bootstrap) UCL			N/A				
40	95% KM (z) UCL			38.71		95% KM Bootstrap t UCL			N/A				
41	90% KM Chebyshev UCL			52.89		95% KM Chebyshev UCL			67.12				
42	97.5% KM Chebyshev UCL			86.86		99% KM Chebyshev UCL			125.6				
43													
44	<b>Gamma GOF Tests on Detected Observations Only</b>												
45	<b>Not Enough Data to Perform GOF Test</b>												
46													
47	<b>Gamma Statistics on Detected Data Only</b>												
48	k hat (MLE)			1.688		k star (bias corrected MLE)			N/A				
49	Theta hat (MLE)			78.54		Theta star (bias corrected MLE)			N/A				
50	nu hat (MLE)			10.13		nu star (bias corrected)			N/A				

	A	B	C	D	E	F	G	H	I	J	K	L
51	Mean (detects)					132.6						
52												
53	<b>Gamma ROS Statistics using Imputed Non-Detects</b>											
54	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
55	GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)											
56	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
57	This is especially true when the sample size is small.											
58	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
59	Minimum					0.01	Mean					12.44
60	Maximum					282	Median					0.01
61	SD					51.34	CV					4.128
62	k hat (MLE)					0.126	k star (bias corrected MLE)					0.135
63	Theta hat (MLE)					98.91	Theta star (bias corrected MLE)					92.27
64	nu hat (MLE)					8.048	nu star (bias corrected)					8.627
65	Adjusted Level of Significance ( $\beta$ )					0.0416						
66	Approximate Chi Square Value (8.63, $\alpha$ )					3.103	Adjusted Chi Square Value (8.63, $\beta$ )					2.928
67	95% Gamma Approximate UCL (use when $n \geq 50$ )					34.58	95% Gamma Adjusted UCL (use when $n < 50$ )					N/A
68												
69	<b>Estimates of Gamma Parameters using KM Estimates</b>											
70	Mean (KM)					21.49	SD (KM)					48.34
71	Variance (KM)					2337	SE of Mean (KM)					10.47
72	k hat (KM)					0.198	k star (KM)					0.2
73	nu hat (KM)					12.65	nu star (KM)					12.79
74	theta hat (KM)					108.8	theta star (KM)					107.5
75	80% gamma percentile (KM)					28.31	90% gamma percentile (KM)					65
76	95% gamma percentile (KM)					110.7	99% gamma percentile (KM)					236.7
77												
78	<b>Gamma Kaplan-Meier (KM) Statistics</b>											
79	Approximate Chi Square Value (12.79, $\alpha$ )					5.755	Adjusted Chi Square Value (12.79, $\beta$ )					5.503
80	95% Gamma Approximate KM-UCL (use when $n \geq 50$ )					47.78	95% Gamma Adjusted KM-UCL (use when $n < 50$ )					49.97
81												
82	<b>Lognormal GOF Test on Detected Observations Only</b>											
83	Shapiro Wilk Test Statistic					0.941	<b>Shapiro Wilk GOF Test</b>					
84	5% Shapiro Wilk Critical Value					0.767	Detected Data appear Lognormal at 5% Significance Level					
85	Lilliefors Test Statistic					0.277	<b>Lilliefors GOF Test</b>					
86	5% Lilliefors Critical Value					0.425	Detected Data appear Lognormal at 5% Significance Level					
87	<b>Detected Data appear Lognormal at 5% Significance Level</b>											
88												
89	<b>Lognormal ROS Statistics Using Imputed Non-Detects</b>											
90	Mean in Original Scale					13.52	Mean in Log Scale					-1.788
91	SD in Original Scale					51.14	SD in Log Scale					3.505
92	95% t UCL (assumes normality of ROS data)					28.84	95% Percentile Bootstrap UCL					30.6
93	95% BCA Bootstrap UCL					40.42	95% Bootstrap t UCL					89.61
94	95% H-UCL (Log ROS)					3968						
95												
96	<b>Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution</b>											
97	KM Mean (logged)					2.514	KM Geo Mean					12.36
98	KM SD (logged)					0.702	95% Critical H Value (KM-Log)					2.109
99	KM Standard Error of Mean (logged)					0.152	95% H-UCL (KM -Log)					20.63
100	KM SD (logged)					0.702	95% Critical H Value (KM-Log)					2.109

	A	B	C	D	E	F	G	H	I	J	K	L
101	KM Standard Error of Mean (logged)					0.152						
102												
103	<b>DL/2 Statistics</b>											
104	<b>DL/2 Normal</b>						<b>DL/2 Log-Transformed</b>					
105	Mean in Original Scale					16.96	Mean in Log Scale					1.886
106	SD in Original Scale					50.22	SD in Log Scale					0.909
107	95% t UCL (Assumes normality)					32.01	95% H-Stat UCL					14.57
108	<b>DL/2 is not a recommended method, provided for comparisons and historical reasons</b>											
109												
110	<b>Nonparametric Distribution Free UCL Statistics</b>											
111	<b>Detected Data appear Normal Distributed at 5% Significance Level</b>											
112												
113	<b>Suggested UCL to Use</b>											
114	95% KM (t) UCL					39.24						
115												
116	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
117	Recommendations are based upon data size, data distribution, and skewness.											
118	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
119	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
120												

	A	B	C	D	E	F	G	H	I	J	K	L	
1	<b>UCL Statistics for Data Sets with Non-Detects</b>												
2													
3	User Selected Options												
4	Date/Time of Computation		ProUCL 5.12/14/2022 2:10:21 PM										
5	From File		Table 1.xls										
6	Full Precision		OFF										
7	Confidence Coefficient		95%										
8	Number of Bootstrap Operations		2000										
9													
10	<b>C23-C40</b>												
11													
12	<b>General Statistics</b>												
13	Total Number of Observations				32		Number of Distinct Observations				6		
14									Number of Missing Observations				1
15	Number of Detects				5		Number of Non-Detects				27		
16	Number of Distinct Detects				5		Number of Distinct Non-Detects				1		
17	Minimum Detect				132		Minimum Non-Detect				10		
18	Maximum Detect				920		Maximum Non-Detect				10		
19	Variance Detects				104173		Percent Non-Detects				84.38%		
20	Mean Detects				457.2		SD Detects				322.8		
21	Median Detects				307		CV Detects				0.706		
22	Skewness Detects				0.778		Kurtosis Detects				-1.051		
23	Mean of Logged Detects				5.904		SD of Logged Detects				0.767		
24													
25	<b>Normal GOF Test on Detects Only</b>												
26	Shapiro Wilk Test Statistic				0.912		<b>Shapiro Wilk GOF Test</b>						
27	5% Shapiro Wilk Critical Value				0.762		Detected Data appear Normal at 5% Significance Level						
28	Lilliefors Test Statistic				0.279		<b>Lilliefors GOF Test</b>						
29	5% Lilliefors Critical Value				0.343		Detected Data appear Normal at 5% Significance Level						
30	<b>Detected Data appear Normal at 5% Significance Level</b>												
31													
32	<b>Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs</b>												
33	KM Mean			79.88		KM Standard Error of Mean			39.22				
34	KM SD			198.5		95% KM (BCA) UCL			145.5				
35	95% KM (t) UCL			146.4		95% KM (Percentile Bootstrap) UCL			145.9				
36	95% KM (z) UCL			144.4		95% KM Bootstrap t UCL			148.1				
37	90% KM Chebyshev UCL			197.5		95% KM Chebyshev UCL			250.9				
38	97.5% KM Chebyshev UCL			324.8		99% KM Chebyshev UCL			470.2				
39													
40	<b>Gamma GOF Tests on Detected Observations Only</b>												
41	A-D Test Statistic			0.267		<b>Anderson-Darling GOF Test</b>							
42	5% A-D Critical Value			0.684		Detected data appear Gamma Distributed at 5% Significance Level							
43	K-S Test Statistic			0.24		<b>Kolmogorov-Smirnov GOF</b>							
44	5% K-S Critical Value			0.36		Detected data appear Gamma Distributed at 5% Significance Level							
45	<b>Detected data appear Gamma Distributed at 5% Significance Level</b>												
46													
47	<b>Gamma Statistics on Detected Data Only</b>												
48	k hat (MLE)			2.42		k star (bias corrected MLE)			1.101				
49	Theta hat (MLE)			189		Theta star (bias corrected MLE)			415.2				
50	nu hat (MLE)			24.2		nu star (bias corrected)			11.01				

	A	B	C	D	E	F	G	H	I	J	K	L
51	Mean (detects)					457.2						
52												
53	<b>Gamma ROS Statistics using Imputed Non-Detects</b>											
54	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
55	GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)											
56	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
57	This is especially true when the sample size is small.											
58	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
59	Minimum					0.01	Mean					71.45
60	Maximum					920	Median					0.01
61	SD					204.7	CV					2.865
62	k hat (MLE)					0.111	k star (bias corrected MLE)					0.121
63	Theta hat (MLE)					644.7	Theta star (bias corrected MLE)					589.2
64	nu hat (MLE)					7.093	nu star (bias corrected)					7.761
65	Adjusted Level of Significance ( $\beta$ )					0.0416						
66	Approximate Chi Square Value (7.76, $\alpha$ )					2.597	Adjusted Chi Square Value (7.76, $\beta$ )					2.44
67	95% Gamma Approximate UCL (use when $n \geq 50$ )					213.5	95% Gamma Adjusted UCL (use when $n < 50$ )					227.3
68												
69	<b>Estimates of Gamma Parameters using KM Estimates</b>											
70	Mean (KM)					79.88	SD (KM)					198.5
71	Variance (KM)					39387	SE of Mean (KM)					39.22
72	k hat (KM)					0.162	k star (KM)					0.168
73	nu hat (KM)					10.37	nu star (KM)					10.73
74	theta hat (KM)					493.1	theta star (KM)					476.5
75	80% gamma percentile (KM)					94.57	90% gamma percentile (KM)					239.8
76	95% gamma percentile (KM)					429.5	99% gamma percentile (KM)					968.4
77												
78	<b>Gamma Kaplan-Meier (KM) Statistics</b>											
79	Approximate Chi Square Value (10.73, $\alpha$ )					4.402	Adjusted Chi Square Value (10.73, $\beta$ )					4.186
80	95% Gamma Approximate KM-UCL (use when $n \geq 50$ )					194.7	95% Gamma Adjusted KM-UCL (use when $n < 50$ )					204.7
81												
82	<b>Lognormal GOF Test on Detected Observations Only</b>											
83	Shapiro Wilk Test Statistic					0.962	<b>Shapiro Wilk GOF Test</b>					
84	5% Shapiro Wilk Critical Value					0.762	Detected Data appear Lognormal at 5% Significance Level					
85	Lilliefors Test Statistic					0.192	<b>Lilliefors GOF Test</b>					
86	5% Lilliefors Critical Value					0.343	Detected Data appear Lognormal at 5% Significance Level					
87	<b>Detected Data appear Lognormal at 5% Significance Level</b>											
88												
89	<b>Lognormal ROS Statistics Using Imputed Non-Detects</b>											
90	Mean in Original Scale					87.39	Mean in Log Scale					2.534
91	SD in Original Scale					200.3	SD in Log Scale					2.161
92	95% t UCL (assumes normality of ROS data)					147.4	95% Percentile Bootstrap UCL					149.4
93	95% BCA Bootstrap UCL					173.8	95% Bootstrap t UCL					250.2
94	95% H-UCL (Log ROS)					634.6						
95												
96	<b>Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution</b>											
97	KM Mean (logged)					2.865	KM Geo Mean					17.56
98	KM SD (logged)					1.336	95% Critical H Value (KM-Log)					2.862
99	KM Standard Error of Mean (logged)					0.264	95% H-UCL (KM -Log)					85.11
100	KM SD (logged)					1.336	95% Critical H Value (KM-Log)					2.862

	A	B	C	D	E	F	G	H	I	J	K	L
101	KM Standard Error of Mean (logged)					0.264						
102												
103	<b>DL/2 Statistics</b>											
104	<b>DL/2 Normal</b>						<b>DL/2 Log-Transformed</b>					
105	Mean in Original Scale					75.66	Mean in Log Scale					2.281
106	SD in Original Scale					203.1	SD in Log Scale					1.608
107	95% t UCL (Assumes normality)					136.5	95% H-Stat UCL					91.02
108	<b>DL/2 is not a recommended method, provided for comparisons and historical reasons</b>											
109												
110	<b>Nonparametric Distribution Free UCL Statistics</b>											
111	<b>Detected Data appear Normal Distributed at 5% Significance Level</b>											
112												
113	<b>Suggested UCL to Use</b>											
114	95% KM (t) UCL					146.4						
115												
116	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
117	Recommendations are based upon data size, data distribution, and skewness.											
118	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
119	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
120												

	A	B	C	D	E	F	G	H	I	J	K	L	
1	<b>UCL Statistics for Data Sets with Non-Detects</b>												
2													
3	User Selected Options												
4	Date/Time of Computation		ProUCL 5.12/14/2022 2:07:03 PM										
5	From File		Table 1.xls										
6	Full Precision		OFF										
7	Confidence Coefficient		95%										
8	Number of Bootstrap Operations		2000										
9													
10													
11	<b>Cd</b>												
12													
13	<b>General Statistics</b>												
14	Total Number of Observations				32		Number of Distinct Observations				12		
15									Number of Missing Observations				1
16	Minimum				0.6		Mean				1.322		
17	Maximum				2.6		Median				1.3		
18	SD				0.382		Std. Error of Mean				0.0675		
19	Coefficient of Variation				0.289		Skewness				1.035		
20													
21	<b>Normal GOF Test</b>												
22	Shapiro Wilk Test Statistic				0.931		<b>Shapiro Wilk GOF Test</b>						
23	5% Shapiro Wilk Critical Value				0.93		Data appear Normal at 5% Significance Level						
24	Lilliefors Test Statistic				0.148		<b>Lilliefors GOF Test</b>						
25	5% Lilliefors Critical Value				0.154		Data appear Normal at 5% Significance Level						
26	<b>Data appear Normal at 5% Significance Level</b>												
27													
28	<b>Assuming Normal Distribution</b>												
29	<b>95% Normal UCL</b>						<b>95% UCLs (Adjusted for Skewness)</b>						
30	95% Student's-t UCL				1.436		95% Adjusted-CLT UCL (Chen-1995)				1.446		
31							95% Modified-t UCL (Johnson-1978)				1.438		
32													
33	<b>Gamma GOF Test</b>												
34	A-D Test Statistic				0.43		<b>Anderson-Darling Gamma GOF Test</b>						
35	5% A-D Critical Value				0.746		Detected data appear Gamma Distributed at 5% Significance Level						
36	K-S Test Statistic				0.112		<b>Kolmogorov-Smirnov Gamma GOF Test</b>						
37	5% K-S Critical Value				0.155		Detected data appear Gamma Distributed at 5% Significance Level						
38	<b>Detected data appear Gamma Distributed at 5% Significance Level</b>												
39													
40	<b>Gamma Statistics</b>												
41	k hat (MLE)				13		k star (bias corrected MLE)				11.8		
42	Theta hat (MLE)				0.102		Theta star (bias corrected MLE)				0.112		
43	nu hat (MLE)				832.1		nu star (bias corrected)				755.5		
44	MLE Mean (bias corrected)				1.322		MLE Sd (bias corrected)				0.385		
45									Approximate Chi Square Value (0.05)				692.7
46	Adjusted Level of Significance				0.0416						Adjusted Chi Square Value		689.5
47													
48	<b>Assuming Gamma Distribution</b>												
49	95% Approximate Gamma UCL (use when n>=50))				1.442		95% Adjusted Gamma UCL (use when n<50)				1.448		
50													

	A	B	C	D	E	F	G	H	I	J	K	L
51	<b>Lognormal GOF Test</b>											
52	Shapiro Wilk Test Statistic					0.973	<b>Shapiro Wilk Lognormal GOF Test</b>					
53	5% Shapiro Wilk Critical Value					0.93	Data appear Lognormal at 5% Significance Level					
54	Lilliefors Test Statistic					0.103	<b>Lilliefors Lognormal GOF Test</b>					
55	5% Lilliefors Critical Value					0.154	Data appear Lognormal at 5% Significance Level					
56	<b>Data appear Lognormal at 5% Significance Level</b>											
57												
58	<b>Lognormal Statistics</b>											
59	Minimum of Logged Data					-0.511	Mean of logged Data					0.24
60	Maximum of Logged Data					0.956	SD of logged Data					0.285
61												
62	<b>Assuming Lognormal Distribution</b>											
63	95% H-UCL					1.451	90% Chebyshev (MVUE) UCL					1.525
64	95% Chebyshev (MVUE) UCL					1.617	97.5% Chebyshev (MVUE) UCL					1.745
65	99% Chebyshev (MVUE) UCL					1.995						
66												
67	<b>Nonparametric Distribution Free UCL Statistics</b>											
68	<b>Data appear to follow a Discernible Distribution at 5% Significance Level</b>											
69												
70	<b>Nonparametric Distribution Free UCLs</b>											
71	95% CLT UCL					1.433	95% Jackknife UCL					1.436
72	95% Standard Bootstrap UCL					1.431	95% Bootstrap-t UCL					1.45
73	95% Hall's Bootstrap UCL					1.471	95% Percentile Bootstrap UCL					1.434
74	95% BCA Bootstrap UCL					1.444						
75	90% Chebyshev(Mean, Sd) UCL					1.524	95% Chebyshev(Mean, Sd) UCL					1.616
76	97.5% Chebyshev(Mean, Sd) UCL					1.743	99% Chebyshev(Mean, Sd) UCL					1.993
77												
78	<b>Suggested UCL to Use</b>											
79	95% Student's-t UCL					1.436						
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	Recommendations are based upon data size, data distribution, and skewness.											
83	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
84	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
85												

	A	B	C	D	E	F	G	H	I	J	K	L	
1	<b>UCL Statistics for Data Sets with Non-Detects</b>												
2													
3	User Selected Options												
4	Date/Time of Computation			ProUCL 5.12/14/2022 2:08:04 PM									
5	From File			Table 1.xls									
6	Full Precision			OFF									
7	Confidence Coefficient			95%									
8	Number of Bootstrap Operations			2000									
9													
10	<b>Cr6</b>												
11													
12	<b>General Statistics</b>												
13	Total Number of Observations				32		Number of Distinct Observations				18		
14									Number of Missing Observations				1
15	Number of Detects				19		Number of Non-Detects				13		
16	Number of Distinct Detects				17		Number of Distinct Non-Detects				1		
17	Minimum Detect				0.055		Minimum Non-Detect				0.001		
18	Maximum Detect				0.18		Maximum Non-Detect				0.001		
19	Variance Detects				9.5014E-4		Percent Non-Detects				40.63%		
20	Mean Detects				0.0972		SD Detects				0.0308		
21	Median Detects				0.09		CV Detects				0.317		
22	Skewness Detects				1.541		Kurtosis Detects				2.338		
23	Mean of Logged Detects				-2.372		SD of Logged Detects				0.284		
24													
25	<b>Normal GOF Test on Detects Only</b>												
26	Shapiro Wilk Test Statistic				0.841		<b>Shapiro Wilk GOF Test</b>						
27	5% Shapiro Wilk Critical Value				0.901		Detected Data Not Normal at 5% Significance Level						
28	Lilliefors Test Statistic				0.253		<b>Lilliefors GOF Test</b>						
29	5% Lilliefors Critical Value				0.197		Detected Data Not Normal at 5% Significance Level						
30	<b>Detected Data Not Normal at 5% Significance Level</b>												
31													
32	<b>Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs</b>												
33	KM Mean			0.0581		KM Standard Error of Mean				0.00955			
34	KM SD			0.0526		95% KM (BCA) UCL				0.0728			
35	95% KM (t) UCL			0.0743		95% KM (Percentile Bootstrap) UCL				0.0736			
36	95% KM (z) UCL			0.0738		95% KM Bootstrap t UCL				0.0738			
37	90% KM Chebyshev UCL			0.0867		95% KM Chebyshev UCL				0.0997			
38	97.5% KM Chebyshev UCL			0.118		99% KM Chebyshev UCL				0.153			
39													
40	<b>Gamma GOF Tests on Detected Observations Only</b>												
41	A-D Test Statistic			0.842		<b>Anderson-Darling GOF Test</b>							
42	5% A-D Critical Value			0.741		Detected Data Not Gamma Distributed at 5% Significance Level							
43	K-S Test Statistic			0.216		<b>Kolmogorov-Smirnov GOF</b>							
44	5% K-S Critical Value			0.198		Detected Data Not Gamma Distributed at 5% Significance Level							
45	<b>Detected Data Not Gamma Distributed at 5% Significance Level</b>												
46													
47	<b>Gamma Statistics on Detected Data Only</b>												
48	k hat (MLE)			12.47		k star (bias corrected MLE)				10.54			
49	Theta hat (MLE)			0.00779		Theta star (bias corrected MLE)				0.00922			
50	nu hat (MLE)			473.9		nu star (bias corrected)				400.4			

	A	B	C	D	E	F	G	H	I	J	K	L
51	Mean (detects)					0.0972						
52												
53	<b>Gamma ROS Statistics using Imputed Non-Detects</b>											
54	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
55	GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)											
56	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
57	This is especially true when the sample size is small.											
58	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
59	Minimum					0.01	Mean					0.0706
60	Maximum					0.18	Median					0.0735
61	SD					0.0413	CV					0.585
62	k hat (MLE)					2.484	k star (bias corrected MLE)					2.272
63	Theta hat (MLE)					0.0284	Theta star (bias corrected MLE)					0.0311
64	nu hat (MLE)					159	nu star (bias corrected)					145.4
65	Adjusted Level of Significance ( $\beta$ )					0.0416						
66	Approximate Chi Square Value (145.42, $\alpha$ )					118.6	Adjusted Chi Square Value (145.42, $\beta$ )					117.3
67	95% Gamma Approximate UCL (use when $n \geq 50$ )					0.0866	95% Gamma Adjusted UCL (use when $n < 50$ )					0.0875
68												
69	<b>Estimates of Gamma Parameters using KM Estimates</b>											
70	Mean (KM)					0.0581	SD (KM)					0.0526
71	Variance (KM)					0.00276	SE of Mean (KM)					0.00955
72	k hat (KM)					1.221	k star (KM)					1.127
73	nu hat (KM)					78.12	nu star (KM)					72.13
74	theta hat (KM)					0.0476	theta star (KM)					0.0515
75	80% gamma percentile (KM)					0.0925	90% gamma percentile (KM)					0.13
76	95% gamma percentile (KM)					0.167	99% gamma percentile (KM)					0.252
77												
78	<b>Gamma Kaplan-Meier (KM) Statistics</b>											
79	Approximate Chi Square Value (72.13, $\alpha$ )					53.58	Adjusted Chi Square Value (72.13, $\beta$ )					52.72
80	95% Gamma Approximate KM-UCL (use when $n \geq 50$ )					0.0782	95% Gamma Adjusted KM-UCL (use when $n < 50$ )					0.0795
81												
82	<b>Lognormal GOF Test on Detected Observations Only</b>											
83	Shapiro Wilk Test Statistic					0.93	<b>Shapiro Wilk GOF Test</b>					
84	5% Shapiro Wilk Critical Value					0.901	Detected Data appear Lognormal at 5% Significance Level					
85	Lilliefors Test Statistic					0.197	<b>Lilliefors GOF Test</b>					
86	5% Lilliefors Critical Value					0.197	Detected Data Not Lognormal at 5% Significance Level					
87	<b>Detected Data appear Approximate Lognormal at 5% Significance Level</b>											
88												
89	<b>Lognormal ROS Statistics Using Imputed Non-Detects</b>											
90	Mean in Original Scale					0.0764	Mean in Log Scale					-2.667
91	SD in Original Scale					0.0352	SD in Log Scale					0.445
92	95% t UCL (assumes normality of ROS data)					0.087	95% Percentile Bootstrap UCL					0.0869
93	95% BCA Bootstrap UCL					0.0873	95% Bootstrap t UCL					0.089
94	95% H-UCL (Log ROS)					0.0892						
95												
96	<b>Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution</b>											
97	KM Mean (logged)					-4.215	KM Geo Mean					0.0148
98	KM SD (logged)					2.238	95% Critical H Value (KM-Log)					4.199
99	KM Standard Error of Mean (logged)					0.406	95% H-UCL (KM -Log)					0.977
100	KM SD (logged)					2.238	95% Critical H Value (KM-Log)					4.199

	A	B	C	D	E	F	G	H	I	J	K	L
101	KM Standard Error of Mean (logged)					0.406						
102												
103	<b>DL/2 Statistics</b>											
104	<b>DL/2 Normal</b>						<b>DL/2 Log-Transformed</b>					
105	Mean in Original Scale					0.0579	Mean in Log Scale					-4.496
106	SD in Original Scale					0.0536	SD in Log Scale					2.618
107	95% t UCL (Assumes normality)					0.074	95% H-Stat UCL					3.282
108	<b>DL/2 is not a recommended method, provided for comparisons and historical reasons</b>											
109												
110	<b>Nonparametric Distribution Free UCL Statistics</b>											
111	<b>Detected Data appear Approximate Lognormal Distributed at 5% Significance Level</b>											
112												
113	<b>Suggested UCL to Use</b>											
114	KM Student's t					0.0231	KM H-UCL					0.977
115												
116	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
117	Recommendations are based upon data size, data distribution, and skewness.											
118	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
119	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
120												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>UCL Statistics for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.12/14/2022 2:08:50 PM									
5	From File		Table 1.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Number of Bootstrap Operations		2000									
9												
10	<b>Hg</b>											
11												
12	<b>General Statistics</b>											
13	Total Number of Observations				36		Number of Distinct Observations				22	
14	Number of Detects				24		Number of Non-Detects				12	
15	Number of Distinct Detects				21		Number of Distinct Non-Detects				1	
16	Minimum Detect				0.021		Minimum Non-Detect				0.02	
17	Maximum Detect				0.935		Maximum Non-Detect				0.02	
18	Variance Detects				0.0341		Percent Non-Detects				33.33%	
19	Mean Detects				0.0843		SD Detects				0.185	
20	Median Detects				0.036		CV Detects				2.191	
21	Skewness Detects				4.618		Kurtosis Detects				21.96	
22	Mean of Logged Detects				-3.096		SD of Logged Detects				0.84	
23												
24	<b>Normal GOF Test on Detects Only</b>											
25	Shapiro Wilk Test Statistic				0.338		<b>Shapiro Wilk GOF Test</b>					
26	5% Shapiro Wilk Critical Value				0.916		Detected Data Not Normal at 5% Significance Level					
27	Lilliefors Test Statistic				0.381		<b>Lilliefors GOF Test</b>					
28	5% Lilliefors Critical Value				0.177		Detected Data Not Normal at 5% Significance Level					
29	<b>Detected Data Not Normal at 5% Significance Level</b>											
30												
31	<b>Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs</b>											
32	KM Mean		0.0629		KM Standard Error of Mean				0.0257			
33	KM SD		0.151		95% KM (BCA) UCL				0.119			
34	95% KM (t) UCL		0.106		95% KM (Percentile Bootstrap) UCL				0.11			
35	95% KM (z) UCL		0.105		95% KM Bootstrap t UCL				0.318			
36	90% KM Chebyshev UCL		0.14		95% KM Chebyshev UCL				0.175			
37	97.5% KM Chebyshev UCL		0.223		99% KM Chebyshev UCL				0.318			
38												
39	<b>Gamma GOF Tests on Detected Observations Only</b>											
40	A-D Test Statistic		3.466		<b>Anderson-Darling GOF Test</b>							
41	5% A-D Critical Value		0.775		Detected Data Not Gamma Distributed at 5% Significance Level							
42	K-S Test Statistic		0.311		<b>Kolmogorov-Smirnov GOF</b>							
43	5% K-S Critical Value		0.184		Detected Data Not Gamma Distributed at 5% Significance Level							
44	<b>Detected Data Not Gamma Distributed at 5% Significance Level</b>											
45												
46	<b>Gamma Statistics on Detected Data Only</b>											
47	k hat (MLE)		0.935		k star (bias corrected MLE)				0.846			
48	Theta hat (MLE)		0.0902		Theta star (bias corrected MLE)				0.0997			
49	nu hat (MLE)		44.86		nu star (bias corrected)				40.58			
50	Mean (detects)		0.0843									

	A	B	C	D	E	F	G	H	I	J	K	L				
51																
52	<b>Gamma ROS Statistics using Imputed Non-Detects</b>															
53	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs															
54	GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)															
55	For such situations, GROS method may yield incorrect values of UCLs and BTVs															
56	This is especially true when the sample size is small.															
57	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates															
58	Minimum				0.01				Mean				0.0596			
59	Maximum				0.935				Median				0.027			
60	SD				0.154				CV				2.585			
61	k hat (MLE)				0.767				k star (bias corrected MLE)				0.722			
62	Theta hat (MLE)				0.0776				Theta star (bias corrected MLE)				0.0825			
63	nu hat (MLE)				55.23				nu star (bias corrected)				51.96			
64	Adjusted Level of Significance ( $\beta$ )				0.0428											
65	Approximate Chi Square Value (51.96, $\alpha$ )				36.41				Adjusted Chi Square Value (51.96, $\beta$ )				35.82			
66	95% Gamma Approximate UCL (use when $n \geq 50$ )				0.085				95% Gamma Adjusted UCL (use when $n < 50$ )				0.0864			
67																
68	<b>Estimates of Gamma Parameters using KM Estimates</b>															
69	Mean (KM)				0.0629				SD (KM)				0.151			
70	Variance (KM)				0.0227				SE of Mean (KM)				0.0257			
71	k hat (KM)				0.174				k star (KM)				0.178			
72	nu hat (KM)				12.53				nu star (KM)				12.82			
73	theta hat (KM)				0.361				theta star (KM)				0.353			
74	80% gamma percentile (KM)				0.0775				90% gamma percentile (KM)				0.19			
75	95% gamma percentile (KM)				0.334				99% gamma percentile (KM)				0.738			
76																
77	<b>Gamma Kaplan-Meier (KM) Statistics</b>															
78	Approximate Chi Square Value (12.82, $\alpha$ )				5.771				Adjusted Chi Square Value (12.82, $\beta$ )				5.556			
79	95% Gamma Approximate KM-UCL (use when $n \geq 50$ )				0.14				95% Gamma Adjusted KM-UCL (use when $n < 50$ )				0.145			
80																
81	<b>Lognormal GOF Test on Detected Observations Only</b>															
82	Shapiro Wilk Test Statistic				0.762				<b>Shapiro Wilk GOF Test</b>							
83	5% Shapiro Wilk Critical Value				0.916				Detected Data Not Lognormal at 5% Significance Level							
84	Lilliefors Test Statistic				0.232				<b>Lilliefors GOF Test</b>							
85	5% Lilliefors Critical Value				0.177				Detected Data Not Lognormal at 5% Significance Level							
86	<b>Detected Data Not Lognormal at 5% Significance Level</b>															
87																
88	<b>Lognormal ROS Statistics Using Imputed Non-Detects</b>															
89	Mean in Original Scale				0.0587				Mean in Log Scale				-3.738			
90	SD in Original Scale				0.154				SD in Log Scale				1.186			
91	95% t UCL (assumes normality of ROS data)				0.102				95% Percentile Bootstrap UCL				0.106			
92	95% BCA Bootstrap UCL				0.139				95% Bootstrap t UCL				0.278			
93	95% H-UCL (Log ROS)				0.0811											
94																
95	<b>Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution</b>															
96	KM Mean (logged)				-3.368				KM Geo Mean				0.0345			
97	KM SD (logged)				0.774				95% Critical H Value (KM-Log)				2.145			
98	KM Standard Error of Mean (logged)				0.132				95% H-UCL (KM -Log)				0.0616			
99	KM SD (logged)				0.774				95% Critical H Value (KM-Log)				2.145			
100	KM Standard Error of Mean (logged)				0.132											

	A	B	C	D	E	F	G	H	I	J	K	L
101												
102	<b>DL/2 Statistics</b>											
103	<b>DL/2 Normal</b>						<b>DL/2 Log-Transformed</b>					
104	Mean in Original Scale					0.0596	Mean in Log Scale					-3.599
105	SD in Original Scale					0.154	SD in Log Scale					0.992
106	95% t UCL (Assumes normality)					0.103	95% H-Stat UCL					0.0666
107	<b>DL/2 is not a recommended method, provided for comparisons and historical reasons</b>											
108												
109	<b>Nonparametric Distribution Free UCL Statistics</b>											
110	<b>Data do not follow a Discernible Distribution at 5% Significance Level</b>											
111												
112	<b>Suggested UCL to Use</b>											
113	95% KM (Chebyshev) UCL					0.175						
114												
115	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
116	Recommendations are based upon data size, data distribution, and skewness.											
117	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
118	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
119												

# **APPENDIX G**

## **ESL Model Results Soil Vapor – Residential**

2019 (Rev. 2)	<b>Table T2-1: Tier 2 ESLs Site-Specific Input and Output</b>	
<b>Click in cell and use pull-down boxes to make selection.</b>		
<b>Tier 2 Scenario Toggles</b>		
Land Use:	Residential	
Vegetation Level:	Minimal	
Groundwater Use:	Drinking Water Resource	
MCL Priority over Risk-Based:	No	
Discharge to Surface Water:	No Discharge Expected	
Soil Contamination Depth: (Shallow ≤ 10ft bgs < Deep)	Shallow & Deep Soil	



**Environmental Screening Levels**  
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Select Site Contaminants:	Contaminant 1		Contaminant 2		Contaminant 3		Contaminant 4		Contaminant 5	
	Tetrachloroethene		Toluene		Xylenes					
Tier 2 ESLs:	ESL	Basis	ESL	Basis	ESL	Basis	ESL	Basis	ESL	Basis
Soil (mg/kg):	8.0E-02	Leaching	3.2E+00	Leaching	2.1E+00	Leaching	#N/A	#N/A	#N/A	#N/A
Groundwater (µg/L):	6.0E-02	Dir Exp	4.0E+01	MCL	2.0E+01	MCL	#N/A	#N/A	#N/A	#N/A
Subslab/ Soil Gas (µg/m³):	1.5E+01	VI HHR	1.0E+04	VI HHR	3.5E+03	VI HHR	#N/A	#N/A	#N/A	#N/A
Indoor Air (µg/m³):	4.6E-01	Dir Exp	3.1E+02	Dir Exp	1.0E+02	Dir Exp	#N/A	#N/A	#N/A	#N/A

**Note:**  
Groundwater depth is no longer a toggle for evaluating vapor intrusion. See the notes in Workbook Table GW-3 and the User's Guide Chapter 5 for further information.



**Environmental Screening Levels**  
San Francisco Bay Regional Water Quality Control Board



2019 (Rev. 2)

**Table T2-2: Tier 2 – Site-Specific Cumulative Risk and Hazard Calculator**

**Selected Site Scenario (from T2-1)**

**Enter Site Data (Leave blank when no data exists)**

	Contaminant 1	Contaminant 2	Contaminant 3	Contaminant 4	Contaminant 5
<b>Contaminant inputs from T2-1:</b>	Tetrachloroethene	Toluene	Xylenes	0	0
Soil Concentration (mg/kg) - dry weight:					
Groundwater Concentration (µg/L):					
Subslab/ Soil Gas Concentration (µg/m <sup>3</sup> ):	32.00	23	38		
Indoor Air Concentration (µg/m <sup>3</sup> ):					
<b>Soil Gas VI Attenuation Factor (Use 0.03 for Screening):</b>					0.0300

Land Use: Residential  
Vegetation Level: Minimal  
Groundwater Use: Drinking Water Resource  
MCL Priority vs Risk-Based: No  
Discharge to Surface Water: No Discharge Expected  
Soil Contamination Depth: Shallow & Deep Soil

<b>Cancer Risk:</b>	Tetrachloroethene	Toluene	Xylenes	0.00	0.00
Soil Exposure Risk:	--	--	--	#N/A	#N/A
Tapwater Exposure Risk:	--	--	--	#N/A	#N/A
Current* Vapor Intrusion Exposure Risk:	2.1E-06	--	--	--	--
Basis:	Subslab/Soil Gas VI	Subslab/Soil Gas VI	Subslab/Soil Gas VI	--	--
Future** Vapor Intrusion Exposure Risk:	2.1E-06	--	--	--	--
Basis:	Subslab/Soil Gas VI	Subslab/Soil Gas VI	Subslab/Soil Gas VI	--	--

<b>Cumulative Risk</b>
#N/A
#N/A
2.1E-06 Subslab/Soil Gas VI
2.1E-06 Subslab/Soil Gas VI

<b>Noncancer Hazard:</b>	Tetrachloroethene	Toluene	Xylenes	0	0
Soil Exposure Hazard:	--	--	--	#N/A	#N/A
Tap Water Exposure Hazard:	--	--	--	#N/A	#N/A
Current* Vapor Intrusion Exposure Hazard:	2.3E-02	2.2E-03	1.1E-02	--	--
Basis:	Subslab/Soil Gas VI	Subslab/Soil Gas VI	Subslab/Soil Gas VI	--	--
Future** Vapor Intrusion Exposure Hazard:	2.3E-02	2.2E-03	1.1E-02	--	--
Basis:	Subslab/Soil Gas VI	Subslab/Soil Gas VI	Subslab/Soil Gas VI	--	--

<b>Cumulative Hazard</b>
#N/A
#N/A
3.6E-02 Subslab/Soil Gas VI
3.6E-02 Subslab/Soil Gas VI

**Notes:**

Cumulative cancer risk and noncancer hazard are not automatically calculated across pathways because exposure via multiple pathways typically is not simultaneous. This may be performed separately as part of a site-specific evaluation. See the User's Guide Section 3.3 (Addressing Cumulative Risk and Hazard).

\* **Current** (VI exposure to current occupants of existing buildings) – Primarily based on indoor air data. See User's Guide Chapter 5 for further information.

In the absence of indoor air data, subslab/soil gas or groundwater data is used to predict current indoor air concentrations.

Subslab/soil gas data is given priority over groundwater data for current exposure calculations. The cumulative risk calculation follows the same hierarchy.

\*\* **Future** (VI exposure to future occupants of existing or future buildings) – Primarily based on subslab/soil gas data. See User's Guide Chapter 5 for further information.

In the absence of subslab/soil gas data, groundwater data is used to predict future indoor air concentrations. The cumulative risk calculation follows the same hierarchy.

# **APPENDIX H**

## **ESL Model Results Soil Vapor - Commercial**

2019 (Rev. 2)	<b>Table T2-1: Tier 2 ESLs Site-Specific Input and Output</b>
<b>Click in cell and use pull-down boxes to make selection.</b>	
<b>Tier 2 Scenario Toggles</b>	
Land Use:	Commercial or Industrial
Vegetation Level:	Minimal
Groundwater Use:	Drinking Water Resource
MCL Priority over Risk-Based:	No
Discharge to Surface Water:	No Discharge Expected
Soil Contamination Depth: (Shallow ≤ 10ft bgs < Deep)	Shallow & Deep Soil



**Environmental Screening Levels**  
San Francisco Bay Regional Water Quality Control Board




Select Site Contaminants:	Contaminant 1		Contaminant 2		Contaminant 3		Contaminant 4		Contaminant 5	
	Tetrachloroethene		Toluene		Xylenes					
Tier 2 ESLs:	ESL	Basis	ESL	Basis	ESL	Basis	ESL	Basis	ESL	Basis
Soil (mg/kg):	8.0E-02	Leaching	3.2E+00	Leaching	2.1E+00	Leaching	#N/A	#N/A	#N/A	#N/A
Groundwater (µg/L):	6.0E-02	Dir Exp	4.0E+01	MCL	2.0E+01	MCL	#N/A	#N/A	#N/A	#N/A
Subslab/ Soil Gas (µg/m³):	6.7E+01	VI HHR	4.4E+04	VI HHR	1.5E+04	VI HHR	#N/A	#N/A	#N/A	#N/A
Indoor Air (µg/m³):	2.0E+00	Dir Exp	1.3E+03	Dir Exp	4.4E+02	Dir Exp	#N/A	#N/A	#N/A	#N/A

**Note:**  
Groundwater depth is no longer a toggle for evaluating vapor intrusion. See the notes in Workbook Table GW-3 and the User's Guide Chapter 5 for further information.



**Environmental Screening Levels**  
San Francisco Bay Regional Water Quality Control Board



2019 (Rev. 2)		Table T2-2: Tier 2 – Site-Specific Cumulative Risk and Hazard Calculator				
Enter Site Data (Leave blank when no data exists)						
	Contaminant 1	Contaminant 2	Contaminant 3	Contaminant 4	Contaminant 5	
Contaminant inputs from T2-1:	Tetrachloroethene	Toluene	Xylenes	0	0	
Soil Concentration (mg/kg) - dry weight:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Groundwater Concentration (µg/L):	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Subslab/ Soil Gas Concentration (µg/m <sup>3</sup> ):	32.00	23	38	<input type="text"/>	<input type="text"/>	
Indoor Air Concentration (µg/m <sup>3</sup> ):	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Soil Gas VI Attenuation Factor (Use 0.03 for Screening):</b>						<input type="text" value="0.0300"/>

Selected Site Scenario (from T2-1)
Land Use: Commercial or Industrial
Vegetation Level: Minimal
Groundwater Use: Drinking Water Resource
MCL Priority vs Risk-Based: No
Discharge to Surface Water: No Discharge Expected
Soil Contamination Depth: Shallow & Deep Soil

Cancer Risk:	Tetrachloroethene	Toluene	Xylenes	0.00	0.00	Cumulative Risk
Soil Exposure Risk:	<input type="text" value="--"/>	<input type="text" value="--"/>	<input type="text" value="--"/>	<input type="text" value="#N/A"/>	<input type="text" value="#N/A"/>	<input type="text" value="#N/A"/>
Tapwater Exposure Risk:	<input type="text" value="--"/>	<input type="text" value="--"/>	<input type="text" value="--"/>	<input type="text" value="#N/A"/>	<input type="text" value="#N/A"/>	<input type="text" value="#N/A"/>
Current* Vapor Intrusion Exposure Risk: Basis:	4.8E-07 Subslab/Soil Gas VI	-- Subslab/Soil Gas VI	-- Subslab/Soil Gas VI	-- --	-- --	4.8E-07 Subslab/Soil Gas VI
Future** Vapor Intrusion Exposure Risk: Basis:	4.8E-07 Subslab/Soil Gas VI	-- Subslab/Soil Gas VI	-- Subslab/Soil Gas VI	-- --	-- --	4.8E-07 Subslab/Soil Gas VI

Noncancer Hazard:	Tetrachloroethene	Toluene	Xylenes	0	0	Cumulative Hazard
Soil Exposure Hazard:	<input type="text" value="--"/>	<input type="text" value="--"/>	<input type="text" value="--"/>	<input type="text" value="#N/A"/>	<input type="text" value="#N/A"/>	<input type="text" value="#N/A"/>
Tap Water Exposure Hazard:	<input type="text" value="--"/>	<input type="text" value="--"/>	<input type="text" value="--"/>	<input type="text" value="#N/A"/>	<input type="text" value="#N/A"/>	<input type="text" value="#N/A"/>
Current* Vapor Intrusion Exposure Hazard: Basis:	5.5E-03 Subslab/Soil Gas VI	5.3E-04 Subslab/Soil Gas VI	2.6E-03 Subslab/Soil Gas VI	-- --	-- --	8.6E-03 Subslab/Soil Gas VI
Future** Vapor Intrusion Exposure Hazard: Basis:	5.5E-03 Subslab/Soil Gas VI	5.3E-04 Subslab/Soil Gas VI	2.6E-03 Subslab/Soil Gas VI	-- --	-- --	8.6E-03 Subslab/Soil Gas VI

**Notes:**  
Cumulative cancer risk and noncancer hazard are not automatically calculated across pathways because exposure via multiple pathways typically is not simultaneous. This may be performed separately as part of a site-specific evaluation. See the User's Guide Section 3.3 (Addressing Cumulative Risk and Hazard).

\* **Current** (VI exposure to current occupants of existing buildings) – Primarily based on indoor air data. See User's Guide Chapter 5 for further information.  
In the absence of indoor air data, subslab/soil gas or groundwater data is used to predict current indoor air concentrations.  
Subslab/soil gas data is given priority over groundwater data for current exposure calculations. The cumulative risk calculation follows the same hierarchy.

\*\* **Future** (VI exposure to future occupants of existing or future buildings) – Primarily based on subslab/soil gas data. See User's Guide Chapter 5 for further information.  
In the absence of subslab/soil gas data, groundwater data is used to predict future indoor air concentrations. The cumulative risk calculation follows the same hierarchy.

**APPENDIX I**  
**VURAM**

Virginia Department of Environmental Quality

# VURAM

Virginia Unified Risk Assessment Model

VERSION: 3.2

## Construction Worker Quantitative Risk Assessment Report

**Site Name:** 1933 Temple Ave Signal Hill CA

**Program:** Voluntary Remediation Program

By submitting this report to the Virginia DEQ, the user confirms that VURAM's default exposure parameters have not been altered, unless a complete unaltered VURAM analysis is provided and all modifications are detailed explicitly in an accompanying narrative or documentation that shows DEQ's prior concurrence with specific changes.

**Chemical Specific Notes displayed as applicable**

**All Report Pages are Required for Risk Assessment Submission**

Default Hazard Index  
1

Default Risk Individual Chemical  
1.00E-06

Default Cumulative Risk-All Chemicals  
1.00E-04

# Air

Analyte: Tetrachloroethylene

CAS: 127-18-4

Concentration µg/m3:	3.20E+01
RfDo:	
RfCi:	4.07E-02
SFO:	
IUR:	2.60E-07
Mutagen:	
VOC:	Y

## Calculated Hazard/Risk

Non-Cancer Adult		Cancer	
Ingestion:		Ingestion:	
Dermal:		Dermal:	
Inhalation:	4.73E-04	Inhalation:	6.86E-11
<b>Total:</b>	<b>4.73E-04</b>	<b>Total:</b>	<b>6.86E-11</b>

% Contribution to Media Risk

85.25%

100.00%

Analyte: Toluene

CAS: 108-88-3

Concentration µg/m3:	2.30E+01
RfDo:	
RfCi:	5.00E+00
SFO:	
IUR:	
Mutagen:	
VOC:	Y

## Calculated Hazard/Risk

Non-Cancer Adult		Cancer	
Ingestion:		Ingestion:	
Dermal:		Dermal:	
Inhalation:	4.27E-06	Inhalation:	
<b>Total:</b>	<b>4.27E-06</b>	<b>Total:</b>	<b>0.00E+00</b>

% Contribution to Media Risk

0.77%

0.00%

Analyte: Xylenes

CAS: 1330-20-7

Concentration µg/m3:	3.80E+01
RfDo:	
RfCi:	4.00E-01
SFO:	
IUR:	
Mutagen:	
VOC:	Y

## Calculated Hazard/Risk

Non-Cancer Adult		Cancer	
Ingestion:		Ingestion:	
Dermal:		Dermal:	
Inhalation:	7.76E-05	Inhalation:	
<b>Total:</b>	<b>7.76E-05</b>	<b>Total:</b>	<b>0.00E+00</b>

% Contribution to Media Risk

13.98%

0.00%

Site Name: 1933 Temple Ave Signal Hill CA

Construction

Program: Voluntary Remediation Program

Risk Based Performance Criteria

Default Hazard Index

Default Risk Individual Chemical

Default Cumulative Risk-All Chemicals

1

1.00E-06

1.00E-04

# Air

## Total Calculated Hazard Index/Risk for Air

### Non-Cancer Adult

Ingestion: 0.00E+00

Dermal: 0.00E+00

Inhalation: 5.55E-04

**Total: 5.55E-04**

### Cancer

Ingestion: 0.00E+00

Dermal: 0.00E+00

Inhalation: 6.86E-11

**Total: 6.86E-11**

# Report Summary

Hazard/risk values of zero (0.00+00) are reflective of non-calculated values. Hazard/risk for zero value analytes must be evaluated outside of quantitative risk assessment.

## Hazard/Risk Summary for Air

Analyte	CAS	Hazard	Risk
Tetrachloroethylene	127-18-4	4.73E-04	6.86E-11
Toluene	108-88-3	4.27E-06	0.00E+00
Xylenes	1330-20-7	7.76E-05	0.00E+00

## Total Hazard Index/Risk for All Media

Non-Cancer Adult		Cancer	
Ingestion:	0.00E+00	Ingestion:	0.00E+00
Dermal:	0.00E+00	Dermal:	0.00E+00
Inhalation:	5.55E-04	Inhalation:	6.86E-11
<b>Total:</b>	<b>5.55E-04</b>	<b>Total:</b>	<b>6.86E-11</b>
<i>does not exceed hazard index</i>		<i>does not exceed cumulative risk</i>	

## Construction Exposure Default Values

Symbol	Description	Value	Units
A	Construction Worker Soil Inhalation Dispersion Constant - Philadelphia	14.0111	(unitless)
AFcw	Construction Worker Soil Adherence Factor	0.3	(mg/cm <sup>2</sup> )
As	Areal extent of the site or contamination	0.5	(acres)
ATcw	Construction Worker Averaging Time: 365 x LT	25550	(days)
ATcw	Construction Worker Averaging Time	365	(days/yr)
ATcw-a	Construction Worker Averaging Time: EWcw x 7 x EDcw	350	(days)
B	Construction Worker Soil Inhalation Dispersion Constant - Philadelphia	19.6154	(unitless)
BWcw	Construction Worker Body Weight	80	(kg)
C	Construction Worker Soil Inhalation Dispersion Constant - Philadelphia	225.3397	(unitless)
DWcw	Construction Worker Days Worked	5	(days/week)

EDcw	Construction Worker Exposure Duration	1(yrs)
EFcw	Construction Worker Exposure Frequency	250(days/yr)
EFcw-a	Construction Worker Air Exposure Frequency	250(days/yr)
EFcw-s	Construction Worker Soil Exposure Frequency	250(days/yr)
EFcw-vrp	Construction Worker Soil Exposure Frequency - VRP ONLY - Virginia DEQ	125(days/yr)
ETcw	Construction Worker Exposure Time	8(hrs/day)
ETcw-s	Construction Worker Soil Exposure Time	8(hrs/day)
EWcw	Construction Worker Weeks Worked	50(weeks/yr)
F(x)	Function Dependent on $0.886 \times (U_t/U_m)$	0.194(unitless)
Fd	Dispersion Correction Factor	0.185(unitless)
IRcw	Construction Worker Soil Ingestion Rate	330(mg/day)
n	Total soil porosity: $1-(\rho_b/\rho_s)$	0.433962264150943(unitless)
PEFsc	Particulate Emission Factor Subchronic - Virginia DEQ calculated	1266503136.97919(m3/kg)
Q/C	Inverse of the ratio of the 1-h geometric mean concentration to the emission flux along a straight road segment bisecting a square site - Virginia DEQ calculated	87.3689772162309(g/m <sup>2</sup> -s per kg/m)
SACw	Construction Worker Surface Area	3527(cm <sup>2</sup> /day)
Tc	Total time over which construction occurs: EDcw*EWcw*7days/wk*24hrs/day*3600s/hr	30240000(s)
TR-ACH	Trench Air Changes per Hour - Virginia DEQ	2(h)-1
TR-ACvad	Trench Advection Coefficient Groundwater greater than 15ft - Virginia DEQ	0.25(cm <sup>3</sup> /cm <sup>3</sup> )
TR-CF1	Trench Conversion Factor-1	0.001(L/cm <sup>3</sup> )
TR-CF2	Trench Conversion Factor-2	10000(cm <sup>2</sup> /m <sup>2</sup> )
TR-CF3	Trench Conversion Factor-3	3600(s/hr)
TR-CF4	Trench Conversion Factor-4	1000000(cm <sup>3</sup> /m <sup>3</sup> )
TR-D-dir	Trench Depth - groundwater less Than 15ft - Virginia DEQ	2.44(m)
TR-D-ind	Trench Depth - groundwater greater than 15ft - Virginia DEQ	4.57(m)
TR-Dsg	Trench - Depth to soil gas vapor source - Virginia DEQ	1(cm)
TR-EFcw	Trench Construction Worker Exposure Frequency - Virginia DEQ	125(days/yr)

Default Hazard Index

Default Risk Individual Chemical

Default Cumulative Risk-All Chemicals

1

1.00E-06

1.00E-04

TR-ETcw	Trench Construction Worker Exposure Time - Virginia DEQ	4	(hrs/day)
TR-EVcw	Trench Construction Worker Events - Virginia DEQ	1	(events/day)
TR-F	Trench Fraction of floor through which contaminant can enter - Virginia DEQ	1	(unitless)
TR-HV	Trench Thickness of Vadose Zone - groundwater greater than 15 ft - Virginia DEQ	30	(cm)
TR-IRcw	Trench Construction Worker Groundwater Ingestion Rate - Virginia DEQ	0.02	(L/day)
TR-KGH2O	Trench Gas-phase mass transfer coefficient of water vapor at 25deg C - Virginia DEQ	0.833	(cm/s)
TR-KLO2	Trench Liquid-phase mass transfer coefficient of oxygen at 25deg C - Virginia DEQ	0.002	(cm/s)
TR-L	Trench Length - Virginia DEQ	2.44	(m)
TR-Lgw	Trench Depth to groundwater - Virginia DEQ	488	(cm)
TR-MWH2O	Trench Molecular Weight of Water - Virginia DEQ	18	(unitless)
TR-MWO2	Trench Molecular Weight of Oxygen - Virginia DEQ	32	(unitless)
TR-Porvad	Trench Porosity in Vadose Zone - groundwater greater than 15ft - Virginia DEQ	0.44	(cm3/cm3)
TR-R	Trench Ideal Gas Constant - Virginia DEQ	0.000082	(atm-m3/mol-K)
TR-Temp-F	Trench Temperature Fahrenheit - Virginia DEQ	77	(F)
TR-Temp-K	Trench Temperature - Virginia DEQ	298	(K)
TR-W	Trench Width - Virginia DEQ	0.91	(m)
TR-W/D	Trench Width to Depth Ratio - Virginia DEQ	0.38	(unitless)
Um	Mean Annual Wind Speed	4.69	(m/s)
Ut	Equivalent Threshold Value of Wind Speed at 7m	11.32	(m/s)
V	V Fraction of Vegetative Cover	0.5	(unitless)
Θa	Air filled soil porosity: n-Θw	0.133962264150943	(unitless)
Θw	Water filled soil porosity	0.3	(unitless)
ρb	Dry soil bulk density	1.5	(kg/L)
ρs	Soil particle density	2.65	(kg/L)

END OF REPORT