Appendix F2

Human Health Screening Evaluation

Human Health Screening Evaluation

8996 Etiwanda Avenue
Rancho Cucamonga, California

May 31, 2023
Revised October 20, 2023
Revised December 20, 2023
Revised April 4, 2024

Prepared for:

BTC III Etiwanda Commerce Center LP

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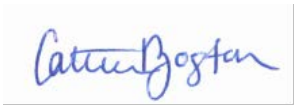
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Executive Summary

Roux Associates, Inc. (Roux), on behalf of BTC III Etiwanda Commerce Center LP (Client, Owner), has prepared this *Human Health Screening Evaluation* (HHSE) for the Former Etiwanda Generating Station located at 8996 Etiwanda Avenue, Rancho Cucamonga, California (the Site). This HHSE incorporates results of soil and soil vapor investigations conducted as part of Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) activities by Northgate Environmental Management Inc. (Northgate) on behalf of the former owner of the Site[1], Southern California Edison (SCE), as well as other investigations conducted between 2019 and 2022.

The objective of the HHSE is to provide a conservative evaluation of the potential risk from exposure to chemicals detected in the subsurface at the Site for known current and planned future uses of the property. As such, the HHSE has been prepared to evaluate whether residual chemicals of potential concern (COPCs) present in the subsurface at the Site pose an unacceptable level of risk to current and future construction worker, future indoor commercial/industrial worker, and future outdoor commercial/industrial worker receptors. The HHSE was prepared pursuant to the California Department of Toxic Substance Control (DTSC) *Preliminary Endangerment Assessment Guidance Manual* (PEA Guidance; DTSC, 2015). The overall scope and certain key assumptions underpinning this HHSE were agreed upon in discussions between Roux, Northgate, and a DTSC toxicologist.

The current and future intended use of the Site is commercial/industrial. Given these future and current uses on the Site, risks to current and future construction worker, future outdoor commercial/industrial worker, and future indoor commercial/industrial receptors were evaluated in the HHSE. On-Site residential use was not evaluated in this HHSE; if residential land use is planned at the Site, this HHSE should be revised.[2] Therefore, the conceptual site model (CSM) presented below illustrates potentially complete exposure pathways at the Site.

Primary Source	Secondary Source	Exposure Media	Exposure Route	Receptor
Potential Historical on-Site Releases	Impacted on-Site Soil	Soil	Ingestion, dermal contact, or inhalation of particles	• Outdoor commercial / industrial worker • Construction worker
	Impacted on-Site Vadose Zone Soil Vapor	Indoor Air	Inhalation	• Indoor commercial/industrial worker

Exposure point concentrations (EPCs) are estimated concentrations of contaminants that are contacted by a receptor over an assumed duration. Potential exposure to indoor receptors was qualitatively evaluated for two exposure units (EUs)[3] defined by future redevelopment plans and distribution of contaminants in the subsurface. Maximum or 95% upper confidence limit (95% UCL) concentrations for soil vapor[4] and soil[5] were selected as EPCs, consistent with the DTSC's PEA Guidance. DTSC's medium-specific attenuation factor (AF) for soil gas

1 RFI investigation activities and results are summarized in a RCRA Facility Investigation Report (RFI Report) prepared by Northgate on behalf of SCE (Northgate, 2023).

2 A Land Use Covenant (LUC) will be put in place in coordination with the DTSC to restrict the Site to commercial/industrial land use as part of the redevelopment.

3 The Site was divided into three exposure units, but exposure unit 3 was not evaluated qualitatively as the RFI did not reveal a need to sample for VOCs within this area of the Site.

4 The 95% UCL of samples within the core of the identified soil vapor area were used as the EPC for chloroform, carbon tetrachloride, tetrachloroethene and 1,1-dichloroethane.

5 Dependent on the number of sample detections per compound.

for future commercial/industrial scenarios (0.0005; DTSC, 2011) was applied to inform remedial decisions based on a multiple lines of evidence approach.

To evaluate commercial/industrial exposures to soil and soil vapor, the DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note Number 3 Screening Levels (DTSC HHRA Note 3; DTSC, 2022a) and the United States Environmental Protection Agency (USEPA) Regional Screening Levels (RSLs; USEPA, 2023) for non-carcinogenic and carcinogenic effects were utilized. For construction worker exposures to soil, Roux calculated screening levels based on the applicable toxicity values as described below and DTSC exposure factors (DTSC HHRA Note 1; DTSC, 2019b). For commercial/industrial soil exposures to total petroleum hydrocarbons (TPH), Roux utilized the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) direct-exposure health-risk-based Environmental Screening Levels (ESLs) for non-carcinogenic and carcinogenic effects (SFBRWQCB, 2019).

Toxicity values for DTSC HHRA Note 3, USEPA RSLs and SFBRWQCB ESLs were obtained from DTSC Note 10 (DTSC, 2019a), USEPA RSLs (USEPA, 2023), and SFBRWQCB ESL tables (SFBRWQCB, 2019), respectively. The risk characterization process integrates the results of the data evaluation, exposure assessment, and toxicity assessment to provide a quantitative estimation of cumulative non-carcinogenic and carcinogenic risks.

The risks for a potential construction worker and outdoor commercial/industrial worker exposure to soil, and an indoor commercial/industrial exposure to indoor air at the Site are summarized in the table below.

Cumulative Cancer and Non-Cancer Risks

Receptor	Estimated Cancer Risk	Exceed Risk Threshold[6] of 1E-06 to 1E-04?	Estimated Non-Cancer Risk	Exceed Risk Threshold of 1?
Construction Worker	2E-04	Yes	4E+02	Yes
Future Outdoor Commercial/Industrial (0-2')	1E-03	Yes	9E+01	Yes
Future Outdoor Commercial/Industrial (0-10')	1E-03	Yes	9E+01	Yes
Future Indoor Commercial/Industrial (EU1) - 0.0005 AF	1E-07	No	4E-03	No
Future Indoor Commercial/Industrial (EU2) - 0.0005 AF	1E-06	No	4E-02	No
Future Indoor Commercial/ Industrial (EU1) – AF 0.003	7E-07	No	2E-02	No
Future Indoor Commercial/ Industrial (EU2) – AF 0.003	9E-06	Risk Management Range	3E-01	No

6 The risk threshold range presented corresponds with the acceptable risk range of 10-6 to 10-4 as discussed in the National Contingency Plan (NCP), 40 CFR 300.430 (USEPA, 1968).

Receptor	Estimated Cancer Risk	Exceed Risk Threshold[6] of 1E-06 to 1E-04?	Estimated Non-Cancer Risk	Exceed Risk Threshold of 1?
Future Indoor Commercial/Industrial (EU1) - 0.03 AF	7E-06	Risk Management Range	2E-01	No
Future Indoor Commercial/Industrial (EU2) - 0.03 AF	9E-05	Risk Management Range	3E+00	Yes[7]

A target analysis was conducted for the future indoor commercial/industrial worker in EU2 utilizing an AF of 0.03. This analysis identified that no individual target organ exceeds a threshold of 1 as shown in **Table 4b** and in the table below.

Media	Future Indoor Commercial/Industrial Worker Exposure to Indoor Air (AF 0.03)	
	Hazard Index (HI)	Exceed 1?
Blood	4E-02	No
Cardiovascular	8E-02	No
Developmental	2E-03	No
Hepatic	2E-01	No
Immune System	7E-01	No
Nasal	1E+00	No
Neurological/Nervous System	4E-01	No
Renal	4E-02	No
Respiratory	1E-01	No
Whole Body	3E-03	No

An evaluation of the data set for hot spots (co-location of high concentrations; [DTSC, 2022b]) and outliers (individual samples with elevated concentrations [DTSC, 2022b]) was performed. As a result of this evaluation one thallium outlier was identified at sample F3-1 (Figure 15 of the RFI Report depicts soil concentrations in the area of sample F3-1) and one Aroclor 1254 outlier was identified at sample Unit-22-LT-30A (**Figure 3** depicts total PCB soil concentrations in the area of sample Unit-22-LT-30A). No hot spots were identified.

Exceedances of the construction worker scenario cancer risk and future outdoor commercial/industrial worker cancer and non-cancer risks are driven by the PCB outlier (Aroclor 1254 in sample Unit-22-LT-30A) identified above. Excavation and off-Site disposal of the PCB outlier is planned as described in a Self-Implementing PCB Cleanup and Disposal Notification Plan (SICP) submitted to and conditionally approved by USEPA (Roux, 2022). A post excavation scenario was therefore evaluated assuming the removal of the Aroclor 1254 outlier (sample Unit-2-LT-30A).

[7] The cumulative non-cancer hazard exceeds 1. However, a target organ analysis identified that no individual target organ exceeds a threshold of 1.

The risks for a potential construction worker and outdoor commercial/industrial worker exposure to soil in a post-excavation scenario are summarized in the table below.

"Virtual"/Post-Excavation Cumulative Cancer and Non-Cancer Risks

Receptor	Estimated Cancer Risk	Exceed Risk Threshold of 1E-06 to 1E-04?	Estimated Non-Cancer Risk	Exceed Risk Threshold of 1?
Construction Worker (maximum thallium concentration)	4E-07	No	5E+00	Yes
Construction Worker (95% UCL thallium concentration)	4E-07	No	2E+00	Yes[8]
Future Outdoor Commercial/Industrial (0-2')	3E-06	Risk Management Range	2E+00	Yes[9]
Future Outdoor Commercial/Industrial (0-10')	3E-06	Risk Management Range	1E+00	No

The cumulative cancer risk estimates for a current and future construction worker do not exceed the cancer threshold of 1E-06 in the post excavation scenario. The cumulative cancer risk estimates for a future outdoor commercial/industrial worker are within the risk management range of 1E-06 to 1E-04. The non-cancer hazard estimate does not exceed the non-cancer hazard target threshold of 1 for the future outdoor commercial/industrial worker for the 0-10' scenario or for a target organ analysis, as shown in **Table 8c** and in the table below, for the 0-2' scenario for a future outdoor commercial/industrial worker.

Media	Future Commercial/Industrial Worker Exposure to Soil (0-2')	
	Hazard Index (HI)	Exceed 1?
Blood	4E-04	No
Body Weight	2E-03	No
Dermal	8E-03	No
Developmental	9E-04	No
Gastrointestinal System	2E-03	No
Hepatic	3E-06	No
Neurological/Nervous System	8E-03	No
Renal	5E-03	No
Respiratory	1E-05	No
Skin	1E+00	No
Thyroid	2E-02	No
Whole Body	2E-01	No

The non-cancer hazard estimate also exceeds for the construction worker scenario. This hazard threshold exceedance is driven by the thallium outlier which was used as the EPC for the risk evaluation.

8 The cumulative non-cancer hazard exceeds 1. However, a target organ analysis identified that no individual target organ exceeds a threshold of 1.

9 The cumulative non-cancer hazard exceeds 1. However, a target organ analysis identified that no individual target organ exceeds a threshold of 1.

In a dataset that does not include the maximum thallium detection and uses the 95% UCL for thallium (2.6 milligrams per kilogram [mg/kg]; **Attachment 2**) for the construction worker scenario the calculations yield an estimated cumulative HI that exceeds 1. A target analysis was conducted and identified that no individual target organ exceeds a threshold of 1 as shown in **Table 8f** and in the table below.

Media	Future Construction Worker Exposure to Soil[10]	
	Hazard Index (HI)	Exceed 1?
Blood	9E-04	No
Body Weight	2E-01	No
Dermal	1E-01	No
Developmental	2E-02	No
Gastrointestinal System	2E-02	No
Hepatic	1E-05	No
Neurological/Nervous System	9E-02	No
Renal	3E-02	No
Respiratory	6E-05	No
Skin	8E-01	No
Thyroid	3E-01	No
Whole Body	3E-01	No

All arsenic detections at the Site are less than the Southern California Ambient Arsenic Screening Level of 12 mg/kg established for Southern California (DTSC, 2020b). The 95% UCL of the mean concentration is 2.02 mg/kg which is less than the 95% UCL of the mean for Southern California (3.1 mg/kg). Therefore, arsenic at the Site is consistent with naturally occurring arsenic in soil.

The DTSC Lead Risk Assessment Spreadsheet output, assuming the 95% UCL of the mean concentration (including the maximum at the Site, which is less than the 80 mg/kg cutoff) results in lead exposure at the Site associated with a change in blood levels of 0.02 µg/dL for the 90th percentile fetus of an adult worker. Therefore, levels of lead at the Site do not pose unacceptable risk to the fetus of an adult worker.

Risk for the Site, as described in this HHSE, is driven by a PCB outlier in materials that are expected to be removed from the Site and an outlier of thallium which is not representative of conditions across the Site. No other compounds drive the cumulative risk and hazard estimates above acceptable thresholds for a commercial/industrial site.

10 In a dataset that does not include the thallium outlier and uses the 95% UCL for thallium.

1. Introduction

Roux Associates, Inc. (Roux), on behalf of BTC III Etiwanda Commerce Center LP (Client, Owner), has prepared this *Human Health Screening Evaluation* (HHSE) for the Former Etiwanda Generating Station located at 8996 Etiwanda Avenue, Rancho Cucamonga, California (the Site; **Figure 1**). The Site was formerly owned by Southern California Edison (SCE) who received a Stipulated Judgment from the California Department of Toxic Substances Control (DTSC) in 1995. Since that time, the Site has been the subject of a Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) under the oversight of the DTSC. Client became Owner in December 2020, and is in the process of redeveloping the Site for commercial/industrial purposes. This HHSE incorporates results of soil and soil vapor investigations conducted as part of RFI activities, as well as other Site investigations that took place between 2019 and 2022.[11]

The objective of the HHSE is to provide a conservative evaluation of the potential risk from exposure to chemicals detected in the subsurface at the Site for known current and future planned uses. As such, the HHSE has been prepared to evaluate whether residual chemicals of potential concern (COPCs) present in the subsurface at the Site pose an unacceptable level of risk to:

- Current and future construction worker;
- Future indoor commercial/industrial worker; and
- Future outdoor commercial/industrial worker receptors.

The HHSE was prepared pursuant to the DTSC *Preliminary Endangerment Assessment Guidance Manual* (PEA Guidance; DTSC, 2015), and consists of four components:

- **Evaluation of Exposure Pathways:** Exposure to chemicals may occur via dermal contact, ingestion, or inhalation of COPCs present in soil and/or soil vapor at the Site;
- **Evaluation of Exposure to COPCs and Exposure Point Concentrations:** Identification of contaminants found in media at the Site and determination of appropriate exposure point concentrations (EPCs) for COPCs;
- **Evaluation of Chemical Toxicity:** Assessment of potential adverse effects of the COPCs and compilation of non-carcinogenic and carcinogenic toxicity values for use in numerical risk estimates; and
- **Risk Characterization:** Integration of results of the hazard assessment to provide a quantitative estimation of non-carcinogenic and carcinogenic risks.

Default exposure parameters from the DTSC and the United States Environmental Protection Agency (USEPA) were utilized to represent a Reasonable Maximum Exposure (RME) scenario. An RME scenario is the highest exposure that is reasonably expected to occur at a site. The HHSE evaluates current and future exposure to contaminated media at the Site in the absence of any further remedial action. The overall scope, and certain key assumptions underpinning this HHSE, were agreed upon in discussions between Roux, Northgate Environmental Management Inc. (Northgate), SCE, and a DTSC toxicologist.[12]

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11 As discussed in a call with Roux, Northgate, and DTSC toxicologist Dr. CY Jeng of the DTSC on December 29, 2022, a follow up call between Northgate, SCE and Dr. Jeng on January 12, 2023, and a follow up call between Roux and Dr. Jeng on February 28, 2023.

12 These discussions included a December 29, 2022 call with Roux, Northgate and DTSC toxicologist Dr. CY Jeng of DTSC, January 11, 2023 email correspondence, a follow up call between Northgate, SCE and Dr. Jeng on January 12, 2023, and a follow up call between Roux and Dr. Jeng on February 28, 2023.

2. Background

The Site consists of approximately 60 acres of land bordered by Burlington Northern Santa Fe Railroad (BNSF) tracks to the north, Etiwanda Avenue to the east, an SCE owned switchyard to the southeast, and an Inland Empire Utility Agency parcel (IEUA) to the southwest. The Site and surrounding area were used for agricultural purposes from at least 1938 to approximately 1951. Initial construction at the Etiwanda Generating Station (EGS) began in 1951 with Units 1 and 2 fully operating as of 1953. SCE operated EGS from 1953 to 1998. In 1998, the Site was sold to Reliant Energy Inc. and ownership transferred in July 2009 when NRG Energy (NRG) purchased Reliant Energy, followed by NRG merging with GenOn in 2012. Several business changes occurred leading to ownership of EGS to be transferred to GenOn in 2018. The Site was sold to Client in December 2020.

The Site operations historically included two open, aboveground, wastewater retention basins (North Basin and South Basin), a boiler chemical cleaning basin (BCCB), four power blocks (Units 1 through 4), cooling towers, a peaker unit, and associated appurtenances. Units 1 and 2 were decommissioned in 2003 and the Unit 5 Peaker reportedly was last used prior to 1998. Units 3 and 4 discontinued operations by June 2018 and since that time, the Site has been inactive. Demolition activities began in 2021 in preparation for commercial/industrial redevelopment of the Site.

Starting in 1996, three soil and two soil vapor investigations were conducted beneath the retention basins. The results of the investigations showed metal concentrations, pH values, and presence of volatile organic carbons (VOCs) in the soil, suggesting that leakage had occurred beneath the retention basins. Following these investigations, groundwater monitoring wells were installed at the Site to measure groundwater gradients and collect groundwater quality samples both upgradient and downgradient of the retention basins. No contaminants of potential concern (COPCs) were detected in groundwater samples collected at the retention basin site. The Final Closure Demonstration Report from 2011 identified 15 COPCs in the soil beneath the basin retention site. Seven of the COPCs were metals (antimony, arsenic, mercury, molybdenum, nickel, silver, and thallium) and eight of the COPCs were organic constituents (chloroform, chloromethane, styrene, tetrachloroethene [PCE], toluene, vinyl chloride, butyl benzyl phthalate, and dioxin/furans). COPCs were not identified in the soil vapor or groundwater. Based upon the results of the human health and ecological risk assessments in the Final Closure Demonstration Report (Jamison, 2011), the EGS retention basin site met the closure standards for unrestricted land use. On December 29, 2011, DTSC approved the Final Closure Demonstration Report.

2.1 Recent Investigation Activities (2019-2022)

Several recent Site investigations were conducted between 2019 and 2022, and are summarized below as follows:

- 2019 investigation conducted by Ardent Environmental Group, Inc. (Ardent; **Section 2.1.1**);
- 2020 interim data gap investigation by Northgate (**Section 2.1.2**);
- 2020 subsurface Site investigation by Path Forward Partners, Inc. (Path Forward; **Section 2.1.3**);
- 2021-2022 RCRA facility investigation (RFI) by Northgate (**Section 2.1.4**); and
- 2022-2023 Former Generating Units 1 and 2 polychlorinated biphenyl (PCB) Investigation by Roux (**Section 2.1.5**).

The investigations conducted by Ardent, Northgate, and Path Forward are described in greater detail in the Data Gap Analysis Report (Northgate, 2021b), and additional RFI investigation activities (including details about each Area of Interest [AOI] investigated) are detailed in the RCRA Facility Investigation Report (RFI Report; Northgate, 2023). The investigation conducted by Roux is described in a Self-Implementing PCB Cleanup and Disposal Notification Plan (SICP) submitted to USEPA (Roux, 2022). Sample locations from all the below-listed investigations are shown on **Figure 2**.

2.1.1 2019 Bridge Development Site Investigation (Ardent)

Ardent conducted a Site investigation (overseen by ERM-West, Inc. [ERM]) in October 2019 as part of due diligence activities for a prospective purchaser. During this investigation, soil samples were collected at depths between 0.5 and 7 feet below ground surface (bgs) and analyzed for metals (including hexavalent chromium), total petroleum hydrocarbons (TPH), PCBs, organochlorine pesticides (OCPs), and VOCs. Sub-slab soil vapor samples and soil vapor samples at 5 feet bgs were collected and analyzed for VOCs. Soil and soil vapor results were less than the commercial screening levels (SLs) at Cooling Towers 1, 2, and 4 (AOIs 10 and 12; AOIs are shown on RFI Report Figure 5), the railroad spur, the tributary, the existing and former hazardous waste storage areas (AOIs 14 and 36), the sludge drainage area (AOI 33), the landfill II (northern fill, AOI 34), and the flumes (AOI 38). Sample results that were greater than the SLs were detected by Cooling Tower 3 (AOI 19), Chadwick Channel (AOI 11), landfill I (AOI 22), the maintenance shop, and septic system. Shallow arsenic contamination was detected and delineated at two locations by Cooling Tower 3. Shallow TPH (diesel) contamination was detected and delineated at the Chadwick Channel. Lead and arsenic were detected in the soil in two areas at landfill I. At the maintenance shop and septic system, 12 soil vapor probes were installed at 5 feet bgs. VOCs (PCE, bromodichloromethane [BDCM], chloroform, 1,1-dichlorothane [1,1-DCA], and vinyl chloride) were detected at concentrations greater than the commercial calculated soil vapor SLs. Soil removal was subsequently conducted at landfill I (AOI 22), as described below. A formal report summarizing the 2019 investigation was not prepared by Ardent. Data from the 2019 Ardent investigation are summarized in the RFI Work Plan prepared by Northgate (Northgate, 2021c).

2.1.2 2020 Interim Data Gap Investigation (Northgate)

On behalf of SCE, Northgate conducted data gap soil sampling in October and November 2020 at the Unit 4 Cooling Tower and Transformer (AOI 12), the former auxiliary transformer locations (AOI 23), the Sulfuric Acid Tanks (AOI 24), and the Hypochlorite Tank (AOI 35; Northgate, 2021a). A total of 21 hand auger borings were advanced during the data gap soil sampling. Soil samples were analyzed for TPH, PCBs, and/or pH. TPH and PCBs concentrations in soil were less than the commercial/industrial and residential SLs and the pH of the soil ranged from 5.69 to 10.1 standard units. Per DTSC's comments to the Draft RFI Workplan (DTSC, 2021), additional sampling was recommended at AOIs 24 and 35.

2.1.3 2020 Limited Subsurface Site Investigation (Path Forward)

On behalf of Client, Path Forward conducted a Limited Subsurface Site Investigation in 2020 (Path Forward, 2020). Soil and soil gas samples were taken from target areas of staining, the oil/solvent storage area, the hazardous waste accumulation area, and the lubricant oil aboveground storage tanks (ASTs). A total of 11 borings were advanced to 4 feet bgs, and 22 soil samples were collected. Samples were analyzed for TPH, VOCs, semivolatile organic compounds (SVOCs)/polycyclic aromatic hydrocarbons (PAHs), PCBs, metals, and pH. All soil results were less than the SLs for commercial land use. Six soil gas probes were installed in the area of Former Generating Units 1 and 2 and 3 and 4 (AOIs 15 and 13, respectively), and Peaker Unit 5 (AOI 6) to 5 feet bgs and soil vapor samples were collected and analyzed for VOCs. Soil vapor results were less than the SLs using a conservative attenuation factor (AF) of 0.03, except for PCE, which was detected in one sample by the Peaker Unit 5. Path Forward concluded that significant releases had not

occurred beneath the power blocks or peaker units based on the low concentrations detected during the investigation.

2.1.4 2021-2022 RCRA Facility Investigation (Northgate)

On behalf of SCE, Northgate conducted an RFI under the oversight of DTSC with investigations between August 6, 2021 and December 19, 2022. Investigations included the collection and analysis of soil and soil vapor samples across multiple AOIs, and one grab groundwater sample in AOI 35 to determine the nature and extent of potential impacts. Data from the RFI was used by Northgate to evaluate the need for potential remedial actions. A summary of the investigations and results is included in a RCRA Facility Investigation Report prepared by Northgate (Northgate, 2023).

2.1.5 2021-2022 Former Generating Units 1 and 2 PCB Investigation (Roux)

In November 2021, as part of demolition preparation activities, Roux collected composite samples of concrete at locations where PCBs were suspected to have been present in equipment related to historical operations at the Site. Concrete in certain locations near Former Generating Units 1 and 2 transformers contained PCBs at concentrations greater than or equal to 50 milligrams per kilogram (mg/kg). As a result, Roux and Client began coordination with the USEPA. Additional composite samples were collected in January and February 2022 to further characterize the extent of PCBs in this area and to support preparation of a Self-Implementing PCB Cleanup and Disposal Notification Plan (SICP). Additional characterization sampling of concrete, asphalt, and soil was conducted between June and November 2022. Client is continuing to work with both DTSC and USEPA to characterize and remediate PCB impacts at Former Generating Units 1 and 2 in accordance with the Toxic Substances Control Act (TSCA).

2.2 Recent Remedial Activities (2019-2022)

Several recent soil removal activities were conducted between 2019 and 2022 to address impacts to soil identified during the above-listed investigations. Those soil removal activities are summarized below:

- 2020 arsenic- and lead-impacted soil removal at Construction and Operations Waste Area by ERM (**Section 2.2.1**);
- 2021 transformer spill and soil removal by ERM (**Section 2.2.2**); and
- 2021/2022 arsenic-impacted soil removal at Former Cooling Towers 1 and 2 by Northgate (**Section 2.2.3**);
- 2021 arsenic-impacted soil removal at Former Cooling Tower 3 by Roux (**Section 2.2.4**);
- Soil removal at Former Generating Units 1 through 5 by Roux (**Section 2.2.5**).

2.2.1 Soil Removal at Construction and Operations Waste Area (2020)

Excavation of arsenic and lead-impacted soil from the construction and waste operations area (AOI 22) occurred between May and June 2020. ERM characterized the excavated soil by field screening using portable x-ray fluorescence (XRF) analyzer and performing confirmation soil sampling after excavation. A total of 87 confirmation soil samples (43 floor samples and 44 sidewall samples) were collected and approximately 6,445 tons of soil were excavated and disposed of off Site (ERM, 2020). Confirmation sample results were compared to USEPA commercial/industrial Regional Screening Levels (RSLs) and DTSC commercial/industrial SLs. All final confirmation sample results were less than the USEPA RSLs and DTSC SLs for commercial/industrial use.

2.2.2 Transformer Spill and Soil Removal Summary (2021)

On July 22, 2021, during demolition and decommissioning activities at the Site conducted on behalf of Client, a Link Belt 750 Excavator inadvertently removed the western transformer from the former Cooling Tower 4 pad, resulting in approximately 40 gallons of transformer mineral oil being released to an unpaved surface. When the operator identified that the transformer was leaking fluid, the transformer was immediately placed on the ground to limit the lateral extent of the spill. The transformer was later placed on plastic sheeting and the remaining contents were relocated into a 55-gallon drum.

To remove all oil-impacted soil on the eastern and northern sides of the transformer/substation pad, ERM (on behalf of Client) oversaw soil excavation activities on July 22 and 23, 2021. Four soil confirmation samples were collected at the bottom of the "L"-shaped excavation and analyzed for PCBs. PCBs were not detected above the laboratory reporting limit of 0.050 mg/kg. Stockpiled soil was sampled and analyzed for waste characterization purposes. On August 19, 2021, approximately 147 tons of non-hazardous, TPH-impacted soil from the transformer spill was transported to Waste Management, Inc. in Antelope Valley, California. The *Transformer Spill and Soil Removal Summary* document prepared by ERM concluded that no additional actions were warranted in relation to the spill (ERM, 2021b).

2.2.3 Soil Removal at Former Cooling Towers 1 and 2 (2021/2022)

Between 2005 and 2021, the following Site investigations to evaluate arsenic impacts to soil were conducted around the former Cooling Towers 1 and 2. These investigations are described in detail in the Revised Soil Removal Completion Report at former Cooling Towers for Units 1 and 2 (Northgate, 2022).

- URS (2005): Advanced 23 borings (B-1 through B-23) to 12 inches bgs;
- Earth Tech (2005): Advanced 16 borings (2W-1 through 2W-4, 2E-5 through 2E-8, 1W-9 through 1W-12, and 1E-13 through 1E-16) to 4 inches bgs;
- Ardent/ERM (2019): Advanced 11 borings (CT1/2-1 through CT1/2-11 to 6 inches bgs); and
- Roux (2021): Advanced 14 borings (SS-1 to SS-14) up to depths of 12 inches bgs.

Based on the arsenic analytical results from the above investigations, soil along the west, north, and east sides of Cooling Towers 1 and 2, and the south side of the flume was proposed for excavation. The proposed excavation areas were determined using pre-excavation confirmation sample results. In 2021, Northgate oversaw the excavation of four main excavations (Excavations 1 through 4) and six smaller excavations (Excavations 1C, 3B, 4A, 4B, and 4C) as shown on Figure 3 of the Revised Soil Removal Completion Report at Cooling Towers for Units 1 and 2 (Northgate, 2022). Clean limits for each excavation were determined by either the pre-excavation confirmation samples or confirmation samples collected following the excavations that were below the Southern California Ambient Arsenic Screening Level adopted by DTSC (DTSC, 2020b). The excavation activities removed approximately 289 tons of non-hazardous soil and asphalt which were transported off Site for disposal.

Arsenic soil results from these investigations are shown on Figure 2 of the 2022 Revised Soil Removal Completion Report (Northgate, 2022).

2.2.4 Soil Removal at Former Cooling Tower 3 (2021)

On September 9, 2021, Roux performed step-out sampling to delineate the extent of the arsenic impacts in the vicinity of Former Cooling Tower 3, as identified during the 2019 Ardent investigation (**Section 2.1.1**). Step-out samples were collected from 2 feet bgs in borings located 4 feet to the north, south, east, and west

of the initial sampling locations (CT3-2 and CT36). Samples were also collected from 2 feet bgs at the original sample locations to obtain vertical delineation of arsenic impacts. Arsenic was not detected at concentrations greater than the Southern California Ambient Arsenic Screening Level (DTSC, 2020b) in any of the step-out/confirmation sampling locations.

On October 6, 2021, under Roux's oversight, Silverado Contractors, Inc. excavated the arsenic-impacted soils that were delineated as described above at sample locations CT3-2 and CT3-6. On November 30, 2021, Roux collected step-out soil samples 4 feet to the south of CT3-2 and to the north of CT3-6 at 2 feet bgs. These soil samples were collected from within the former Cooling Tower 3 footprint. Results for both samples were below the laboratory reporting limit. Approximately 5 cubic yards of soil were excavated and transported under non-hazardous manifest for disposal at Simi Valley Landfill.

2.2.5 Soil Removal at Former Generating Units 1 through 5

In August and September 2021, Northgate collected soil samples in the vicinity of Former Generating Units 3, 4, and 5 transformers (AOIs 6 and 25) as part of the RFI (**Section 2.1.4**). Results for these samples were provided to Roux to facilitate Site demolition efforts.

Subsequently, in November 2021, Roux collected composite concrete samples of the former transformer pads at Former Generating Units 3, 4, and 5 to further support materials handling and waste characterization procedures associated with Site demolition.

Taken together, samples collected by Northgate and Roux identified discrete areas of soil and concrete with PCB and/or TPH impacts exceeding the DTSC commercial/industrial SLs. Impacted areas at Former Generating Units 3 and 4 were delineated horizontally and vertically by data collected by Northgate. The impacted area at Former Generating Unit 5 was delineated to the east and west by data collected by Northgate. In March and April 2022, Roux collected additional soil characterization samples to the north and south of the Former Generating Unit 5 transformer pad to complete delineation in this area.

In August 2022, Roux oversaw the excavation and off-Site removal of three small areas of concrete and soil in the vicinity of the Former Generating Units 3, 4, and 5 transformers. Concrete and soil were excavated to a depth of approximately 2.5 feet bgs. Following the completion of each excavation, discrete confirmation soil samples were collected from each of the sidewalls (north, east, south, and west) and the bottom of the excavation in accordance with the Soil Management Plan (SMP). Confirmation sample results were less than San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) commercial/industrial environmental screening levels (ESLs) for TPH and DTSC commercial/industrial SLs for total PCBs. Concrete from the excavation areas did not contain any detectible PCBs and was transported for disposal at Antelope Valley Landfill. Excavated soil did contain PCBs and was transported for disposal at Kettleman Hills.

Client is continuing to work with both DTSC and USEPA to characterize and remediate PCB impacts at Former Generating Units 1 and 2 in accordance with the Toxic Substances Control Act (TSCA; see Section 2.1.5). Following additional characterization, Client will propose remedial action to manage PCB-impacted soil and concrete to both DTSC and USEPA for approval. Soil removal has not been conducted to date at Former Generating Units 1 and 2.

3. Exposure Pathways and Media of Concern

Exposure pathways describe the course a chemical or physical agent takes from the source to the receptor (USEPA, 1989). Four components must be present for an exposure pathway to be complete:

- A primary source and mechanism of chemical release;
- A secondary source or transport medium (or media);
- A point of potential human contact with the contaminated medium (i.e., an exposure point); and
- An exposure route (e.g., ingestion, dermal contact, or inhalation).

The property was previously used as an energy generation facility. It is currently vacant and aboveground structures have been demolished. The expected future use of the property will consist of industrial/commercial buildings. Current and future construction worker, future outdoor commercial/industrial worker, and future indoor commercial/industrial worker scenarios were evaluated in the HHSE. A land use covenant (LUC) is planned as a part of the Site remedy to restrict the property use to commercial/industrial, although one is not currently recorded. Accordingly, on-Site residential use was not evaluated in this HHSE.[13] If residential land use is planned at the Site in the future, this HHSE should be revised. As discussed below, points of potential future human contact are limited to soil and indoor air, while current human contact is limited to soil.

3.1 Soil Pathway

The current use and expected future use of the property consist of industrial/commercial space. Redevelopment is ongoing for the Site and will include soil disturbing activities. Soil exposure is considered a complete exposure pathway for current and future use. Therefore, soil exposure is quantitatively evaluated in this HHSE.

3.2 Groundwater/Surface Water Pathway

According to the Data Gap Analysis Report (Northgate, 2021b), groundwater is first encountered at approximately 430 feet bgs, and no surface water has been observed on Site. Groundwater at the Site is deeper than the maximum anticipated excavation depth (10 feet bgs) for a construction worker scenario. Additionally, municipal drinking water is supplied by the Metropolitan Water District, and there are no wells on Site. Dermal contact with and ingestion of groundwater are not considered current complete exposure pathways. Therefore, tap water use is not quantitatively evaluated in the HHSE. The Site will remain commercial/industrial and this HHSE evaluates only planned uses at the Site. If residential use is anticipated at the Site, this HHSE should be revised.

3.3 Indoor Air Pathway

VOCs have been detected at the Site in soil vapor samples. Buildings on the property have been demolished resulting in no current potential vapor intrusion exposure pathway. Future buildings are planned for the Site and vapor intrusion into indoor air is considered a potentially complete exposure pathway for future commercial/industrial use and is quantitatively evaluated in this HHSE.

[13] As discussed in a December 29, 2022 call with DTSC Toxicologist Dr. CY Jeng.

3.4 Exposure Pathway Analysis

The current use and future intended use of the property is for commercial/industrial space. Therefore, the conceptual site model (CSM) presented below illustrates potentially complete exposure pathways at the Site:

Primary Source	Secondary Source	Exposure Media	Exposure Route	Receptor
Potential Historical on-Site Releases	Impacted on-Site Soil	Soil	Ingestion, dermal contact, or inhalation of particles	• Future outdoor commercial/industrial worker • Current and future construction worker
	Impacted on-Site Vadose Zone Soil Vapor	Indoor Air	Inhalation	• Future indoor commercial/industrial worker

As described in **Section 3.2**, given the depth to groundwater, and that it is not used as drinking water, direct exposure to groundwater was not considered a complete exposure pathway at the Site.

4. Exposure Concentrations and Chemicals

Soil and soil vapor sampling data utilized in the HHSE included samples collected by Northgate, ERM, Ardent, Path Forward, and Roux from 2019 through 2022.[14] A summary of soil and soil vapor data utilized in the screening evaluation is provided in **Attachment 1**. The final data set excluded any composite soil samples or excavated soil sample locations.

EPCs from each media were developed consistent with DTSC guidance and discussions with a DTSC toxicologist[15] as described below.

Soil

Soil was collected from surface level to 200 feet bgs during soil sampling events. All discrete soil samples collected up to 10 feet bgs[16] were evaluated in the HHSE, and all detected compounds were initially included as COPCs other than TPH – Jet Fuel. TPH-Jet Fuel includes total petroleum hydrocarbons in the Jet A range as presented by Path Forward (Path Forward, 2020) and there is overlap between the carbon range for Jet A and the other presented petroleum fractions (gasoline and diesel). The COPCs in soil include the analytes listed in the following table.

Soil COPCs		
1,1-Dichloroethane	Beryllium	Naphthalene
1-Methylnaphthalene	Butyl benzyl phthalate	Nickel
2-Butanone	Cadmium	Petroleum – Gasoline[17]
2-Hexanone	Carbon disulfide	Petroleum – Diesel[18]
2-Methylnaphthalene	Chromium	Petroleum – Motor Oil[19]
4-Methyl-2-pentanone	Chrysene	Phenanthrene
Acenaphthene	Cobalt	p-Isopropyltoluene
Acenaphthylene	Copper	PCBs[20]
Acetone	Dibenz(a,h)anthracene	Pyrene
Antimony	Ethanol	Selenium
Arsenic	Ethylbenzene	Silver
Barium	Fluoranthene	tert-Butyl alcohol (TBA)
Benzene	Fluorene	Thallium
Benzo(a)anthracene	Indeno(1,2,3-cd)pyrene	Toluene
Benzo(a)pyrene	Lead	Vanadium
Benzo(b)fluoranthene	Mercury	Xylene (Mixed Isomers) [21]
Benzo(g,h,i)perylene	Molybdenum	Zinc
Benzo(k)fluoranthene		

As discussed with a DTSC toxicologist,[22] for COPCs that were detected in 10 or more soil samples, a 95% upper confidence limit (95% UCL) of soil samples from across the Site was calculated, as seen in

14 Data included in the 2011 Closure Report for the retention basins were not included. Further explanation is provided in the uncertainties section of this report.

15 December 29, 2022, call with DTSC toxicologist Dr. CY Jeng, and a follow up call between Roux and Dr. Jeng on February 28, 2023.

16 A depth of 10 feet bgs is protective of a current commercial/industrial worker exposure as well as a construction worker who would excavate at depth. This depth was chosen in accordance with standard DTSC guidance and discussed in the December 29, 2022 call with Dr. CY Jeng of DTSC.

17 Includes carbon ranges C4 - C10 presented by Ardent, TPH-g presented by Path Forward and TPH Gasoline C4-C12 presented by Northgate.

18 Includes carbon ranges C10 - C28 presented by Ardent, TPH-d presented by Path Forward, TPH Diesel C13-C22 presented by Northgate and Diesel Range Organics [C10-C28] presented by Roux.

19 Includes carbon ranges C23 - C35 presented by Ardent, TPH-mo presented by Path Forward and TPH Motor Oil C23-C32 presented by Northgate.

20 The labs reported all PCB Aroclors separately. Each Aroclor is evaluated separately for the outdoor commercial/industrial worker and construction worker scenarios.

21 The labs reported m,p-xylene and o-xylene separately. These isomers were combined for the purposes of this risk screening.

22 December 29, 2022 and February 28, 2023 call with DTSC toxicologist Dr. CY Jeng.

Attachment 2. The minimum of the 95% UCL and the maximum detected concentration across the Site was selected as the EPC for all soil exposure scenarios. For COPCs that were detected in fewer than 10 soil samples, the maximum detected concentration across the Site was selected as the EPC for all soil exposure scenarios. An evaluation of the data set for hot spots (co-location of high concentrations; [DTSC, 2022b]) and outliers (individual samples with elevated concentrations [DTSC, 2022b]) was performed. As a result of this evaluation a thallium outlier was identified at sample F3-1 and an Aroclor 1254 outlier was identified with a maximum concentration at sample Unit-22-LT-30A as shown in the Q-Q plots in **Attachment 3**. No hot spots were identified. Figure 15 of the RFI depicts soil concentrations of thallium in the area of sample F3-1 and **Figure 3** of this HHSE depicts soil concentrations of total PCBs in the area of sample Unit-22-LT-30A[23]. Thus, the maximum concentrations, representative of the outliers, were utilized as the EPCs for thallium and Aroclor 1254 instead of the 95% UCL. The EPC selection as described above assumes future soil disturbing activities at the Site related to redevelopment could relocate impacted soil at depth to shallower intervals which would make the soils potentially accessible to future receptors and is protective of a current as well as future receptor.

The outdoor commercial/industrial worker scenario is evaluated against soils across the whole Site for soils from 0 to 2 feet bgs (assuming little to no re-grading of soils during redevelopment activities) and 0 to 10 feet bgs (assuming full re-grading of soils during redevelopment activities). Soil exposure, for a construction worker, is evaluated across the whole Site for soils 0 to 10 feet bgs. The summary statistics and EPCs for the 0 to 2 feet bgs exposure are shown in **Table 1a** and for the 0 to 10 feet bgs exposure are shown in **Table 1b**.

Soil Vapor

Soil vapor samples were collected at depths from sub-slab to 400 feet bgs during soil vapor sampling events. All compounds detected in soil vapor up to 20 feet bgs[24] were evaluated as COPCs with the exception of tracer gases[25]. The COPCs in soil vapor include the analytes listed in the following table.

Soil Vapor COPCs		
1,1,1-Trichloroethane	Bromoform	n-Propylbenzene
1,1,2-Trichloroethane	Carbon tetrachloride	Styrene
1,1-Dichloroethane	Chlorobenzene	tert-Butyl alcohol
1,1-Dichloroethene	Chloroform	PCE
1,2,4-Trimethylbenzene	cis-1,2-Dichloroethene	Toluene
1,2-Dichloroethane	Dibromochloromethane	Trichloroethene
1,3,5-Trimethylbenzene	Dichlorodifluoromethane	Trichlorofluoromethane
4-Isopropyltoluene	Ethylbenzene	Trichlorotrifluoroethane, 1,1,2-, 1,2,2-
Benzene	Isopropylbenzene	Vinyl chloride
Bromodichloromethane	Naphthalene	Xylene (Mixed Isomers) [26]

The Site was divided into three exposure units (EUs) for indoor commercial/industrial worker exposure based on the currently proposed redevelopment plans as shown on **Figure 4** and discussions with a

[23] While the concentrations shown on **Figure 3** are for total PCBs, Aroclor-1254 was the only Aroclor detected in sample Unit-22--LT-30A.

[24] Per the Draft VI Guidance (DTSC, 2020a), when soil or groundwater contamination for vapor intrusion are greater than 20' bgs then samples as close as 15 feet below the foundation are representative of concentrations immediately below a building. Proposed buildings at this site are anticipated to be constructed slab-on-grade, groundwater at the site is 400 + feet bgs, soil contaminated with VOCs within 20 feet of the surface was limited and there are no known preferential pathways or deeper geotechnical anomalies. For the Site, 20 feet bgs was selected as a conservative measure due to a more robust data set at this depth.

[25] n-Heptane, n-hexane and n-pentane have no known site source and were used as tracer gases.

[26] The labs reported m,p-xylene and o-xylene separately. These isomers were combined for the purposes of this risk screening.

DTSC toxicologist.[27] Specifically, the Site is currently expected to be redeveloped with four separate buildings of varying sizes. Based on the location of proposed buildings and areas of known soil vapor impacts, the following indoor air exposure units were assigned as described below and shown in **Attachment 4** and on **Figure 5**:

Indoor Air Exposure Unit	Area of Property	Rationale
EU1	Building Area 2 and Building Area 5	Building areas are adjacent and soil vapor impacts in this area are minimal
EU2	Building Area 1	Soil vapor impacts in this area exceed applicable SLs
EU3	Building Area 3	The RFI did not reveal a need to sample for VOCs within this area of the Site

For EU1, the maximum detected concentration for each COPC in samples collected up to 20 feet bgs was selected as the soil vapor input for the future indoor commercial/industrial worker scenario. Summaries and EPCs for soil vapor in EU1 are found in **Table 1c**.

For EU2, the maximum detected concentration for each COPC in samples collected up to 20 feet bgs and within 50 feet of the proposed building was selected as the soil vapor input, with the exception of chloroform, carbon tetrachloride, PCE, and 1,1-DCA. The 95% UCL was used for soil vapor input for the four main COPCs (chloroform, carbon tetrachloride, PCE and 1,1-DCA) from the discrete areas within EU2 where VOCs were detected at the highest concentrations[28]. The areas with the highest concentrations for the COPCs are in the same general area but are distinct from each other as shown on **Figures 6a through 6d**. These core areas of higher concentrations were identified based on the following:

- Chloroform: Locations within the 200 µg/m^3 isocontour at 20 feet bgs on Figure 11B of the RFI;
- Carbon Tetrachloride: Locations within the 25 µg/m^3 isocontour at 20 feet bgs on Figure 11C of the RFI;
- PCE: Locations within the 67 µg/m^3 isocontour at 5 feet bgs on Figure 11D of the RFI[29]; and
- 1,1-DCA: Locations within an area where all samples at 20 feet bgs are greater than 400 µg/m^3; sample locations in this area with concentrations are shown on Figure 11E of the RFI[29].

The 95% UCL for each of the four main COPCs was calculated utilizing all data from 10 and 20 feet bgs within the discrete areas identified on **Figures 6a through 6d**[30]. The Ardent 5-foot samples were not included in favor of more recent data which better represents current conditions. The highest detected soil gas concentrations[31] were consistently found in the 10- and 20-foot intervals and no significant differences were found between concentrations at these intervals. The resulting 95% UCL is a conservative estimate of the average concentration of this area. These values were used as the soil

27 December 29, 2022 call with DTSC toxicologist Dr. CY Jeng.

28 Based on USEPA (2004) guidance for determining groundwater EPCs.

29 The RFI Report only includes a 5-foot isocontour for PCE and 1,1-DCA in soil vapor.

30 Sample depths were chosen to be from the depths with the greatest detected soil gas concentrations in accordance with 2A.3, for future buildings, and 4A.3 from DTSC's Supplemental VI Guidance Final Draft dated February 2023.

31 Sample depths were chosen to be from the depths with the greatest detected soil gas concentrations in accordance with 2A.3, for future buildings, and 4A.3 from DTSC's Supplemental VI Guidance Final Draft dated February 2023.

vapor inputs for these COPCs. A summary and EPCs for soil vapor in EU2 are found in **Table 1d**. A summary of the data used for the 95% UCL of the four main soil vapor COPCs is found in **Table 1e**.

EPCs for soil vapor in EU3 were not calculated as the RFI did not reveal a need to sample VOCs within this area of the Site. As such, no quantitative risk evaluation was calculated for indoor air in EU3.

Data summaries and EPCs for soil vapor in EU1 and EU2 are found in **Tables 1c and 1d,** respectively.

Indoor Air

Potential indoor air concentrations for EU1 and EU2, representative of a future indoor air EPC, were calculated from soil vapor concentrations described above using methodology described in DTSC's PEA Guidance (DTSC, 2015) and DTSC's Vapor Intrusion Guidance (DTSC, 2011):

$$C_{indoor} = \alpha \times C_{soil\ vapor}$$

Where:

C_{indoor}= Indoor air concentration in micrograms per meter cubed ($\mu g/m^3$)
α= Attenuation factor (AF)
$C_{soil\ vapor}$=Soil vapor air concentration in $\mu g/m^3$

Multiple AFs are presented in this HHSE, including an AF of 0.03 for context with RFI screening tables[32] and AFs of 0.003 and 0.0005 for remedial decision making.

The AF of 0.03 is the default soil gas to indoor attenuation factor identified in Table 2 of DTSC's February 2023 Supplemental Guidance: Screening and Evaluating Vapor Intrusion Final Draft (Supplemental VI Guidance; DTSC, 2023), which is based on USEPA's recommended AFs for screening buildings during a vapor intrusion assessment. In the 2012 Vapor Intrusion Database Report (USEPA, 2012), the USEPA calculated AFs for paired sub-slab and indoor air samples with a source strength filter level of 50 times the identified "background". USEPA found the 95th percentile value is approximately 0.03 and the median value is approximately 0.003, both rounded to one significant figure. The majority (approximately 85%) of the samples used in the development of the 0.03 and 0.003 AFs were from residential buildings. The 2015 USEPA Report on Assessing and Mitigating the Vapor Intrusion Pathway from the Subsurface Vapor Sources to Indoor Air (USEPA, 2015), identifies the 0.03 AF as a generic value for "near-source" exterior soil gas samples[33] and sub-slab soil gas samples. The AF of 0.03, along with the alternative AF of 0.003, are presented in this HHSE.

In alignment with the Supplement VI Guidance (DTSC, 2023), the use of an alternative AF to USEPA's AFs is supported by multiple lines of evidence (LOE). The LOE described below support the use of the default AF of 0.0005 for a future commercial/industrial building, presented in DTSC's 2011 Vapor Intrusion Guidance (DTSC, 2011), for the proposed buildings at this Site.

The derivation of DTSC's 2011 AF of 0.0005 (rounded to one significant figure from 0.00045) is found in the Cal/EPA's Office of Environmental Health Hazard Assessment (OEHHA) Report entitled Human-Exposure-Based Screening Numbers Developed to Aid Estimation of Cleanup Costs for Contaminated Soil (OEHHA Report; OEHHA, 2005). The AF was calculated using the Johnson and Ettinger Model (J&E Model). The use of an AF calculated from the J&E Model has some inherent limitations which are outlined in the original

32 December 29, 2022, call with DTSC toxicologist Dr. CY Jeng.

33 Except for sources in the vadose zone (less than 5 feet below foundation) or presence of routes for preferential vapor migration in vadose zone soils.

model and summarized in Appendix A of the OEHHA Report. The majority of the inherent limitations summarized do not apply to the Site, including, but not limited to, those described below:

- "The presence or suspected presence of residual or free-product non-aqueous phase liquids (LNAPL (Light Non-Aqueous Phase Liquid), DNAPL (Dense Non-Aqueous Phase Liquid), fuels, solvents, etc. in the subsurface."
    - No free-product or residual non-aqueous phase liquids, in the form of Light Non-Aqueous Phase Liquid (LNAPL) or Dense Non-Aqueous Phase Liquid (DNAPL) are present or suspected to be present in the subsurface at the Site.
- "The presence of heterogeneous geologic materials between the vapor source and building. The Johnson and Ettinger model does not apply to geologic materials that are fractured, contain macropores or other preferential pathways, or are composed of karst."
    - Geologic materials in the subsurface at the Site, and in particular between the vapor source and the proposed building slab, are not heterogeneous in nature.
- "Sites where significant lateral flow of vapors occurs."
    - Lateral flow of vapors has not been observed at the Site as described in the RFI.
- "Very shallow groundwater where the building foundation is wetted by the groundwater."
    - Groundwater at the Site is more than 400 feet bgs, resulting in the proposed building foundation not being wetted by groundwater.
- "Very small building air exchange rates (e.g., <0.25/h)."
    - Buildings are expected to have commercial heating cooling and ventilation systems (HVAC) and are presumed to meet the common industrial hygiene air exchange rate requirements. Planned commercial/industrial structures will have numerous commercial overhead bay doors which will provide additional air exchange beyond the HVAC system.
- "Buildings with crawlspace structures or other significant openings to the subsurface (e.g., earthen floors, stone buildings, etc.)."
    - Buildings will be built with slab on grade construction (i.e. no crawlspace structures or other significant openings to the subsurface).

Similar to the model scenario assumptions outlined in the OEHHA Report, the proposed construction at the Site is expected to be a single-story slab on grade commercial/industrial building with 8- to 10-inch-thick slabs, more than double the 3.5-inch slabs assumed in the model. The proposed buildings will also have a similar layer of crushed rock or gravel below the slab. Site soils are also mostly permeable allowing for maximum soil vapor permeability.

While not a Site-specific line of evidence, an additional consideration in selecting an appropriate default AF is that data from a recently peer-reviewed published article (Abbasi, R. et al., 2022) yielded a 95th percentile California-specific empirical soil vapor AF of 0.0009 (which is similar to the 0.0005 AF used in this HHSE). These Site-specific, and California-specific, lines of evidence, and generic default AF information, support the use of the 0.0005 AF for remedial decisions at the Site.

5. Human Health Screening Levels

To evaluate current/future construction worker and future industrial/commercial exposures, screening values for non-carcinogenic and carcinogenic effects were utilized in the HHSE as follows:

- **Soil**: Consistent with DTSC's PEA Guidance (DTSC, 2015), DTSC HHRA Note 3 (DTSC, 2022a) values were utilized for the soil evaluation when available, and USEPA's November 2022 Regional Screening Levels (RSLs; USEPA, 2023) were utilized for compounds with no DTSC HHRA Note 3 value. In accordance with DTSC HHRA Note 4 (2022b), PAHs were evaluated individually using toxicity criteria that are consistent with the DTSC Toxicity Criteria Rule sections (§)69021(a), (b), and (c). The SFBRWQCB direct-exposure health-risk-based ESLs were utilized for TPH (SFBRWQCB, 2019). The SFBRWQCB ESLs were identified as the best SL for TPH, as the carbon fraction divisions in the historical TPH data matched up most closely with the ESL descriptions. In accordance with DTSC HHRA Note 8 (DTSC, 2018), the screening levels for Aroclor 1254 were selected as a surrogate for all Aroclors without a cancer or non-cancer screening level. Construction worker screening values were calculated in the USEPA RSL Calculator based on default DTSC construction worker exposure factors and the selected toxicity values as described in **Section 6**. The RSL calculator export is shown in **Attachment 5**.

- **Indoor Air**: Consistent with DTSC's PEA Guidance (DTSC, 2015), DTSC HHRA Note 3 (DTSC, 2022a) values were utilized for the indoor air evaluation. If no value was provided in DTSC HHRA Note 3, USEPA May 2023 RSLs (USEPA, 2023) were utilized.

Screening values for a construction worker exposure to soil, outdoor commercial/industrial worker to soil, and indoor commercial/industrial worker to indoor air are shown in **Tables 2a**, **2b**, and **2c**, respectively.

6. Toxicity Values

The toxicity assessment describes the quantitative relationship between the extent of exposure to a contaminant and the increased likelihood and/or severity of adverse effects. This quantitative relationship generally takes the form of toxicity values that are identified for use in risk evaluations. Toxicity values are used to quantify the chance of observing cancer or non-cancer effects in exposed receptors. Toxicity values may be based on epidemiological studies or animal studies.

DTSC's HHRA Note 10 values were used when available, otherwise USEPA RSLs (USEPA, 2023) were used. For TPH, values from SFBRWQCB direct-exposure health-risk-based ESLs were utilized (SFBRWQCB, 2019). In accordance with DTSC HHRA Note 8 (DTSC, 2018), the toxicity values for Aroclor 1254 were selected as a surrogate for Aroclors without available toxicity values.

The SLs were developed using the toxicity values outlined in **Tables 3a** and **3b**.

6.1 Toxicity Information for Non-Carcinogenic Effects

In assessing the potential for non-cancer health effects, USEPA assumes there is a toxicological threshold below which no adverse health effects are observable (USEPA, 1993). These toxicological thresholds are represented by reference doses (RfDs) for oral exposures and reference concentrations (RfCs) for inhalation exposures. The RfDs and RfCs are estimates (with uncertainty spanning, in some cases, an order of magnitude) of daily exposures to the human population (including sensitive subgroups) that are likely to be without an appreciable risk of deleterious effects during a lifetime. USEPA derives RfDs and RfCs using a standardized approach, considering available information from human and animal studies, which establish the levels below which toxicological effects are not observed and the uncertainties inherent in the available information (USEPA, 1993).

6.2 Toxicity Information for Carcinogenic Effects

USEPA uses a two-part evaluation in assessing potentially carcinogenic substances. In the first part, a chemical is assigned a weight-of-evidence classification, which reflects USEPA's assessment of the likelihood that the chemical is a human carcinogen. For chemicals that are classified as possible, probable, or known human carcinogens, USEPA calculates a cancer slope factor (CSF) for oral exposures and an inhalation unit risk (IUR) for inhalation exposures when sufficient information is available to support the calculation. USEPA guidance indicates that a linear, no-threshold dose-response model is appropriate for carcinogenic risk assessment (USEPA, 2005). An extremely low level of exposure to a carcinogen may result in chromosomal or enzyme changes leading to cancer. Therefore, USEPA does not generally estimate thresholds for carcinogens. CSF or IURs are used to estimate the probability of a cancer effect occurring in a receptor exposed over their lifetime.

7. Risk Characterization Summary

The risk characterization process integrates the results of the data evaluation, exposure assessment, and toxicity assessment to provide a quantitative estimation of cumulative non-carcinogenic hazard and carcinogenic risk for a future outdoor and future indoor commercial/industrial worker and a current/future construction worker. A cumulative risk calculation represents the cumulative cancer and cumulative non-cancer impact that the subject site has on a particular receptor, and accounts for exposures that a receptor could receive from multiple chemicals and exposure pathways.

The measure used to describe the potential for noncarcinogenic health effects is the Hazard Index (HI). An HI is the ratio of a receptor's exposure level (or dose) to the "acceptable" (or allowable) exposure level (i.e., the reference dose or concentration). An HI of 1 or less (DTSC, 2015) indicates that the receptor's exposure is equal to or less than the allowable exposure level, and that it is unlikely that adverse health effects will occur. An HI greater than 1 indicates that the receptor's exposure is greater than the allowable exposure level, and that adverse health effects may occur.

The potential for cancer effects is characterized as the Incremental Lifetime Cancer Risk (ILCR). The ILCR represents the incremental probability of an individual developing cancer over a lifetime as a result of exposure to the potential carcinogen. For a given chemical, the ILCR is the product of the receptor's quantified exposure and the carcinogenic potency of the chemical. The risk threshold range presented corresponds with the acceptable risk range of 1E-06 to 1E-04 as discussed in the National Contingency Plan (NCP), 40 CFR 300.430 (USEPA, 1968) and the DTSC designated target cancer risk of less than or equal to 1E-06 (DTSC, 2015).

The quantitative estimation of cumulative non-carcinogenic hazard and carcinogenic risk for a future outdoor and a future indoor industrial/commercial worker's exposure to soil and indoor air (respectively) and a current/future construction worker's exposure to soil at the Site, as summarized in the text and tables below.

- **Construction Worker:** The cumulative cancer risk estimate for a current/future construction scenario exceeds the cancer risk threshold of 1E-06 to 1E-04, and the non-cancer hazard estimate exceeds the non-cancer hazard threshold of 1.

Construction Worker Cumulative Cancer and Non-Cancer Risks

Receptor	Estimated Cancer Risk	Exceed Risk Threshold of 1E-06 to 1E-04?	Estimated Non-Cancer Hazard	Exceed Hazard Threshold of 1?
Construction Worker	2E-04	Yes	4E+02	Yes

Cancer risk and non-cancer hazard are driven by Aroclor 1254. The maximum Aroclor 1254 concentration was determined to be an outlier, as shown in the Q-Q plot provided in **Attachment 3,** and the use of the 95% UCL for Aroclor 1254 would not have been appropriate. The removal of the maximum Aroclor 1254 concentration is planned as a part of future remediation activities in coordination with USEPA and DTSC (Roux, 2022), and a virtual analysis to show post-excavation risk estimates is provided in **Section 7.4**.

- **Future Outdoor Commercial/Industrial Worker (0 to 2 feet bgs):** The cumulative cancer risk estimate for a future outdoor commercial/industrial scenario exposed to current surface soils (0 to 2 feet bgs) exceeds the cancer threshold of 1E-06 to 1E-04, and the cumulative non-cancer hazard estimate exceeds the non-cancer hazard target threshold of 1. The maximum Aroclor 1254 concentration was determined to be an outlier, as shown in the Q-Q plot provided in **Attachment 3,** and the use of the 95% UCL for Aroclor 1254 would not have been appropriate. The removal of the maximum Aroclor 1254 concentration is planned as a part of future remedial activities in coordination with USEPA and DTSC (Roux, 2022), and a virtual analysis to show post-excavation risk estimates is provided in **Section 7.4**.

- **Future Outdoor Commercial/Industrial Worker (0 to 10 feet bgs):** The cumulative cancer risk estimate for a future outdoor commercial/industrial scenario exposed to potential future surface soils (following regrading of soils currently at 0 to 10 feet bgs) exceeds the cancer threshold of 1E-06 to 1E-04, and the cumulative non-cancer hazard estimate exceeds the non-cancer hazard target threshold of 1. The maximum Aroclor 1254 concentration was determined to be an outlier, as shown in a Q-Q plot of Aroclor 1254 concentrations provided in **Attachment 3**, and the use of the 95% UCL for Aroclor 1254 would not have been appropriate. The removal of the maximum Aroclor 1254 concentration is planned as a part of future remedial activities in coordination with USEPA and DTSC (Roux, 2022), and a virtual analysis to show post-excavation risk estimates is provided in **Section 7.4**.

Outdoor Commercial/Industrial Worker Cumulative Cancer and Non-Cancer Risks

Receptor	Estimated Cancer Risk	Exceed Risk Threshold 1E-06 to 1E-04?	Estimated Non-Cancer Hazard	Exceed Hazard Threshold of 1?
Future Outdoor Commercial/Industrial (0-2')	1E-03	Yes	9E+01	Yes
Future Outdoor Commercial/Industrial (0-10')	1E-03	Yes	9E+01	Yes

- **Future Indoor Commercial/Industrial Worker (EU1):** Using AFs of 0.003 and 0.0005, the cumulative cancer risk estimate for a future indoor commercial/industrial scenario in EU1 does not exceed the cancer threshold of 1E-06. Using an AF of 0.03, the cumulative cancer risk estimate for a future indoor commercial/industrial scenario in EU1 is within the risk management range of 1E-06 to 1E-04. In all three AF scenarios (0.0005, 0.003 and 0.03) the cumulative non-cancer hazard estimate does not exceed the non-cancer hazard target threshold of 1.

- **Future Indoor Commercial/Industrial Worker (EU2):** Using an AF of 0.0005, the cumulative cancer risk estimate for a future indoor commercial/industrial scenario in EU2 does not exceed the cancer threshold of 1E-06, and the cumulative non-cancer hazard estimate does not exceed the non-cancer hazard target threshold of 1. Using an AF of 0.003, the cumulative cancer risk estimate for a future indoor commercial/industrial scenario in EU2 is within the low-end of the risk management range of 1E-06 to 1E-04. Using an AF of 0.03, the cumulative cancer risk estimate for a future indoor commercial/industrial scenario in EU2 is within the risk management range of 1E-06 to 1E-04. Using an AF of 0.03 the cumulative non-cancer hazard estimate exceeds the hazard target threshold of 1. However, using an AF of 0.003 and 0.0005 the non-cancer hazard estimate does not exceed the target threshold of 1.

Indoor Commercial/Industrial Worker Cumulative Cancer and Non-Cancer Risks

Receptor	Estimated Cancer Risk	Exceed Risk Threshold 1E-06 to 1E-04?	Estimated Non-Cancer Risk	Exceed Risk Threshold of 1?
Future Indoor Commercial/ Industrial (EU1) – AF 0.0005	1E-07	No	4E-03	No
Future Indoor Commercial/ Industrial (EU2) – AF 0.0005	1E-06	No	4E-02	No
Future Indoor Commercial/ Industrial (EU1) – AF 0.003	7E-07	No	2E-02	No
Future Indoor Commercial/ Industrial (EU2) – AF 0.003	9E-06	Risk Management Range	3E-01	No
Future Indoor Commercial/ Industrial (EU1) – AF 0.03	7E-06	Risk Management Range	2E-01	No
Future Indoor Commercial/ Industrial (EU2) – AF 0.03	9E-05	Risk Management Range	3E+00	Yes[34]

[34] The cumulative non-cancer hazard exceeds 1, however a target organ analysis identified that no individual target organ exceeds a threshold of 1.

A target analysis was conducted for the future indoor commercial/industrial worker in EU2 utilizing an AF of 0.03. This analysis identified that no individual target organ exceeds a threshold of 1 as shown in **Table 4b** and in the table below.

Media	Future Indoor Commercial/Industrial Worker Exposure to Indoor Air (AF 0.03)	
	Hazard Index (HI)	Exceed 1?
Blood	4E-02	No
Cardiovascular	8E-02	No
Developmental	2E-03	No
Hepatic	2E-01	No
Immune System	7E-01	No
Nasal	1E+00	No
Neurological/Nervous System	4E-01	No
Renal	4E-02	No
Respiratory	1E-01	No
Whole Body	3E-03	No

Tables 4a and **4b** present indoor air risk estimates for EU1 and EU2, respectively, assuming an AF of 0.03 to facilitate comparison to RFI screening tables. Risk and hazard estimates for indoor commercial/industrial worker utilizing an AF of 0.003 and 0.0005 for remedial decisions are shown in **Tables 4c** through **4f**.

Risk and hazard estimates are provided in **Tables 4a** through **6**.

7.1 Cancer Risks

For carcinogens, risk is expressed as the probability that an individual will develop cancer over a lifetime because of exposure to the carcinogen and is expressed as ILCR. Carcinogenic risk is calculated by dividing the EPC for each compound by its respective screening level:

$$ILCR = \frac{EPC}{RSL} \times 10^{-6}$$

The combined risk from exposure to multiple constituents is evaluated by adding the risks from individual constituents and multiple exposure pathways and is known as cumulative risk. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP; 40 CFR 300) indicates that the cumulative ILCR posed by a site should not exceed a range of 1E-04 to 1E-06.

- **Construction Worker:** The cumulative cancer risk estimate for a current/future construction scenario exceeds the cancer threshold of 1E-06 to 1E-04. The maximum Aroclor 1254 concentration was determined to be an outlier, as shown in a Q-Q plot of Aroclor 1254 concentrations included in **Attachment 3**, and the use of the 95% UCL for Aroclor 1254 would not have been appropriate. The removal of the maximum Aroclor 1254 concentration is planned as a part of future remedial activities in coordination with USEPA and DTSC, and a virtual analysis to show post-excavation risk estimates is provided in **Section 7.4**.

- **Future Outdoor Commercial/Industrial Worker (0 to 2 feet bgs):** The cumulative cancer risk estimate for a future outdoor commercial/industrial scenario exposed to current surface soils (0 to 2 feet bgs) exceeds the cancer threshold of 1E-06 to 1E-04. The maximum Aroclor 1254 concentration was determined to be an outlier, as shown in a Q-Q plot of Aroclor 1254 concentrations included in **Attachment 3**, and the use of the 95% UCL for Aroclor 1254 would not have been appropriate. The removal of the maximum Aroclor 1254 concentration is planned as a part of future remedial activities in coordination with USEPA and DTSC, and a virtual analysis to show post-excavation risk estimates is provided in **Section 7.4**.

- **Future Outdoor Commercial/Industrial Worker (0 to 10 feet bgs):** The cumulative cancer risk estimate for a future outdoor commercial/industrial scenario exposed to potential future surface soils (following regrading of soils currently at 0 to 10 feet bgs) exceeds the cancer threshold of 1E-06 to 1E-04. The maximum Aroclor 1254 concentration was determined to be an outlier, as shown in a Q-Q plot of Aroclor 1254 concentrations included in **Attachment 3**, and the use of the 95% UCL for Aroclor 1254 would not have been appropriate. The removal of the maximum Aroclor 1254 concentration is planned as a part of future remedial activities in coordination with USEPA and DTSC, and a virtual analysis to show post-excavation risk estimates is provided in **Section 7.4**.

- **Future Indoor Commercial/Industrial Worker (EU1):** The cumulative cancer risk estimate for a future indoor commercial/industrial scenario in EU1 using AFs of 0.0005 and 0.003 does not exceed the cancer threshold of 1E-06. The cumulative cancer risk estimate for a future indoor commercial/industrial scenario in EU1 using an AF of 0.03 is within the risk management range of 1E-06 to 1E-04.

- **Future Indoor Commercial/Industrial Worker (EU2):** The cumulative cancer risk estimate for a future indoor commercial/industrial scenario in EU2 using an AF of 0.0005 does not exceed the cancer threshold of 1E-06. The cumulative cancer risk estimate for a future indoor commercial/industrial scenario in EU2 using AFs of 0.03 and 0.003 is within the risk management range of 1E-06 to 1E-04. The cumulative cancer risk with an AF of 0.003 is on the low end of the risk management range and does not exceed 1E-05.

Compiled cumulative cancer hazard estimates are shown in **Table 7**. Medium-specific cancer hazard estimates are provided in **Tables 4a** through **6**.

7.2 Non-Cancer Hazards

The non-carcinogenic hazard estimate is calculated by dividing the EPC for each compound by its respective screening level to arrive at a Hazard Quotient (HQ) for each chemical:

$$HQ = \frac{EPC}{RSL}$$

To assess the potential for non-carcinogenic health effects posed by exposure to multiple constituents, a cumulative HI approach is used. This approach assumes that non-carcinogenic hazards associated with exposure to more than one constituent are additive (HI = sum of the HQs). Synergistic or antagonistic interactions between constituents are not considered. The HI is then compared to the DTSC threshold of 1 (DTSC, 2015).

- **Construction Worker:** Under current Site conditions, the cumulative non-cancer hazard estimate for current/future construction worker exceeds the non-cancer hazard target threshold of 1. The maximum Aroclor 1254 concentration was determined to be an outlier, as shown in a Q-Q plot of Aroclor 1254 concentrations included in **Attachment 3**, and the use of the 95% UCL for Aroclor 1254 would not have been appropriate. The removal of the maximum Aroclor 1254 concentration is planned as a part of future remedial activities in coordination with USEPA and DTSC, and a virtual analysis to show post-excavation risk estimates is provided in **Section 7.4**.

- **Future Outdoor Commercial/Industrial Worker (0 to 2 feet bgs):** The cumulative non-cancer hazard estimate for a future outdoor commercial/industrial scenario exposed to current surface soils (0 to 2 feet bgs) exceeds the non-cancer hazard target threshold of 1. The maximum Aroclor 1254 concentration was determined to be an outlier, as shown in a Q-Q plot of Aroclor 1254 concentrations included in **Attachment 3**, and the use of the 95% UCL for Aroclor 1254 would not have been appropriate. The removal of the maximum Aroclor 1254 concentration is planned as a part of future remedial activities in coordination with USEPA and DTSC, and a virtual analysis to show post-excavation risk estimates is provided in **Section 7.4**.

- **Future Outdoor Commercial/Industrial Worker (0 to 10 feet bgs):** The cumulative non-cancer hazard estimate for a future outdoor commercial/industrial scenario exposed to potential future surface soils (following regrading of soils currently at 0 to 10 feet bgs) exceeds the non-cancer hazard target threshold of 1. The maximum Aroclor 1254 concentration was determined to be an outlier, as shown in a Q-Q plot of Aroclor 1254 concentrations included in **Attachment 3**, and the use of the 95% UCL for Aroclor 1254 would not have been appropriate. The removal of the maximum Aroclor 1254 concentration is planned as a part of future remedial activities in coordination with USEPA and DTSC, and a virtual analysis to show post-excavation risk estimates is provided in **Section 7.4**.

- **Future Indoor Commercial/Industrial Worker (EU1):** The cumulative non-cancer hazard estimates for a future indoor commercial/industrial scenario (AFs of 0.0005, 0.003, and 0.03) in EU1 do not exceed the non-cancer hazard target threshold of 1.

- **Future Indoor Commercial/Industrial Worker (EU2):** The cumulative non-cancer hazard estimates for a future indoor commercial/industrial scenario in EU2, using an AF of 0.0005 and 0.003, do not exceed the non-cancer hazard target threshold of 1. The cumulative non-cancer hazard estimate for a future indoor commercial/industrial scenario in EU2 using an AF of 0.03 exceeds the non-cancer hazard target threshold of 1. However, a target organ analysis (presented in Section 7 and shown in Table 4b) was conducted and identified that no individual target organ exceeds a threshold of 1.

Cumulative non-cancer hazard estimates are shown in **Table 7**. Medium-specific non-cancer hazard estimates are provided in **Tables 4a** through **6**.

7.3 COPCs Requiring Special Handling

7.3.1 Arsenic

As documented in DTSC HHRA Note 11 (DTSC, 2020b), DTSC Site Mitigation and Restoration Program (SMRP) made a risk management decision on the acceptability of estimated risk associated with the upper-bound arsenic SL. The Site falls in the geographic five-county distribution of samples used to set the upper-bound Southern California Ambient Arsenic Screening Level, of 12 mg/kg (DTSC, 2020b), and the 95% UCL of the mean for Southern California, of 3.1 mg/kg. The ProUCL[35] output for the 95% UCL arsenic concentration at the Site is shown in **Attachment 2** and a Q-Q plot of the Site data is provided in **Attachment 3**. All detections of arsenic in soil samples within the HHSE data set[36] are less than the Southern California Ambient Arsenic Screening Level of 12 mg/kg (DTSC, 2020b). The 95% UCL of the mean concentration is 2.02 mg/kg which is less than the 95% UCL of the mean for Southern California (3.1 mg/kg). Therefore, the arsenic at the Site is consistent with naturally occurring arsenic in soil.

35 USEPA ProUCL version 5.1 was utilized for this HHSE.

36 Previous Site remediation included excavation of arsenic contaminated soils as documented in Northgate's January 2022 report, "Revised Soil Removal Completion Report at Cooling Towers for Units 1 and 2" and as performed by Roux in 2021. The Southern California Ambient Arsenic Screening Level of 12 mg/kg (DTSC, 2020b) was used during excavation activities.

7.3.2 Lead

Lead was evaluated by modeling blood lead levels, using the DTSC Lead Risk Assessment Spreadsheet (DTSC, 2022c) consistent with DTSC guidance. The DTSC Lead Risk Assessment Spreadsheet has incorporated DTSC recommendations for evaluating industrial exposure to lead in soil. These modifications include the Cal/EPA's Office of Environmental Health Hazard Assessment (OEHHA) development of a new toxicity evaluation of lead replacing the 10 microgram per deciliter (µg/dL) threshold blood concentration with a source-specific "benchmark change" of 1 µg/dL (Cal/EPA OEHHA, 2007). This benchmark change is associated with an upper-bound estimate of a loss of 1 intelligence quotient (IQ) point, and soil lead concentration may be up to 80 mg/kg without a child experiencing a loss of more than 1 IQ point. Human and Ecological Risk Office (HERO) considers the 90th percentile of the distribution appropriate for use in evaluating lead exposures (DTSC, 2022d). Therefore, the UCL of soil lead concentrations should not exceed 80 mg/kg and should not cause an incremental blood lead concentration change of greater than 1 µg/dL.

The 95% UCL of the mean concentration, 6.23 mg/kg, was evaluated as the EPC, consistent with the DTSC's LeadSpread9 – Information for Users (DTSC, 2022c). A Q-Q Plot for all lead samples collected at the Site is shown in **Attachment 3**.

The DTSC Lead Risk Assessment Spreadsheet output, assuming the 95% UCL of the mean concentration (including the maximum at the Site, which is less than the 80 mg/kg cutoff to cause an incremental blood lead concentration change of greater than 1 µg/dL), results in lead exposure at the Site associated with a change in blood levels of 0.02 µg/dL for the 90th percentile fetus of an adult worker. Therefore, levels of lead at the Site do not pose unacceptable risk to the fetus of an adult worker. ProUCL output for the 95% UCL lead concentration is included as **Attachment 2**, and backup for DTSC's Lead Risk Assessment Spreadsheet workbook is provided as **Attachment 6**.

7.4 "Virtual" Analysis

The "virtual" analysis estimates risk following the planned removal of sample Unit-2-LT-30A which represents an Aroclor 1254 outlier which was identified in the outlier evaluation. Future remedial activities to remove the Aroclor 1254 outlier are expected to be conducted in coordination with USEPA and DTSC as described in the SICP (Roux, 2022). The "virtual analysis" estimates risk with a dataset that removes only sample Unit-2-LT-30A while retaining in the dataset all other samples from the primary analysis. The analysis estimates risk of the remaining soils at the Site for a construction worker and future outdoor commercial/industrial worker, as summarized in the text and tables below.

- **Construction Worker:** The cumulative cancer risk estimate for a current/future construction scenario does not exceed the cancer threshold of 1E-06. However, the non-cancer hazard estimate exceeds the non-cancer hazard target threshold of 1.

Construction Worker Cumulative Cancer and Non-Cancer Risks

Receptor	Estimated Cancer Risk	Exceed Risk Threshold of 1E-06 to 1E-04?	Estimated Non-Cancer Hazard	Exceed Hazard Threshold of 1?
Construction Worker (maximum thallium concentration)	4E-07	No	5E+00	Yes
Construction Worker (95% UCL thallium concentration)	4E-07	No	2E+00	Yes[37]

[37] The cumulative non-cancer hazard exceeds 1, however a target organ analysis identified that no individual target organ exceeds a threshold of 1.

Exceedance of the non-cancer hazard threshold is driven by thallium. The maximum thallium concentration was determined to be an outlier, as shown on a Q-Q plot of thallium concentrations included in **Attachment 3**, and use of the 95% UCL for thallium would not have been appropriate. However, in a dataset that does not include the maximum thallium detection and uses the 95% UCL for thallium (2.6 mg/kg, as seen in **Attachment 2**), the construction worker scenario yields an estimated cumulative ILCR that remains below 1E-06 and an estimated cumulative HI that exceeds 1. A target organ analysis was conducted and identified that no individual target organ exceeds a threshold of 1 as shown in **Table 8f** and below.

Target Organ	Future Construction Worker Exposure to Soil[38]	
	Hazard Index (HI)	Exceed 1?
Blood	9E-04	No
Body Weight	2E-01	No
Dermal	1E-01	No
Developmental	2E-02	No
Gastrointestinal System	2E-02	No
Hepatic	1E-05	No
Neurological/Nervous System	9E-02	No
Renal	3E-02	No
Respiratory	6E-05	No
Skin	8E-01	No
Thyroid	3E-01	No
Whole Body	3E-01	No

- **Future Outdoor Commercial/Industrial Worker (0 to 2 and 0 to 10 feet bgs):** The cumulative cancer risk estimate for a future outdoor commercial/industrial scenario exposed to current surface soils (0 to 2 feet bgs) and soils from 0 to 10 feet bgs are within the risk management range of 1E-06 to 1E-04, and the 0- to 10-foot scenario does not exceed the non-cancer hazard target threshold of 1. However, the non-cancer hazard estimate exceeds the non-cancer hazard target threshold of 1 for surface soils.

Future Outdoor Commercial/Industrial Worker Cumulative Cancer and Non-Cancer Risks

Receptor	Estimated Cancer Risk	Exceed Risk Threshold of 1E-06 to 1E-04?	Estimated Non-Cancer Hazard	Exceed Hazard Threshold of 1?
Future Outdoor Commercial/Industrial (0-2')	3E-06	Risk Management Range	2E+00	Yes[39]
Future Outdoor Commercial/Industrial (0-10')	3E-06	Risk Management Range	1E+00	No

A target organ analysis was conducted and identified that no individual target organ exceeds a threshold of 1 as shown in **Table 8c** and below.

[38] In a dataset that does not include the thallium outlier and uses the 95% UCL for thallium.

[39] The cumulative non-cancer hazard exceeds 1. However a target organ analysis identified that no individual target organ exceeds a threshold of 1.

Media	Future Commercial/Industrial Worker Exposure to Soil (0-2')	
	Hazard Index (HI)	Exceed 1?
Blood	4E-04	No
Body Weight	2E-03	No
Dermal	8E-03	No
Developmental	9E-04	No
Gastrointestinal System	2E-03	No
Hepatic	3E-06	No
Neurological/Nervous System	8E-03	No
Renal	5E-03	No
Respiratory	1E-05	No
Skin	1E+00	No
Thyroid	2E-02	No
Whole Body	2E-01	No

Risk and hazard estimates for the virtual scenario are provided in **Tables 8a** through **8f.**

7.5 Uncertainty

Risk and hazard estimates from this screening evaluation do not represent absolute estimates at a specific site because generic assumptions for commercial/industrial land use are utilized. The numerical estimates in the HHSE have uncertainties reflecting inherent limitations in appropriately characterizing Site conditions and exposure assumptions (intake rates, number of days exposed, amount of time spent at work, etc.). Overall, ILCRs and His presented in the HHSE are based upon conservative assumptions that are intended to be protective of human health by likely overestimating exposure to account for parameter uncertainty (RME exposure scenario). Therefore, the results presented in this HHSE are conservative and biased high.

Data used in this HHSE consists of data from 2019 through 2022. Data that contributed to the 2011 retention basin closure, which met unrestricted use at the time, were not included in the data set for this HHSE. The retention basin evaluation was concentrated in location and consisted of a high number of soil samples. The inclusion of this data would result in an overrepresentation of this portion of the Site in the dataset. As the data met unrestricted closure in 2011, it is not expected to contribute more to the cumulative risk assessment than the unclosed portions of the Site and its exclusion likely results in more conservative EPCs.

Samples in areas that were excavated are not included in the data set for this HHSE as these samples represent soil that is no longer on Site. The HHSE evaluation utilized each post-excavation confirmation sample's depth and location as initially reported. The amount of backfilling in each excavation area is unknown and the potential movement of soils across the Site introduces uncertainty to the HHSE process. However, given adoption of numerous conservative assumptions, this uncertainty is not considered to impact conclusions of the HHSE.

Only discrete soil samples were included in the HHSE dataset. Areas of the Site with composite samples containing higher concentrations of COCs (composite samples collected by Ardent from the Chadwick Channel) had nearby discrete samples which were included in the dataset. Discrete samples were collected by Northgate as part of the RFI to supplement previous data in response to DTSC comments as described in section 4.11 of the RFI. The inclusion of only discrete samples in the data set is considered appropriate.

Soil samples analyzed below flumes associated with cooling towers were collected at 0.5 and 1.5 feet bgs from expansion joints within the flumes (ERM, 2021a). However, the bottoms of the flumes were located approximately 9 feet below the surrounding ground surface. Concrete at the bottom of the flumes is assumed to be 4 to 6 inches thick, placing the native soil at approximately 9.5 feet bgs. The maximum thallium concentration is from a sample collected below the flume servicing former Cooling Tower 3. Since sampling in 2019, the flumes have been demolished and backfilled, resulting in sample locations that are now much deeper than described in initial sampling reports. Demolition activities have taken place over the majority of the Site in the years since sampling was initially conducted, likely resulting in disturbance of surface soils. The HHSE evaluation utilized each sample's depth and location as initially reported. The potential movement and known burial of soil sampling locations introduces uncertainty to the HHSE process. However, given adoption of numerous conservative assumptions, this uncertainty is not considered to impact conclusions of the HHSE. Risk related to exposure to thallium assumes that a construction worker is exposed (i.e. inhalation of particulates, ingestion, and/or dermal exposure) to the area of the maximum thallium concentration 8 hours a day, 5 days a week, for 50 weeks. This is a conservative and unlikely scenario given the limited distribution of thallium at the Site and depth in which the maximum concentration was encountered.

Roux utilized USEPA ProUCL version 5.1 for all 95% UCL calculations performed in this HHSE. There is recent controversy over the UCL decision tree in ProUCL version 5.2 as it removed the Chebyshev UCL from the UCL decision tree for lognormally distributed data. Version 5.1 of ProUCL has a UCL decision tree that has been generally accepted in the industry and was used in this HHSE.

Use of 95% UCL and maximum concentrations (as described in **Section 4** of the report) as EPCs for soils across the entire Site similarly introduces uncertainty, as 95% UCL and maximum concentrations almost certainly overestimate actual risk encountered. The proposed commercial/industrial redevelopment plan includes multiple warehouse buildings. Therefore, the evaluation of 95% UCL and maximum concentrations across the exposure unit to generate cumulative risk estimates is a conservative assumption, which is unlikely to be realized given proposed redevelopment plans.

Reliance on EPCs to quantify risk estimates inherently introduces uncertainty into risk and hazard estimates, due to uncertainty surrounding site characterization and heterogeneity. While an AF of 0.03 was presented in the HHSE to facilitate comparison to the RFI, these estimates are not considered realistic quantifications of potential future exposure or risk at the Site. The majority (approximately 85%) of the samples used in the development of the 0.03 and 0.003 AFs were from residential buildings and thus the resulting AFs, while conservative, are not likely to be representative of a commercial building scenario. Additionally, these samples were from 15 different states and the vast majority were from states with much colder climates (such as Montana, New York, Connecticut, Colorado, etc) than experienced in Southern California. Multiple lines of Site-specific and California-specific evidence are presented in Section 4 to support the use of an AF of 0.0005 for the future indoor commercial/industrial scenario. It should be noted that the Supplemental Vapor Intrusion Guidance Document also indicates that California-specific AFs "may be incorporated into a future version of this Supplemental Guidance" (DTSC, 2023). Considering these Site-specific and California-specific lines of evidence and default AF information, the AFs presented in this HHSE are conservative and appropriate.

The use of exposure unit-wide maximum concentrations as EPCs for soil vapor concentrations produces a more conservative risk determination for those exposure points. The soil vapor EPC for chloroform, carbon tetrachloride, PCE and 1,1-DCA were calculated using the 95% UCL within the discrete area of the Site with the highest concentrations[40]. The 95% UCL was calculated using all samples from 10 to 20 feet bgs, as these are the depths with the highest detected soil gas concentrations[41], and within 50 feet from the planned building footprint, as an inclusion zone. The highest detected soil gas concentrations[41] were consistently found in the 10- and 20-foot intervals, and no significant differences were found between concentrations at these intervals. The dataset did not have enough locations to do a 95% UCL using only the maximum concentration from each sample location without getting beyond the core of the discrete areas where VOCs were detected. It would not have been appropriate to include these lower concentrations, thus further refinement of the dataset used for the soil vapor 95% UCL calculation was not necessary. Therefore, the results presented in this HHSE are conservative and appropriate.

While vapor intrusion can be evaluated using groundwater data, this approach is not considered appropriate for the Site, and evaluation of soil vapor data is considered conservative. DTSC (2015) identifies soil vapor as the "overriding" pathway for evaluation of vapor intrusion, and DTSC (2020a) indicates that "groundwater data are not the preferred [line of evidence] for evaluating [vapor intrusion]." DTSC (2020a) further explains that the direct measurement of COPCs in soil vapor bypasses uncertainties associated with using groundwater data as a line of evidence for vapor intrusion. Groundwater at the Site is approximately 400 feet bgs, and thus, use of soil vapor data to quantify exposure is appropriate.

Current redevelopment plans depict four separate buildings which were divided into three exposure units (**Figure 5)** for the indoor commercial/industrial worker scenario as described in **Section 4**. If building layouts for the property change significantly from the current proposed layout, the indoor commercial/industrial worker exposure scenarios should be re-evaluated.

Additionally, uncertainty lies in the target organ analysis for the construction worker receptor and the indoor commercial/industrial worker. Target endpoints for the construction worker were selected as described in the RSL calculator metadata for RfD (which drives the construction worker exposure), while target endpoints for the indoor commercial/industrial worker were selected as described in the RSL calculator metadata for RfC (which drives the inhalation exposure). When a target organ is not listed in the RSL calculator metadata, the system described in the Integrated Risk Information System (IRIS) database is utilized. When an RfC target organ was not available to utilize in the indoor air analysis, the RfD target organ was utilized. Systems or target endpoints described as "other" or not otherwise listed default to "Whole Body" except for PAHs, which are set to "Developmental" to match the target organ for benzo(a)pyrene. The EPA RSL calculator does not provide data or meta-data for Petroleum – Diesel, Petroleum - Gasoline and Petroleum – Motor Oil, but rather for medium and high aliphatics and aromatics. For TPH, the EPA RSL calculator metadata points to the metadata for white mineral spirits, fluoranthene, benzene, and 2-methlynapthalene on the IRIS website as representative chemicals for the hydrocarbon classes. The target organs for these compounds are hepatic, urinary, immune system, and respiratory. Target organs for the fraction surrogates or components include gastrointestinal, whole body, blood, and lungs (USEPA, 2023). From this information, Roux selected the broadest target organ to apply to Petroleum – Diesel, Petroleum - Gasoline and Petroleum – Motor Oil: whole body. Assigning TPH to other relevant endpoints (i.e., hepatic, urinary, immune, respiratory/lungs, gastrointestinal, or blood) would not change the conclusions of this HHSE. The target organs for 1,1-dichloroethane in the indoor commercial/industrial

[40] Based on USEPA guidance for determining groundwater EPC (USEPA, 2005).

[41] Sample depths were chosen to be from the depths with the greatest detected soil gas concentrations in accordance with 2A.3, for future buildings, and 4A.3 from DTSC's Supplemental VI Guidance Final Draft dated February 2023.

worker analysis are from acute exposures identified in the current Agency for Toxic Substances and Disease Registry (ATSDR) toxicological profile (ATSDR, 2015) as no chronic exposure target organs were available. The selected target organ system for xylenes from the oral exposure route is whole body, which is in line with the basis listed in the IRIS database. This selection is different than the inhalation exposure system, which was selected as the neurological/nervous system. Assigning xylenes in the construction worker scenario to the neurological/nervous system endpoint would not change the conclusions of this HHSE. Selected target organs represent the most sensitive endpoint, but COPCs may affect other organ systems at higher exposures. However, given adoption of numerous conservative assumptions, this uncertainty is not considered to impact conclusions of the HHSE.

No screening levels or toxicity values were provided in DTSC HHRA Note 3, DTSC HHRA Note 10, USEPA 2023 RSLs, or SFBRWQCB ESLs for acenaphthylene, benzo(g,h,i)perylene, ethanol, phenanthrene and p-isopropyltoluene in all soil exposure scenarios. Additionally, for the construction worker scenario only, screening levels and toxicity values were not provided in SFBRWQCB ESLs for 1-methylnaphthalene, 2-hexanone, butyl benzyl phthalate, carbon disulfide, ethanol and p-isopropyltoluene. No SLs and toxicity values were provided in DTSC HHRA Note 3, DTSC HHRA Note 10, or USEPA 2023 RSLs for 4-isopropyltoluene in indoor air. Therefore, these compounds were not quantitatively evaluated in the HHSE for these pathways. Aroclor 1254 was selected as a surrogate for Aroclor 1262 and Aroclor 1268 as no SLs or toxicity values were provided in DTSC HHRA Note 3, DTSC HHRA Note 10, USEPA 2023 RSLs for these compounds. Aroclor 1254 was also selected as a surrogate for the non-cancer toxicity values and screening levels for Aroclor 1260 and Aroclor 1248 in accordance with DTSC HHRA Note 8 (DTSC, 2018). Additionally, the USEPA 2023 RSLs for chromium (III), insoluble salts, were selected as a surrogate for total chromium SLs. The use of this surrogate is considered appropriate given that chromium (VI) was analyzed alongside total chromium at this Site and no chromium (VI) was detected at the Site. The SFBRWQCB ESLs for petroleum were selected as SLs for the gasoline range, diesel range, jet fuel, and motor oil range organics. Multiple different approaches to TPH analysis were taken by different consultants in historical investigations and data presentation. Each TPH analysis or carbon fraction was placed in the appropriate petroleum SL based on the carbon range fractions described in each analysis as described below:

- Petroleum - Gasoline includes carbon ranges C4 - C10 presented by Ardent, TPH-g presented by Path Forward and TPH Gasoline C4-C12 presented by Northgate;
- Petroleum - Diesel includes carbon ranges C10 - C28 presented by Ardent, TPH-d presented by Path Forward, TPH Diesel C13-C22 presented by Northgate and Diesel Range Organics [C10-C28] presented by Roux;
- Petroleum - Motor Oil includes carbon ranges C23 - C35 presented by Ardent, TPH-mo presented by Path Forward and TPH Motor Oil C23-C32 presented by Northgate; and
- Petroleum - Jet Fuel includes TPH-j presented by Path Forward.

These omissions and use of surrogates are considered areas of uncertainty in the HHSE. However, given adoption of numerous conservative assumptions, this uncertainty is not considered to impact conclusions of the HHSE.

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Table 1a: Summary of Soil Data (Whole Site) Included in the HHSE (<=2' bgs)
8996 Etiwanda Avenue, Rancho Cucamonga, California

COPC	Number of Soil Samples	Number of Detections	Range of Detections			95% UCL	EPCs
1-Methylnaphthalene	25	1	1.40E-02	-	1.40E-02	--	1.40E-02
2-Butanone	61	26	3.60E-03	-	5.10E-02	1.04E-02	1.04E-02
2-Hexanone	61	5	3.90E-03	-	1.10E-02	--	1.10E-02
2-Methylnaphthalene	25	1	1.70E-02	-	1.70E-02	--	1.70E-02
4-Methyl-2-pentanone	50	3	2.90E-03	-	5.00E-03	--	5.00E-03
Acenaphthene	25	1	1.60E-02	-	1.60E-02	--	1.60E-02
Acenaphthylene	25	1	1.20E-02	-	1.20E-02	--	1.20E-02
Acetone	61	51	1.10E-02	-	2.40E-01	4.64E-02	4.64E-02
Antimony	88	8	2.10E-01	-	1.60E+00	--	1.60E+00
Aroclor-1248	284	7	5.00E-02	-	2.40E-01	--	2.40E-01
Aroclor-1254	285	60	1.75E-02	-	7.50E+02	8.59E-02	7.50E+02
Aroclor-1260	284	115	1.29E-02	-	3.50E+00	2.27E-01	2.27E-01
Aroclor-1262	284	2	7.20E-02	-	1.72E-01	--	1.72E-01
Aroclor-1268	284	8	3.90E-02	-	5.80E-01	--	5.80E-01
Arsenic	211	146	3.04E-01	-	1.16E+01	2.38E+00	2.38E+00
Barium	88	88	3.74E+01	-	2.71E+02	1.05E+02	1.05E+02
Benzene	61	38	0.00023	-	9.00E-04	4.93E-04	4.93E-04
Benzo(a)anthracene	25	1	1.30E-01	-	1.30E-01	--	1.30E-01
Benzo(a)pyrene	25	1	1.20E-01	-	1.20E-01	--	1.20E-01
Benzo(b)fluoranthene	25	1	1.20E-01	-	1.20E-01	--	1.20E-01
Benzo(g,h,i)perylene	25	1	6.20E-02	-	6.20E-02	--	6.20E-02
Benzo(k)fluoranthene	25	1	1.00E-01	-	1.00E-01	--	1.00E-01
Beryllium	88	16	2.16E-01	-	6.70E-01	4.51E-01	4.51E-01
Butyl benzyl phthalate	25	1	2.90E-01	-	2.90E-01	--	2.90E-01
Cadmium	88	22	2.40E-01	-	1.31E+00	4.32E-01	4.32E-01
Carbon disulfide	61	9	4.10E-04	-	4.60E-03	--	4.60E-03
Chromium	88	88	2.01E+00	-	1.60E+02	3.53E+01	3.53E+01
Chrysene	25	1	1.30E-01	-	1.30E-01	--	1.30E-01
Cobalt	88	88	8.12E-01	-	1.60E+01	7.29E+00	7.29E+00
Copper	88	88	2.48E+00	-	1.39E+02	1.44E+01	1.44E+01
Dibenz(a,h)anthracene	25	1	1.70E-02	-	1.70E-02	--	1.70E-02
Ethanol	50	17	5.90E-02	-	1.50E-01	1.10E-01	1.10E-01
Ethylbenzene	61	1	1.90E-04	-	1.90E-04	--	1.90E-04
Fluoranthene	25	2	1.10E-02	-	4.10E-02	--	4.10E-02
Fluorene	25	1	1.20E-02	-	1.20E-02	--	1.20E-02
Indeno(1,2,3-cd)pyrene	25	1	5.50E-02	-	5.50E-02	--	5.50E-02
Lead	111	110	1.50E-01	-	7.54E+01	7.84E+00	7.84E+00
Mercury	88	53	1.20E-02	-	2.22E-01	3.41E-02	3.41E-02
Molybdenum	88	2	3.45E-01	-	1.45E+00	--	1.45E+00
Naphthalene	75	10	1.40E-02	-	6.00E-01	5.51E-02	6.00E-01
Nickel	88	86	9.30E-01	-	2.80E+01	9.55E+00	9.55E+00
Petroleum - Diesel	114	55	3.42E+00	-	7.90E+02	7.63E+01	7.63E+01
Petroleum - Gasoline	99	2	4.80E-02	-	8.70E-02	--	8.70E-02
Petroleum - Motor Oil	114	80	4.40E+00	-	3.20E+03	3.88E+02	3.88E+02
Phenanthrene	25	2	1.00E-02	-	1.20E-02	--	1.20E-02
Pyrene	25	2	1.30E-02	-	5.00E-02	--	5.00E-02
Selenium	88	2	4.40E-01	-	4.73E-01	--	4.73E-01
Silver	88	5	1.20E-01	-	2.10E-01	--	2.10E-01
tert-Butyl alcohol (TBA)	50	8	5.40E-03	-	2.80E-02	--	2.80E-02
Thallium	89	36	2.62E-01	-	1.49E+01	2.50E+00	1.49E+01
Vanadium	88	88	6.08E+00	-	1.46E+02	4.37E+01	4.37E+01
Xylenes (Mixed Isomers)	61	1	6.90E-04	-	6.90E-04	--	6.90E-04
Zinc	88	87	1.40E+01	-	1.19E+03	1.26E+02	1.26E+02

1. The lab reported m,p-xylene and o-xylene separately. These isomers were combined for the purposes of this risk screening.
2. Petroluem - Gasoline includes carbon ranges C4 - C10 presented by Ardent, TPH-g presented by Pathforward and TPH Gasoline C4-C12 presented by Northgate.
3. Petroluem - Diesel includes carbon ranges C10 - C28 presented by Ardent, TPH-d presented by Pathforward, TPH Diesel C13-C22 presented by Northgate and Diesel Range Organics [C10-C28] presented by Roux.
4. Petroluem - Motor Oil includes carbon ranges C23 - C35 presented by Ardent, TPH-mo presented by Pathforward and TPH Motor Oil C23-C32 presented by Northgate.
5. All units are in mg/kg (mg/kg = milligrams per kilograms)
6. Data includes unique and duplicate samples. Each sample was treated as discrete data point.
7. The selected EPC for each compound is the minimum of the 95% upper confidence limit (95%UCL) and maximum detected concentration. Except for the thallium and Aroclor 1254 outliers identified in the hotspot evaluation, for which the maximum is used.

Table 1b: Summary of Soil Data (Whole Site) Included in the HHSE (<=10' bgs)
8996 Etiwanda Avenue, Rancho Cucamonga, California

COPC	Number of Soil Samples	Number of Detections	Range of Detections			95% UCL	EPCs
1,1-Dichloroethane	174	2	5.10E-04	-	6.20E-04	--	6.20E-04
1-Methylnaphthalene	46	2	1.10E-02	-	1.40E-02	--	1.40E-02
2-Butanone	174	38	3.60E-03	-	5.10E-02	7.94E-03	7.94E-03
2-Hexanone	174	6	3.90E-03	-	1.10E-02	--	1.10E-02
2-Methylnaphthalene	46	3	1.20E-02	-	1.70E-02	--	1.70E-02
4-Methyl-2-pentanone	152	3	2.90E-03	-	5.00E-03	--	5.00E-03
Acenaphthene	46	1	1.60E-02	-	1.60E-02	--	1.60E-02
Acenaphthylene	46	2	1.10E-02	-	1.20E-02	--	1.20E-02
Acetone	174	127	8.60E-03	-	2.40E-01	3.75E-02	3.75E-02
Antimony	166	15	1.67E-01	-	1.60E+00	2.88E-01	2.88E-01
Aroclor-1248	329	9	4.60E-02	-	2.40E-01	--	2.40E-01
Aroclor-1254	330	62	1.75E-02	-	7.50E+02	1.24E+01	7.50E+02
Aroclor-1260	329	117	1.29E-02	-	3.50E+00	1.99E-01	1.99E-01
Aroclor-1262	329	2	7.20E-02	-	1.72E-01	--	1.72E-01
Aroclor-1268	329	8	3.90E-02	-	5.80E-01	--	5.80E-01
Arsenic	336	238	2.94E-01	-	1.19E+01	2.02E+00	2.02E+00
Barium	166	166	3.11E+01	-	2.71E+02	9.80E+01	9.80E+01
Benzene	174	74	2.30E-04	-	1.90E-03	4.58E-04	4.58E-04
Benzo(a)anthracene	46	1	1.30E-01	-	1.30E-01	--	1.30E-01
Benzo(a)pyrene	46	1	1.20E-01	-	1.20E-01	--	1.20E-01
Benzo(b)fluoranthene	46	1	1.20E-01	-	1.20E-01	--	1.20E-01
Benzo(g,h,i)perylene	46	1	6.20E-02	-	6.20E-02	--	6.20E-02
Benzo(k)fluoranthene	46	1	1.00E-01	-	1.00E-01	--	1.00E-01
Beryllium	166	49	1.39E-01	-	8.00E-01	3.73E-01	3.73E-01
Butyl benzyl phthalate	46	1	2.90E-01	-	2.90E-01	--	2.90E-01
Cadmium	166	53	1.84E-01	-	1.31E+00	4.01E-01	4.01E-01
Carbon disulfide	174	29	3.60E-04	-	8.20E-03	1.50E-03	1.50E-03
Chromium	166	166	1.54E+00	-	1.60E+02	2.55E+01	2.55E+01
Chrysene	46	1	1.30E-01	-	1.30E-01	--	1.30E-01
Cobalt	166	166	8.12E-01	-	1.60E+01	6.49E+00	6.49E+00
Copper	166	166	2.02E+00	-	1.39E+02	1.25E+01	1.25E+01
Dibenz(a,h)anthracene	46	1	1.70E-02	-	1.70E-02	--	1.70E-02
Ethanol	145	34	5.90E-02	-	1.50E-01	9.78E-02	9.78E-02
Ethylbenzene	174	1	1.90E-04	-	1.90E-04	--	1.90E-04
Fluoranthene	46	2	1.10E-02	-	4.10E-02	--	4.10E-02
Fluorene	46	1	1.20E-02	-	1.20E-02	--	1.20E-02
Indeno(1,2,3-cd)pyrene	46	1	5.50E-02	-	5.50E-02	--	5.50E-02
Lead	238	233	1.50E-01	-	7.54E+01	6.23E+00	6.23E+00
Mercury	166	89	1.00E-02	-	2.22E-01	3.47E-02	3.47E-02
Molybdenum	166	6	1.34E-01	-	1.45E+00	--	1.45E+00
Naphthalene	198	17	1.40E-02	-	9.10E-01	3.96E-02	3.96E-02
Nickel	166	164	9.30E-01	-	6.66E+01	9.72E+00	9.72E+00
Petroleum - Diesel	307	133	3.42E+00	-	7.90E+02	4.08E+01	4.08E+01
Petroleum - Gasoline	259	8	4.80E-02	-	1.00E+00	--	1.00E+00
Petroleum - Motor Oil	284	161	3.80E+00	-	3.20E+03	1.69E+02	1.69E+02
Phenanthrene	46	3	1.00E-02	-	1.20E-02	--	1.20E-02
p-Isopropyltoluene	174	1	3.60E-03	-	3.60E-03	--	3.60E-03
Pyrene	46	2	1.30E-02	-	5.00E-02	--	5.00E-02
Selenium	166	6	4.40E-01	-	6.89E-01	--	6.89E-01
Silver	166	12	9.02E-02	-	2.10E-01	1.07E-01	1.07E-01
tert-Butyl alcohol (TBA)	145	19	5.40E-03	-	2.80E-02	1.02E-02	1.02E-02
Thallium	167	66	1.80E-01	-	1.49E+01	2.60E+00	1.49E+01
Toluene	174	5	5.30E-04	-	1.10E-03	--	1.10E-03
Vanadium	166	166	6.08E+00	-	1.46E+02	3.68E+01	3.68E+01
Xylenes (Mixed Isomers)	174	3	4.00E-04	-	6.90E-04	--	6.90E-04
Zinc	166	165	1.09E+01	-	1.19E+03	8.50E+01	8.50E+01

1. The lab reported m,p-xylene and o-xylene separately. These isomers were combined for the purposes of this risk screening.
2. Petroluem - Gasoline includes carbon ranges C4 - C10 presented by Ardent, TPH-g presented by Pathforward and TPH Gasoline C4-C12 presented by Northgate.
3. Petroluem - Diesel includes carbon ranges C10 - C28 presented by Ardent, TPH-d presented by Pathforward, TPH Diesel C13-C22 presented by Northgate and Diesel Range Organics [C10-C28] presented by Roux.
4. Petroluem - Motor Oil includes carbon ranges C23 - C35 presented by Ardent, TPH-mo presented by Pathforward and TPH Motor Oil C23-C32 presented by Northgate.
5. All units are in mg/kg (mg/kg = milligrams per kilograms)
6. Data includes unique and duplicate samples. Each sample was treated as discrete data point.
7. The selected EPC for each compound is the minimum of the 95% upper confidence limit (95%UCL) and maximum detected concentration. Except for the thallium and Aroclor 1254 outliers identified in the hotspot evaluation, for which the maximum is used.

Table 1c: Summary of Soil Vapor (EU1) Included in the HHSE (<=20' bgs)
8996 Etiwanda Avenue, Rancho Cucamonga, California

COPC	Number of Soil Vapor Samples	Number of Detections	Range of Detections (ug/m^3)			Soil Vapor EPCs
1,1,1-Trichloroethane	35	12	2.20E+00	-	1.24E+01	1.24E+01
1,2,4-Trimethylbenzene	35	9	2.20E+00	-	7.61E+01	7.61E+01
1,3,5-Trimethylbenzene	35	3	2.40E+00	-	1.96E+01	1.96E+01
4-Isopropyltoluene	35	8	2.00E+00	-	2.97E+01	2.97E+01
Benzene	35	11	7.00E-01	-	1.64E+01	1.64E+01
Chloroform	35	7	2.30E+00	-	1.27E+01	1.27E+01
Dichlorodifluoromethane	35	9	5.10E+00	-	7.70E+00	7.70E+00
Ethylbenzene	35	8	4.40E+00	-	3.51E+01	3.51E+01
Isopropylbenzene	35	2	2.40E+00	-	4.60E+01	4.60E+01
n-Propylbenzene	35	2	2.90E+00	-	9.00E+00	9.00E+00
Styrene	35	2	2.20E+00	-	4.10E+00	4.10E+00
Tetrachloroethene	35	24	1.01E+01	-	3.17E+02	3.17E+02
Toluene	35	10	5.00E+00	-	3.95E+03	3.95E+03
Xylenes (Mixed Isomers)	35	18	2.00E+00	-	2.49E+02	2.49E+02

1. ug/m^3 = micrograms per cubic meter
2. The lab reported m,p-xylene and o-xylene separately. These isomers were combined for the purposes of this risk screening.
3. Data includes unique and duplicate samples. Each sample was treated as discrete data point.
4. The selected EPC for each compound is the maximum detected concentration.

Table 1d: Summary of Soil Vapor (EU2) Included in the HHSE (<=20' bgs)
8996 Etiwanda Avenue, Rancho Cucamonga, California

COPC	Number of Soil Vapor Samples	Number of Detections	Range of Detections (ug/m^3)			95% UCL of Plumes	Soil Vapor EPCs
1,1,1-Trichloroethane	103	78	1.40E+00	-	2.95E+03	-	2.95E+03
1,1,2-Trichloroethane	92	3	4.30E+00	-	3.46E+01	-	3.46E+01
1,1-Dichloroethane	103	62	1.10E+00	-	3.29E+03	1.82E+03	1.82E+03
1,1-Dichloroethene	103	78	1.00E+00	-	1.02E+03	-	1.02E+03
1,2,4-Trimethylbenzene	106	46	2.10E+00	-	5.87E+01	-	5.87E+01
1,2-Dichloroethane	92	10	1.50E+00	-	2.12E+01	-	2.12E+01
1,3,5-Trimethylbenzene	103	25	1.20E+00	-	2.14E+01	-	2.14E+01
4-Isopropyltoluene	92	32	2.10E+00	-	1.68E+02	-	1.68E+02
Benzene	92	58	6.00E-01	-	1.90E+01	-	1.90E+01
Bromodichloromethane	100	16	1.50E+00	-	2.70E+01	-	2.70E+01
Bromoform	100	3	1.70E+00	-	9.00E+00	-	9.00E+00
Carbon tetrachloride	92	46	1.10E+00	-	1.26E+02	4.83E+01	4.83E+01
Chlorobenzene	92	1	3.40E+00	-	3.40E+00	-	3.40E+00
Chloroform	103	69	2.90E+00	-	6.40E+02	3.69E+02	3.69E+02
cis-1,2-Dichloroethene	92	3	1.10E+00	-	6.50E+00	-	6.50E+00
Dibromochloromethane	100	5	2.70E+00	-	1.80E+01	-	1.80E+01
Dichlorodifluoromethane	92	70	5.00E+00	-	3.84E+01	-	3.84E+01
Ethylbenzene	106	47	2.70E+00	-	3.19E+02	-	3.19E+02
Isopropylbenzene	100	11	1.80E+00	-	1.20E+01	-	1.20E+01
Naphthalene	92	3	2.20E+00	-	1.73E+01	-	1.73E+01
n-Propylbenzene	92	11	1.80E+00	-	9.10E+00	-	9.10E+00
Styrene	106	24	2.00E+00	-	4.00E+01	-	4.00E+01
tert-Butyl alcohol	87	4	1.12E+02	-	2.36E+04	-	2.36E+04
Tetrachloroethene	106	86	5.10E+00	-	1.90E+03	1.22E+03	1.22E+03
Toluene	106	47	3.70E+00	-	1.55E+02	-	1.55E+02
Trichloroethene	103	29	2.10E+00	-	1.94E+02	-	1.94E+02
Trichlorofluoromethane	92	45	3.60E+00	-	1.19E+04	-	1.19E+04
Trichlorotrifluoroethane, 1,1,2-, 1,2,2-	92	14	5.00E+00	-	1.05E+01	-	1.05E+01
Vinyl chloride	103	4	1.20E+01	-	1.60E+02	-	1.60E+02
Xylenes (Mixed Isomers)	106	61	2.00E+00	-	9.75E+02	-	9.75E+02

1. ug/m^3 = micrograms per cubic meter

2. The lab reported m,p-xylene and o-xylene separately. These isomers were combined for the purposes of this risk screening.

3. Data includes unique and duplicate samples. Each sample was treated as a discrete data point.

4. The selected EPC for each compound is the maximum detected concentration.

5. Chloroform 95% UCL based on 11 samples/10 detections within an isocontour for 200 ug/m^3 at 20' bgs. Carbon tetrachloride 95% UCL based on 16 samples/16 detections within an isocontour for 25 ug/m^3 at 20' bgs. Tetrachloroethene 95% UCL based on 10 samples/10 detections within an isocontour for 67 ug/m^3 at 5' bgs. 1,1-Dichloroethane 95% UCL based on 12 samples/12 detections within an area where all samples at 20' bgs are greater than 400 ug/m^3. All 95% UCLs are calcuated from samples collected between 10 and 20 feet bgs. A summary of these data is provided in Table 1e.

Table 1e: Summary of Soil Vapor Samples within Core of Discrete VOC Areas within EU2
8996 Etiwanda Avenue, Rancho Cucamonga, California

COPC	Depth of Sample	Total Number of Samples	Number of Detections	Range of Detections (ug/m^3)		
1,1-Dichloroethane	5	8	7	3.7	-	1950
	10	5	5	52	-	2670
	20	7	7	427	-	3290
Carbon tetrachloride	5	10	10	1.5	-	36.1
	10	6	6	8.6	-	12.1
	20	10	10	22.8	-	126
Chloroform	5	6	6	11.9	-	160
	10	6	5	76.6	-	136
	20	5	5	294	-	640
Tetrachloroethene	5	5	5	179	-	1570
	10	4	4	250	-	1900
	20	6	6	373	-	1280

1. ug/m^3 = micrograms per cubic meter
2. 1,1-Dichloroethane 95% UCL based on 12 samples/12 detections within an area where all samples at 20' are greater than 400 ug/m^3.
3. Carbon tetrachloride 95% UCL based on 16 samples/16 detections within an isocontour for 25 ug/m^3 at 20' bgs.
4. Chloroform 95% UCL based on 11 samples/10 detections within an isocontour for 200 ug/m^3 at 20' bgs.
5. Tetrachloroethene 95% UCL based on 10 samples/10 detections within an isocontour for 67 ug/m^3 at 5' bgs.
6. All 95% UCLs were calculated from samples collected between 10 and 20 feet bgs. The 5-foot samples collected by Ardent in 2019 were not included in the 95% UCL calculations in favor of more recent data collected between 10 and 20-feet bgs to better represent current conditions.

Table 2a: Construction Worker Human Health Soil Screening Levels Utilized in the HHSE
8996 Etiwanda Avenue, Rancho Cucamonga, California

CAS	COC	CW Soil Screening Level Cancer	CW Soil Screening Level Non-Cancer	Source of Screening Values
		(mg/kg)	(mg/kg)	
75-34-3	1,1-Dichloroethane	8.5E+01	1.5E+03	DTSC Note 3
90-12-0	1-Methylnaphthalene	1.9E+02	5.3E+03	DTSC Note 3
78-93-3	2-Butanone	NS	4.4E+04	EPA RSLs
591-78-6	2-Hexanone	NS	3.0E+02	EPA RSLs
91-57-6	2-Methylnaphthalene	NS	3.0E+02	DTSC Note 3
108-10-1	4-Methyl-2-pentanone	NS	2.9E+04	EPA RSLs
83-32-9	Acenaphthene	NS	5.7E+03	DTSC Note 3
208-96-8	Acenaphthylene	NS	NS	NA
67-64-1	Acetone	NS	3.1E+05	EPA RSLs
7440-36-0	Antimony	NS	1.2E+02	EPA RSLs
12672-29-6	Aroclor-1248	3.8E+00	2.1E+00	DTSC Note 3
11097-69-1	Aroclor-1254	3.9E+00	2.1E+00	DTSC Note 3
11096-82-5	Aroclor-1260	3.9E+00	2.2E+00	DTSC Note 3
37324-23-5	Aroclor-1262	5.4E+02	3.4E+02	DTSC Note 3
11100-14-4	Aroclor-1268	5.4E+02	3.4E+02	DTSC Note 3
7440-39-3	Barium	NS	2.0E+03	EPA RSLs
71-43-2	Benzene	7.9E+00	9.6E+00	DTSC Note 3
56-55-3	Benzo(a)anthracene	2.8E+03	NS	DTSC Note 3
50-32-8	Benzo(a)pyrene	8.3E+00	6.8E+00	DTSC Note 3
205-99-2	Benzo(b)fluoranthene	8.3E+01	NS	DTSC Note 3
191-24-2	Benzo(g,h,i)perylene	NS	NS	NA
207-08-9	Benzo(k)fluoranthene	6.5E+02	NS	DTSC Note 3
7440-41-7	Beryllium	1.3E+02	2.1E+01	DTSC Note 3
85-68-7	Butyl benzyl phthalate	5.3E+03	2.8E+04	DTSC Note 3
7440-43-9	Cadmium	1.7E+02	1.4E+01	EPA RSLs
75-15-0	Carbon disulfide	NS	7.3E+02	EPA RSLs
16065-83-1	Chromium	NS	5.1E+05	EPA RSLs
218-01-9	Chrysene	6.5E+03	NS	DTSC Note 3
7440-48-4	Cobalt	3.4E+01	2.0E+01	EPA RSLs
7440-50-8	Copper	NS	1.4E+04	EPA RSLs
53-70-3	Dibenz(a,h)anthracene	2.1E+00	NS	DTSC Note 3
64-17-5	Ethanol	NS	NS	NA
100-41-4	Ethylbenzene	1.4E+02	4.0E+03	EPA RSLs
206-44-0	Fluoranthene	NS	4.7E+03	DTSC Note 3
86-73-7	Fluorene	NS	4.2E+03	DTSC Note 3
193-39-5	Indeno(1,2,3-cd)pyrene	8.3E+01	NS	DTSC Note 3
7439-97-6	Mercury	NS	9.3E-01	DTSC Note 3
7439-98-7	Molybdenum	NS	1.4E+03	EPA RSLs
91-20-3	Naphthalene	4.0E+01	1.2E+02	DTSC Note 3
7440-02-0	Nickel	1.2E+03	5.8E+01	DTSC Note 3
PH Diesel C13-C	Petroleum - Diesel	NS	1.1E+06	SFBRWQCB, 2019
H Gasoline C4-C	Petroleum - Gasoline	NS	2.4E+06	SFBRWQCB, 2019
Motor Oil C23-	Petroleum - Motor Oil	NS	NS	SFBRWQCB, 2019
85-01-8	Phenanthrene	NS	NS	NA
99-87-6	p-Isopropyltoluene	NS	NS	NA
129-00-0	Pyrene	NS	3.4E+03	DTSC Note 3
7782-49-2	Selenium	NS	1.7E+03	EPA RSLs
7440-22-4	Silver	NS	1.7E+03	EPA RSLs
75-65-0	tert-Butyl alcohol (TBA)	5.0E+04	6.6E+04	EPA RSLs
7440-28-0	Thallium	NS	3.4E+00	EPA RSLs
108-88-3	Toluene	NS	1.1E+03	DTSC Note 3
7440-62-2	Vanadium	NS	3.4E+02	EPA RSLs
1330-20-7	Xylenes (Mixed Isomers)	NS	5.2E+02	EPA RSLs
7440-66-6	Zinc	NS	1.0E+05	EPA RSLs

1. mg/kg = milligrams per kilogram
2. Screening values based on toxicity values as described in Table 3a and exposure factors as described in DTSC Note 1 (2019). Screening values calculated in EPA the EPA RSL Calculator as shown in Attachment 5.
3. NS = No screening level available/not applicable.
4. No screening values are included for lead and arsenic as exposure to these compounds were evaluated separately.
5. The lab reported m,p-xylene and o-xylene separately. These isomers were combined for the purposes of this risk screening.
6. The COC listed as Petroleum - Gasoline includes carbon ranges C4 - C10 presented by Ardent, TPH-g presented by Pathforward and TPH Gasoline C4-C12 presented by Northgate.
7. The compound listed as Petroleum - Diesel includes carbon ranges C10 - C28 presented by Ardent, TPH-d presented by Pathforward, TPH Diesel C13-C22 presented by Northgate and Diesel Range Organics [C10-C28] presented by Roux.
8. The compound listed as Petroluem - Motor Oil includes carbon ranges C23 - C35 presented by Ardent, TPH-mo presented by Pathforward and TPH Motor Oil C23-C32 presented by Northgate.
9. Toxicity values for Aroclor 1254 were used as a surrogate for Aroclor-1262 and Aroclor 1268 in the screening value calculations. Toxicity values for Aroclor 1254 were used as a surrogate for Aroclor-1260 and Aroclor-1248 in the non-cancer screening value calculations. Toxicity values for chromium (III), insoluble salts, were selected as a surrogate for total chromium.

Table 2b: Commercial/Industrial Worker Human Health Soil Screening Levels Utilized in the HHSE
8996 Etiwanda Avenue, Rancho Cucamonga, California

COC	C/I Soil Screening Level Cancer	C/I Soil Screening Level Non-Cancer	Source of Screening Values
	(mg/kg)	(mg/kg)	
1,1-Dichloroethane	1.6E+01	7.1E+03	DTSC Note 3
1-Methylnaphthalene	3.0E+01	2.2E+04	DTSC Note 3
2-Butanone	NS	1.9E+05	EPA RSLs
2-Hexanone	NS	1.3E+03	EPA RSLs
2-Methylnaphthalene	NS	1.3E+03	DTSC Note 3
4-Methyl-2-pentanone	NS	1.4E+05	EPA RSLs
Acenaphthene	NS	2.3E+04	DTSC Note 3
Acenaphthylene	NS	NS	NA
Acetone	NS	1.1E+06	EPA RSLs
Antimony	NS	4.7E+02	EPA RSLs
Aroclor-1248	5.8E-01	8.4E+00	DTSC Note 3
Aroclor-1254	5.9E-01	8.4E+00	DTSC Note 3
Aroclor-1260	6.0E-01	8.4E+00	DTSC Note 3
Aroclor-1262	5.9E-01	8.4E+00	DTSC Note 3
Aroclor-1268	5.9E-01	8.4E+00	DTSC Note 3
Barium	NS	2.2E+05	EPA RSLs
Benzene	1.4E+00	4.6E+01	DTSC Note 3
Benzo(a)anthracene	1.2E+01	NS	DTSC Note 3
Benzo(a)pyrene	1.3E+00	1.3E+02	DTSC Note 3
Benzo(b)fluoranthene	1.3E+01	NS	DTSC Note 3
Benzo(g,h,i)perylene	NS	NS	NA
Benzo(k)fluoranthene	1.3E+02	NS	DTSC Note 3
Beryllium	6.9E+03	2.3E+02	DTSC Note 3
Butyl benzyl phthalate	7.8E+02	1.1E+05	DTSC Note 3
Cadmium	9.3E+03	1.0E+02	EPA RSLs
Carbon disulfide	NS	3.5E+03	EPA RSLs
Chromium	NS	1.8E+06	EPA RSLs
Chrysene	1.3E+03	NS	DTSC Note 3
Cobalt	1.9E+03	3.5E+02	EPA RSLs
Copper	NS	4.7E+04	EPA RSLs
Dibenz(a,h)anthracene	3.1E-01	NS	DTSC Note 3
Ethanol	NS	NS	NA
Ethylbenzene	2.5E+01	1.7E+04	EPA RSLs
Fluoranthene	NS	1.8E+04	DTSC Note 3
Fluorene	NS	1.7E+04	DTSC Note 3
Indeno(1,2,3-cd)pyrene	1.3E+01	NS	DTSC Note 3
Mercury	NS	4.4E+00	DTSC Note 3
Molybdenum	NS	5.8E+03	EPA RSLs
Naphthalene	6.5E+00	5.7E+02	DTSC Note 3
Nickel	6.4E+04	1.1E+04	DTSC Note 3
Petroleum - Diesel	NS	1.2E+03	SFBRWQCB, 2019
Petroleum - Gasoline	NS	2.0E+03	SFBRWQCB, 2019
Petroleum - Motor Oil	NS	1.8E+05	SFBRWQCB, 2019
Phenanthrene	NS	NS	NA
p-Isopropyltoluene	NS	NS	NA
Pyrene	NS	1.3E+04	DTSC Note 3
Selenium	NS	5.8E+03	EPA RSLs
Silver	NS	5.8E+03	EPA RSLs
tert-Butyl alcohol (TBA)	6.5E+03	2.7E+05	EPA RSLs
Thallium	NS	1.2E+01	EPA RSLs
Toluene	NS	5.3E+03	DTSC Note 3
Vanadium	NS	5.8E+03	EPA RSLs
Xylenes (Mixed Isomers)	NS	2.5E+03	EPA RSLs
Zinc	NS	3.5E+05	EPA RSLs

1. mg/kg = milligrams per kilogram
2. Screening values based on DTSC HHRA Note 3 (DTSC, 2022) or USEPA's May 2023 RSLs (USEPA, 2023). Screening values for TPH based on SFBRWQCB 2019 ESLs (SFBRWQCB, 2019).
3. NS = No screening level available/not applicable.
4. No screening values are included for lead and arsenic as exposure to these compounds were evaluated separately.
5. The lab reported m,p-xylene and o-xylene separately. These isomers were combined for the purposes of this risk screening.
6. The COC listed as Petroluem - Gasoline includes carbon ranges C4 - C10 presented by Ardent, TPH-g presented by Pathforward and TPH Gasoline C4-C12 presented by Northgate.
7. The compound listed as Petroluem - Diesel includes carbon ranges C10 - C28 presented by Ardent, TPH-d presented by Pathforward, TPH Diesel C13-C22 presented by Northgate and Diesel Range Organics [C10-C28] presented by Roux.
8. The compound listed as Petroluem - Motor Oil includes carbon ranges C23 - C35 presented by Ardent, TPH-mo presented by Pathforward and TPH Motor Oil C23-C32 presented by Northgate.
9. Non-cancer and cancer screening values for Aroclor 1254 were used as a surrogate for Aroclor-1262 and Aroclor 1268 screening values and the non-cancer screening value for Aroclor 1254 was used as a surrogate for Aroclor-1260 and Aroclor-1248. The USEPA 2023 RSLs for chromium (III), insoluble salts, were selected as a surrogate for total chromium.

Table 2c: Commercial/Industrial Worker Human Health Indoor Air Screening Levels Utilized in the HHSE
8996 Etiwanda Avenue, Rancho Cucamonga, California

COC	C/I Indoor Air Cancer Screening Level ($\mu g/m^3$)	C/I Indoor Air Non-Cancer Screening Level ($\mu g/m^3$)	Source of Screening Values
1,1,1-Trichloroethane	NS	4.4E+03	DTSC Note 3
1,1,2-Trichloroethane	7.7E-01	8.8E-01	EPA RSLs
1,1-Dichloroethane	7.7E+00	3.5E+03	DTSC Note 3
1,1-Dichloroethene	NS	3.1E+02	DTSC Note 3
1,2,4-Trimethylbenzene	NS	2.6E+02	EPA RSLs
1,2-Dichloroethane	4.7E-01	3.1E+01	EPA RSLs
1,3,5-Trimethylbenzene	NS	2.6E+02	EPA RSLs
4-Isopropyltoluene	NS	NS	NA
Benzene	4.2E-01	1.3E+01	DTSC Note 3
Bromodichloromethane	3.3E-01	3.5E+02	DTSC Note 3
Bromoform	1.1E+01	3.5E+02	DTSC Note 3
Carbon tetrachloride	2.0E+00	1.8E+02	DTSC Note 3
Chlorobenzene	NS	2.2E+02	EPA RSLs
Chloroform	5.3E-01	4.3E+02	EPA RSLs
cis-1,2-Dichloroethene	NS	3.5E+01	DTSC Note 3
Dibromochloromethane	5.8E-01	3.5E+02	DTSC Note 3
Dichlorodifluoromethane	NS	4.4E+02	EPA RSLs
Ethylbenzene	4.9E+00	4.4E+03	EPA RSLs
Isopropylbenzene	NS	1.8E+03	EPA RSLs
Naphthalene	3.6E-01	1.3E+01	EPA RSLs
n-Propylbenzene	NS	4.4E+03	EPA RSLs
Styrene	NS	3.9E+03	DTSC Note 3
tert-Butyl alcohol	NS	2.2E+04	EPA RSLs
Tetrachloroethene	2.0E+00	1.8E+02	DTSC Note 3
Toluene	NS	1.3E+03	DTSC Note 3
Trichloroethene	3.0E+00	8.8E+00	EPA RSLs
Trichlorofluoromethane	NS	5.3E+03	DTSC Note 3
Trichlorotrifluoroethane, 1,1,2-, 1,2,2-	NS	2.2E+04	EPA RSLs
Vinyl chloride	1.6E-01	4.4E+02	DTSC Note 3
Xylenes (Mixed Isomers)	NS	4.4E+02	EPA RSLs

1. ug/m^3 = micrograms per cubic meter
2. Screening values based on DTSC HHRA Note 3 (DTSC, 2022) or USEPA's May 2023 RSLs (USEPA, 2023).
3. NS = No screening level available/not applicable.
4. The lab reported m,p-xylene and o-xylene separately. These isomers were combined for the purposes of this risk screening.
5. Screening levels for 4-isopropyltoluene were not available.

Table 3a: Human Health Soil Toxicity Values Utilized in the HHSE
8996 Etiwanda Avenue, Rancho Cucamonga, California

CAS	COC	Non-Cancer Reference Dose (RfD)	Cancer Oral Slope Factor (SF)	Non-Cancer Inhalation Reference Concentration (RfC)	Cancer Inhalation Unit Risk (IUR)	Source
		(mg/kg-day)	$(mg/kg\text{-}day)^{-1}$	$(\mu g/m^3)$	$(\mu g/m^3)^{-1}$	
75-34-3	1,1-Dichloroethane	2.0E-01	5.7E-03	8.0E+02	1.6E-06	DTSC Note 10
90-12-0	1-Methylnaphthalene	7.0E-02	2.9E-02	2.8E+02	7.3E-06	DTSC Note 10
78-93-3	2-Butanone	6.0E-01	NA	5.0E+03	NA	EPA RSLs
591-78-6	2-Hexanone	5.0E-03	NA	3.0E+01	NA	EPA RSLs
91-57-6	2-Methylnaphthalene	4.0E-03	NA	1.6E+01	NA	DTSC Note 10
108-10-1	4-Methyl-2-pentanone	NA	NA	3.0E+03	NA	EPA RSLs
83-32-9	Acenaphthene	6.0E-02	NA	2.4E+02	NA	DTSC Note 10
208-96-8	Acenaphthylene	NA	NA	NA	NA	NA
67-64-1	Acetone	9.0E-01	NA	NA	NA	EPA RSLs
7440-36-0	Antimony	4.0E-04	NA	3.0E-01	NA	EPA RSLs
12672-29-6	Aroclor-1248	2.0E-05	2.0E+00	8.0E-02	5.7E-04	DTSC Note 10
11097-69-1	Aroclor-1254	2.0E-05	2.0E+00	8.0E-02	5.7E-04	DTSC Note 10
11096-82-5	Aroclor-1260	2.0E-05	2.0E+00	8.0E-02	5.7E-04	DTSC Note 10
37324-23-5	Aroclor-1262	2.0E-05	2.0E+00	8.0E-02	5.7E-04	DTSC Note 10
11100-14-4	Aroclor-1268	2.0E-05	2.0E+00	8.0E-02	5.7E-04	DTSC Note 10
7440-39-3	Barium	2.0E-01	NA	5.0E-01	NA	EPA RSLs
71-43-2	Benzene	4.0E-03	1.0E-01	3.0E+00	2.9E-05	DTSC Note 10
56-55-3	Benzo(a)anthracene	NA	1.0E-01	NA	1.1E-04	DTSC Note 10
50-32-8	Benzo(a)pyrene	3.0E-04	1.0E+00	2.0E-03	1.1E-03	DTSC Note 10
205-99-2	Benzo(b)fluoranthene	NA	1.0E-01	NA	1.1E-04	DTSC Note 10
191-24-2	Benzo(g,h,i)perylene	NA	NA	NA	NA	NA
207-08-9	Benzo(k)fluoranthene	NA	1.0E-02	NA	1.1E-04	DTSC Note 10
7440-41-7	Beryllium	2.0E-04	NA	7.0E-03	2.4E-03	DTSC Note 10
85-68-7	Butyl benzyl phthalate	2.0E-01	1.9E-03	NA	NA	DTSC Note 10
7440-43-9	Cadmium	1.0E-04	NA	1.0E-02	1.8E-03	EPA RSLs
75-15-0	Carbon disulfide	1.0E-01	NA	7.0E+02	NA	EPA RSLs
16065-83-1	Chromium	1.5E+00	NA	NA	NA	EPA RSLs
218-01-9	Chrysene	NA	1.0E-03	NA	1.1E-05	DTSC Note 10
7440-48-4	Cobalt	3.0E-04	NA	6.0E-03	9.0E-03	EPA RSLs
7440-50-8	Copper	4.0E-02	NA	NA	NA	EPA RSLs
53-70-3	Dibenz(a,h)anthracene	NA	4.1E+00	NA	1.2E-03	DTSC Note 10
64-17-5	Ethanol	NA	NA	NA	NA	NA
100-41-4	Ethylbenzene	5.0E-02	1.1E-02	1.0E+03	2.5E-06	EPA RSLs
206-44-0	Fluoranthene	4.0E-02	NA	NA	NA	DTSC Note 10
86-73-7	Fluorene	4.0E-02	NA	1.6E+02	NA	DTSC Note 10
193-39-5	Indeno(1,2,3-cd)pyrene	NA	1.0E-01	NA	1.1E-04	DTSC Note 10
7439-97-6	Mercury	1.6E-04	NA	3.0E-02	NA	DTSC Note 10
7439-98-7	Molybdenum	5.0E-03	NA	2.0E+00	NA	EPA RSLs
91-20-3	Naphthalene	2.0E-02	1.2E-01	3.0E+00	3.4E-05	DTSC Note 10
7440-02-0	Nickel	1.1E-02	NA	1.4E-02	2.6E-04	DTSC Note 10
l Diesel C13-	Petroleum - Diesel	1.9E-02	NA	2.6E+02	NA	SFBRWQCB, 2019
Gasoline C4	Petroleum - Gasoline	3.9E-02	NA	5.7E+02	NA	SFBRWQCB, 2019
Motor Oil C2	Petroleum - Motor Oil	1.5E-01	NA	NA	NA	SFBRWQCB, 2019
85-01-8	Phenanthrene	NA	NA	NA	NA	NA
99-87-6	p-Isopropyltoluene	NA	NA	NA	NA	NA
129-00-0	Pyrene	3.0E-02	NA	1.2E+02	NA	DTSC Note 10
7782-49-2	Selenium	5.0E-03	NA	2.0E+01	NA	EPA RSLs
7440-22-4	Silver	5.0E-03	NA	NA	NA	EPA RSLs
75-65-0	tert-Butyl alcohol (TBA)	4.0E-01	5.0E-04	5.0E+03	NA	EPA RSLs
7440-28-0	Thallium	1.0E-05	NA	NA	NA	EPA RSLs
108-88-3	Toluene	8.0E-02	NA	3.0E+02	NA	DTSC Note 10
7440-62-2	Vanadium	5.0E-03	NA	1.0E-01	NA	EPA RSLs
1330-20-7	Xylenes (Mixed Isomers)	2.0E-01	NA	1.0E+02	NA	EPA RSLs
7440-66-6	Zinc	3.0E-01	NA	NA	NA	EPA RSLs

1. mg/kg = milligrams per kilogram; ug/m^3 = micrograms per cubic meter
2. Toxicity values based on DTSC HHRA Note 10 (DTSC, 2019a) or USEPA RSLs (USEPA, 2023; TR of 1E-06 and THQ of 1.0; dated May 2023) as indicated above. TPH toxicity values based on SFBRWQCB 2019 ESLs (SFBRWQCB, 2019).
3. NA = toxicity information for compound is available/not applicable.
4. No toxicity values are included for lead and arsenic as exposure to these compounds were evaluated separately.
5. The lab reported m,p-xylene and o-xylene separately. These isomers were combined for the purposes of this risk screening.
6. The COC listed as Petroluem - includes carbon ranges C4 - C10 presented by Ardent, TPH-g presented by Pathforward and TPH Gasoline C4-C12 presented by Northgate.
7. The compound listed as Petroluem - Diesel includes carbon ranges C10 - C28 presented by Ardent, TPH-d presented by Pathforward, TPH Diesel C13-C22 presented by Northgate and Diesel Range Organics [C10-C28] presented by Roux.
8. The compound listed as Petroluem - Motor Oil includes carbon ranges C23 - C35 presented by Ardent, TPH-mo presented by Pathforward and TPH Motor Oil C23-C32 presented by Northgate.
9. Toxicity values for acenaphthylene, Aroclor-1262, Aroclor 1268, benzo(g,h,i)perylene, ethanol, phenanthrene and p-isopropyltoluene were not available. Toxicity values for Aroclor 1254 were used as a surrogate for Aroclor-1262 and Aroclor 1268. Toxicity values for Aroclor 1254 were also used for the RfD and RfC for Aroclor 1248 and 1260.

Table 3b: Commercial/Industrial Worker Human Health Indoor Air Toxicity Values
8996 Etiwanda Avenue, Rancho Cucamonga, California

Commerical/Industrial Worker Human Health Indoor Air Toxicity Values

COC	Non-Cancer Inhalation Reference Concentration (RfC) ($\mu g/m^3$)	Cancer Inhalation Unit Risk (IUR) $(\mu g/m^3)^{-1}$	Source	COC Whole Site
1,1,1-Trichloroethane	1.0E+03	NA	DTSC Note 10	Yes
1,1,2-Trichloroethane	2.0E-01	1.6E-05	EPA RSLs	Yes
1,1-Dichloroethane	8.0E+02	1.6E-06	DTSC Note 10	Yes
1,1-Dichloroethene	7.0E+01	NA	DTSC Note 10	Yes
1,2,4-Trimethylbenzene	6.0E+01	NA	EPA RSLs	Yes
1,2-Dichloroethane	7.0E+00	2.6E-05	EPA RSLs	Yes
1,3,5-Trimethylbenzene	6.0E+01	NA	EPA RSLs	Yes
4-Isopropyltoluene	NA	NA	NA	Yes
Benzene	3.0E+00	2.9E-05	DTSC Note 10	Yes
Bromodichloromethane	8.0E+01	3.7E-05	DTSC Note 10	Yes
Bromoform	8.0E+01	1.1E-06	DTSC Note 10	Yes
Carbon tetrachloride	4.0E+01	6.0E-06	DTSC Note 10	Yes
Chlorobenzene	5.0E+01	NA	EPA RSLs	Yes
Chloroform	9.8E+01	2.3E-05	EPA RSLs	Yes
cis-1,2-Dichloroethene	8.0E+00	NA	DTSC Note 10	Yes
Dibromochloromethane	8.0E+01	2.1E-05	DTSC Note 10	Yes
Dichlorodifluoromethane	1.0E+02	NA	EPA RSLs	Yes
Ethylbenzene	1.0E+03	2.5E-06	EPA RSLs	Yes
Isopropylbenzene	4.0E+02	NA	EPA RSLs	Yes
Naphthalene	3.0E+00	3.4E-05	EPA RSLs	Yes
n-Propylbenzene	1.0E+03	NA	EPA RSLs	Yes
Styrene	9.0E+02	NA	DTSC Note 10	Yes
tert-Butyl alcohol	5.0E+03	NA	EPA RSLs	Yes
Tetrachloroethene	4.0E+01	6.1E-06	DTSC Note 10	Yes
Toluene	3.0E+02	NA	DTSC Note 10	Yes
Trichloroethene	2.0E+00	4.1E-06	EPA RSLs	Yes
Trichlorofluoromethane	1.2E+03	NA	DTSC Note 10	Yes
Trichlorotrifluoroethane, 1,1,2-, 1,2,2-	5.0E+03	NA	EPA RSLs	Yes
Vinyl chloride	1.0E+02	7.8E-05	DTSC Note 10	Yes
Xylenes (Mixed Isomers)	1.0E+02	NA	EPA RSLs	Yes

1. ug/m^3 = micrograms per cubic meter
2. Toxicity values based on DTSC HHRA Note 10 (DTSC, 2019a) or USEPA RSLs (USEPA, 2023; TR of 1E-06 and THQ of 1.0; dated May 2023) as indicated above.
3. NA = toxicity information for compound is available/not applicable.
4. The lab reported m,p-xylene and o-xylene separately. These isomers were combined for the purposes of this risk screening.
5. Toxicity values for 4-isopropyltoluene were not available.

Table 4a:Summary of Hazard Indices and Incremental Lifetime Cancer Risk Estimates: Future Indoor Commercial/Industrial Indoor Air (EU1) AF 0.03
8996 Etiwanda Avenue, Rancho Cucamonga, California

Compound	Cas No.	Soil Vapor EPC ($\mu g/m^3$)	Attenuation Factor (AF)	Indoor Air EPC ($\mu g/m^3$)	Commercial/Industrial Screening Level Cancer ($\mu g/m^3$)	Commercial/Industrial Screening Level Non-Cancer ($\mu g/m^3$)	Incremental Lifetime Cancer Risk (ILCR)	Hazard Quotient (HQ)
		(1)			(2)		(3)	(4)
1,1,1-Trichloroethane	71-55-6	1.24E+01	3.00E-02	3.72E-01	NS	4.40E+03	--	8E-05
1,2,4-Trimethylbenzene	95-63-6	7.61E+01	3.00E-02	2.28E+00	NS	2.60E+02	--	9E-03
1,3,5-Trimethylbenzene	108-67-8	1.96E+01	3.00E-02	5.88E-01	NS	2.60E+02	--	2E-03
4-Isopropyltoluene	99-87-6	2.97E+01	3.00E-02	8.91E-01	NS	NS	--	--
Benzene	71-43-2	1.64E+01	3.00E-02	4.92E-01	4.20E-01	1.30E+01	1E-06	4E-02
Chloroform	67-66-3	1.27E+01	3.00E-02	3.81E-01	5.30E-01	4.30E+02	7E-07	9E-04
Dichlorodifluoromethane	75-71-8	7.70E+00	3.00E-02	2.31E-01	NS	4.40E+02	--	5E-04
Ethylbenzene	100-41-4	3.51E+01	3.00E-02	1.05E+00	4.90E+00	4.40E+03	2E-07	2E-04
Isopropylbenzene	98-82-8	4.60E+01	3.00E-02	1.38E+00	NS	1.80E+03	--	8E-04
n-Propylbenzene	103-65-1	9.00E+00	3.00E-02	2.70E-01	NS	4.40E+03	--	6E-05
Styrene	100-42-5	4.10E+00	3.00E-02	1.23E-01	NS	3.90E+03	--	3E-05
Tetrachloroethene	127-18-4	3.17E+02	3.00E-02	9.51E+00	2.00E+00	1.80E+02	5E-06	5E-02
Toluene	108-88-3	3.95E+03	3.00E-02	1.19E+02	NS	1.30E+03	--	9E-02
Xylenes (Mixed Isomers)	1330-20-7	2.49E+02	3.00E-02	7.46E+00	NS	4.40E+02	--	2E-02
						Total:	**7E-06**	**2E-01**

Notes:
(1) Indoor Air Exposure Point Concentration (EPC) = soil gas concentration (µg/m3)*AF where AF=steady state attenuation factor. AF assumed to be equal to 0.03 for Soil Gas in Table: Medium-Specific Attenuation Factors for VI to Indoor Air. DTSC's Supplemental Guidance: Screening and Evaluating Vapor Intrusion (Draft for Public Comments). February 2020.
(3) Incremental Lifetime Cancer Risk (ILCR)=EPC/SL*1E-06
(4) Hazard Quotient (HQ) = EPC/ SL
(5) NS = No Standard, -- = No Risk Estimate
(6) $\mu g/m^3$ = micrograms per cubic meter

Table 4b: Summary of Hazard Indices and Incremental Lifetime Cancer Risk Estimates: Future Indoor Commercial/Industrial Indoor Air (EU2) AF 0.03
8996 Etiwanda Avenue, Rancho Cucamonga, California

Compound	Cas No.	Soil Vapor EPC ($\mu g/m^3$)	Attenuation Factor (AF)	Indoor Air EPC ($\mu g/m^3$)	Commercial/Industrial Screening Level Cancer ($\mu g/m^3$)	Commercial/Industrial Screening Level Non-Cancer ($\mu g/m^3$)	Incremental Lifetime Cancer Risk (ILCR)	Hazard Quotient (HQ)	Target Organ
		(1)			(2)		(3)	(4)	
1,1,1-Trichloroethane	71-55-6	2.95E+03	3.00E-02	8.85E+01	NS	4.40E+03	--	2E-02	Hepatic
1,1,2-Trichloroethane	79-00-5	3.46E+01	3.00E-02	1.04E+00	7.70E-01	8.80E-01	1E-06	1E+00	Nasal
1,1-Dichloroethane	75-34-3	1.82E+03	3.00E-02	5.45E+01	7.70E+00	3.50E+03	7E-06	2E-02	Neurological/Nervous System & Cardiovascular
1,1-Dichloroethene	75-35-4	1.02E+03	3.00E-02	3.06E+01	NS	3.10E+02	--	1E-01	Hepatic
1,2,4-Trimethylbenzene	95-63-6	5.87E+01	3.00E-02	1.76E+00	NS	2.60E+02	--	7E-03	Neurological/Nervous System
1,2-Dichloroethane	107-06-2	2.12E+01	3.00E-02	6.36E-01	4.70E-01	3.10E+01	1E-06	2E-02	Neurological/Nervous System
1,3,5-Trimethylbenzene	108-67-8	2.14E+01	3.00E-02	6.42E-01	NS	2.60E+02	--	2E-03	Neurological/Nervous System
4-Isopropyltoluene	99-87-6	1.68E+02	3.00E-02	5.04E+00	NS	NS	--	--	-
Benzene	71-43-2	1.90E+01	3.00E-02	5.70E-01	4.20E-01	1.30E+01	1E-06	4E-02	Blood
Bromodichloromethane	75-27-4	2.70E+01	3.00E-02	8.10E-01	3.30E-01	3.50E+02	2E-06	2E-03	Renal
Bromoform	75-25-2	9.00E+00	3.00E-02	2.70E-01	1.10E+01	3.50E+02	2E-08	8E-04	Hepatic
Carbon tetrachloride	56-23-5	4.83E+01	3.00E-02	1.45E+00	2.00E+00	1.80E+02	7E-07	8E-03	Hepatic
Chlorobenzene	108-90-7	3.40E+00	3.00E-02	1.02E-01	NS	2.20E+02	--	5E-04	Hepatic/Renal
Chloroform	67-66-3	3.69E+02	3.00E-02	1.11E+01	5.30E-01	4.30E+02	2E-05	3E-02	Hepatic
cis-1,2-Dichloroethene	156-59-2	6.50E+00	3.00E-02	1.95E-01	NS	3.50E+01	--	6E-03	Immune System
Dibromochloromethane	124-48-1	1.80E+01	3.00E-02	5.40E-01	5.80E-01	3.50E+02	9E-07	2E-03	Hepatic
Dichlorodifluoromethane	75-71-8	3.84E+01	3.00E-02	1.15E+00	NS	4.40E+02	--	3E-03	Whole Body
Ethylbenzene	100-41-4	3.19E+02	3.00E-02	9.57E+00	4.90E+00	4.40E+03	2E-06	2E-03	Developmental
Isopropylbenzene	98-82-8	1.20E+01	3.00E-02	3.60E-01	NS	1.80E+03	--	2E-04	Renal
m,p-Xylene	179601-23-	8.16E+02	3.00E-02	2.45E+01	NS	NS	--	--	Neurological/Nervous System
Naphthalene	91-20-3	1.73E+01	3.00E-02	5.19E-01	3.60E-01	1.30E+01	1E-06	4E-02	Neurological/Nervous System & Respiratory
n-Propylbenzene	103-65-1	9.10E+00	3.00E-02	2.73E-01	NS	4.40E+03	--	6E-05	Developmental
o-Xylene	95-47-6	1.59E+02	3.00E-02	4.77E+00	NS	4.40E+02	--	1E-02	Neurological/Nervous System
Styrene	100-42-5	4.00E+01	3.00E-02	1.20E+00	NS	3.90E+03	--	3E-04	Neurological/Nervous System
tert-Butyl alcohol	75-65-0	2.36E+04	3.00E-02	7.08E+02	NS	2.20E+04	--	3E-02	Renal
Tetrachloroethene	127-18-4	1.22E+03	3.00E-02	3.65E+01	2.00E+00	1.80E+02	2E-05	2E-01	Neurological/Nervous System
Toluene	108-88-3	1.55E+02	3.00E-02	4.65E+00	NS	1.30E+03	--	4E-03	Neurological/Nervous System
Trichloroethene	79-01-6	1.94E+02	3.00E-02	5.82E+00	3.00E+00	8.80E+00	2E-06	7E-01	Immune System
Trichlorofluoromethane	75-69-4	1.19E+04	3.00E-02	3.57E+02	NS	5.30E+03	--	7E-02	Cardiovascular & Respiratory
Trichlorotrifluoroethane, 1,1	76-13-1	1.05E+01	3.00E-02	3.15E-01	NS	2.20E+04	--	1E-05	Neurological/Nervous System
Vinyl chloride	75-01-4	1.60E+02	3.00E-02	4.80E+00	1.60E-01	4.40E+02	3E-05	1E-02	Hepatic
Xylenes (Mixed Isomers)	1330-20-7	9.75E+02	3.00E-02	2.93E+01	NS	4.40E+02	--	7E-02	Neurological/Nervous System
						Total:	**9E-05**	**3E+00**	
						Blood HI:	--	**4E-02**	
						Cardiovascular HI:	--	**8E-02**	
						Developmental HI:	--	**2E-03**	
						Hepatic HI:	--	**2E-01**	
						Immune System HI:	--	**7E-01**	
						Nasal HI:	--	**1E+00**	
						Neurological/Nervous System HI:	--	**4E-01**	
						Renal HI:	--	**4E-02**	
						Respiratory HI:	--	**1E-01**	
						Whole Body HI:	--	**3E-03**	

Notes:

(1) Indoor Air Exposure Point Concentration (EPC) = soil gas concentration ($\mu g/m^3$)*AF where AF=steady state attenuation factor. AF assumed to be equal to 0.03 for Soil Gas in Table: Medium-Specific Attenuation Factors for VI to Indoor Air. DTSC's Supplemental Guidance: Screening and Evaluating Vapor Intrusion (Draft for Public Comments). February 2020.

(2) Commercial/Industrial Screening Levels (SL) as provided in Table 2c; utilized Human Health Risk Assessment Note 3: DTSC-Modified Screening Levels found in HHRA-Note-3-Tables-June2020-Revised-May2022A.xlsx. revised May 2022, and USEPA Regional Screening Levels (RSLs) dated May 2023 when unavailable in Note 3. USEPA RSLs utilize a Target ILCR of 1E-06 and a Target HI of 1.

(3) Incremental Lifetime Cancer Risk (ILCR)=EPC/SL*1E-06

(4) Hazard Quotient (HQ) = EPC/ SL

(5) NS = No Standard, -- = No Risk Estimate

(6) $\mu g/m^3$ = micrograms per cubic meter

(7) Target endpoints as described in the RSL calculator metadata for RfC (which drives the indoor worker exposure). When a target organ is not listed the RSL calculator metadata, the system described in the IRIS database is utilized; when an RfC target organ was not available the RfD target organ was utilized. 1,1-Dichloroethane target organs from acute exposures were identified in the current ATSDR toxicological profile; no chronic exposures were available.

Table 4c: Summary of Hazard Indices and Incremental Lifetime Cancer Risk Estimates: Future Indoor Commercial/Industrial Indoor Air (EU1) AF 0.003
8996 Etiwanda Avenue, Rancho Cucamonga, California

Compound	Cas No.	Soil Vapor EPC ($\mu g/m^3$)	Attenuation Factor (AF)	Indoor Air EPC ($\mu g/m^3$)	Commercial/Industrial Screening Level Cancer ($\mu g/m^3$)	Commercial/Industrial Screening Level Non-Cancer ($\mu g/m^3$)	Incremental Lifetime Cancer Risk (ILCR)	Hazard Quotient (HQ)
		(1)			(2)		(3)	(4)
1,1,1-Trichloroethane	71-55-6	1.24E+01	3.00E-03	3.72E-02	NS	4.40E+03	--	8E-06
1,2,4-Trimethylbenzene	95-63-6	7.61E+01	3.00E-03	2.28E-01	NS	2.60E+02	--	9E-04
1,3,5-Trimethylbenzene	108-67-8	1.96E+01	3.00E-03	5.88E-02	NS	2.60E+02	--	2E-04
4-Isopropyltoluene	99-87-6	2.97E+01	3.00E-03	8.91E-02	NS	NS	--	--
Benzene	71-43-2	1.64E+01	3.00E-03	4.92E-02	4.20E-01	1.30E+01	1E-07	4E-03
Chloroform	67-66-3	1.27E+01	3.00E-03	3.81E-02	5.30E-01	4.30E+02	7E-08	9E-05
Dichlorodifluoromethane	75-71-8	7.70E+00	3.00E-03	2.31E-02	NS	4.40E+02	--	5E-05
Ethylbenzene	100-41-4	3.51E+01	3.00E-03	1.05E-01	4.90E+00	4.40E+03	2E-08	2E-05
Isopropylbenzene	98-82-8	4.60E+01	3.00E-03	1.38E-01	NS	1.80E+03	--	8E-05
n-Propylbenzene	103-65-1	9.00E+00	3.00E-03	2.70E-02	NS	4.40E+03	--	6E-06
Styrene	100-42-5	4.10E+00	3.00E-03	1.23E-02	NS	3.90E+03	--	3E-06
Tetrachloroethene	127-18-4	3.17E+02	3.00E-03	9.51E-01	2.00E+00	1.80E+02	5E-07	5E-03
Toluene	108-88-3	3.95E+03	3.00E-03	1.19E+01	NS	1.30E+03	--	9E-03
Xylenes (Mixed Isomers)	1330-20-7	2.49E+02	3.00E-03	7.46E-01	NS	4.40E+02	--	2E-03
						Total:	**7E-07**	**2E-02**

Notes:

(1) Indoor Air Exposure Point Concentration (EPC) = soil gas concentration ($\mu g/m^3$)*AF where AF=steady state attenuation factor. AF assumed to be equal to 0.003 for Soil Gas as found in the median value calculated in EPA's Vapor Intrusion Database: Evaluation and Characterization of Attenuation Factors for Chlorinated Volatile Organic Compounds and Residential Buildings. EPA 530-R-10-002. March 16, 2005.

(2) Commercial/Industrial Screening Levels (SL) as provided in Table 2c; utilized Human Health Risk Assessment Note 3: DTSC-Modified Screening Levels found in HHRA-Note-3-Tables-June2020-Revised-May2022A.xlsx. revised May 2022, and USEPA Regional Screening Levels (RSLs) dated May 2023 when unavailable in Note 3. USEPA RSLs utilize a Target ILCR of 1E-06 and a Target HI of 1.

(3) Incremental Lifetime Cancer Risk (ILCR)=EPC/SL*1E-06

(4) Hazard Quotient (HQ) = EPC/ SL

(5) NS = No Standard, -- = No Risk Estimate

(6) $\mu g/m^3$ = micrograms per cubic meter

Table 4d: Summary of Hazard Indices and Incremental Lifetime Cancer Risk Estimates: Future Indoor Commercial/Industrial Indoor Air (EU2) AF 0.003
8996 Etiwanda Avenue, Rancho Cucamonga, California

Compound	Cas No.	Soil Vapor EPC ($\mu g/m^3$)	Attenuation Factor (AF)	Indoor Air EPC ($\mu g/m^3$)	Commercial/Industrial Screening Level Cancer ($\mu g/m^3$)	Commercial/Industrial Screening Level Non-Cancer ($\mu g/m^3$)	Incremental Lifetime Cancer Risk (ILCR)	Hazard Quotient (HQ)
		(1)			(2)		(3)	(4)
1,1,1-Trichloroethane	71-55-6	2.95E+03	3.00E-03	8.85E+00	NS	4.40E+03	--	2E-03
1,1,2-Trichloroethane	79-00-5	3.46E+01	3.00E-03	1.04E-01	7.70E-01	8.80E-01	1E-07	1E-01
1,1-Dichloroethane	75-34-3	1.82E+03	3.00E-03	5.45E+00	7.70E+00	3.50E+03	7E-07	2E-03
1,1-Dichloroethene	75-35-4	1.02E+03	3.00E-03	3.06E+00	NS	3.10E+02	--	1E-02
1,2,4-Trimethylbenzene	95-63-6	5.87E+01	3.00E-03	1.76E-01	NS	2.60E+02	--	7E-04
1,2-Dichloroethane	107-06-2	2.12E+01	3.00E-03	6.36E-02	4.70E-01	3.10E+01	1E-07	2E-03
1,3,5-Trimethylbenzene	108-67-8	2.14E+01	3.00E-03	6.42E-02	NS	2.60E+02	--	2E-04
4-Isopropyltoluene	99-87-6	1.68E+02	3.00E-03	5.04E-01	NS	NS	--	--
Benzene	71-43-2	1.90E+01	3.00E-03	5.70E-02	4.20E-01	1.30E+01	1E-07	4E-03
Bromodichloromethane	75-27-4	2.70E+01	3.00E-03	8.10E-02	3.30E-01	3.50E+02	2E-07	2E-04
Bromoform	75-25-2	9.00E+00	3.00E-03	2.70E-02	1.10E+01	3.50E+02	2E-09	8E-05
Carbon tetrachloride	56-23-5	4.83E+01	3.00E-03	1.45E-01	2.00E+00	1.80E+02	7E-08	8E-04
Chlorobenzene	108-90-7	3.40E+00	3.00E-03	1.02E-02	NS	2.20E+02	--	5E-05
Chloroform	67-66-3	3.69E+02	3.00E-03	1.11E+00	5.30E-01	4.30E+02	2E-06	3E-03
cis-1,2-Dichloroethene	156-59-2	6.50E+00	3.00E-03	1.95E-02	NS	3.50E+01	--	6E-04
Dibromochloromethane	124-48-1	1.80E+01	3.00E-03	5.40E-02	5.80E-01	3.50E+02	9E-08	2E-04
Dichlorodifluoromethane	75-71-8	3.84E+01	3.00E-03	1.15E-01	NS	4.40E+02	--	3E-04
Ethylbenzene	100-41-4	3.19E+02	3.00E-03	9.57E-01	4.90E+00	4.40E+03	2E-07	2E-04
Isopropylbenzene	98-82-8	1.20E+01	3.00E-03	3.60E-02	NS	1.80E+03	--	2E-05
Naphthalene	91-20-3	1.73E+01	3.00E-03	5.19E-02	3.60E-01	1.30E+01	1E-07	4E-03
n-Propylbenzene	103-65-1	9.10E+00	3.00E-03	2.73E-02	NS	4.40E+03	--	6E-06
Styrene	100-42-5	4.00E+01	3.00E-03	1.20E-01	NS	3.90E+03	--	3E-05
tert-Butyl alcohol	75-65-0	2.36E+04	3.00E-03	7.08E+01	NS	2.20E+04	--	3E-03
Tetrachloroethene	127-18-4	1.22E+03	3.00E-03	3.65E+00	2.00E+00	1.80E+02	2E-06	2E-02
Toluene	108-88-3	1.55E+02	3.00E-03	4.65E-01	NS	1.30E+03	--	4E-04
Trichloroethene	79-01-6	1.94E+02	3.00E-03	5.82E-01	3.00E+00	8.80E+00	2E-07	7E-02
Trichlorofluoromethane	75-69-4	1.19E+04	3.00E-03	3.57E+01	NS	5.30E+03	--	7E-03
Trichlorotrifluoroethane, 1,1,2-, 1,2,2-	76-13-1	1.05E+01	3.00E-03	3.15E-02	NS	2.20E+04	--	1E-06
Vinyl chloride	75-01-4	1.60E+02	3.00E-03	4.80E-01	1.60E-01	4.40E+02	3E-06	1E-03
Xylenes (Mixed Isomers)	1330-20-7	9.75E+02	3.00E-03	2.93E+00	NS	4.40E+02	--	7E-03
						Total:	**9E-06**	**3E-01**

Notes:

(1) Indoor Air Exposure Point Concentration (EPC) = soil gas concentration ($\mu g/m^3$)*AF where AF=steady state attenuation factor. AF assumed to be equal to 0.003 for Soil Gas as found in the median value calculated in EPA's Vapor Intrusion Database: Evaluation and Characterization of Attenuation Factors for Chlorinated Volatile Organic Compounds and Residential Buildings. EPA 530-R-10-002. March 16, 2005.

(2) Commercial/Industrial Screening Levels (SL) as provided in Table 2c; utilized Human Health Risk Assessment Note 3: DTSC-Modified Screening Levels found in HHRA-Note-3-Tables-June2020-Revised-May2022A.xlsx. revised May 2022, and USEPA Regional Screening Levels (RSLs) dated May 2023 when unavailable in Note 3. USEPA RSLs utilize a Target ILCR of 1E-06 and a Target HI of 1.

(3) Incremental Lifetime Cancer Risk (ILCR)=EPC/SL*1E-06

(4) Hazard Quotient (HQ) = EPC/ SL

(5) NS = No Standard, -- = No Risk Estimate

(6) $\mu g/m^3$ = micrograms per cubic meter

Table 4e: Summary of Hazard Indices and Incremental Lifetime Cancer Risk Estimates: Future Indoor Commercial/Industrial Indoor Air (EU1) AF 0.0005
8996 Etiwanda Avenue, Rancho Cucamonga, California

Compound	Cas No.	Soil Vapor EPC ($\mu g/m^3$)	Attenuation Factor (AF)	Indoor Air EPC ($\mu g/m^3$)	Commercial/Industrial Screening Level Cancer ($\mu g/m^3$)	Commercial/Industrial Screening Level Non-Cancer ($\mu g/m^3$)	Incremental Lifetime Cancer Risk (ILCR)	Hazard Quotient (HQ)
		(1)			(2)		(3)	(4)
1,1,1-Trichloroethane	71-55-6	1.24E+01	5.00E-04	6.20E-03	NS	4.40E+03	--	1E-06
1,2,4-Trimethylbenzene	95-63-6	7.61E+01	5.00E-04	3.81E-02	NS	2.60E+02	--	1E-04
1,3,5-Trimethylbenzene	108-67-8	1.96E+01	5.00E-04	9.80E-03	NS	2.60E+02	--	4E-05
4-Isopropyltoluene	99-87-6	2.97E+01	5.00E-04	1.49E-02	NS	NS	--	--
Benzene	71-43-2	1.64E+01	5.00E-04	8.20E-03	4.20E-01	1.30E+01	2E-08	6E-04
Chloroform	67-66-3	1.27E+01	5.00E-04	6.35E-03	5.30E-01	4.30E+02	1E-08	1E-05
Dichlorodifluoromethane	75-71-8	7.70E+00	5.00E-04	3.85E-03	NS	4.40E+02	--	9E-06
Ethylbenzene	100-41-4	3.51E+01	5.00E-04	1.76E-02	4.90E+00	4.40E+03	4E-09	4E-06
Isopropylbenzene	98-82-8	4.60E+01	5.00E-04	2.30E-02	NS	1.80E+03	--	1E-05
n-Propylbenzene	103-65-1	9.00E+00	5.00E-04	4.50E-03	NS	4.40E+03	--	1E-06
Styrene	100-42-5	4.10E+00	5.00E-04	2.05E-03	NS	3.90E+03	--	5E-07
Tetrachloroethene	127-18-4	3.17E+02	5.00E-04	1.59E-01	2.00E+00	1.80E+02	8E-08	9E-04
Toluene	108-88-3	3.95E+03	5.00E-04	1.98E+00	NS	1.30E+03	--	2E-03
Xylenes (Mixed Isomers)	1330-20-7	2.49E+02	5.00E-04	1.24E-01	NS	4.40E+02	--	3E-04
						Total:	**1E-07**	**4E-03**

Notes:

(1) Indoor Air Exposure Point Concentration (EPC) = soil gas concentration ($\mu g/m^3$)*AF where AF=steady state attenuation factor. AF assumed to be equal to 0.0005 for Soil Gas in Table 2 : Attenuation Factors for Preliminary Screening Evaluations. DTSC's Guidance for the Evaluation and Mitigation of Subsurface Vapor Intruation to Indoor Air (Vapor Intrusion Guidance). October 2011.

(2) Commercial/Industrial Screening Levels (SL) as provided in Table 2c; utilized Human Health Risk Assessment Note 3: DTSC-Modified Screening Levels found in HHRA-Note-3-Tables-June2020-Revised-May2022A.xlsx. revised May 2022, and USEPA Regional Screening Levels (RSLs) dated May 2023 when unavailable in Note 3. USEPA RSLs utilize a Target ILCR of 1E-06 and a Target HI of 1.

(3) Incremental Lifetime Cancer Risk (ILCR)=EPC/SL*1E-06

(4) Hazard Quotient (HQ) = EPC/ SL

(5) NS = No Standard, -- = No Risk Estimate

(6) $\mu g/m^3$ = micrograms per cubic meter

Table 4f: Summary of Hazard Indices and Incremental Lifetime Cancer Risk Estimates: Future Indoor Commercial/Industrial Indoor Air (EU2) AF 0.0005
8996 Etiwanda Avenue, Rancho Cucamonga, California

Compound	Cas No.	Soil Vapor EPC ($\mu g/m^3$)	Attenuation Factor (AF)	Indoor Air EPC ($\mu g/m^3$)	Commercial/Industrial Screening Level Cancer ($\mu g/m^3$)	Commercial/Industrial Screening Level Non-Cancer ($\mu g/m^3$)	Incremental Lifetime Cancer Risk (ILCR)	Hazard Quotient (HQ)
		(1)			(2)		(3)	(4)
1,1,1-Trichloroethane	71-55-6	2.95E+03	5.00E-04	1.48E+00	NS	4.40E+03	--	3E-04
1,1,2-Trichloroethane	79-00-5	3.46E+01	5.00E-04	1.73E-02	7.70E-01	8.80E-01	2E-08	2E-02
1,1-Dichloroethane	75-34-3	1.82E+03	5.00E-04	9.08E-01	7.70E+00	3.50E+03	1E-07	3E-04
1,1-Dichloroethene	75-35-4	1.02E+03	5.00E-04	5.10E-01	NS	3.10E+02	--	2E-03
1,2,4-Trimethylbenzene	95-63-6	5.87E+01	5.00E-04	2.94E-02	NS	2.60E+02	--	1E-04
1,2-Dichloroethane	107-06-2	2.12E+01	5.00E-04	1.06E-02	4.70E-01	3.10E+01	2E-08	3E-04
1,3,5-Trimethylbenzene	108-67-8	2.14E+01	5.00E-04	1.07E-02	NS	2.60E+02	--	4E-05
4-Isopropyltoluene	99-87-6	1.68E+02	5.00E-04	8.40E-02	NS	NS	--	--
Benzene	71-43-2	1.90E+01	5.00E-04	9.50E-03	4.20E-01	1.30E+01	2E-08	7E-04
Bromodichloromethane	75-27-4	2.70E+01	5.00E-04	1.35E-02	3.30E-01	3.50E+02	4E-08	4E-05
Bromoform	75-25-2	9.00E+00	5.00E-04	4.50E-03	1.10E+01	3.50E+02	4E-10	1E-05
Carbon tetrachloride	56-23-5	4.83E+01	5.00E-04	2.42E-02	2.00E+00	1.80E+02	1E-08	1E-04
Chlorobenzene	108-90-7	3.40E+00	5.00E-04	1.70E-03	NS	2.20E+02	--	8E-06
Chloroform	67-66-3	3.69E+02	5.00E-04	1.84E-01	5.30E-01	4.30E+02	3E-07	4E-04
cis-1,2-Dichloroethene	156-59-2	6.50E+00	5.00E-04	3.25E-03	NS	3.50E+01	--	9E-05
Dibromochloromethane	124-48-1	1.80E+01	5.00E-04	9.00E-03	5.80E-01	3.50E+02	2E-08	3E-05
Dichlorodifluoromethane	75-71-8	3.84E+01	5.00E-04	1.92E-02	NS	4.40E+02	--	4E-05
Ethylbenzene	100-41-4	3.19E+02	5.00E-04	1.60E-01	4.90E+00	4.40E+03	3E-08	4E-05
Isopropylbenzene	98-82-8	1.20E+01	5.00E-04	6.00E-03	NS	1.80E+03	--	3E-06
Naphthalene	91-20-3	1.73E+01	5.00E-04	8.65E-03	3.60E-01	1.30E+01	2E-08	7E-04
n-Propylbenzene	103-65-1	9.10E+00	5.00E-04	4.55E-03	NS	4.40E+03	--	1E-06
Styrene	100-42-5	4.00E+01	5.00E-04	2.00E-02	NS	3.90E+03	--	5E-06
tert-Butyl alcohol	75-65-0	2.36E+04	5.00E-04	1.18E+01	NS	2.20E+04	--	5E-04
Tetrachloroethene	127-18-4	1.22E+03	5.00E-04	6.08E-01	2.00E+00	1.80E+02	3E-07	3E-03
Toluene	108-88-3	1.55E+02	5.00E-04	7.75E-02	NS	1.30E+03	--	6E-05
Trichloroethene	79-01-6	1.94E+02	5.00E-04	9.70E-02	3.00E+00	8.80E+00	3E-08	1E-02
Trichlorofluoromethane	75-69-4	1.19E+04	5.00E-04	5.95E+00	NS	5.30E+03	--	1E-03
Trichlorotrifluoroethane, 1,1,2-, 1,2,2-	76-13-1	1.05E+01	5.00E-04	5.25E-03	NS	2.20E+04	--	2E-07
Vinyl chloride	75-01-4	1.60E+02	5.00E-04	8.00E-02	1.60E-01	4.40E+02	5E-07	2E-04
Xylenes (Mixed Isomers)	1330-20-7	9.75E+02	5.00E-04	4.88E-01	NS	4.40E+02	--	1E-03
						Total:	**1E-06**	**4E-02**

Notes:

(1) Indoor Air Exposure Point Concentration (EPC) = soil gas concentration ($\mu g/m^3$)*AF where AF=steady state attenuation factor. AF assumed to be equal to 0.0005 for Soil Gas in Table 2 : Attenuation Factors for Preliminary Screening Evaluations. DTSC's Guidance for the Evaluation and Mitigation of Subsurface Vapor Intruation to Indoor Air (Vapor Intrusion Guidance). October 2011.

(2) Commercial/Industrial Screening Levels (SL) as provided in Table 2c; utilized Human Health Risk Assessment Note 3: DTSC-Modified Screening Levels found in HHRA-Note-3-Tables-June2020-Revised-May2022A.xlsx. revised May 2022, and USEPA Regional Screening Levels (RSLs) dated May 2023 when unavailable in Note 3. USEPA RSLs utilize a Target ILCR of 1E-06 and a Target HI of 1.

(3) Incremental Lifetime Cancer Risk (ILCR)=EPC/SL*1E-06

(4) Hazard Quotient (HQ) = EPC/ SL

(5) NS = No Standard, -- = No Risk Estimate

(6) $\mu g/m^3$ = micrograms per cubic meter

Table 5a: Summary of Hazard Indices and Incremental Lifetime Cancer Risk Estimates: Outdoor Commercial/Industrial Soil (<=2' bgs)
8996 Etiwanda Avenue, Rancho Cucamonga, California

Compound	Cas No.	EPC (mg/kg)	Commercial/ Industrial Screening Level Cancer (mg/kg)	Commercial/ Industrial Screening Level Non-Cancer (mg/kg)	Incremental Lifetime Cancer Risk (ILCR)	Hazard Quotient (HQ)
		(1)	(2)		(3)	(4)
1-Methylnaphthalene	90-12-0	1.40E-02	3.00E+01	2.20E+04	5E-10	6E-07
2-Butanone	78-93-3	1.04E-02	NS	1.90E+05	--	5E-08
2-Hexanone	591-78-6	1.10E-02	NS	1.30E+03	--	8E-06
2-Methylnaphthalene	91-57-6	1.70E-02	NS	1.30E+03	--	1E-05
4-Methyl-2-pentanone	108-10-1	5.00E-03	NS	1.40E+05	--	4E-08
Acenaphthene	83-32-9	1.60E-02	NS	2.30E+04	--	7E-07
Acenaphthylene	208-96-8	1.20E-02	NS	NS	--	--
Acetone	67-64-1	4.64E-02	NS	1.10E+06	--	4E-08
Antimony	7440-36-0	1.60E+00	NS	4.70E+02	--	3E-03
Aroclor-1248	12672-29-6	2.40E-01	5.80E-01	8.40E+00	4E-07	3E-02
Aroclor-1254	11097-69-1	7.50E+02	5.90E-01	8.40E+00	1E-03	9E+01
Aroclor-1260	11096-82-5	2.27E-01	6.00E-01	8.40E+00	4E-07	3E-02
Aroclor-1262	37324-23-5	1.72E-01	5.90E-01	8.40E+00	3E-07	2E-02
Aroclor-1268	11100-14-4	5.80E-01	5.90E-01	8.40E+00	1E-06	7E-02
Barium	7440-39-3	1.05E+02	NS	2.20E+05	--	5E-04
Benzene	71-43-2	4.93E-04	1.40E+00	4.60E+01	4E-10	1E-05
Benzo(a)anthracene	56-55-3	1.30E-01	1.20E+01	NS	1E-08	--
Benzo(a)pyrene	50-32-8	1.20E-01	1.30E+00	1.30E+02	9E-08	9E-04
Benzo(b)fluoranthene	205-99-2	1.20E-01	1.30E+01	NS	9E-09	--
Benzo(g,h,i)perylene	191-24-2	6.20E-02	NS	NS	--	--
Benzo(k)fluoranthene	207-08-9	1.00E-01	1.30E+02	NS	8E-10	--
Beryllium	7440-41-7	4.51E-01	6.90E+03	2.30E+02	7E-11	2E-03
Butyl benzyl phthalate	85-68-7	2.90E-01	7.80E+02	1.10E+05	4E-10	3E-06
Cadmium	7440-43-9	4.32E-01	9.30E+03	1.00E+02	5E-11	4E-03
Carbon disulfide	75-15-0	4.60E-03	NS	3.50E+03	--	1E-06
Chromium	16065-83-1	3.53E+01	NS	1.80E+06	--	2E-05
Chrysene	218-01-9	1.30E-01	1.30E+03	NS	1E-10	--
Cobalt	7440-48-4	7.29E+00	1.90E+03	3.50E+02	4E-09	2E-02
Copper	7440-50-8	1.44E+01	NS	4.70E+04	--	3E-04
Dibenz(a,h)anthracene	53-70-3	1.70E-02	3.10E-01	NS	5E-08	--
Ethanol	64-17-5	1.10E-01	NS	NS	--	--
Ethylbenzene	100-41-4	1.90E-04	2.50E+01	1.70E+04	8E-12	1E-08
Fluoranthene	206-44-0	4.10E-02	NS	1.80E+04	--	2E-06
Fluorene	86-73-7	1.20E-02	NS	1.70E+04	--	7E-07
Indeno(1,2,3-cd)pyrene	193-39-5	5.50E-02	1.30E+01	NS	4E-09	--
Mercury	7439-97-6	3.41E-02	NS	4.40E+00	--	8E-03
Molybdenum	7439-98-7	1.45E+00	NS	5.80E+03	--	3E-04
Naphthalene	91-20-3	6.00E-01	6.50E+00	5.70E+02	9E-08	1E-03
Nickel	7440-02-0	9.55E+00	6.40E+04	1.10E+04	1E-10	9E-04
Petroleum - Diesel	TPH Diesel C13-C22	7.63E+01	NS	1.22E+03	--	6E-02
Petroleum - Gasoline	TPH Gasoline C4-C12	8.70E-02	NS	2.00E+03	--	4E-05
Petroleum - Motor Oil	TPH Motor Oil C23-C32	3.88E+02	NS	1.80E+05	--	2E-03
Phenanthrene	85-01-8	1.20E-02	NS	NS	--	--
Pyrene	129-00-0	5.00E-02	NS	1.30E+04	--	4E-06
Selenium	7782-49-2	4.73E-01	NS	5.80E+03	--	8E-05
Silver	7440-22-4	2.10E-01	NS	5.80E+03	--	4E-05
tert-Butyl alcohol (TBA)	75-65-0	2.80E-02	6.50E+03	2.70E+05	4E-12	1E-07
Thallium	7440-28-0	1.49E+01	NS	1.20E+01	--	1E+00
Vanadium	7440-62-2	4.37E+01	NS	5.80E+03	--	8E-03
Xylenes (Mixed Isomers)	1330-20-7	6.90E-04	NS	2.50E+03	--	3E-07
Zinc	7440-66-6	1.26E+02	NS	3.50E+05	--	4E-04
				Total:	**1E-03**	**9E+01**

Notes:
1. Exposure Point Concentration (EPC) = EPC as shown in Table 1a
2. Commercial/Industrial Screening Levels (SL) as provided in Table 2b; utilized Human Health Risk Assessment Note 3: DTSC-Modified Screening Levels found in HHRA-Note-3-Tables-June2020-Revised-May2022A.xlsx. revised May 2022, SFBRWQCB 2019 ESLs (SFBRWQCB, 2019), and USEPA Regional Screening Levels (RSLs) dated May 2023 when unavailable in Note 3. USEPA RSLs utilize a Target ILCR of 1E-06 and a Target HI of 1.
3. Incremental Lifetime Cancer Risk (ILCR)=EPC/SL*1E-06
4. Hazard Quotient (HQ) = EPC/ SL
5. NS = No Standard, -- = No Risk Estimate
6. mg/kg = milligrams per kilogram
7. Lead and arsenic are not included in this risk estimate as exposures to these compounds were evaluated separately.

Table 5b: Summary of Hazard Indices and Incremental Lifetime Cancer Risk Estimates: Outdoor Commercial/Industrial Soil (<=10' bgs)
8996 Etiwanda Avenue, Rancho Cucamonga, California

Compound	Cas No.	EPC (mg/kg)	Commercial/ Industrial Screening Level Cancer (mg/kg)	Commercial/ Industrial Screening Level Non-Cancer (mg/kg)	Incremental Lifetime Cancer Risk (ILCR)	Hazard Quotient (HQ)
		(1)	(2)		(3)	(4)
1,1-Dichloroethane	75-34-3	6.20E-04	1.60E+01	7.10E+03	4E-11	9E-08
1-Methylnaphthalene	90-12-0	1.40E-02	3.00E+01	2.20E+04	5E-10	6E-07
2-Butanone	78-93-3	7.94E-03	NS	1.90E+05	--	4E-08
2-Hexanone	591-78-6	1.10E-02	NS	1.30E+03	--	8E-06
2-Methylnaphthalene	91-57-6	1.70E-02	NS	1.30E+03	--	1E-05
4-Methyl-2-pentanone	108-10-1	5.00E-03	NS	1.40E+05	--	4E-08
Acenaphthene	83-32-9	1.60E-02	NS	2.30E+04	--	7E-07
Acenaphthylene	208-96-8	1.20E-02	NS	NS	--	--
Acetone	67-64-1	3.75E-02	NS	1.10E+06	--	3E-08
Antimony	7440-36-0	2.88E-01	NS	4.70E+02	--	6E-04
Aroclor-1248	12672-29-6	2.40E-01	5.80E-01	8.40E+00	4E-07	3E-02
Aroclor-1254	11097-69-1	7.50E+02	5.90E-01	8.40E+00	1E-03	9E+01
Aroclor-1260	11096-82-5	1.99E-01	6.00E-01	8.40E+00	3E-07	2E-02
Aroclor-1262	37324-23-5	1.72E-01	5.90E-01	8.40E+00	3E-07	2E-02
Aroclor-1268	11100-14-4	5.80E-01	5.90E-01	8.40E+00	1E-06	7E-02
Barium	7440-39-3	9.80E+01	NS	2.20E+05	--	4E-04
Benzene	71-43-2	4.58E-04	1.40E+00	4.60E+01	3E-10	1E-05
Benzo(a)anthracene	56-55-3	1.30E-01	1.20E+01	NS	1E-08	--
Benzo(a)pyrene	50-32-8	1.20E-01	1.30E+00	1.30E+02	9E-08	9E-04
Benzo(b)fluoranthene	205-99-2	1.20E-01	1.30E+01	NS	9E-09	--
Benzo(g,h,i)perylene	191-24-2	6.20E-02	NS	NS	--	--
Benzo(k)fluoranthene	207-08-9	1.00E-01	1.30E+02	NS	8E-10	--
Beryllium	7440-41-7	3.73E-01	6.90E+03	2.30E+02	5E-11	2E-03
Butyl benzyl phthalate	85-68-7	2.90E-01	7.80E+02	1.10E+05	4E-10	3E-06
Cadmium	7440-43-9	4.01E-01	9.30E+03	1.00E+02	4E-11	4E-03
Carbon disulfide	75-15-0	1.50E-03	NS	3.50E+03	--	4E-07
Chromium	16065-83-1	2.55E+01	NS	1.80E+06	--	1E-05
Chrysene	218-01-9	1.30E-01	1.30E+03	NS	1E-10	--
Cobalt	7440-48-4	6.49E+00	1.90E+03	3.50E+02	3E-09	2E-02
Copper	7440-50-8	1.25E+01	NS	4.70E+04	--	3E-04
Dibenz(a,h)anthracene	53-70-3	1.70E-02	3.10E-01	NS	5E-08	--
Ethanol	64-17-5	9.78E-02	NS	NS	--	--
Ethylbenzene	100-41-4	1.90E-04	2.50E+01	1.70E+04	8E-12	1E-08
Fluoranthene	206-44-0	4.10E-02	NS	1.80E+04	--	2E-06
Fluorene	86-73-7	1.20E-02	NS	1.70E+04	--	7E-07
Indeno(1,2,3-cd)pyrene	193-39-5	5.50E-02	1.30E+01	NS	4E-09	--
Mercury	7439-97-6	3.47E-02	NS	4.40E+00	--	8E-03
Molybdenum	7439-98-7	1.45E+00	NS	5.80E+03	--	3E-04
Naphthalene	91-20-3	3.96E-02	6.50E+00	5.70E+02	6E-09	7E-05
Nickel	7440-02-0	9.72E+00	6.40E+04	1.10E+04	2E-10	9E-04
Petroleum - Diesel	TPH Diesel C13-C22	4.08E+01	NS	1.22E+03	--	3E-02
Petroleum - Gasoline	TPH Gasoline C4-C12	1.00E+00	NS	2.00E+03	--	5E-04
Petroleum - Motor Oil	TPH Motor Oil C23-C32	1.69E+02	NS	1.80E+05	--	9E-04
Phenanthrene	85-01-8	1.20E-02	NS	NS	--	--
p-Isopropyltoluene	99-87-6	3.60E-03	NS	NS	--	--
Pyrene	129-00-0	5.00E-02	NS	1.30E+04	--	4E-06
Selenium	7782-49-2	6.89E-01	NS	5.80E+03	--	1E-04
Silver	7440-22-4	1.07E-01	NS	5.80E+03	--	2E-05
tert-Butyl alcohol (TBA)	75-65-0	1.02E-02	6.50E+03	2.70E+05	2E-12	4E-08
Thallium	7440-28-0	1.49E+01	NS	1.20E+01	--	1E+00
Toluene	108-88-3	1.10E-03	NS	5.30E+03	--	2E-07
Vanadium	7440-62-2	3.68E+01	NS	5.80E+03	--	6E-03
Xylenes (Mixed Isomers)	1330-20-7	6.90E-04	NS	2.50E+03	--	3E-07
Zinc	7440-66-6	8.50E+01	NS	3.50E+05	--	2E-04
				Total:	**1E-03**	**9E+01**

Notes:
1. Exposure Point Concentration (EPC) = EPC as shown in Table 1b
2. Commercial/Industrial Screening Levels (SL) as provided in Table 2b; utilized Human Health Risk Assessment Note 3: DTSC-Modified Screening Levels found in HHRA-Note-3-Tables-June2020-Revised-May2022A.xlsx. revised May 2022, SFBRWQCB 2019 ESLs (SFBRWQCB, 2019), and USEPA Regional Screening Levels (RSLs) dated May 2023 when unavailable in Note 3. USEPA RSLs utilize a Target ILCR of 1E-06 and a Target HI of 1.

3. Incremental Lifetime Cancer Risk (ILCR)=EPC/SL*1E-06
4. Hazard Quotient (HQ) = EPC/ SL
5. NS = No Standard, -- = No Risk Estimate
6. mg/kg = milligrams per kilogram
7. Lead and arsenic are not included in this risk estimate as exposures to these compounds were evaluated separately.

Table 6: Summary of Hazard Indices and Incremental Lifetime Cancer Risk: Construction Worker Soil
8996 Etiwanda Avenue, Rancho Cucamonga, California

Compound	Cas No.	EPC (mg/kg)	Construction Worker Screening Level Cancer (mg/kg)	Construction Worker Screening Level Non-Cancer (mg/kg)	Incremental Lifetime Cancer Risk (ILCR)	Hazard Quotient (HQ)
		(1)	(2)		(3)	(4)
1,1-Dichloroethane	75-34-3	6.20E-04	8.49E+01	1.49E+03	7E-12	4E-07
1-Methylnaphthalene	90-12-0	1.40E-02	1.89E+02	5.27E+03	7E-11	3E-06
2-Butanone	78-93-3	7.94E-03	NS	4.36E+04	--	2E-07
2-Hexanone	591-78-6	1.10E-02	NS	2.99E+02	--	4E-05
2-Methylnaphthalene	91-57-6	1.70E-02	NS	3.00E+02	--	6E-05
4-Methyl-2-pentanone	108-10-1	5.00E-03	NS	2.88E+04	--	2E-07
Acenaphthene	83-32-9	1.60E-02	NS	5.68E+03	--	3E-06
Acenaphthylene	208-96-8	1.20E-02	NS	NS	--	--
Acetone	67-64-1	3.75E-02	NS	3.05E+05	--	1E-07
Antimony	7440-36-0	2.88E-01	NS	1.23E+02	--	2E-03
Aroclor-1248	12672-29-6	2.40E-01	3.78E+00	2.09E+00	6E-08	1E-01
Aroclor-1254	11097-69-1	7.50E+02	3.88E+00	2.14E+00	2E-04	4E+02
Aroclor-1260	11096-82-5	1.99E-01	3.93E+00	2.16E+00	5E-08	9E-02
Aroclor-1262	37324-23-5	1.72E-01	5.38E+02	3.36E+02	3E-10	5E-04
Aroclor-1268	11100-14-4	5.80E-01	5.38E+02	3.36E+02	1E-09	2E-03
Barium	7440-39-3	9.80E+01	NS	2.04E+03	--	5E-02
Benzene	71-43-2	4.58E-04	7.85E+00	9.60E+00	6E-11	5E-05
Benzo(a)anthracene	56-55-3	1.30E-01	2.79E+03	NS	5E-11	--
Benzo(a)pyrene	50-32-8	1.20E-01	8.29E+00	6.78E+00	1E-08	2E-02
Benzo(b)fluoranthene	205-99-2	1.20E-01	8.29E+01	NS	1E-09	--
Benzo(g,h,i)perylene	191-24-2	6.20E-02	NS	NS	--	--
Benzo(k)fluoranthene	207-08-9	1.00E-01	6.54E+02	NS	2E-10	--
Beryllium	7440-41-7	3.73E-01	1.28E+02	2.05E+01	3E-09	2E-02
Butyl benzyl phthalate	85-68-7	2.90E-01	5.30E+03	2.76E+04	5E-11	1E-05
Cadmium	7440-43-9	4.01E-01	1.70E+02	1.42E+01	2E-09	3E-02
Carbon disulfide	75-15-0	1.50E-03	NS	7.29E+02	--	2E-06
Chromium	16065-83-1	2.55E+01	NS	5.09E+05	--	5E-05
Chrysene	218-01-9	1.30E-01	6.54E+03	NS	2E-11	--
Cobalt	7440-48-4	6.49E+00	3.41E+01	2.02E+01	2E-07	3E-01
Copper	7440-50-8	1.25E+01	NS	1.36E+04	--	9E-04
Dibenz(a,h)anthracene	53-70-3	1.70E-02	2.07E+00	NS	8E-09	--
Ethanol	64-17-5	9.78E-02	NS	NS	--	--
Ethylbenzene	100-41-4	1.90E-04	1.41E+02	3.95E+03	1E-12	5E-08
Fluoranthene	206-44-0	4.10E-02	NS	4.68E+03	--	9E-06
Fluorene	86-73-7	1.20E-02	NS	4.17E+03	--	3E-06
Indeno(1,2,3-cd)pyrene	193-39-5	5.50E-02	8.29E+01	NS	7E-10	--
Mercury	7439-97-6	3.47E-02	NS	9.25E-01	--	4E-02
Molybdenum	7439-98-7	1.45E+00	NS	1.41E+03	--	1E-03
Naphthalene	91-20-3	3.96E-02	3.97E+01	1.19E+02	1E-09	3E-04
Nickel	7440-02-0	9.72E+00	1.18E+03	5.79E+01	8E-09	2E-01
Petroleum - Diesel	TPH Diesel C13-C22	4.08E+01	NS	1.07E+06	--	4E-05
Petroleum - Gasoline	TPH Gasoline C4-C12	1.00E+00	NS	2.40E+06	--	4E-07
Petroleum - Motor Oil	TPH Motor Oil C23-C32	1.69E+02	NS	NS	--	--
Phenanthrene	85-01-8	1.20E-02	NS	NS	--	--
p-Isopropyltoluene	99-87-6	3.60E-03	NS	NS	--	--
Pyrene	129-00-0	5.00E-02	NS	3.44E+03	--	1E-05
Selenium	7782-49-2	6.89E-01	NS	1.66E+03	--	4E-04
Silver	7440-22-4	1.07E-01	NS	1.70E+03	--	6E-05
tert-Butyl alcohol (TBA)	75-65-0	1.02E-02	4.96E+04	6.64E+04	2E-13	2E-07
Thallium	7440-28-0	1.49E+01	NS	3.39E+00	--	4E+00
Toluene	108-88-3	1.10E-03	NS	1.12E+03	--	1E-06
Vanadium	7440-62-2	3.68E+01	NS	3.37E+02	--	1E-01
Xylenes (Mixed Isomers)	1330-20-7	6.90E-04	NS	5.18E+02	--	1E-06
Zinc	7440-66-6	8.50E+01	NS	1.02E+05	--	8E-04
				Total:	**2E-04**	**4E+02**

Notes:
1. Exposure Point Concentration (EPC) = EPC as shown in Table 1b
2. Screening values based on toxicity values as described in Table 3a and exposure factors as described in DTSC Note 1 (2019). Screening values calculated in EPA the EPA RSL Calculator as shown in Attachment 5.
3. Incremental Lifetime Cancer Risk (ILCR)=EPC/SL*1E-06
4. Hazard Quotient (HQ) = EPC/ SL
5. NS = No Standard, -- = No Risk Estimate
6. mg/kg = milligrams per kilogram
7. Lead and arsenic are not included in this risk estimate as exposures to these compounds were evaluated separately.

Table 7: Cumulative Risk Estimates
8996 Etiwanda Avenue, Rancho Cucamonga, California

Cumulative Cancer Risk Estimates

Risk	Future Indoor Commercial/Industrial (EU1)						Future Indoor Commercial/Industrial (EU2)						Outdoor Commercial/ Industrial (0-2')		Outdoor Commercial/ Industrial (0-10')		Construction Worker	
	(0.0005 AF)		(0.003 AF)		(0.03 AF)		(0.0005 AF)		(0.003 AF)		(0.03 AF)							
	ILCR	Exceed 1E-04?	ILCR	Exceed 1E-04?	ILCR	Exceed 1E-04?	ILCR	Exceed 1E-04?	ILCR	Exceed 1E-04?	ILCR	Exceed 1E-04?	ILCR	Exceed 1E-04?	ILCR	Exceed 1E-04?	ILCR	Exceed 1E-04?
Indoor Air	1E-07	No	7E-07	No	7E-06	Risk Management Range	1E-06	No	9E-06	Risk Management Range	9E-05	Risk Management Range	--	--	--	--	--	--
Soil	--	--	--	--	--	--	--	--	--	--	--	--	1E-03	Yes	1E-03	Yes	2E-04	Yes
Cumulative	1E-07	No	7E-07	No	7E-06	Risk Management Range	1E-06	No	9E-06	Risk Management Range	9E-05	Risk Management Range	1E-03	Yes	1E-03	Yes	2E-04	Yes

Cumulative Non-Cancer Risk Estimates

Risk	Future Indoor Commercial/Industrial (EU1)						Future Indoor Commercial/Industrial (EU2)						Outdoor Commercial/ Industrial (0-2')		Outdoor Commercial/ Industrial (0-10')		Construction Worker	
	(0.0005 AF)		(0.003 AF)		(0.03 AF)		(0.0005 AF)		(0.003 AF)		(0.03 AF)							
	HI	Exceed 1?	HI	Exceed 1?	HI	Exceed 1?	HI	Exceed 1?	HI	Exceed 1?	HI	Exceed 1?	HI	Exceed 1?	HI	Exceed 1?	HI	Exceed 1?
Indoor Air	4E-03	No	2E-02	No	2E-01	No	4E-02	No	3E-01	No	3E+00	Yes	--	--	--	--	--	--
Soil	--	--	--	--	--	--	--	--	--	--	--	--	9E+01	Yes	9E+01	Yes	4E+02	Yes
Cumulative	4E-03	No	2E-02	No	2E-01	No	4E-02	No	3E-01	No	3E+00	Yes[5]	9E+01	Yes	9E+01	Yes	4E+02	Yes

Notes:
1. HI = Hazard Index
2. ILCR = Incremental Lifetime Cancer Risk
3. AF = Attenuation Factor
4. EU = Exposure Unit
5. The cumulative non-cancer hazard exceeds 1, however a target organ analysis identified that no individual target organ exceeds a threshold of 1.

Table 8a: Summary of Soil Data (Whole Site) Included in the HHSE (<=2' bgs) - Virtual Analysis
8996 Etiwanda Avenue, Rancho Cucamonga, California

COPC	Number of Soil Samples	Number of Detections	Range of Detections			95% UCL	EPCs
1-Methylnaphthalene	25	1	1.40E-02	-	1.40E-02	--	1.40E-02
2-Butanone	61	26	3.60E-03	-	5.10E-02	1.04E-02	1.04E-02
2-Hexanone	61	5	3.90E-03	-	1.10E-02	--	1.10E-02
2-Methylnaphthalene	25	1	1.70E-02	-	1.70E-02	--	1.70E-02
4-Methyl-2-pentanone	50	3	2.90E-03	-	5.00E-03	--	5.00E-03
Acenaphthene	25	1	1.60E-02	-	1.60E-02	--	1.60E-02
Acenaphthylene	25	1	1.20E-02	-	1.20E-02	--	1.20E-02
Acetone	61	51	1.10E-02	-	2.40E-01	4.64E-02	4.64E-02
Antimony	88	8	2.10E-01	-	1.60E+00	--	1.60E+00
Aroclor-1248	283	7	5.00E-02	-	2.40E-01	--	2.40E-01
Aroclor-1254	284	59	1.75E-02	-	3.50E+00	2.20E-01	2.20E-01
Aroclor-1260	283	115	1.29E-02	-	3.50E+00	2.27E-01	2.27E-01
Aroclor-1262	283	2	7.20E-02	-	1.72E-01	--	1.72E-01
Aroclor-1268	283	8	3.90E-02	-	5.80E-01	--	5.80E-01
Arsenic	211	146	3.04E-01	-	1.16E+01	2.38E+00	2.38E+00
Barium	88	88	3.74E+01	-	2.71E+02	1.05E+02	1.05E+02
Benzene	61	38	0.00023	-	9.00E-04	4.93E-04	4.93E-04
Benzo(a)anthracene	25	1	1.30E-01	-	1.30E-01	--	1.30E-01
Benzo(a)pyrene	25	1	1.20E-01	-	1.20E-01	--	1.20E-01
Benzo(b)fluoranthene	25	1	1.20E-01	-	1.20E-01	--	1.20E-01
Benzo(g,h,i)perylene	25	1	6.20E-02	-	6.20E-02	--	6.20E-02
Benzo(k)fluoranthene	25	1	1.00E-01	-	1.00E-01	--	1.00E-01
Beryllium	88	16	2.16E-01	-	6.70E-01	4.51E-01	4.51E-01
Butyl benzyl phthalate	25	1	2.90E-01	-	2.90E-01	--	2.90E-01
Cadmium	88	22	2.40E-01	-	1.31E+00	4.32E-01	4.32E-01
Carbon disulfide	61	9	4.10E-04	-	4.60E-03	--	4.60E-03
Chromium	88	88	2.01E+00	-	1.60E+02	3.53E+01	3.53E+01
Chrysene	25	1	1.30E-01	-	1.30E-01	--	1.30E-01
Cobalt	88	88	8.12E-01	-	1.60E+01	7.29E+00	7.29E+00
Copper	88	88	2.48E+00	-	1.39E+02	1.44E+01	1.44E+01
Dibenz(a,h)anthracene	25	1	1.70E-02	-	1.70E-02	--	1.70E-02
Ethanol	50	17	5.90E-02	-	1.50E-01	1.10E-01	1.10E-01
Ethylbenzene	61	1	1.90E-04	-	1.90E-04	--	1.90E-04
Fluoranthene	25	2	1.10E-02	-	4.10E-02	--	4.10E-02
Fluorene	25	1	1.20E-02	-	1.20E-02	--	1.20E-02
Indeno(1,2,3-cd)pyrene	25	1	5.50E-02	-	5.50E-02	--	5.50E-02
Lead	111	110	1.50E-01	-	7.54E+01	7.84E+00	7.84E+00
Mercury	88	53	1.20E-02	-	2.22E-01	3.41E-02	3.41E-02
Molybdenum	88	2	3.45E-01	-	1.45E+00	--	1.45E+00
Naphthalene	75	10	1.40E-02	-	6.00E-01	5.51E-02	6.00E-01
Nickel	88	86	9.30E-01	-	2.80E+01	9.55E+00	9.55E+00
Petroleum - Diesel	114	55	3.42E+00	-	7.90E+02	7.63E+01	7.63E+01
Petroleum - Gasoline	99	2	4.80E-02	-	8.70E-02	--	8.70E-02
Petroleum - Motor Oil	114	80	4.40E+00	-	3.20E+03	3.88E+02	3.88E+02
Phenanthrene	25	2	1.00E-02	-	1.20E-02	--	1.20E-02
Pyrene	25	2	1.30E-02	-	5.00E-02	--	5.00E-02
Selenium	88	2	4.40E-01	-	4.73E-01	--	4.73E-01
Silver	88	5	1.20E-01	-	2.10E-01	--	2.10E-01
tert-Butyl alcohol (TBA)	50	8	5.40E-03	-	2.80E-02	--	2.80E-02
Thallium	89	36	2.62E-01	-	1.49E+01	2.50E+00	1.49E+01
Vanadium	88	88	6.08E+00	-	1.46E+02	4.37E+01	4.37E+01
Xylenes (Mixed Isomers)	61	1	6.90E-04	-	6.90E-04	--	6.90E-04
Zinc	88	87	1.40E+01	-	1.19E+03	1.26E+02	1.26E+02

1. The lab reported m,p-xylene and o-xylene separately. These isomers were combined for the purposes of this risk screening.
2. Petroluem - Gasoline includes carbon ranges C4 - C10 presented by Ardent, TPH-g presented by Pathforward and TPH Gasoline C4-C12 presented by Northgate.
3. Petroluem - Diesel includes carbon ranges C10 - C28 presented by Ardent, TPH-d presented by Pathforward, TPH Diesel C13-C22 presented by Northgate and Diesel Range Organics [C10-C28] presented by Roux.
4. Petroluem - Motor Oil includes carbon ranges C23 - C35 presented by Ardent, TPH-mo presented by Pathforward and TPH Motor Oil C23-C32 presented by Northgate.
5. All units are in mg/kg (mg/kg = milligrams per kilograms)
6. Data includes unique and duplicate samples. Each sample was treated as discrete data point.
7. The selected EPC for each compound is the minimum of the 95% upper confidence limit (95%UCL) and maximum detected concentration. Except for the thallium outlier identified in the hotspot evaluation, for which the maximum is used.

Table 8b: Summary of Soil Data (Whole Site) Included in the HHSE (<=10' bgs) - Virtual Analysis
8996 Etiwanda Avenue, Rancho Cucamonga, California

COPC	Number of Soil Samples	Number of Detections	Range of Detections			95% UCL	EPCs
1,1-Dichloroethane	174	2	5.10E-04	-	6.20E-04	--	6.20E-04
1-Methylnaphthalene	46	2	1.10E-02	-	1.40E-02	--	1.40E-02
2-Butanone	174	38	3.60E-03	-	5.10E-02	7.94E-03	7.94E-03
2-Hexanone	174	6	3.90E-03	-	1.10E-02	--	1.10E-02
2-Methylnaphthalene	46	3	1.20E-02	-	1.70E-02	--	1.70E-02
4-Methyl-2-pentanone	152	3	2.90E-03	-	5.00E-03	--	5.00E-03
Acenaphthene	46	1	1.60E-02	-	1.60E-02	--	1.60E-02
Acenaphthylene	46	2	1.10E-02	-	1.20E-02	--	1.20E-02
Acetone	174	127	8.60E-03	-	2.40E-01	3.75E-02	3.75E-02
Antimony	166	15	1.67E-01	-	1.60E+00	2.88E-01	2.88E-01
Aroclor-1248	304	7	4.60E-02	-	2.40E-01	--	2.40E-01
Aroclor-1254	305	59	1.75E-02	-	3.50E+00	1.92E-01	1.92E-01
Aroclor-1260	304	115	1.29E-02	-	3.50E+00	1.99E-01	1.99E-01
Aroclor-1262	304	2	7.20E-02	-	1.72E-01	--	1.72E-01
Aroclor-1268	304	8	3.90E-02	-	5.80E-01	--	5.80E-01
Arsenic	336	238	2.94E-01	-	1.19E+01	2.02E+00	2.02E+00
Barium	166	166	3.11E+01	-	2.71E+02	9.80E+01	9.80E+01
Benzene	174	74	2.30E-04	-	1.90E-03	4.58E-04	4.58E-04
Benzo(a)anthracene	46	1	1.30E-01	-	1.30E-01	--	1.30E-01
Benzo(a)pyrene	46	1	1.20E-01	-	1.20E-01	--	1.20E-01
Benzo(b)fluoranthene	46	1	1.20E-01	-	1.20E-01	--	1.20E-01
Benzo(g,h,i)perylene	46	1	6.20E-02	-	6.20E-02	--	6.20E-02
Benzo(k)fluoranthene	46	1	1.00E-01	-	1.00E-01	--	1.00E-01
Beryllium	166	49	1.39E-01	-	8.00E-01	3.73E-01	3.73E-01
Butyl benzyl phthalate	46	1	2.90E-01	-	2.90E-01	--	2.90E-01
Cadmium	166	53	1.84E-01	-	1.31E+00	4.01E-01	4.01E-01
Carbon disulfide	174	29	3.60E-04	-	8.20E-03	1.50E-03	1.50E-03
Chromium	166	166	1.54E+00	-	1.60E+02	2.55E+01	2.55E+01
Chrysene	46	1	1.30E-01	-	1.30E-01	--	1.30E-01
Cobalt	166	166	8.12E-01	-	1.60E+01	6.49E+00	6.49E+00
Copper	166	166	2.02E+00	-	1.39E+02	1.25E+01	1.25E+01
Dibenz(a,h)anthracene	46	1	1.70E-02	-	1.70E-02	--	1.70E-02
Ethanol	145	34	5.90E-02	-	1.50E-01	9.78E-02	9.78E-02
Ethylbenzene	174	1	1.90E-04	-	1.90E-04	--	1.90E-04
Fluoranthene	46	2	1.10E-02	-	4.10E-02	--	4.10E-02
Fluorene	46	1	1.20E-02	-	1.20E-02	--	1.20E-02
Indeno(1,2,3-cd)pyrene	46	1	5.50E-02	-	5.50E-02	--	5.50E-02
Lead	238	233	1.50E-01	-	7.54E+01	6.23E+00	6.23E+00
Mercury	166	89	1.00E-02	-	2.22E-01	3.47E-02	3.47E-02
Molybdenum	166	6	1.34E-01	-	1.45E+00	--	1.45E+00
Naphthalene	198	17	1.40E-02	-	9.10E-01	3.96E-02	3.96E-02
Nickel	166	164	9.30E-01	-	6.66E+01	9.72E+00	9.72E+00
Petroleum - Diesel	307	133	3.42E+00	-	7.90E+02	4.08E+01	4.08E+01
Petroleum - Gasoline	259	8	4.80E-02	-	1.00E+00	--	1.00E+00
Petroleum - Motor Oil	284	161	3.80E+00	-	3.20E+03	1.69E+02	1.69E+02
Phenanthrene	46	3	1.00E-02	-	1.20E-02	--	1.20E-02
p-Isopropyltoluene	174	1	3.60E-03	-	3.60E-03	--	3.60E-03
Pyrene	46	2	1.30E-02	-	5.00E-02	--	5.00E-02
Selenium	166	6	4.40E-01	-	6.89E-01	--	6.89E-01
Silver	166	12	9.02E-02	-	2.10E-01	1.07E-01	1.07E-01
tert-Butyl alcohol (TBA)	145	19	5.40E-03	-	2.80E-02	1.02E-02	1.02E-02
Thallium	167	66	1.80E-01	-	1.49E+01	2.60E+00	1.49E+01
Toluene	174	5	5.30E-04	-	1.10E-03	--	1.10E-03
Vanadium	166	166	6.08E+00	-	1.46E+02	3.68E+01	3.68E+01
Xylenes (Mixed Isomers)	174	3	4.00E-04	-	6.90E-04	--	6.90E-04
Zinc	166	165	1.09E+01	-	1.19E+03	8.50E+01	8.50E+01

1. The lab reported m,p-xylene and o-xylene separately. These isomers were combined for the purposes of this risk screening.
2. Petroluem - Gasoline includes carbon ranges C4 - C10 presented by Ardent, TPH-g presented by Pathforward and TPH Gasoline C4-C12 presented by Northgate.
3. Petroluem - Diesel includes carbon ranges C10 - C28 presented by Ardent, TPH-d presented by Pathforward, TPH Diesel C13-C22 presented by Northgate and Diesel Range Organics [C10-C28] presented by Roux.
4. Petroluem - Motor Oil includes carbon ranges C23 - C35 presented by Ardent, TPH-mo presented by Pathforward and TPH Motor Oil C23-C32 presented by Northgate.
5. All units are in mg/kg (mg/kg = milligrams per kilograms)
6. Data includes unique and duplicate samples. Each sample was treated as discrete data point.
7. The selected EPC for each compound is the minimum of the 95% upper confidence limit (95%UCL) and maximum detected concentration. Except for the thallium outlier identified in the hotspot evaluation, for which the maximum is used.

Table 8c: Summary of Hazard Indices and Incremental Lifetime Cancer Risk Estimates: Outdoor Commercial/Industrial Soil (<=2' bgs) - Virtual Analysis
8996 Etiwanda Avenue, Rancho Cucamonga, California

Compound	Cas No.	EPC (mg/kg)	Commercial/ Industrial Screening Level Cancer (mg/kg)	Commercial/ Industrial Screening Level Non-Cancer (mg/kg)	Incremental Lifetime Cancer Risk (ILCR)	Hazard Quotient (HQ)	Target Organ
		(1)		(2)	(3)	(4)	
1-Methylnaphthalene	90-12-0	1.40E-02	3.00E+01	2.20E+04	5E-10	6E-07	Respiratory
2-Butanone	78-93-3	1.04E-02	NS	1.90E+05	--	5E-08	Body Weight
2-Hexanone	591-78-6	1.10E-02	NS	1.30E+03	--	8E-06	Neurological/Nervous System
2-Methylnaphthalene	91-57-6	1.70E-02	NS	1.30E+03	--	1E-05	Respiratory
4-Methyl-2-pentanone	108-10-1	5.00E-03	NS	1.40E+05	--	4E-08	Developmental
Acenaphthene	83-32-9	1.60E-02	NS	2.30E+04	--	7E-07	Hepatic
Acenaphthylene	208-96-8	1.20E-02	NS	NS	--	--	--
Acetone	67-64-1	4.64E-02	NS	1.10E+06	--	4E-08	Neurological/Nervous System
Antimony	7440-36-0	1.60E+00	NS	4.70E+02	--	3E-03	Whole Body
Aroclor-1248	12672-29-6	2.40E-01	5.80E-01	8.40E+00	4E-07	3E-02	Whole Body
Aroclor-1254	11097-69-1	2.20E-01	5.90E-01	8.40E+00	4E-07	3E-02	Whole Body
Aroclor-1260	11096-82-5	2.27E-01	6.00E-01	8.40E+00	4E-07	3E-02	Whole Body
Aroclor-1262	37324-23-5	1.72E-01	5.90E-01	8.40E+00	3E-07	2E-02	Whole Body
Aroclor-1268	11100-14-4	5.80E-01	5.90E-01	8.40E+00	1E-06	7E-02	Whole Body
Barium	7440-39-3	1.05E+02	NS	2.20E+05	--	5E-04	Neurological/Nervous System
Benzene	71-43-2	4.93E-04	1.40E+00	4.60E+01	4E-10	1E-05	Blood
Benzo(a)anthracene	56-55-3	1.30E-01	1.20E+01	NS	1E-08	--	Developmental
Benzo(a)pyrene	50-32-8	1.20E-01	1.30E+00	1.30E+02	9E-08	9E-04	Developmental
Benzo(b)fluoranthene	205-99-2	1.20E-01	1.30E+01	NS	9E-09	--	Developmental
Benzo(g,h,i)perylene	191-24-2	6.20E-02	NS	NS	--	--	--
Benzo(k)fluoranthene	207-08-9	1.00E-01	1.30E+02	NS	8E-10	--	Developmental
Beryllium	7440-41-7	4.51E-01	6.90E+03	2.30E+02	7E-11	2E-03	Gastrointestinal System
Butyl benzyl phthalate	85-68-7	2.90E-01	7.80E+02	1.10E+05	4E-10	3E-06	Hepatic
Cadmium	7440-43-9	4.32E-01	9.30E+03	1.00E+02	5E-11	4E-03	Renal
Carbon disulfide	75-15-0	4.60E-03	NS	3.50E+03	--	1E-06	Whole Body
Chromium	16065-83-1	3.53E+01	NS	1.80E+06	--	2E-05	Whole Body
Chrysene	218-01-9	1.30E-01	1.30E+03	NS	1E-10	--	Developmental
Cobalt	7440-48-4	7.29E+00	1.90E+03	3.50E+02	4E-09	2E-02	Thyroid
Copper	7440-50-8	1.44E+01	NS	4.70E+04	--	3E-04	Gastrointestinal System
Dibenz(a,h)anthracene	53-70-3	1.70E-02	3.10E-01	NS	5E-08	--	Developmental
Ethanol	64-17-5	1.10E-01	NS	NS	--	--	--
Ethylbenzene	100-41-4	1.90E-04	2.50E+01	1.70E+04	8E-12	1E-08	Hepatic
Fluoranthene	206-44-0	4.10E-02	NS	1.80E+04	--	2E-06	Whole Body
Fluorene	86-73-7	1.20E-02	NS	1.70E+04	--	7E-07	Blood
Indeno(1,2,3-cd)pyrene	193-39-5	5.50E-02	1.30E+01	NS	4E-09	--	Developmental
Mercury	7439-97-6	3.41E-02	NS	4.40E+00	--	8E-03	Neurological/Nervous System
Molybdenum	7439-98-7	1.45E+00	NS	5.80E+03	--	3E-04	Renal
Naphthalene	91-20-3	6.00E-01	6.50E+00	5.70E+02	9E-08	1E-03	Body Weight
Nickel	7440-02-0	9.55E+00	6.40E+04	1.10E+04	1E-10	9E-04	Body Weight
Petroleum - Diesel	TPH Diesel C13-C22	7.63E+01	NS	1.22E+03	--	6E-02	Whole Body
Petroleum - Gasoline	TPH Gasoline C4-C12	8.70E-02	NS	2.00E+03	--	4E-05	Whole Body
Petroleum - Motor Oil	TPH Motor Oil C23-C32	3.88E+02	NS	1.80E+05	--	2E-03	--
Phenanthrene	85-01-8	1.20E-02	NS	NS	--	--	--
Pyrene	129-00-0	5.00E-02	NS	1.30E+04	--	4E-06	Renal
Selenium	7782-49-2	4.73E-01	NS	5.80E+03	--	8E-05	Whole Body
Silver	7440-22-4	2.10E-01	NS	5.80E+03	--	4E-05	Skin
tert-Butyl alcohol (TBA)	75-65-0	2.80E-02	6.50E+03	2.70E+05	4E-12	1E-07	Renal
Thallium	7440-28-0	1.49E+01	NS	1.20E+01	--	1E+00	Skin
Vanadium	7440-62-2	4.37E+01	NS	5.80E+03	--	8E-03	Dermal
Xylenes (Mixed Isomers)	1330-20-7	6.90E-04	NS	2.50E+03	--	3E-07	Whole Body
Zinc	7440-66-6	1.26E+02	NS	3.50E+05	--	4E-04	Blood

Total:	**3E-06**	**2E+00**
Blood HI:	--	**4E-04**
Body Weight HI:	--	**2E-03**
Dermal HI:	--	**8E-03**
Developmental HI:	--	**9E-04**
Gastrointestinal System HI:	--	**2E-03**
Hepatic HI:	--	**3E-06**
Neurological/Nervous System HI:	--	**8E-03**
Renal HI:	--	**5E-03**
Respiratory HI:	--	**1E-05**
Skin HI:	--	**1E+00**
Thyroid HI:	--	**2E-02**
Whole Body HI:	--	**2E-01**

Notes:

1. Exposure Point Concentration (EPC) = EPC as shown in Table 8a
2. Commercial/Industrial Screening Levels (SL) as provided in Table 2b; utilized Human Health Risk Assessment Note 3: DTSC-Modified Screening Levels found in HHRA-Note-3-Tables-June2020-Revised-May2022A.xlsx. revised May 2022, SFBRWQCB 2019 ESLs (SFBRWQCB, 2019), and USEPA Regional Screening Levels (RSLs) dated May 2023 when unavailable in Note 3. USEPA RSLs utilize a Target ILCR of 1E-06 and a Target HI of 1.
3. Incremental Lifetime Cancer Risk (ILCR)=EPC/SL*1E-06
4. Hazard Quotient (HQ) = EPC/ SL
5. NS = No Standard, -- = No Risk Estimate
6. mg/kg = milligrams per kilogram
7. Lead and arsenic are not included in this risk estimate as exposures to these compounds were evaluated separately.
8. Target endpoints as described in the RSL calculator metadata for RfD (which drives the construction worker exposure). When a target organ is not listed the RSL calculator metadata, the system described in the IRIS database is utilized. Systems or target endpoints described as "other" or not otherwise listed default to "Whole Body" except for PAHs, which are set to "Developmental" to match the target organ for benzo(a)pyrene.

Table 8d: Summary of Hazard Indices and Incremental Lifetime Cancer Risk Estimates: Outdoor Commercial/Industrial Soil (<=10' bgs) - Virtual Analysis
8996 Etiwanda Avenue, Rancho Cucamonga, California

Compound	Cas No.	EPC (mg/kg)	Commercial/ Industrial Screening Level Cancer (mg/kg)	Commercial/ Industrial Screening Level Non-Cancer (mg/kg)	Incremental Lifetime Cancer Risk (ILCR)	Hazard Quotient (HQ)
		(1)	(2)		(3)	(4)
1,1-Dichloroethane	75-34-3	6.20E-04	1.60E+01	7.10E+03	4E-11	9E-08
1-Methylnaphthalene	90-12-0	1.40E-02	3.00E+01	2.20E+04	5E-10	6E-07
2-Butanone	78-93-3	7.94E-03	NS	1.90E+05	--	4E-08
2-Hexanone	591-78-6	1.10E-02	NS	1.30E+03	--	8E-06
2-Methylnaphthalene	91-57-6	1.70E-02	NS	1.30E+03	--	1E-05
4-Methyl-2-pentanone	108-10-1	5.00E-03	NS	1.40E+05	--	4E-08
Acenaphthene	83-32-9	1.60E-02	NS	2.30E+04	--	7E-07
Acenaphthylene	208-96-8	1.20E-02	NS	NS	--	--
Acetone	67-64-1	3.75E-02	NS	1.10E+06	--	3E-08
Antimony	7440-36-0	2.88E-01	NS	4.70E+02	--	6E-04
Aroclor-1248	12672-29-6	2.40E-01	5.80E-01	8.40E+00	4E-07	3E-02
Aroclor-1254	11097-69-1	1.92E-01	5.90E-01	8.40E+00	3E-07	2E-02
Aroclor-1260	11096-82-5	1.99E-01	6.00E-01	8.40E+00	3E-07	2E-02
Aroclor-1262	37324-23-5	1.72E-01	5.90E-01	8.40E+00	3E-07	2E-02
Aroclor-1268	11100-14-4	5.80E-01	5.90E-01	8.40E+00	1E-06	7E-02
Barium	7440-39-3	9.80E+01	NS	2.20E+05	--	4E-04
Benzene	71-43-2	4.58E-04	1.40E+00	4.60E+01	3E-10	1E-05
Benzo(a)anthracene	56-55-3	1.30E-01	1.20E+01	NS	1E-08	--
Benzo(a)pyrene	50-32-8	1.20E-01	1.30E+00	1.30E+02	9E-08	9E-04
Benzo(b)fluoranthene	205-99-2	1.20E-01	1.30E+01	NS	9E-09	--
Benzo(g,h,i)perylene	191-24-2	6.20E-02	NS	NS	--	--
Benzo(k)fluoranthene	207-08-9	1.00E-01	1.30E+02	NS	8E-10	--
Beryllium	7440-41-7	3.73E-01	6.90E+03	2.30E+02	5E-11	2E-03
Butyl benzyl phthalate	85-68-7	2.90E-01	7.80E+02	1.10E+05	4E-10	3E-06
Cadmium	7440-43-9	4.01E-01	9.30E+03	1.00E+02	4E-11	4E-03
Carbon disulfide	75-15-0	1.50E-03	NS	3.50E+03	--	4E-07
Chromium	16065-83-1	2.55E+01	NS	1.80E+06	--	1E-05
Chrysene	218-01-9	1.30E-01	1.30E+03	NS	1E-10	--
Cobalt	7440-48-4	6.49E+00	1.90E+03	3.50E+02	3E-09	2E-02
Copper	7440-50-8	1.25E+01	NS	4.70E+04	--	3E-04
Dibenz(a,h)anthracene	53-70-3	1.70E-02	3.10E-01	NS	5E-08	--
Ethanol	64-17-5	9.78E-02	NS	NS	--	--
Ethylbenzene	100-41-4	1.90E-04	2.50E+01	1.70E+04	8E-12	1E-08
Fluoranthene	206-44-0	4.10E-02	NS	1.80E+04	--	2E-06
Fluorene	86-73-7	1.20E-02	NS	1.70E+04	--	7E-07
Indeno(1,2,3-cd)pyrene	193-39-5	5.50E-02	1.30E+01	NS	4E-09	--
Mercury	7439-97-6	3.47E-02	NS	4.40E+00	--	8E-03
Molybdenum	7439-98-7	1.45E+00	NS	5.80E+03	--	3E-04
Naphthalene	91-20-3	3.96E-02	6.50E+00	5.70E+02	6E-09	7E-05
Nickel	7440-02-0	9.72E+00	6.40E+04	1.10E+04	2E-10	9E-04
Petroleum - Diesel	TPH Diesel C13-C22	4.08E+01	NS	1.22E+03	--	3E-02
Petroleum - Gasoline	TPH Gasoline C4-C12	1.00E+00	NS	2.00E+03	--	5E-04
Petroleum - Motor Oil	TPH Motor Oil C23-C32	1.69E+02	NS	1.80E+05	--	9E-04
Phenanthrene	85-01-8	1.20E-02	NS	NS	--	--
p-Isopropyltoluene	99-87-6	3.60E-03	NS	NS	--	--
Pyrene	129-00-0	5.00E-02	NS	1.30E+04	--	4E-06
Selenium	7782-49-2	6.89E-01	NS	5.80E+03	--	1E-04
Silver	7440-22-4	1.07E-01	NS	5.80E+03	--	2E-05
tert-Butyl alcohol (TBA)	75-65-0	1.02E-02	6.50E+03	2.70E+05	2E-12	4E-08
Thallium	7440-28-0	1.49E+01	NS	1.20E+01	--	1E+00
Toluene	108-88-3	1.10E-03	NS	5.30E+03	--	2E-07
Vanadium	7440-62-2	3.68E+01	NS	5.80E+03	--	6E-03
Xylenes (Mixed Isomers)	1330-20-7	6.90E-04	NS	2.50E+03	--	3E-07
Zinc	7440-66-6	8.50E+01	NS	3.50E+05	--	2E-04
				Total:	**3E-06**	**1E+00**

Notes:
1. Exposure Point Concentration (EPC) = EPC as shown in Table 8b
2. Commercial/Industrial Screening Levels (SL) as provided in Table 2b; utilized Human Health Risk Assessment Note 3: DTSC-Modified Screening Levels found in HHRA-Note-3-Tables-June2020-Revised-May2022A.xlsx. revised May 2022, SFBRWQCB 2019 ESLs (SFBRWQCB, 2019), and USEPA Regional Screening Levels (RSLs) dated May 2023 when unavailable in Note 3. USEPA RSLs utilize a Target ILCR of 1E-06 and a Target HI of 1.

3. Incremental Lifetime Cancer Risk (ILCR)=EPC/SL*1E-06
4. Hazard Quotient (HQ) = EPC/ SL
5. NS = No Standard, -- = No Risk Estimate
6. mg/kg = milligrams per kilogram
7. Lead and arsenic are not included in this risk estimate as exposures to these compounds were evaluated separately.

Table 8e: Summary of Hazard Indices and Incremental Lifetime Cancer Risk: Construction Worker Soil - Virtual Analysis
8996 Etiwanda Avenue, Rancho Cucamonga, California

Compound	Cas No.	EPC (mg/kg)	Construction Worker Screening Level Cancer (mg/kg)	Construction Worker Screening Level Non-Cancer (mg/kg)	Incremental Lifetime Cancer Risk (ILCR)	Hazard Quotient (HQ)
		(1)	(2)		(3)	(4)
1,1-Dichloroethane	75-34-3	6.20E-04	8.49E+01	1.49E+03	7E-12	4E-07
1-Methylnaphthalene	90-12-0	1.40E-02	1.89E+02	5.27E+03	7E-11	3E-06
2-Butanone	78-93-3	7.94E-03	NS	4.36E+04	--	2E-07
2-Hexanone	591-78-6	1.10E-02	NS	2.99E+02	--	4E-05
2-Methylnaphthalene	91-57-6	1.70E-02	NS	3.00E+02	--	6E-05
4-Methyl-2-pentanone	108-10-1	5.00E-03	NS	2.88E+04	--	2E-07
Acenaphthene	83-32-9	1.60E-02	NS	5.68E+03	--	3E-06
Acenaphthylene	208-96-8	1.20E-02	NS	NS	--	--
Acetone	67-64-1	3.75E-02	NS	3.05E+05	--	1E-07
Antimony	7440-36-0	2.88E-01	NS	1.23E+02	--	2E-03
Aroclor-1248	12672-29-6	2.40E-01	3.78E+00	2.09E+00	6E-08	1E-01
Aroclor-1254	11097-69-1	1.92E-01	3.88E+00	2.14E+00	5E-08	9E-02
Aroclor-1260	11096-82-5	1.99E-01	3.93E+00	2.16E+00	5E-08	9E-02
Aroclor-1262	37324-23-5	1.72E-01	5.38E+02	3.36E+02	3E-10	5E-04
Aroclor-1268	11100-14-4	5.80E-01	5.38E+02	3.36E+02	1E-09	2E-03
Barium	7440-39-3	9.80E+01	NS	2.04E+03	--	5E-02
Benzene	71-43-2	4.58E-04	7.85E+00	9.60E+00	6E-11	5E-05
Benzo(a)anthracene	56-55-3	1.30E-01	2.79E+03	NS	5E-11	--
Benzo(a)pyrene	50-32-8	1.20E-01	8.29E+00	6.78E+00	1E-08	2E-02
Benzo(b)fluoranthene	205-99-2	1.20E-01	8.29E+01	NS	1E-09	--
Benzo(g,h,i)perylene	191-24-2	6.20E-02	NS	NS	--	--
Benzo(k)fluoranthene	207-08-9	1.00E-01	6.54E+02	NS	2E-10	--
Beryllium	7440-41-7	3.73E-01	1.28E+02	2.05E+01	3E-09	2E-02
Butyl benzyl phthalate	85-68-7	2.90E-01	5.30E+03	2.76E+04	5E-11	1E-05
Cadmium	7440-43-9	4.01E-01	1.70E+02	1.42E+01	2E-09	3E-02
Carbon disulfide	75-15-0	1.50E-03	NS	7.29E+02	--	2E-06
Chromium	16065-83-1	2.55E+01	NS	5.09E+05	--	5E-05
Chrysene	218-01-9	1.30E-01	6.54E+03	NS	2E-11	--
Cobalt	7440-48-4	6.49E+00	3.41E+01	2.02E+01	2E-07	3E-01
Copper	7440-50-8	1.25E+01	NS	1.36E+04	--	9E-04
Dibenz(a,h)anthracene	53-70-3	1.70E-02	2.07E+00	NS	8E-09	--
Ethanol	64-17-5	9.78E-02	NS	NS	--	--
Ethylbenzene	100-41-4	1.90E-04	1.41E+02	3.95E+03	1E-12	5E-08
Fluoranthene	206-44-0	4.10E-02	NS	4.68E+03	--	9E-06
Fluorene	86-73-7	1.20E-02	NS	4.17E+03	--	3E-06
Indeno(1,2,3-cd)pyrene	193-39-5	5.50E-02	8.29E+01	NS	7E-10	--
Mercury	7439-97-6	3.47E-02	NS	9.25E-01	--	4E-02
Molybdenum	7439-98-7	1.45E+00	NS	1.41E+03	--	1E-03
Naphthalene	91-20-3	3.96E-02	3.97E+01	1.19E+02	1E-09	3E-04
Nickel	7440-02-0	9.72E+00	1.18E+03	5.79E+01	8E-09	2E-01
Petroleum - Diesel	H Diesel C13-C	4.08E+01	NS	1.07E+06	--	4E-05
Petroleum - Gasoline	H Gasoline C4-(	1.00E+00	NS	2.40E+06	--	4E-07
Petroleum - Motor Oil	Motor Oil C23-	1.69E+02	NS	NS	--	--
Phenanthrene	85-01-8	1.20E-02	NS	NS	--	--
p-Isopropyltoluene	99-87-6	3.60E-03	NS	NS	--	--
Pyrene	129-00-0	5.00E-02	NS	3.44E+03	--	1E-05
Selenium	7782-49-2	6.89E-01	NS	1.66E+03	--	4E-04
Silver	7440-22-4	1.07E-01	NS	1.70E+03	--	6E-05
tert-Butyl alcohol (TBA)	75-65-0	1.02E-02	4.96E+04	6.64E+04	2E-13	2E-07
Thallium	7440-28-0	1.49E+01	NS	3.39E+00	--	4E+00
Toluene	108-88-3	1.10E-03	NS	1.12E+03	--	1E-06
Vanadium	7440-62-2	3.68E+01	NS	3.37E+02	--	1E-01
Xylenes (Mixed Isomers)	1330-20-7	6.90E-04	NS	5.18E+02	--	1E-06
Zinc	7440-66-6	8.50E+01	NS	1.02E+05	--	8E-04
				Total:	**4E-07**	**5E+00**

Notes:
1. Exposure Point Concentration (EPC) = EPC as shown in Table 8b
2. Screening values based on toxicity values as described in Table 3a and exposure factors as described in DTSC Note 1 (2019). Screening values calculated in EPA the EPA RSL Calculator as shown in Attachment 5.
3. Incremental Lifetime Cancer Risk (ILCR)=EPC/SL*1E-06
4. Hazard Quotient (HQ) = EPC/ SL
5. NS = No Standard, -- = No Risk Estimate
6. mg/kg = milligrams per kilogram
7. Lead and arsenic are not included in this risk estimate as exposures to these compounds were evaluated separately.

Table 8f: Summary of Hazard Indices and Incremental Lifetime Cancer Risk: Construction Worker Soil - Virtual Analysis (Thallium 95% UCL)
8996 Etiwanda Avenue, Rancho Cucamonga, California

Compound	Cas No.	EPC (mg/kg)	Construction Worker Screening Level Cancer (mg/kg)	Construction Worker Screening Level Non-Cancer (mg/kg)	Incremental Lifetime Cancer Risk (ILCR)	Hazard Quotient (HQ)	Target Organ
		(1)		(2)	(3)	(4)	
1,1-Dichloroethane	75-34-3	6.20E-04	8.49E+01	1.49E+03	7E-12	4E-07	Renal
1-Methylnaphthalene	90-12-0	1.40E-02	1.89E+02	5.27E+03	7E-11	3E-06	Respiratory
2-Butanone	78-93-3	7.94E-03	NS	4.36E+04	--	2E-07	Body Weight
2-Hexanone	591-78-6	1.10E-02	NS	2.99E+02	--	4E-05	Neurological/Nervous Syste
2-Methylnaphthalene	91-57-6	1.70E-02	NS	3.00E+02	--	6E-05	Respiratory
4-Methyl-2-pentanone	108-10-1	5.00E-03	NS	2.88E+04	--	2E-07	Developmental
Acenaphthene	83-32-9	1.60E-02	NS	5.68E+03	--	3E-06	Hepatic
Acenaphthylene	208-96-8	1.20E-02	NS	NS	--	--	--
Acetone	67-64-1	3.75E-02	NS	3.05E+05	--	1E-07	Neurological/Nervous Syste
Antimony	7440-36-0	2.88E-01	NS	1.23E+02	--	2E-03	Whole Body
Aroclor-1248	12672-29-6	2.40E-01	3.78E+00	2.09E+00	6E-08	1E-01	Whole Body
Aroclor-1254	11097-69-1	1.92E-01	3.88E+00	2.14E+00	5E-08	9E-02	Whole Body
Aroclor-1260	11096-82-5	1.99E-01	3.93E+00	2.16E+00	5E-08	9E-02	Whole Body
Aroclor-1262	37324-23-5	1.72E-01	5.38E+02	3.36E+02	3E-10	5E-04	Whole Body
Aroclor-1268	11100-14-4	5.80E-01	5.38E+02	3.36E+02	1E-09	2E-03	Whole Body
Barium	7440-39-3	9.80E+01	NS	2.04E+03	--	5E-02	Neurological/Nervous Syste
Benzene	71-43-2	4.58E-04	7.85E+00	9.60E+00	6E-11	5E-05	Blood
Benzo(a)anthracene	56-55-3	1.30E-01	2.79E+03	NS	5E-11	--	Developmental
Benzo(a)pyrene	50-32-8	1.20E-01	8.29E+00	6.78E+00	1E-08	2E-02	Developmental
Benzo(b)fluoranthene	205-99-2	1.20E-01	8.29E+01	NS	1E-09	--	Developmental
Benzo(g,h,i)perylene	191-24-2	6.20E-02	NS	NS	--	--	--
Benzo(k)fluoranthene	207-08-9	1.00E-01	6.54E+02	NS	2E-10	--	Developmental
Beryllium	7440-41-7	3.73E-01	1.28E+02	2.05E+01	3E-09	2E-02	Gastrointestinal System
Butyl benzyl phthalate	85-68-7	2.90E-01	5.30E+03	2.76E+04	5E-11	1E-05	Hepatic
Cadmium	7440-43-9	4.01E-01	1.70E+02	1.42E+01	2E-09	3E-02	Renal
Carbon disulfide	75-15-0	1.50E-03	NS	7.29E+02	--	2E-06	Whole Body
Chromium	16065-83-1	2.55E+01	NS	5.09E+05	--	5E-05	Whole Body
Chrysene	218-01-9	1.30E-01	6.54E+03	NS	2E-11	--	Developmental
Cobalt	7440-48-4	6.49E+00	3.41E+01	2.02E+01	2E-07	3E-01	Thyroid
Copper	7440-50-8	1.25E+01	NS	1.36E+04	--	9E-04	Gastrointestinal System
Dibenz(a,h)anthracene	53-70-3	1.70E-02	2.07E+00	NS	8E-09	--	Developmental
Ethanol	64-17-5	9.78E-02	NS	NS	--	--	--
Ethylbenzene	100-41-4	1.90E-04	1.41E+02	3.95E+03	1E-12	5E-08	Hepatic
Fluoranthene	206-44-0	4.10E-02	NS	4.68E+03	--	9E-06	Whole Body
Fluorene	86-73-7	1.20E-02	NS	4.17E+03	--	3E-06	Blood
Indeno(1,2,3-cd)pyrene	193-39-5	5.50E-02	8.29E+01	NS	7E-10	--	Developmental
Mercury	7439-97-6	3.47E-02	NS	9.25E-01	--	4E-02	Neurological/Nervous Syste
Molybdenum	7439-98-7	1.45E+00	NS	1.41E+03	--	1E-03	Renal
Naphthalene	91-20-3	3.96E-02	3.97E+01	1.19E+02	1E-09	3E-04	Body Weight
Nickel	7440-02-0	9.72E+00	1.18E+03	5.79E+01	8E-09	2E-01	Body Weight
Petroleum - Diesel	TPH Diesel C13-C22	4.08E+01	NS	1.07E+06	--	4E-05	Whole Body
Petroleum - Gasoline	TPH Gasoline C4-C12	1.00E+00	NS	2.40E+06	--	4E-07	Whole Body
Petroleum - Motor Oil	TPH Motor Oil C23-C32	1.69E+02	NS	NS	--	--	--
Phenanthrene	85-01-8	1.20E-02	NS	NS	--	--	--
p-Isopropyltoluene	99-87-6	3.60E-03	NS	NS	--	--	--
Pyrene	129-00-0	5.00E-02	NS	3.44E+03	--	1E-05	Renal
Selenium	7782-49-2	6.89E-01	NS	1.66E+03	--	4E-04	Whole Body
Silver	7440-22-4	1.07E-01	NS	1.70E+03	--	6E-05	Skin
tert-Butyl alcohol (TBA)	75-65-0	1.02E-02	4.96E+04	6.64E+04	2E-13	2E-07	Renal
Thallium	7440-28-0	2.60E+00	NS	3.39E+00	--	8E-01	Skin
Toluene	108-88-3	1.10E-03	NS	1.12E+03	--	1E-06	Renal
Vanadium	7440-62-2	3.68E+01	NS	3.37E+02	--	1E-01	Dermal
Xylenes (Mixed Isomers)	1330-20-7	6.90E-04	NS	5.18E+02	--	1E-06	Whole Body
Zinc	7440-66-6	8.50E+01	NS	1.02E+05	--	8E-04	Blood

Total:	**4E-07**	**2E+00**
Blood HI:	--	**9E-04**
Body Weight HI:	--	**2E-01**
Dermal HI:	--	**1E-01**
Developmental HI:	--	**2E-02**
Gastrointestinal System HI:	--	**2E-02**
Hepatic HI:	--	**1E-05**
Neurological/Nervous System HI:	--	**9E-02**
Renal HI:	--	**3E-02**
Respiratory HI:	--	**6E-05**
Skin HI:	--	**8E-01**
Thyroid HI:	--	**3E-01**
Whole Body HI:	--	**3E-01**

Notes:

1. Exposure Point Concentration (EPC) = EPC as shown in Table 8b except for Thallium which is shown as the 95% UCL
2. Screening values based on toxicity values as described in Table 3a and exposure factors as described in DTSC Note 1 (2019). Screening values calculated in EPA the EPA RSL Calculator as shown in Attachment 5.
3. Incremental Lifetime Cancer Risk (ILCR)=EPC/SL*1E-06
4. Hazard Quotient (HQ) = EPC/ SL
5. NS = No Standard, -- = No Risk Estimate
6. mg/kg = milligrams per kilogram
7. Lead and arsenic are not included in this risk estimate as exposures to these compounds were evaluated separately.
8. Target endpoints as described in the RSL calculator metadata for RfD (which drives the construction worker exposure). When a target organ is not listed the RSL calculator metadata, the system described in the IRIS database is utilized. Systems or target endpoints described as "other" or not otherwise listed default to "Whole Body" except for PAHs, which are set to "Developmental" to match the target organ for benzo(a)pyrene.

FIGURES

1. Site Location Map

2. Recent Investigation Sample Locations (2019-2022)

3. Soil Sample Locations Former Transformers Units 1 & 2

4. Draft Master Site Plan

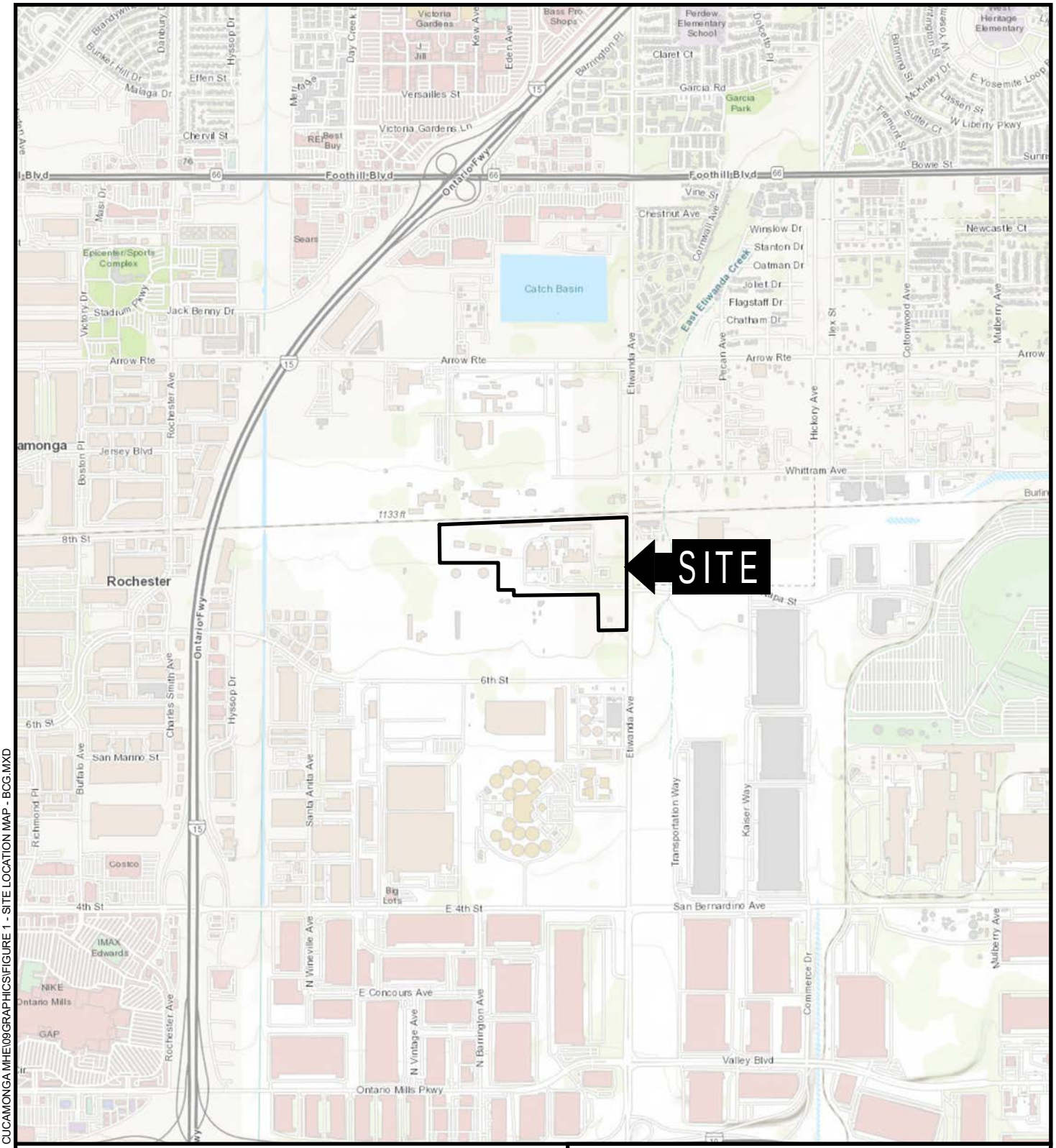
5. Indoor Air Exposure Units and Sampling Locations

6a. Soil Vapor Sample Locations Included in 95% UCL Calculations - Chloroform

6b. Soil Vapor Sample Locations Included in 95% UCL Calculations – Carbon Tetrachloride

6c. Soil Vapor Sample Locations Included in 95% UCL Calculations - PCE

6d. Soil Vapor Sample Locations Included in 95% UCL Calculations – 1,1-DCA



QUADRANGLE LOCATION



N

1,000 0 1,000'

Title:

SITE LOCATION MAP

8996 ETIWANDA AVENUE,
RANCHO CUCAMONGA, CALIFORNIA

Prepared for:

BTC III ETIWANDA COMMERCE CENTER LP

ROUX

Compiled by: O.B	Date: 04/08/21
Prepared by: O.B.	Scale: AS SHOWN
Project Mgr: J.A.	Project: 3653.0001L
File: Figure 1 - Site Location Map - BCG.mxd	

FIGURE 1

\\SRVLACAFP1\LA SHARED\CLIENTS\3653.0001L BCG CUCAMONGA MHE\09GRAPHICS\FIGURE 1 - SITE LOCATION MAP - BCG.MXD



Legend

- Site Features
- Approximate Site Boundary

SCE RFI 2021-2022
- Soil Sample
- Soil and Soil Vapor Sample
- Soil Vapor Sample
- Canceled Boring

Path Forward Nov 2020
- Soil Sample
- Soil and Soil Vapor Sample
- Refusal

ERM/Ardent October 2019
- Soil Sample
- Soil Vapor Sample
- Soil Sample Horizontal Composites

SCE Oct-Nov 2020
- Soil Sample

ERM Soil Cleanup Sample Locations
- Excavation Confirmation Soil Sample

Roux Sep-Nov 2022
- Soil Characterization Sample (Total PCBs > 0.58 mg/kg)
- Soil Characterization Sample (Total PCBs ≤ 0.58 mg/kg)

N

150' 0' 150'

Source: DRAFT RCRA FACILITY INVESTIGATION REPORT, Figure 5, Northgate Environmental Management, Inc., Feb. 15, 2023

Title: **RECENT INVESTIGATION SAMPLE LOCATIONS (2019-2022)**

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA

Prepared for:
BTC III ETIWANDA COMMERCE CENTER LP

ROUX

Compiled by: M.H.N.	Date: 18 MAY 2023
Prepared by: T.C.	Scale: AS SHOWN
Project Mgr: M.J.N.	Project: 3653.0001L000
File: 027_3653.0001L_ALL SOIL SAMPLES.DWG	

FIGURE 2

S:\CLIENTS\3653.0001L BCG CUCAMONGA MHE\10CAD\027_3653.0001L_ALL SOIL SAMPLES.DWG

S:\CLIENTS\3653.0001L BCG CUCAMONGA MHE\10CAD\028_3653.0001L_CHARACTERIZATION SAMPLING RESULTS ZOOM.DWG



SOIL

55B 0.19

50H 1.76 | 50C 0.08 | 50A 0.38 | 50B 0.88 | 50E 0.44

45H 2.28 | 45E 2.26 | 45F 3.6 | 45C <0.055 | 45A 0.26 | 45B 1.1 | 45D <0.052

CONCRETE

40I 0.46 | 40F 1.61 | 40G 4.6 | 40E 4.7 | 40C <0.055 | 40B 0.42 | 40A 1.8 | 40D <0.051

35I 2.17 | 35F 1.72 | 35G 1.02 | 35H 6.3 | 35E 4.9 | 35D 1.3 | 35A 1.2 | 35B 0.69 | 35C <0.051

30J 2.31 | 30H 1.09 | 30I 1.9 | 30F 0.21 | 30C 2.4 | 30A 750 | 30B 2.0 | 30D 0.74

25G 3.2 | 25F 1.04 | 25E 0.064 | 25C 1.2 | 25A 398 | 25B 5.6 | 25D 1.1

20N 0.38 | 20D 0.57 | 20E 6.4 | 20I 1.3 | 20J 0.63

SOIL

ASPHALT

15C <0.20 | 15D <0.10 | 15E 1.7 | 15F 1.7 | 15G 1.7

15B <0.20 | 10D 1.5 | 10E 1.0 | 10F 21.8 | 10G 1.6

LEGEND

- SAMPLE LOCATION (TOTAL PCBs < 0.58 MG/KG)
- SAMPLE LOCATION (TOTAL PCBs > 0.58 MG/KG)

NOTES

1. PCB = POLYCHLORINATED BIPHENYLS
2. MG/KG = MILLIGRAM PER KILOGRAM
3. TOTAL PCB RESULTS ARE SHOWN IN MG/KG
4. GRID IS 5 X 5 FEET

N

5' 0 5'

Title:

SOIL SAMPLE LOCATIONS FORMER TRANSFORMERS UNITS 1 & 2

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA

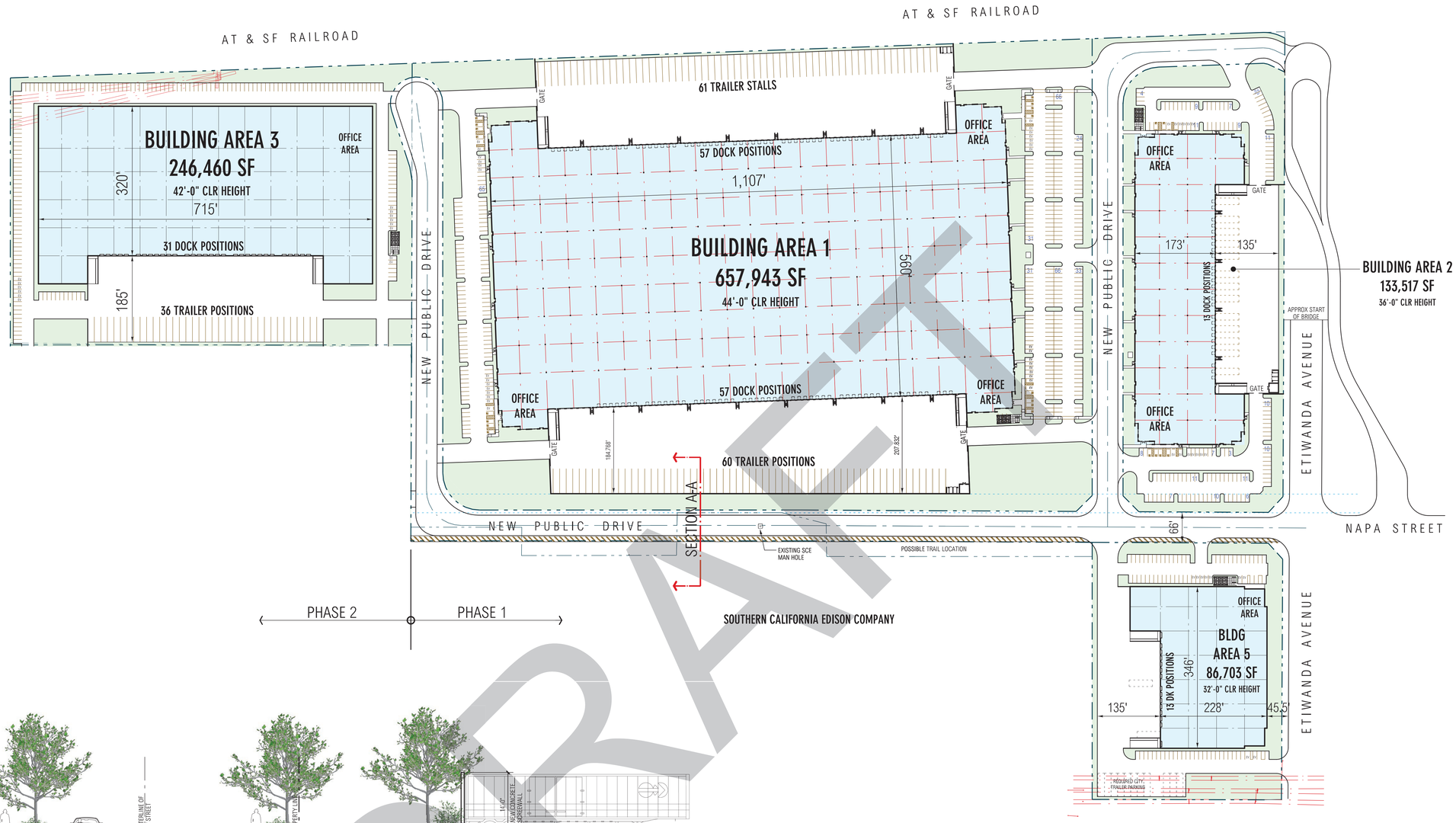
Prepared for

BTC III ETIWANDA COMMERCE CENTER LP

ROUX

Compiled by: C.M.	Date: 20 NOV 2023
Prepared by: T.C.	Scale: AS SHOWN
Project Mgr: M.J.N.	Project: 3653.0001L
File: 028_3653.0001L_CHARACTERIZATION SAMPLING RESULTS ZOOM.DWG	

FIGURE 3



STREET SECTION A-A

SCALE: 1" = 10'-0"

DRAFT MASTER SITE PLAN

SCALE: 1" = 100'-0"

0' 20' 50' 100' 200'

PROJECT DATA

BLDG.	SITE AREA		MEZZ AREA	WHSE AREA	G.F.A.	FAR COVERAGE	TRUCK DOORS	TRAILER PARKING (STALLS)	TOTAL PARKING (STALLS)	BUILDING INTERIOR CLEAR HEIGHT
1	1,367,747 SF	31.40 AC	20,000 SF	637,943 SF	657,943 SF	48.1%	114	121	291	44 FT
2	326,013 SF	7.48 AC	5,000 SF	128,517 SF	133,517 SF	41.0%	13	13	132	36 FT
3	498,287 SF	11.44 AC	5,000 SF	241,460 SF	246,460 SF	49.5%	31	36	138	42 FT
5	222,677 SF	5.11 AC	2,500 SF	84,203 SF	86,703 SF	38.9%	13	13	84	32 FT
TOTALS	**2,414,724 SF**	**55.43 AC**	**32,500 SF**	**1,092,123 SF**	**1,124,623 SF**	**46.6%**	**171**	**183**	**645**	

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15231 Alton Parkway, Suite 100
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CONSULTANT

PROFESSIONAL SEALS

ETIWANDA AVENUE
RANCHO CUCAMONGA

ETIWANDA AVENUE
CITY OF RANCHO CUCAMONGA, CALIFORNIA

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MARK	DATE	DESCRIPTION
CD		
BID		
PC		
DD		
SD	8/5/22	SCHEMATIC DESIGN

RGA PROJECT NO:	19135.00
OWNER PROJECT NO:	00000.00
CAD FILE NAME:	19135-00-A1-1P
DRAWN BY:	JH
CHK'D BY:	JH
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SHEET TITLE

MASTER SITE PLAN

Figure 4

SHEET: A1-1P



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Title: **INDOOR AIR EXPOSURE UNITS AND SAMPLING LOCATIONS**

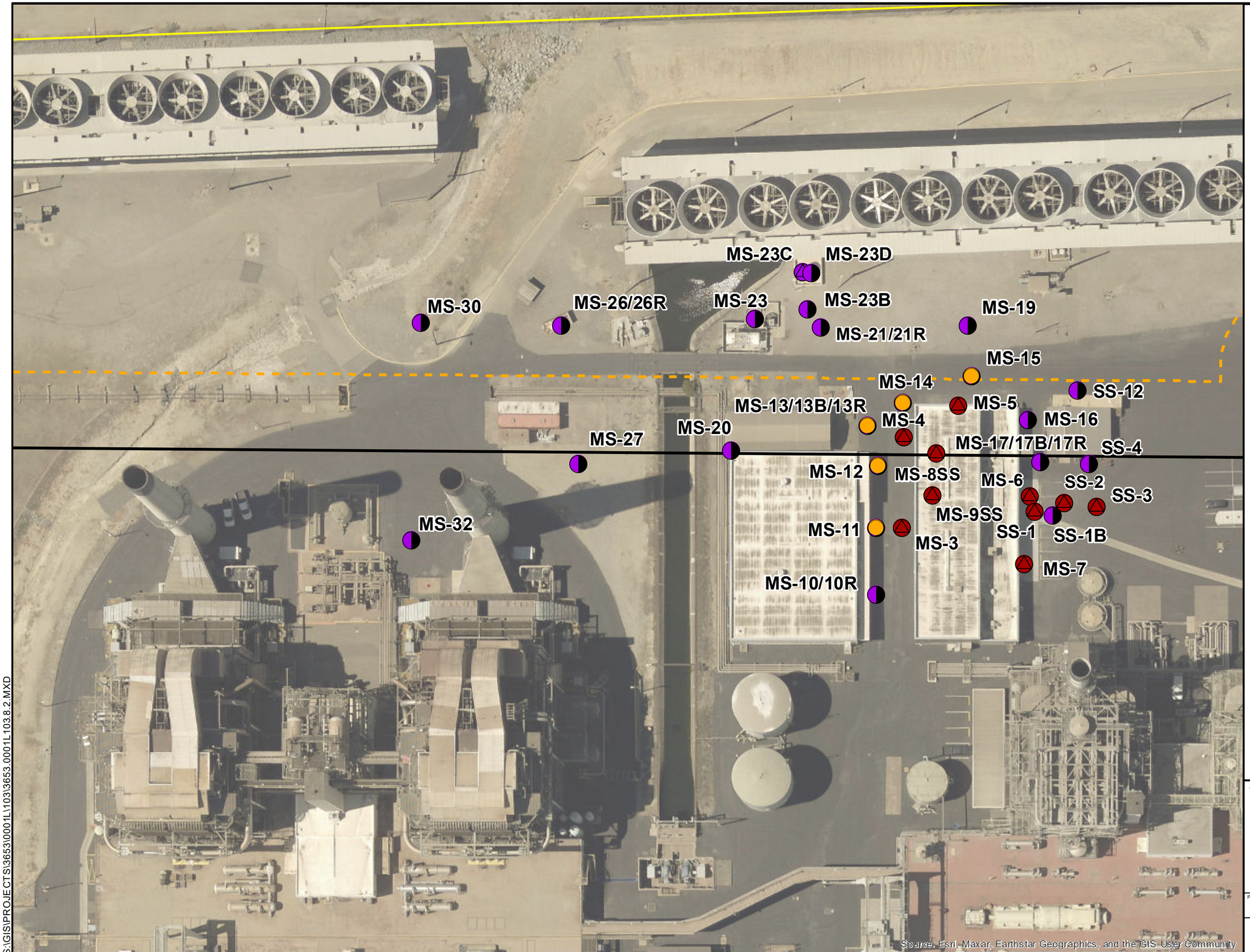
8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CALIFORNIA

Prepared for:
BTC III ETIWANDA COMMERCE CENTER LP

ROUX

Compiled by: M.H.N.	Date: 03/15/23
Prepared by: M.H.N.	Scale: AS SHOWN
Project Mgr: M.J.N.	Project: 3653.0001L000
File: 3653.0001L103.5.mxd	

PLATE **5**



LEGEND

- SAMPLE RESULTS USED FOR CHLOROFORM 95% UCL CALCULATION
- SCE (2021-2022) SOIL GAS SAMPLE
- SCE (2021-2022) SOIL & SOIL GAS SAMPLE
- ERM ARDENT (OCT 2019) SOIL GAS SAMPLE
- SITE BOUNDARY
- PROPOSED BUILDING FOOTPRINT
- EXPOSURE UNIT

NOTES

1. BUILDING LAYOUT SOURCE: RGA, SITE PLAN - PHASE 2A, SHEET A1-1P, OCTOBER 21, 2021
2. THE SAME CONSTITUENTS WERE ANALYZED AT ALL SOIL VAPOR SAMPLE DEPTHS PER LOCATION
3. ONLY SOIL VAPOR SAMPLE LOCATIONS ANALYZED FOR CHLOROFORM, CARBON TETRACHLORIDE, PCE, AND/OR 1,1-DCA ARE SHOWN IN THIS FIGURE

N

Feet

0 30 60 120

Title:

SOIL VAPOR SAMPLE LOCATIONS INCLUDED IN 95% UCL CALCULATIONS - CHLOROFORM

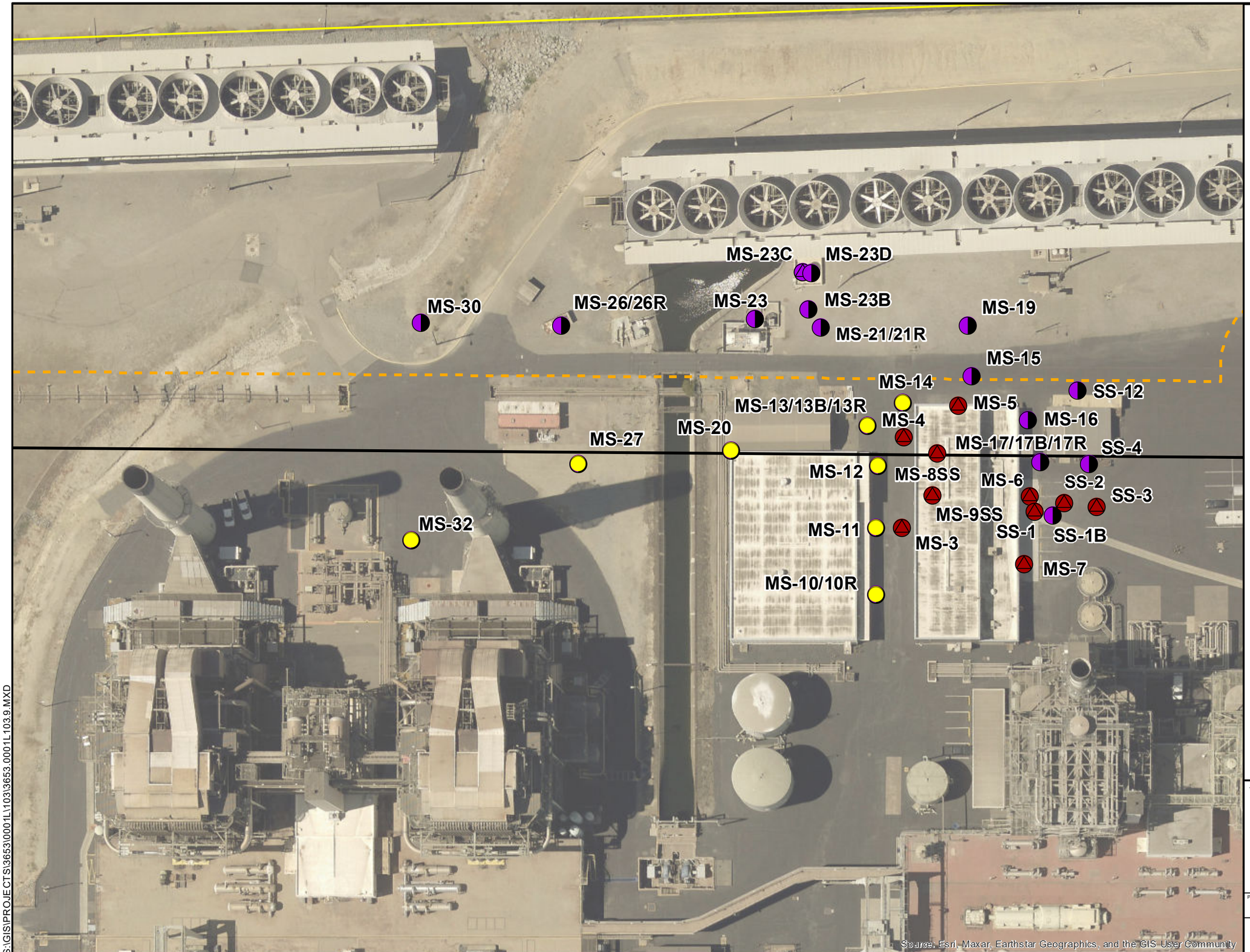
8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CALIFORNIA

Prepared for:
BTC III ETIWANDA COMMERCE CENTER LP

ROUX

Compiled by: M.H.N.	Date: 10/17/23	FIGURE
Prepared by: T.C.	Scale: AS SHOWN	6a
Project Mgr: M.J.N.	Project: 3653.0001L000	
File: 3653.0001L103.8.2.mxd		

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LEGEND

- SAMPLE RESULTS USED FOR CARBON TETRACHLORIDE 95% UCL CALCULATION
- SCE (2021-2022) SOIL GAS SAMPLE
- SCE (2021-2022) SOIL & SOIL GAS SAMPLE
- ERM ARDENT (OCT 2019) SOIL GAS SAMPLE
- SITE BOUNDARY
- PROPOSED BUILDING FOOTPRINT
- EXPOSURE UNIT

NOTES

1. BUILDING LAYOUT SOURCE: RGA, SITE PLAN - PHASE 2A, SHEET A1-1P, OCTOBER 21, 2021
2. THE SAME CONSTITUENTS WERE ANALYZED AT ALL SOIL VAPOR SAMPLE DEPTHS PER LOCATION
3. ONLY SOIL VAPOR SAMPLE LOCATIONS ANALYZED FOR CHLOROFORM, CARBON TETRACHLORIDE, PCE, AND/OR 1,1-DCA ARE SHOWN IN THIS FIGURE

N

Feet
0 30 60 120

Title:

SOIL VAPOR SAMPLE LOCATIONS INCLUDED IN 95% UCL CALCULATIONS - CARBON TETRACHLORIDE

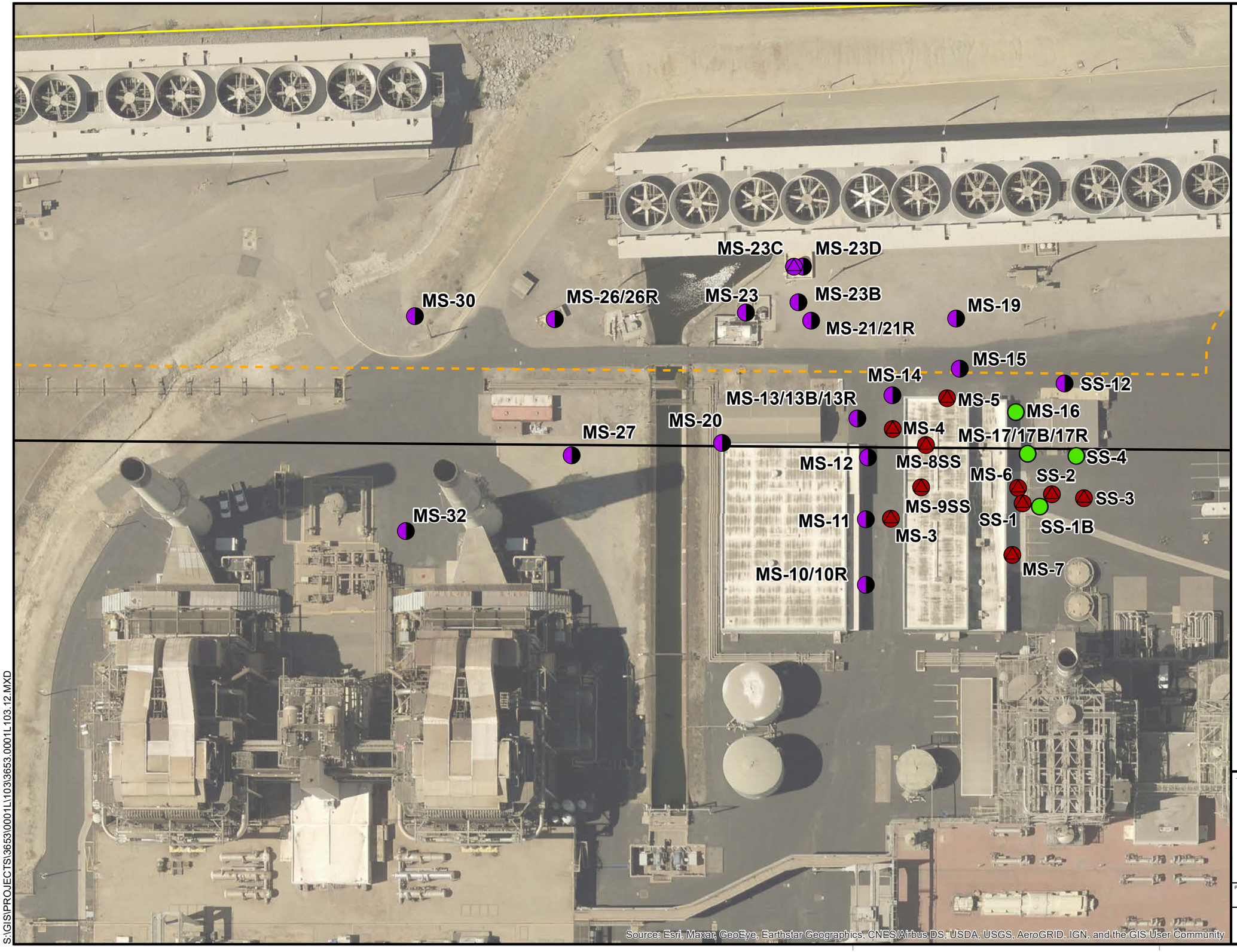
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RANCHO CUCAMONGA, CALIFORNIA

Prepared for:
BTC III ETIWANDA COMMERCE CENTER LP

ROUX

Compiled by: M.H.N.	Date: 10/17/23	FIGURE
Prepared by: T.C.	Scale: AS SHOWN	6b
Project Mgr: M.J.N.	Project: 3653.0001L000	
File: 3653.0001L103.9.mxd		

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LEGEND

- SAMPLE RESULTS USED FOR PCE 95% UCL CALCULATION
- SCE (2021-2022) SOIL GAS SAMPLE
- SCE (2021-2022) SOIL & SOIL GAS SAMPLE
- ERM ARDENT (OCT 2019) SOIL GAS SAMPLE
- SITE BOUNDARY
- PROPOSED BUILDING FOOTPRINT
- EXPOSURE UNIT

NOTES

1. BUILDING LAYOUT SOURCE: RGA, SITE PLAN - PHASE 2A, SHEET A1-1P, OCTOBER 21, 2021
2. PCE = TETRACHLOROETHENE
3. THE SAME CONSTITUENTS WERE ANALYZED AT ALL SOIL VAPOR SAMPLE DEPTHS PER LOCATION
4. ONLY SOIL VAPOR SAMPLE LOCATIONS ANALYZED FOR CHLOROFORM, CARBON TETRACHLORIDE, PCE, AND/OR 1,1-DCA ARE SHOWN IN THIS FIGURE

N

Feet
0 30 60 120

Title:

SOIL VAPOR SAMPLE LOCATIONS INCLUDED IN 95% UCL CALCULATIONS - PCE

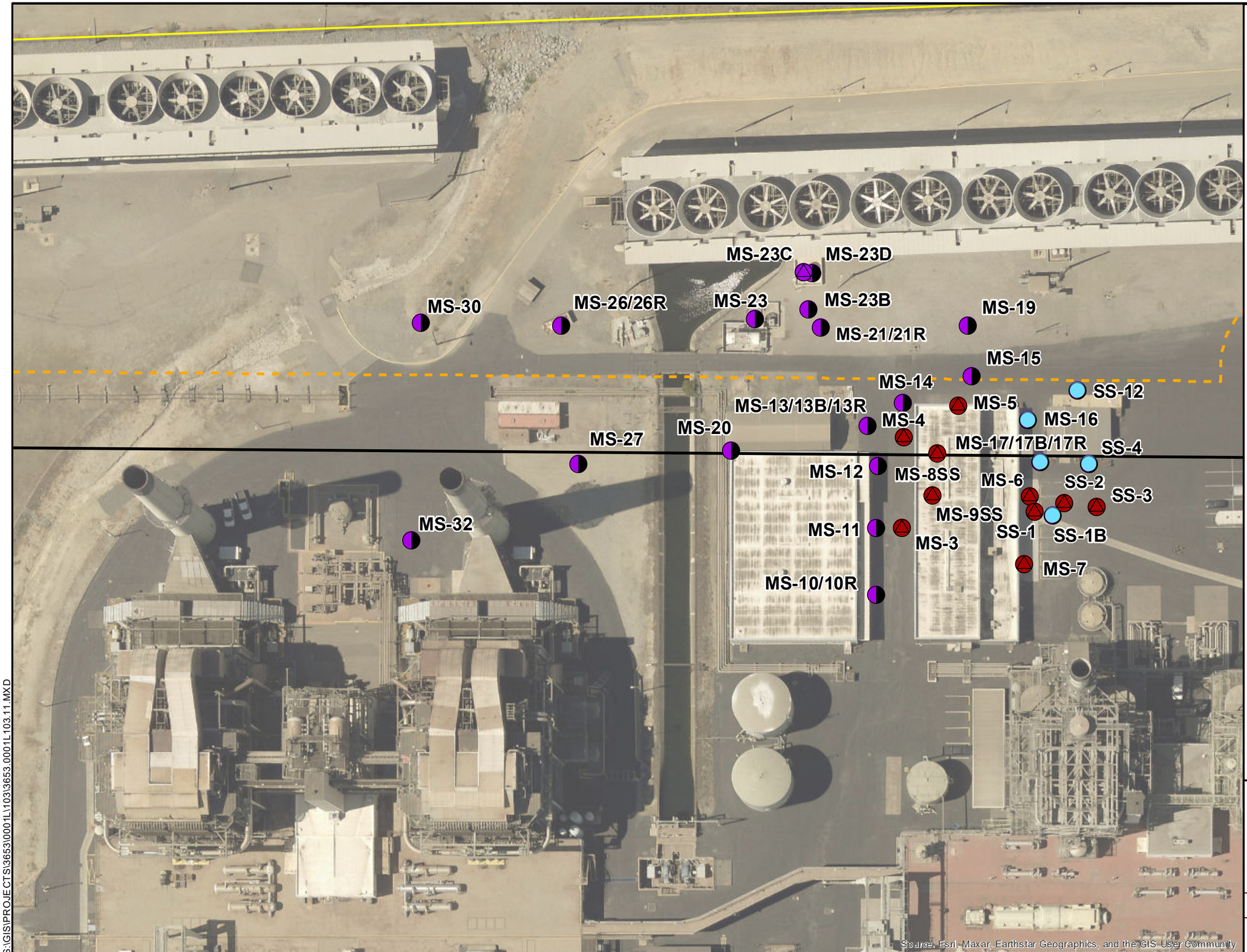
8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CALIFORNIA

Prepared for:
BTC III ETIWANDA COMMERCE CENTER LP

ROUX

Compiled by: M.H.N.	Date: 11/06/23	FIGURE
Prepared by: T.C.	Scale: AS SHOWN	6c
Project Mgr: M.J.N.	Project: 3653.0001L000	
File: 3653.0001L103.12.mxd		

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LEGEND

- SAMPLE RESULTS USED FOR 1, 1-DCA 95% UCL CALCULATION
- SCE (2021-2022) SOIL GAS SAMPLE
- SCE (2021-2022) SOIL & SOIL GAS SAMPLE
- ERM ARDENT (OCT 2019) SOIL GAS SAMPLE
- SITE BOUNDARY
- PROPOSED BUILDING FOOTPRINT
- EXPOSURE UNIT

NOTES

1. BUILDING LAYOUT SOURCE: RGA, SITE PLAN - PHASE 2A, SHEET A1-1P, OCTOBER 21, 2021
2. 1, 1-DCA = 1, 1-DICHLOROETHANE
3. THE SAME CONSTITUENTS WERE ANALYZED AT ALL SOIL VAPOR SAMPLE DEPTHS PER LOCATION
4. ONLY SOIL VAPOR SAMPLE LOCATIONS ANALYZED FOR CHLOROFORM, CARBON TETRACHLORIDE, PCE, AND/OR 1,1-DCA ARE SHOWN IN THIS FIGURE

N

Feet
0 30 60 120

Title:

SOIL VAPOR SAMPLE LOCATIONS INCLUDED IN 95% UCL CALCULATIONS - 1, 1-DCA

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CALIFORNIA

Prepared for:
BTC III ETIWANDA COMMERCE CENTER LP

ROUX

Compiled by: M.H.N.	Date: 10/17/23	FIGURE
Prepared by: T.C.	Scale: AS SHOWN	6d
Project Mgr: M.J.N.	Project: 3653.0001L000	
File: 3653.0001L103.11.mxd		

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ATTACHMENTS

1. Soil and Soil Vapor Data Used in HHSE
2. ProUCL Output
3. Q-Q Plots – Thallium, Aroclor 1254, Lead and Arsenic
4. Summary of Samples Assigned to Exposure Units
5. EPA RSL Calculator Output – Construction Worker Screening Levels
6. DTSC's Lead Risk Assessment Spreadsheet

ATTACHMENT 1

Soil and Soil Vapor Data Used in HHSE

TABLES

TABLE 1
Excavation Confirmation Arsenic Soil Analytical Results

Excavation Number	Sample Type	Sample ID	Sample Depth (Feet bgs)	Date Sampled	Title 22 Metals EPA Method 6020B Arsenic (mg/kg)	Soil Removed
1	Sidewall	EX1-W2-0.5	0.5	8/16/2021	5.65	N
	Sidewall	EX1-E2-0.5	0.5	8/16/2021	12.3	Y
	Sidewall	EX1-E4-0.5	0.5	10/18/2021	<1.03	N
	Sidewall	EX1-N1-0.5	0.5	8/16/2021	1.34	N
	Sidewall	EX1-S1-0.5	0.5	8/16/2021	1.86	Y
	Sidewall	EX1-N2-0.5	0.5	8/16/2021	4.03	N
	Sidewall	EX1-S2-0.5	0.5	8/16/2021	2.35	Y
	Sidewall	EX1-E1-0.5	0.5	8/16/2021	4.20	N
	Sidewall	EX1-W1-0.5	0.5	8/16/2021	38.3	Y
	Sidewall	EX1-W4-0.5	0.5	10/18/2021	<1.01	N
	Sidewall	EX1-E3-0.5	0.5	8/18/2021	3.03	N
	Sidewall	EX1-N3-0.5	0.5	8/17/2021	<0.995	Y
	Sidewall	EX1-S3-0.5	0.5	8/16/2021	3.15	N
	Sidewall	EX1-N4-0.5	0.5	8/16/2021	1.01	Y
	Sidewall	EX1-S4-0.5	0.5	8/16/2021	<0.957	N
	Sidewall	EX1-W3-0.5	0.5	8/18/2021	1.56	N
	Bottom	EX1-B1-0.5	0.5	8/27/2021	8.62	N
	Bottom	EX1-B2-1	1.0	8/27/2021	1.99	N
	Bottom	EX1-B3-0.5	0.5	8/27/2021	9.63	N
	Bottom	EX1-B4-0.5	0.5	8/27/2021	1.87	N
	Bottom	EX1-B5-1	1.0	8/27/2021	1.39	N
	Bottom	EX1-B6-0.5	0.5	8/27/2021	8.35	N
1B	Sidewall	EX1B-E-0.5	0.5	8/16/2021	32.7	Y
	Sidewall	EX1B-E2-0.5	0.5	10/18/2021	<0.976	N
	Sidewall	EX1B-W-0.5	0.5	8/16/2021	2.15	N
	Bottom	B19-1	1.0	3/28/2005	11.5	N
	Bottom	B20-1	1.0	3/28/2005	4.83	N
1C	Sidewall	EX1C-W-0.75	0.75	8/16/2021	<1.03	N
	Bottom	EX1C-B-1.5	1.5	8/16/2021	<0.995	N
	Sidewall	EX1C-E-0.75	0.75	8/16/2021	73.2	Y
	Sidewall	EX1C-E2-0.75	0.75	10/18/2021	<1.01	N
2	Sidewall	EX2-W3-0.5	0.5	8/18/2021	<1.05	N
	Sidewall	EX2-W2-0.5	0.5	8/17/2021	4.12	N
	Sidewall	EX2-E2-0.5	0.5	8/17/2021	18.1	Y
	Sidewall	EX2-E4-0.5	0.5	10/18/2021	<0.971	N
	Sidewall	EX2-N1-0.5	0.5	8/17/2021	<1.03	N
	Sidewall	EX2-S1-0.5	0.5	8/17/2021	4.92	Y
	Sidewall	EX2-N2-0.5	0.5	8/17/2021	<1.04	N
	Sidewall	EX2-S2-0.5	0.5	8/17/2021	4.27	Y
	Sidewall	EX2-E1-0.5	0.5	8/17/2021	3.19	N
	Sidewall	EX2-W1-0.5	0.5	8/17/2021	37.7	Y
	Sidewall	EX2-W4-0.5	0.5	10/18/2021	<0.962	N
	Sidewall	EX2-E3-0.5	0.5	8/18/2021	11.3	N
	Sidewall	EX2-N3-0.5	0.5	8/17/2021	2.63	Y
	Sidewall	EX2-S3-0.5	0.5	8/17/2021	<1.00	N
	Sidewall	EX2-N4-0.5	0.5	8/17/2021	2.98	Y
	Sidewall	EX2-S4-0.5	0.5	8/17/2021	<0.995	N
	Bottom	EX2-B1-0.5	0.5	8/27/2021	1.09	N
	Bottom	EX2-B2-1	1.0	8/27/2021	<0.962	N
	Bottom	EX2-B3-0.5	0.5	8/27/2021	3.55	N
	Bottom	EX2-B4-0.5	0.5	8/27/2021	<1.03	N
	Bottom	EX2-B5-1	1.0	8/27/2021	3.53	N
	Bottom	EX2-B6-0.5	0.5	8/27/2021	2.36	N

TABLE 1
Excavation Confirmation Arsenic Soil Analytical Results

Excavation Number	Sample Type	Sample ID	Sample Depth (Feet bgs)	Date Sampled	Title 22 Metals EPA Method 6020B Arsenic (mg/kg)	Soil Removed
3	Sidewall	EX3-W2-0.5	0.5	8/17/2021	<1.05	N
	Sidewall	EX3-E2-0.5	0.5	8/17/2021	6.60	Y
	Sidewall	EX3-N1-0.5	0.5	8/17/2021	3.93	N
	Sidewall	EX3-S1-0.5	0.5	8/17/2021	9.51	Y
	Sidewall	EX3-N2-0.5	0.5	8/17/2021	1.59	N
	Sidewall	EX3-S2-0.5	0.5	8/17/2021	4.39	Y
	Sidewall	EX3-E1-0.5	0.5	8/17/2021	3.37	N
	Sidewall	EX3-W1-0.5	0.5	8/17/2021	42.8	Y
	Sidewall	EX3-W3-0.5	0.5	10/18/2021	<1.05	N
	Sidewall	EX3-E3-0.5	0.5	8/19/2021	24.7	Y
	Sidewall	EX3-E4-0.5	0.5	8/24/2021	2.09	N
	Sidewall	EX3-N3-0.5	0.5	8/17/2021	2.49	Y
	Sidewall	EX3-S3-0.5	0.5	8/17/2021	1.48	N
	Sidewall	EX3-N4-0.5	0.5	8/17/2021	7.64	Y
	Sidewall	EX-S4-0.5	0.5	8/17/2021	<1.04	N
	Bottom	EX3-B1-1	1.0	8/27/2021	5.04	N
	Bottom	EX3-B2-0.5	0.5	8/27/2021	14.7	Y
	Bottom	EX3-B2-1	1.0	8/27/2021	11.6	N
3B	Sidewall	EX3B-E-0.75	0.75	8/17/2021	1.47	N
	Bottom	EX3B-B-1.5	1.5	8/17/2021	12.3	Y
	Bottom	EX3B-B-2.0	2.0	8/19/2021	5.32	N
	Sidewall	EX3B-W-0.75	0.75	8/17/2021	19.7	Y
	Sidewall	EX3B-W2-1	1	10/18/2021	<1.01	N
4	Sidewall	EX4-W2-0.5	0.5	8/18/2021	1.25	N
	Sidewall	EX4-E2-0.5	0.5	8/18/2021	21.3	Y
	Sidewall	EX4-E5-0.5	0.5	10/18/2021	<0.985	N
	Sidewall	EX4-W3-0.5	0.5	8/19/2021	<1.03	N
	Sidewall	EX4-N1-0.5	0.5	8/18/2021	5.91	N
	Sidewall	EX4-S1-0.5	0.5	8/18/2021	1.96	Y
	Sidewall	EX4-N2-0.5	0.5	8/18/2021	1.23	N
	Sidewall	EX4-S2-0.5	0.5	8/18/2021	4.38	Y
	Sidewall	EX4-W4-0.5	0.5	10/18/2021	<1.01	N
	Sidewall	EX4-E1-0.5	0.5	8/18/2021	28.7	Y
	Sidewall	EX4-E3-0.5	0.5	8/19/2021	3.67	N
	Sidewall	EX4-W1-0.5	0.5	8/18/2021	38.7	Y
	Sidewall	EX4-W5-1	1.0	10/18/2021	<0.962	N
	Sidewall	EX4-E4-0.5	0.5	8/19/2021	2.43	N
	Sidewall	EX4-N3-0.5	0.5	8/18/2021	3.32	Y
	Sidewall	EX4-S3-0.5	0.5	8/18/2021	<0.962	N
	Sidewall	EX4-N4-0.5	0.5	8/18/2021	1.33	Y
	Sidewall	EX4-S4-0.5	0.5	8/18/2021	<1.01	N
	Bottom	EX4-B1-0.5	0.5	8/27/2021	1.47	N
	Bottom	EX4-B2-1	1.0	8/27/2021	6.00	N
	Bottom	EX4-B3-0.5	0.5	8/27/2021	9.52	N
	Bottom	EX4-B4-1	1.0	8/27/2021	12.6	Y
	Bottom	EX4-B4-1.5	1.5	8/27/2021	15.9	Y
	Bottom	EX4-B4-2	2.0	8/31/2021	5.93	N
	Sidewall	EX4-B5-0.5	0.5	8/27/2021	14.4	Y
	Sidewall	EX4-B5-1	1.0	8/27/2021	11.4	N

TABLE 1
Excavation Confirmation Arsenic Soil Analytical Results

Excavation Number	Sample Type	Sample ID	Sample Depth (Feet bgs)	Date Sampled	Title 22 Metals EPA Method 6020B Arsenic (mg/kg)	Soil Removed
4A	Sidewall	EX4A-N-0.5	0.5	8/17/2021	1.01	N
	Sidewall	EX4A-E-0.5	0.5	8/17/2021	<0.996	N
	Sidewall	EX4A-S-0.5	0.5	8/17/2021	<1.04	N
	Bottom	B23-1	1.0	3/28/2005	10.3	N
	Sidewall	EX4A-W-0.5	0.5	8/17/2021	<1.01	N
4B	Sidewall	EX4B-W-0.75	0.75	8/17/2021	91.2	Y
	Sidewall	EX4B-W2-0.75	0.75	10/18/2021	<1.02	N
	Sidewall	EX4B-E-0.75	0.75	8/17/2021	<1.03	N
	Bottom	EX4B-B-1.5	1.5	8/17/2021	<0.995	N
4C	Bottom	EX4C-B-1.5	1.5	8/17/2021	<0.976	N
	Sidewall	B12-0.5	0.5	3/28/2005	4.22	N
	Sidewall	B12-1	1.0	3/28/2005	2.9	N
	Sidewall	EX4C-S-0.75	0.75	8/17/2021	4.06	Y
REGULATORY SCREENING CRITERIA						
				EPA Residential Soil RSLs	0.68	NA
				DTSC Residential Soil SLs	0.11	NA
				Background Concentration for Arsenic in Southern California	12.0	NA

Notes/Abbreviations:

	Arsenic concentrations exceed background concentration (site action level)
<0.995	Not detected at or above the indicated laboratory reporting limit
bgs	Below ground surface
DTSC	Department of Toxic Substances Control
DTSC Residential Soil SLs	DTSC Screening Level, updated June 2020
EPA	United States Environmental Protection Agency
EPA Residential Soil RSLs	EPA Region 9 Regional Screening Level, updated May 2021
mg/kg	Milligrams per kilogram (units)
N	No
NA	Not applicable
Y	Yes

Table 1
RFI Sampling Program Summary and Work Plan Deviations

AOI Number	Area of Interest (AOI)	Location or Special Instruction	Boring ID	Sample Depth (feet bgs)	Soil TPH by EPA 8015B (1)	Soil TPH-d/o by EPA 8015B (2)	Soil VOCs by EPA 8260B	Soil SVOCs including PAHs by EPA 8270C	Soil Lead by EPA Method 6020	Soil Metals by EPA Methods 6020/7471A	Soil PCBs by EPA 8082	Soil pH by EPA 9045C	Soil Gas Probe at Specified Depth(s) (3)	Soil Vapor VOCs by EPA 8260B	Description of Conditional Analyses Performed or Deviations from the RFI Work Plan
1	Distillate Tank for Unit 5 Peaker	Borings adjacent to the base of the tank	DT-1	2.5	A		H, P	H, P							No change from Work Plan
				5	A		H, P	H, P					Yes	A	
				10	A		H, P	H, P					Yes	A	
			DT-2	2.5	A		H, P	H, P							No change from Work Plan
				5	A		H, P	H, P					Yes	A	
				10	A		H, P	H, P					Yes	A	
			DT-3	2.5	A		H, P	H, P							No change from Work Plan
				5	A		H, P	H, P					Yes	A	
				10	A		H, P	H, P					Yes	A	
			DT-4	2.5	A		H, P	H, P							No change from Work Plan
				5	A		H, P	H, P					Yes	A	
				10	A		H, P	H, P					Yes	A	
2	Former Boiler Chemical Cleaning Basin (Closed)	Basin	None	None	No Sampling Proposed										N/A
3	South Retention Basin (Closed)	Basin	None	None	No Sampling Proposed										N/A
4	North Retention Basin (Closed)	Basin	None	None	No Sampling Proposed										N/A
5	Fueling Station	One boring adjacent to pump and the second boring adjacent to the UST	F5-1	2.5	A		A		A						No change from Work Plan
				5	A		A		A				Yes	A	
				10	A		H, P		H, P				Yes	A	
			F5-2	2.5	A		A		A						No change from Work Plan
				5	A		A		A				Yes	A	
				10	A		H, P		H, P				Yes	A	
6	Unit 5 (Peaker)	Peaker Transformer 1: Sampled by fill port and areas of staining (if present)	PT1-1	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			PT1-2	0							A				TPH concentrations in 0.5-foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				H				
			PT1-3	0							A				TPH concentrations in 0.5-foot sample exceeded 100 mg/kg and PCBs in 1-foot sample exceeded screening levels; additional analyses scheduled per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				~~H~~ A				
			PT1-3N (5-ft Step-out)	0							A				Additional 5-foot step-out soil boring advanced to delineate PCB concentrations in soil identified at PT1-3
				0.5							A				
				1							A				
				2.5							H				
			PT1-3E (5-ft Step-Out)	0							A				Additional 5-foot step-out soil boring advanced to delineate PCB concentrations in soil identified at PT1-3
				0.5							A				
				1							A				
				2.5							H				
			PT1-4	0							A				PCBs in 1-foot sample exceeded screening levels and 2.5-foot sample was analyzed per Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				~~H~~ A				
			PT1-4S (5-ft Step-out)	0							A				Additional 5-foot step-out soil boring advanced to delineate PCB concentrations in soil identified at PT1-4
				0.5							A				
				1							A				
				2.5							H				
			PT1-4E (5-ft Step-Out)	0							A				Additional 5-foot step-out soil boring advanced to delineate PCB concentrations in soil identified at PT1-4
				0.5							A				
				1							A				
				2.5							H				
		Peaker Transformer 2: Sampled by fill port and areas of staining (if present)	PT2-1	0							A				Additional small transformer identified during Site walk on August 6, 2021. SCE elected to advance four adjacent soil borings and collect soil samples consistent with transformer investigation strategy outlined in the Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				H				
			PT2-2	0							A				
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			PT2-3	0							A				
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			PT2-4	0							A				
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
		General Vicinity of Peaker Unit	P-1	2.5			A								No change from Work Plan
				5			A						Yes	A	
				10			A						Yes	A	
			P-1B (Step-Down)	20			A							A	Additional step-down boring advaned to vertically delineate VOCs in soil and soil vapor samples
				40			A							A	
			P-2	5									Yes	A	VOCs in soil vapor samples collected at P-1 exceeded screening levels. Soil vapor samples were collected at P-2 through P-4 per the Work Plan
				10									Yes	A	
			P-3	5									Yes	A	
				10									Yes	A	
			P-4	5									Yes	A	
				10									Yes	A	
			P-5 (Step-Out)	5			A						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs identified in soil vapor at Unit 5 Peaker area
				20			A						Yes	A	
			P-6 (Step-Out)	5			A						Yes	A	
				20			A						Yes	A	
			P-7	5									Yes	A	
			P-8 (Step-Out)	5			A						Yes	A	
				20			A						Yes	A	
			P-9 (Step-Out)	5			A						Yes	A	
				20			A						Yes	A	
7	Administration Building	Center of Site	None	None	No Sampling Proposed										N/A
8	Decommissioned RO Equip and Basin	S part of Site	None	None	No Sampling Proposed										N/A
9	Laydown Area	SW side of Site	None	None	No Sampling Proposed										N/A
10	Units 1 and 2 Cooling Towers	W side of Site	None	None	No Sampling Proposed										N/A

Table 1
RFI Sampling Program Summary and Work Plan Deviations

AOI Number	Area of Interest (AOI)	Location or Special Instruction	Boring ID	Sample Depth (feet bgs)	Soil TPH by EPA 8015B (1)	Soil TPH-d/o by EPA 8015B (2)	Soil VOCs by EPA 8260B	Soil SVOCs including PAHs by EPA 8270C	Soil Lead by EPA Method 6020	Soil Metals by EPA Methods 6020/7471A	Soil PCBs by EPA 8082	Soil pH by EPA 9045C	Soil Gas Probe at Specified Depth(s) (3)	Soil Vapor VOCs by EPA 8260B	Description of Conditional Analyses Performed or Deviations from the RFI Work Plan
11	Chadwick Channel	Center of Site	F11-1	0.5		A	A	A			A				No change from Work Plan
				2.5		A	A	A			A				
				5		H	H	H			H				
			F11-2A	0.5		A	A	A			A				No change from Work Plan
				2.5		A	A	A			A				
				5		H	H	H			H				
			F11-2B	0.5		A	A	A			A				No change from Work Plan
				2.5		A	A	A			A				
				5		H	H	H			H				
			F11-3	0.5		A	A	A			A				No change from Work Plan
				2.5		A	A	A			A				
				5		H	H	H			H				
			F11-4	0.5		A	A	A			A				No change from Work Plan
				2.5		A	A	A			A				
				5		H	H	H			H				
			F11-5	0.5		A	A	A			A				No change from Work Plan
				2.5		A	A	A			A				
				5		H	H	H			H				
			F11-6	0.5		A	A	A			A				No change from Work Plan
				2.5		A	A	A			A				
				5		H	H	H			H				
			F11-7	0.5		A	A	A			A				No change from Work Plan
				2.5		A	A	A			A				
				5		H	H	H			H				
			F11-8	0.5		A	A	A			A				No change from Work Plan
				2.5		A	A	A			A				
				5		H	H	H			H				
			F11-9	0.5		A	A	A			A				Hand auger refusal after multiple attempts to reach target depth: 2.5 and 5-foot samples not feasible/collected.
				~~2.5~~		~~A~~	~~A~~	~~A~~			~~A~~				
				~~5~~		~~H~~	~~H~~	~~H~~			~~H~~				
			F11-10	0.5		A	A	A			A				No change from Work Plan
				2.5		A	A	A			A				
				5		H	H	H			H				
12	Units 4 Cooling Towers and Cooling Tower Transformer	N part of Site	None	None	No Sampling Proposed										N/A
13	Generating Units 3 & 4	Center of Site	None	None	No Sampling Proposed										N/A
14	Hazardous Waste Accumulation Area	S part of Site	F14-1	0							A				No change from Work Plan
				0.5	A		A			A	A				
				1							A				
				2.5	A		A			A					
				5	H		H			H	H		Yes	A	
				10	H		H			H	H		Yes	A	
15	Generating Units 1 & 2	E part of Site	F15-1	5									Yes	A	No change from Work Plan
16	Warehouse	N Central part of Site, N of Units 1 and	Sampling in this area is summarized under maintenance shop (AOI 17)												N/A
17	Maintenance Shop	N Central part of Site, N of Units 1 and 2	MS-10/10R	0.5	A		A			A					One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs. Replacement soil vapor probe MS-10R was installed for soil vapor temporal variation analysis after original probe had been decommissioned.
				2.5	A		A			A					
				5	A		A			A			Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	
			MS-11	0.5	A		A								One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs
				2.5	A		A								
				5	A		A						Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	
			MS-12	0.5	A		A			A					One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs
				2.5	A		A			A					
				5	A		A			A			Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	
			MS-13/13R	0.5	A		A								One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs. Replacement soil vapor probe MS-13R was installed for soil vapor temporal variation analysis after original probe had been decommissioned.
				2.5	A		A								
				5	A		A						Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	
			MS-13B (Step-Down)	40			A						Yes	A	Additional step-down soil and soil vapor samples were collected at this location to vertically delineate VOCs
				60			A						Yes	A	
			MS-14	0.5	A		A			A					Soil vapor concentrations at 10 feet bgs were below screening levels. Analysis of soil and soil vapor at 20 feet was not warranted.
				2.5	A		A			A					
				5	A		A			A			Yes	A	
				10	H		H						Yes	A	
				15	H		H								
				20	H		H						Yes	~~A~~ H	
			MS-15	0.5	A		A								One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs
				2.5	A		A								
				5	A		A						Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	
			MS-16	0.5	A		A			A					One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs
				2.5	A		A			A					
				5	A		A			A			Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	
			MS-17/17R	0.5	A		A			A					One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs. Replacement soil vapor probe MS-17R was installed for soil vapor temporal variation analysis after original probe had been decommissioned.
				2.5	A		A			A					
				5	A		A			A			Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	
			MS-17B (Step-Down)	40			A						Yes	A	Additional step-down soil and soil vapor samples were collected at this location to vertically delineate VOCs
				60			A						Yes	A	
			MS-18	0.5	A		A								No change from Work Plan
				2.5	A		A								
				5	A		A						Yes	A	
				10	H		H						Yes	A	
				15	H		H								
				20	H		H						Yes	A	
			MS-19 (Step-Out)	5			A						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				10			H						Yes	H	
				20			A						Yes	A	
			MS-20 (Step-Out)	5			A						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				10			H						Yes	H	
				20			A						Yes	A	

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AOI Number	Area of Interest (AOI)	Location or Special Instruction	Boring ID	Sample Depth (feet bgs)	Soil TPH by EPA 8015B (1)	Soil TPH-d/o by EPA 8015B (2)	Soil VOCs by EPA 8260B	Soil SVOCs including PAHs by EPA 8270C	Soil Lead by EPA Method 6020	Soil Metals by EPA Methods 6020/7471A	Soil PCBs by EPA 8082	Soil pH by EPA 9045C	Soil Gas Probe at Specified Depth(s) (3)	Soil Vapor VOCs by EPA 8260B	Description of Conditional Analyses Performed or Deviations from the RFI Work Plan
17	Maintenance Shop	N Central part of Site, N of Units 1 and 2	MS-21/21R (Step-Out)	5			A						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs. Replacement soil vapor probe MS-21R was installed for soil vapor temporal variation analysis after original probe had been
				20			A						Yes	A	
			MS-22 (Step-Out)	5			A						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				20			A						Yes	A	
			MS-23 (Step-Out)	5			A						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				20			A						Yes	A	
			MS-23B (Step-Down)	40			A						Yes	A	Additional step-down soil and soil vapor samples were collected at this location to vertically delineate VOCs
				60			A						Yes	A	
				80			A						Yes	A	
				100			A						Yes	A	
			MS-23C (Step-Down)	125			A						Yes	A	Additional step-down soil and soil vapor samples were collected at this location to vertically delineate VOCs.
				150			A						Yes	A	
				175			H						Yes	A	
				190			A								
				200			A						Yes	A	
			MS-23D (Step-Down)	250									Yes	A	Additional step-down soil vapor samples were collected at this location to vertically delineate VOCs. A grab groundwater sample MS-23D-GW was also collected at 460 feet bgs via temp. well and bladder pump.
				300									Yes	A	
				350									Yes	A	
				400									Yes	A	
			MS-24 (Step-Out)	5			H						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				20			A						Yes	A	
			MS-25 (Step-Out)	5			H						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				20			A						Yes	A	
			MS-26/26R (Step-Out)	5			H						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs. Replacement soil
				20			A						Yes	A	
			MS-27 (Step-Out)	5			A						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				20			A						Yes	A	
			MS-28 (Step-Out)	5			A						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				20			H						Yes	A	
			MS-29 (Step-Out)	5			H						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				20			A						Yes	A	
			MS-30 (Step-Out)	5			H						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				20			A						Yes	A	
			MS-31 (Step-Out)	5			H						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				20			A						Yes	A	
			MS-32 (Step-Out)	5			A						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				20			A						Yes	A	
			SS-1B	0.5	A		A								One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs
				2.5	A		A								
				5	A		A						Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	
			SS-4	0.5	A		A			A					One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs
				2.5	A		A			A					
				5	A		A			A			Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	
			SS-5	0.5	A		A			A					Soil vapor concentrations at 10 feet bgs were below screening levels. Analysis of soil and soil vapor at 20 feet was not warranted.
				2.5	A		A			A					
				5	A		A			A			Yes	A	
				10	H		H						Yes	A	
				15	H		H								
				20	H		H						Yes	~~A~~ H	
			SS-6	0.5	A		A								No change from Work Plan
				2.5	A		A								
				5	A		A						Yes	A	
				10	H		H						Yes	A	
				15	H		H								
				20	H		H						Yes	A	
			SS-7	0.5	A		A								No change from Work Plan
				2.5	A		A								
				5	A		A						Yes	A	
				10	H		H						Yes	A	
				15	H		H								
				20	H		H						Yes	A	
			SS-8	0.5	A		A								Adjacent soil vapor sample locations did not identify concentrations above screening levels; soil vapor probes were not sampled at this location per the Work Plan
				2.5	A		A								
				5	A		A						Yes	~~A~~ H	
				10	H		H						Yes	~~A~~ H	
				15	H		H								
				20	H		H						Yes	~~A~~ H	
			SS-9	0.5	A		A								Adjacent soil vapor sample locations did not identify concentrations above screening levels; soil vapor probes were not sampled at this location per the Work Plan
				2.5	A		A								
				5	A		A						Yes	~~A~~ H	
				10	H		H						Yes	~~A~~ H	
				15	H		H								
				20	H		H						Yes	~~A~~ H	
			SS-10/10R	0.5	A		A			A					One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs. Replacement soil vapor probe SS-10R was installed for soil vapor temporal variation analysis after original probe had been decommissioned.
				2.5	A		A			A					
				5	A		A			A			Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	
			SS-11	0.5	A		A			A					One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs
				2.5	A		A			A					
				5	A		A			A			Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		H						Yes	A	
			SS-12	0.5	A		A			A					One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs. Replacement soil vapor probe SS-12R was installed and sampled due to tracer gas detection in original 5-foot samples.
				2.5	A		A			A					
				5	A		A			A			Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	

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18	Welding Shop	NE part of Site, N of Units 1 and 2	Sampling in this area is summarized under maintenance shop (AOI 17)												
19	Unit 3 Cooling Towers	N Central part of Site	None	None	No Sampling Proposed										
20	Capped Natural Gas Easement	E part of Site	None	None	No Sampling Proposed										
21	Cooling Tower Makeup Water Pond	Adjacent to diesel tank in SW corner of pond	F21-1 Boring Canceled	~~0.5~~	~~A~~		~~A~~								Diesel tank was determined to post date SCE's sale of property in 1998. DTSC was notified of this and feature was removed from the RFI sampling program.
				~~2.5~~	~~A~~		~~A~~								
				~~5~~	~~H~~		~~H~~						~~Yes~~	~~A~~	
				~~10~~	~~H~~		~~H~~						~~Yes~~	~~A~~	
		1st Transformer (northern) by Fill Port and Areas of Staining (if present)	F21-T1-1	0							A				Additional small transformer identified during Site walk on August 6, 2021. SCE elected to advance two adjacent soil borings and collect soil samples consistent with transformer investigation strategy outlined in the Work Plan. Samples where TPH concentrations exceeded 100 mg/kg were analyzed for VOCs per Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			F21-T1-2	0							A				
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
		2nd Transformer (southern) by Fill Port and Areas of Staining (if present)	F21-T2-1	0							A				Additional small transformer identified during Site walk on August 6, 2021. SCE elected to advance two adjacent soil borings and collect soil samples consistent with transformer investigation strategy outlined in the Work Plan. Samples where TPH concentrations exceeded 100 mg/kg were analyzed for VOCs per Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			F21-T2-2	0							A				
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
22	Construction and Operations Waste	NW part of Site	None	None	No Sampling Proposed										N/A
23	Auxiliary Transformers	S and NW part of Site	None	None	No Sampling Proposed										N/A
24	Sulfuric Acid Tank	N and NW part of Site	F24-1	0.5						A					No change from Work Plan
				2.5						A					
				5						H					
			F24-2	0.5						A					No change from Work Plan
				2.5						A					
				5						H					
25	Units 3 & 4 Transformers	1st Transformer by Fill Port and Areas of Staining (if present)	T3-4-1	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T3-4-2	0							A				TPH concentrations in 0.5 -foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan. PCBs in 1.0-foot sample exceeded screening levels, 2.5-foot sample analyzed for PCBs per Work Plan.
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				~~H~~ A				
			T3-4-2NW (Step-Out)	0							A				Additional step-out soil sampling conducted to delineate extent of PCBs in soil above screening levels.
				1							A				
				2.5							H				
			T3-4-2NE (Step-Out)	0							A				Additional step-out soil sampling conducted to delineate extent of PCBs in soil above screening levels.
				1							A				
				2.5							H				
			T3-4-3	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T3-4-4	0							A				TPH concentrations in 0.5 -foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				H				
			T3-4-4SW (Step-Out)	0.5		A									Additional step-out soil sampling conducted to delineate extent of TPH in soil above screening levels.
				2.5		H									
			T3-4-4SE (Step-Out)	0.5		A									Additional step-out soil sampling conducted to delineate extent of TPH in soil above screening levels.
				2.5		H									
		2nd Transformer by Fill Port and Areas of Staining (if present)	T3-4-5	0							A				TPH concentrations in 0.5 and 2.5-foot samples exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		~~H, P~~ A				H				
			T3-4-5NW (Step-Out)	0.5		A									Additional step-out soil sampling conducted to delineate extent of TPH in soil above screening levels.
				2.5		H									
			T3-4-5SW (Step-Out)	0.5		A									Additional step-out soil sampling conducted to delineate extent of TPH in soil above screening levels.
				2.5		H									
			T3-4-6	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T3-4-7	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T3-4-8	0							A				TPH concentrations in 0.5 -foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				H				
		3rd Transformer by Fill Port and Areas of Staining (if present)	T3-4-9	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T3-4-10	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T3-4-11	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T3-4-12	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				

Table 1
RFI Sampling Program Summary and Work Plan Deviations

AOI Number	Area of Interest (AOI)	Location or Special Instruction	Boring ID	Sample Depth (feet bgs)	Soil TPH by EPA 8015B (1)	Soil TPH-d/o by EPA 8015B (2)	Soil VOCs by EPA 8260B	Soil SVOCs including PAHs by EPA 8270C	Soil Lead by EPA Method 6020	Soil Metals by EPA Methods 6020/7471A	Soil PCBs by EPA 8082	Soil pH by EPA 9045C	Soil Gas Probe at Specified Depth(s) (3)	Soil Vapor VOCs by EPA 8260B	Description of Conditional Analyses Performed or Deviations from the RFI Work Plan
25	Units 3 & 4 Transformers	4th Transformer (Small) Located between Units 3 and 4	T3-4-13	0							A				Additional small transformer identified during Site walk on August 6, 2021. SCE elected to advance two adjacent soil borings and collect soil samples consistent with transformer investigation strategy outlined in the Work Plan. Samples where TPH concentrations exceeded 100 mg/kg were analyzed for VOCs per Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T3-4-14	0							A				
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				H				
		5th Transformer (Small) Located between Units 3 and 4	T3-4-15	0							A				Additional small transformer identified during Site walk on August 6, 2021. SCE elected to advance two adjacent soil borings and collect soil samples consistent with transformer investigation strategy outlined in the Work Plan. Samples where TPH concentrations exceeded 100 mg/kg were analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		~~H, P~~ A				H				
			T3-4-16	0							A				
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
26	Units 1 & 2 Transformers	1st Transformer by Fill Port and Areas of Staining (if present)	T1-2-1	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-2	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-3	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-4	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
		2nd Transformer by Fill Port and Areas of Staining (if present)	T1-2-5	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-6	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-7	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-8	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
		3rd Transformer by Fill Port and Areas of Staining (if present)	T1-2-9	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-10	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-11	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-12	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
		4th Transformer by Fill Port and Areas of Staining (if present)	T1-2-13	0							A				TPH concentrations in 0.5-foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-14	0							A				TPH concentrations in 0.5-foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-15	0							A				TPH concentrations in 0.5 and 2.5-foot samples exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		~~H, P~~ A				H				
			T1-2-16	0							A				TPH concentrations in 2.5-foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		~~H, P~~ A				H				
		5th Transformer by Fill Port and Areas of Staining (if present)	T1-2-17	0							A				Hand auger refusal encountered. Soil sample at 2.5 feet bgs was unable to be collected.
				0.5	A		H, P				A				
				1							A				
				~~2.5~~	~~A~~		~~H, P~~				~~H~~				
			T1-2-18	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-19	0							A				TPH concentrations in 0.5-foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-20	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				

Table 1
RFI Sampling Program Summary and Work Plan Deviations

AOI Number	Area of Interest (AOI)	Location or Special Instruction	Boring ID	Sample Depth (feet bgs)	Soil TPH by EPA 8015B (1)	Soil TPH-d/o by EPA 8015B (2)	Soil VOCs by EPA 8260B	Soil SVOCs including PAHs by EPA 8270C	Soil Lead by EPA Method 6020	Soil Metals by EPA Methods 6020/7471A	Soil PCBs by EPA 8082	Soil pH by EPA 9045C	Soil Gas Probe at Specified Depth(s) (3)	Soil Vapor VOCs by EPA 8260B	Description of Conditional Analyses Performed or Deviations from the RFI Work Plan
26	Units 1 & 2 Transformers	6th Transformer by Fill Port and Areas of Staining (if present)	T1-2-21	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-22	0							A				TPH concentrations in 0.5-foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-23	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-24	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
		7th Transformer by Fill Port and Areas of Staining (if present)	T1-2-25	0							A				Hand auger refusal encountered. Soil sample at 2.5 feet bgs was unable to be collected.
				0.5	A		H, P				A				
				1							A				
				~~2.5~~	~~A~~		~~H, P~~				~~H~~				
			T1-2-26	0							A				TPH concentrations in 2.5-foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		~~H, P~~ A				H				
			T1-2-27	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-28	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
		8th Transformer by Fill Port and Areas of Staining (if present)	T1-2-29	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-30	0							A				Hand auger refusal encountered at approximately 1.5 feet bgs (concrete foundation). Soil sample at 2.5 feet bgs was unable to be collected.
				0.5	A		H, P				A				
				1							A				
				~~2.5~~	~~A~~		~~H, P~~				~~H~~				
			T1-2-31	0							A				Hand auger refusal encountered at approximately 1.5 feet bgs (concrete foundation). Soil sample at 2.5 feet bgs was unable to be collected.
				0.5	A		H, P				A				
				1							A				
				~~2.5~~	~~A~~		~~H, P~~				~~H~~				
			T1-2-32	0							A				TPH concentrations in 0.5-foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				H				
27	Acid Caustic Tank Area	S part of Site	FS-3	0.5						A		A			No change from Work Plan
				2.5						A		A			
				5						H		H			
28	Well Water Storage Tank	E part of Site	None	None	No Sampling Proposed										N/A
29	Distilled Water Tanks	E part of Site	None	None	No Sampling Proposed										N/A
30	Cooling Water Tank	Center of Site	None	None	No Sampling Proposed										N/A
31	Fire House (foam)	S part of Site	None	None	No Sampling Proposed										N/A
32	Fire Water Pumps	Center of Site	None	None	No Sampling Proposed										N/A
33	Sludge Drainage Area	W part of Site	None	None	No Sampling Proposed										N/A
34	Northern Fill	NW part of Site	None	None	No Sampling Proposed										N/A
35	Soidum Hypochlorite Tanks	N, NE, and W part of Site	F35-1	0.5						A		A			No change from Work Plan
				2.5						A		A			
				5						H		H			
			F35-2	0.5						A					No change from Work Plan
				2.5						A					
				5						H					
			F35-3	0.5						A					Hand auger refusal encountered. Collected deepest soil sample at 4 feet bgs.
				2.5						A					
				~~5~~ 4						H					
			MS-23C	0.5						A		A			Sodium hypochlorite adjacent to Cooling Tower 3 not previously identified for sampling in the Work Plan. Collected soil samples after tank was removed.
				2.5						A		A			
				5						H		H			
36	Former Hazardous Waste Area	SW side of Site	F36-1	0							A				No change from Work Plan
				0.5	A		A			A	A				
				1							A				
				2.5	A		A			A					
				5	H		H			H	H		Yes	A	
				10	H		H			H	H		Yes	A	
			F36-2	0							A				No change from Work Plan
				0.5	A		A			A	A				
				1							A				
				2.5	A		A			A					
				5	H		H			H	H		Yes	A	
				10	H		H			H	H		Yes	A	
			F36-3	0							A				No change from Work Plan
				0.5	A		A			A	A				
				1							A				
				2.5	A		A			A					
				5	H		H			H	H		Yes	A	
				10	H		H			H	H		Yes	A	
37	Septic Pits	E part of Site	Sampling in this area is summarized under maintenance shop (AOI 17)												N/A
38	Flumes	W part of Site	None	None	No Sampling Proposed										N/A

Notes:

Red	Red font indicates a deviation from the RFI Work Plan scope or a conditional course of action taken based on analytical results
(1)	Total petroleum hydrocarbon full carbon chain (including C4-C12, C13-C22, C23-C32, C6-C8, C9-C16, and C17-C32 ranges)
(2)	Total petroleum hydrocarbons in diesel and motor oil ranges (including C13-C22, C23-C32, C9-C16, and C17-C32 ranges)
A	Analyze
H	Hold pending results of shallower samples or nearby samples
P	Potential soil analysis if TPH in any of the ranges above 100 mg/kg will be further analyzed for VOCs and/or SVOCs (including PAHs)
bgs	Below ground surface
EPA	Environmental Protection Agency
PAHs	Polycyclic aromatic hydrocarbons
PCBs	Polychlorinated biphenyls
mg/kg	Milligram per kilogram
SVOC	Semi-volatile organic compounds
TPH	Total petroleum hydrocarbons
VOCs	Volatile organic compounds

Table 2
RFI Soil Sample Analytical Results - Total Petroleum Hydrocarbons (TPH)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	Total Petroleum Hydrocarbons (TPH) EPA Method 8015B		
							TPH Gasoline C4-C12	TPH Diesel C13-C22	TPH Motor Oil C23-C32
SFBRWQCB ESLs Commercial/Industrial Shallow Soil Exposure (2019)							2,000	1,200	180,000
LARWQCB SSLs for Protection of Groundwater (1996)							1,000	10,000	50,000
RFI Sample Results									
1 (Distillate Tank for Unit 5 Peaker)	DT-1	DT-101-2.5	X	2.5	8/27/21	mg/kg	<0.090	**7.9**	**6.1**
		DT-1-2.5		2.5	8/27/21	mg/kg	<0.095	<5.0	**4.7 J**
		DT-1-5		5	8/27/21	mg/kg	<0.11	**5.7**	**4.6 J**
		DT-1-10		10	8/27/21	mg/kg	<0.10	**5.3**	**4.8 J**
	DT-2	DT-2-2.5		2.5	8/27/21	mg/kg	<0.11	<5.0	<5.0
		DT-2-5		5	8/27/21	mg/kg	<0.15	**5.3**	**4.0 J**
		DT-2-10		10	8/27/21	mg/kg	<0.13	**4.8**	**3.9 J**
	DT-3	DT-3-2.5		2.5	8/27/21	mg/kg	**0.73**	**9.9**	**9.3**
		DT-3-5		5	8/27/21	mg/kg	**0.098**	**9.3**	**9.7**
		DT-3-10		10	8/27/21	mg/kg	<0.16	<4.9	<4.9
	DT-4	DT-4-2.5		2.5	8/27/21	mg/kg	**1.0**	**9.6**	**9.8**
		DT-4-5		5	8/27/21	mg/kg	<0.11	**5.4**	**4.9**
		DT-104-10	X	10	8/27/21	mg/kg	<0.097	**6.8**	**5.1**
		DT-4-10		10	8/27/21	mg/kg	<0.10	**6.2**	**4.6 J**
5 (Fueling Station)	F5-1	F5-1-2.5		2.5	8/27/21	mg/kg	<0.084	<4.9	<4.9
		F5-1-5		5	8/27/21	mg/kg	<0.088	**6.8**	**6.1**
		F5-1-10		10	8/27/21	mg/kg	<0.21	<4.8	<4.8
	F5-2	F5-2-2.5		2.5	8/27/21	mg/kg	<0.093	<4.9	<4.9
		F5-2-5		5	8/27/21	mg/kg	<0.089	**4.2 J**	<5.0
		F5-2-10		10	8/27/21	mg/kg	<0.11	**11**	**8.9**
6 (Unit 5 Peaker)	PT1-1	PT1-1-0.5		0.5	8/24/21	mg/kg	<0.087	**4.3 J**	**9.2**
		PT1-1-2.5		2.5	8/24/21	mg/kg	<0.081	<4.9	<4.9
	PT1-2	PT1-2-0.5		0.5	8/24/21	mg/kg	<0.087	**100**	**35**
		PT1-2-2.5		2.5	8/24/21	mg/kg	<0.085	**43**	**16**
	PT1-3	PT1-3-0.5		0.5	8/24/21	mg/kg	<0.095	**18**	**140**
		PT1-3-2.5		2.5	8/24/21	mg/kg	<0.10	**11**	**60**
	PT1-4	PT1-4-0.5		0.5	8/24/21	mg/kg	<0.085	**9.0**	**33**
		PT1-4-2.5		2.5	8/24/21	mg/kg	<0.085	<4.9	<4.9
	PT2-1	PT2-1-0.5		0.5	8/23/21	mg/kg	<0.093	**56**	**71**
		PT2-1-2.5		2.5	8/23/21	mg/kg	<0.099	**31**	**40**
	PT2-2	PT2-2-0.5		0.5	8/23/21	mg/kg	<0.10	**9.8**	**21**
		PT2-2-2.5		2.5	8/23/21	mg/kg	<0.096	**37**	**24**
	PT2-3	PT2-103-0.5	X	0.5	8/23/21	mg/kg	<0.098	**7.8**	**64**
		PT2-3-0.5		0.5	8/23/21	mg/kg	<0.095	<4.9	**5.3**

Table 2
RFI Soil Sample Analytical Results - Total Petroleum Hydrocarbons (TPH)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	Total Petroleum Hydrocarbons (TPH) EPA Method 8015B		
							TPH Gasoline C4-C12	TPH Diesel C13-C22	TPH Motor Oil C23-C32
SFBRWQCB ESLs Commercial/Industrial Shallow Soil Exposure (2019)							2,000	1,200	180,000
LARWQCB SSLs for Protection of Groundwater (1996)							1,000	10,000	50,000
6 (Unit 5 Peaker)	PT2-3	PT2-3-2.5		2.5	8/23/21	mg/kg	<0.095	<4.9	<4.9
	PT2-4	PT2-4-0.5		0.5	8/24/21	mg/kg	<0.096	**12**	**16**
		PT2-4-2.5		2.5	8/24/21	mg/kg	<0.095	**7.3**	**9.5**
11 (Chadwick Channel)	F11-1	F11-1-0.5		0.5	8/26/21	mg/kg	--	**7.8**	**20**
		F11-101-0.5	X	0.5	8/26/21	mg/kg	--	**5.7**	**18**
		F11-1-2.5		2.5	8/26/21	mg/kg	--	<5.0	**6.8**
	F11-2A	F11-2A-0.5		0.5	8/26/21	mg/kg	--	**30**	**260**
		F11-2A-2.5		2.5	8/26/21	mg/kg	--	**4.5 J**	**16**
	F11-2B	F11-2B-0.5		0.5	8/26/21	mg/kg	--	**5.2**	**21**
		F11-2B-2.5		2.5	8/26/21	mg/kg	--	<5.0	<5.0
	F11-3	F11-3-0.5		0.5	8/26/21	mg/kg	--	**6.8**	**22**
		F11-3-2.5		2.5	8/26/21	mg/kg	--	<4.9	**3.8 J**
	F11-4	F11-4-0.5		0.5	8/31/21	mg/kg	--	**6.2**	**18**
		F11-4-2.5		2.5	8/31/21	mg/kg	--	<5.0	<5.0
	F11-5	F11-105-0.5	X	0.5	8/31/21	mg/kg	--	**11**	**13**
		F11-5-0.5		0.5	8/31/21	mg/kg	--	**11**	**11**
		F11-5-2.5		2.5	8/31/21	mg/kg	--	**4.3 J**	**19**
	F11-6	F11-6-0.5		0.5	8/31/21	mg/kg	--	**7.2**	**11**
		F11-6-2.5		2.5	8/31/21	mg/kg	--	<4.8	<4.8
	F11-7	F11-7-0.5		0.5	8/31/21	mg/kg	--	<4.8	<4.8
		F11-7-2.5		2.5	8/31/21	mg/kg	--	<5.0	<5.0
	F11-8	F11-8-0.5		0.5	8/31/21	mg/kg	--	<4.9	**18**
		F11-8-2.5		2.5	8/31/21	mg/kg	--	<4.9	<4.9
	F11-9	F11-9-0.5		0.5	8/26/21	mg/kg	--	<5.0	**9.1**
	F11-10	F11-10-0.5		0.5	8/26/21	mg/kg	--	**15**	**62**
		F11-110-0.5	X	0.5	8/26/21	mg/kg	--	**9.6**	**29**
		F11-10-2.5		2.5	8/26/21	mg/kg	--	**6.9**	**6.8**
14 (Haz Waste Accumulation Area)	F14-1	F14-1-0.5		0.5	8/25/21	mg/kg	<0.081	<4.9	**6.5**
		F14-1-2.5		2.5	8/25/21	mg/kg	<0.097	<4.9	<4.9
17 (Maintenance Shop)	MS-10	MS-10-0.5		0.5	8/25/21	mg/kg	<0.097	**490**	**3200**
		MS-10-2.5		2.5	8/25/21	mg/kg	<0.090	<5.0	<5.0
		MS-10-5		5	8/25/21	mg/kg	<0.097	<4.9	**3.8 J**
	MS-11	MS-11-0.5		0.5	8/25/21	mg/kg	<0.092	**150**	**2300**
		MS-11-2.5		2.5	8/25/21	mg/kg	<0.11	**6.4**	**14**
		MS-11-5		5	8/25/21	mg/kg	**0.29**	**3.8 J**	**7.1**

Table 2
RFI Soil Sample Analytical Results - Total Petroleum Hydrocarbons (TPH)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	Total Petroleum Hydrocarbons (TPH) EPA Method 8015B		
							TPH Gasoline C4-C12	TPH Diesel C13-C22	TPH Motor Oil C23-C32
SFBRWQCB ESLs Commercial/Industrial Shallow Soil Exposure (2019)							2,000	1,200	180,000
LARWQCB SSLs for Protection of Groundwater (1996)							1,000	10,000	50,000
17 (Maintenance Shop)	MS-12	MS-12-0.5		0.5	8/25/21	mg/kg	<0.10	<4.9	**7.8**
		MS-12-2.5		2.5	8/25/21	mg/kg	<0.10	**6.5**	**9.6**
		MS-12-5		5	8/25/21	mg/kg	<0.11	**9.6**	**36**
	MS-13	MS-13-0.5		0.5	8/26/21	mg/kg	<0.084	**57**	**530**
		MS-113-2.5	X	2.5	8/26/21	mg/kg	<0.095	<4.9	<4.9
		MS-13-2.5		2.5	8/26/21	mg/kg	<0.086	**20 J**	**170**
		MS-13-5		5	8/26/21	mg/kg	<0.089	**4.2 J**	**15**
	MS-14	MS-14-0.5		0.5	8/25/21	mg/kg	<0.084	**17**	**170**
		MS-14-2.5		2.5	8/25/21	mg/kg	<0.10	**9.8**	**49**
		MS-14-5		5	8/25/21	mg/kg	<0.089	<4.9	**5.6**
	MS-15	MS-15-0.5		0.5	8/26/21	mg/kg	<0.086	**31**	**280**
		MS-15-2.5		2.5	8/26/21	mg/kg	<0.091	**9.1**	**57**
		MS-15-5		5	8/26/21	mg/kg	<0.098	<4.8	<4.8
	MS-16	MS-116-0.5	X	0.5	8/24/21	mg/kg	<0.090	<100	**910**
		MS-16-0.5		0.5	8/24/21	mg/kg	<0.10	<99	**1600**
		MS-16-2.5		2.5	8/24/21	mg/kg	<0.10	<4.9	**8.5**
		MS-16-5		5	8/24/21	mg/kg	<0.099	<5.0	**14**
	MS-17	MS-17-0.5		0.5	8/24/21	mg/kg	<0.079	<4.9	<4.9
		MS-17-2.5		2.5	8/24/21	mg/kg	<0.11	<4.9	<4.9
		MS-17-5		5	8/24/21	mg/kg	<0.081	<4.9	<4.9
	MS-18	MS-18-0.5		0.5	8/24/21	mg/kg	<0.091	**22**	**73**
		MS-18-2.5		2.5	8/24/21	mg/kg	<0.095	<4.9	**7.7**
		MS-18-5		5	8/24/21	mg/kg	<0.096	**32**	**150**
	SS-1B	SS-1B-0.5		0.5	8/24/21	mg/kg	<0.082	**5.4**	**6.1**
		SS-1B-2.5		2.5	8/24/21	mg/kg	<0.088	**7.2**	**16**
		SS-1B-5		5	8/24/21	mg/kg	<0.087	<4.9	<4.9
	SS-4	SS-4-0.5		0.5	8/24/21	mg/kg	**0.087**	<4.9	**33**
		SS-4-2.5		2.5	8/24/21	mg/kg	<0.082	<4.9	<4.9
		SS-4-5		5	8/24/21	mg/kg	<0.077	<4.9	<4.9
	SS-5	SS-105-0.5	X	0.5	8/24/21	mg/kg	<0.085	<98	**1400**
		SS-5-0.5		0.5	8/24/21	mg/kg	<0.087	<97	**3000**
		SS-5-2.5		2.5	8/24/21	mg/kg	<0.091	<4.9	<4.9
		SS-5-5		5	8/24/21	mg/kg	<0.082	<98	**600**
	SS-6	SS-6-0.5		0.5	8/23/21	mg/kg	<0.076	<4.9	<4.9
		SS-6-2.5		2.5	8/23/21	mg/kg	<0.12	<4.9	<4.9
		SS-6-5		5	8/23/21	mg/kg	<0.083	<5.0	<5.0

Table 2
RFI Soil Sample Analytical Results - Total Petroleum Hydrocarbons (TPH)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	Total Petroleum Hydrocarbons (TPH) EPA Method 8015B		
							TPH Gasoline C4-C12	TPH Diesel C13-C22	TPH Motor Oil C23-C32
SFBRWQCB ESLs Commercial/Industrial Shallow Soil Exposure (2019)							2,000	1,200	180,000
LARWQCB SSLs for Protection of Groundwater (1996)							1,000	10,000	50,000
17 (Maintenance Shop)	SS-7	SS-7-0.5		0.5	8/23/21	mg/kg	<0.087	<4.9	<4.9
		SS-7-2.5		2.5	8/23/21	mg/kg	<0.080	<4.9	<4.9
		SS-7-5		5	8/23/21	mg/kg	<0.085	<5.0	<5.0
	SS-8	SS-8-0.5		0.5	8/23/21	mg/kg	<0.085	<5.0	<5.0
		SS-108-2.5	X	2.5	8/23/21	mg/kg	<0.081	<4.9	<4.9
		SS-8-2.5		2.5	8/23/21	mg/kg	<0.085	<120	<120
		SS-8-5		5	8/23/21	mg/kg	<0.090	<4.9	<4.9
	SS-9	SS-9-0.5		0.5	8/23/21	mg/kg	<0.078	<5.0	<5.0
		SS-9-2.5		2.5	8/23/21	mg/kg	<0.072	<5.0	<5.0
		SS-9-5		5	8/23/21	mg/kg	<0.081	<5.0	<5.0
	SS-10	SS-10-0.5		0.5	8/23/21	mg/kg	**0.048 J**	**260**	**1900**
		SS-10-2.5		2.5	8/23/21	mg/kg	<0.076	<5.0	<5.0
		SS-10-5		5	8/23/21	mg/kg	<0.078	<5.0	**6.9**
	SS-11	SS-11-0.5		0.5	8/25/21	mg/kg	<0.079	**8.7**	**40**
		SS-11-2.5		2.5	8/25/21	mg/kg	<0.084	<4.9	**7.7**
		SS-111-5	X	5	8/25/21	mg/kg	<0.13	<4.9	**5.4**
		SS-11-5		5	8/25/21	mg/kg	<0.10	**8.2**	**9.5**
	SS-12	SS-12-0.5		0.5	8/24/21	mg/kg	<0.089	<4.9	<4.9
		SS-12-2.5		2.5	8/24/21	mg/kg	<0.085	**7.0**	**64**
		SS-12-5		5	8/24/21	mg/kg	<0.090	<4.9	<4.9
21 (Cooling Tower Makeup Water Pond)	F21-T1-1	F21-T1-1-0.5		0.5	8/31/21	mg/kg	<0.083	<5.0	<5.0
		F21-T1-1-2.5		2.5	8/31/21	mg/kg	<0.080	<5.0	<5.0
	F21-T1-2	F21-T1-2-0.5		0.5	8/31/21	mg/kg	<0.090	**4.0 J**	**6.0**
		F21-T1-2-2.5		2.5	8/31/21	mg/kg	<0.096	<4.9	**4.0 J**
	F21-T2-1	F21-T2-1-0.5		0.5	9/1/21	mg/kg	<0.084	<5.0	**12**
		F21-T2-1-2.5		2.5	9/1/21	mg/kg	<0.083	<5.0	<5.0
	F21-T2-2	F21-T2-2-0.5		0.5	9/1/21	mg/kg	<0.089	<5.0	<5.0
		F21-T2-2-2.5		2.5	9/1/21	mg/kg	<0.084	<5.0	<5.0
25 (Units 3/4 Transformers)	T3-4-1	T3-4-1-0.5		0.5	9/1/21	mg/kg	<0.086	<5.0	**5.8**
		T3-4-1-2.5		2.5	9/1/21	mg/kg	<0.082	<5.0	<5.0
	T3-4-2	T3-4-2-0.5		0.5	9/1/21	mg/kg	<0.089	**110**	**66**
		T3-4-2-2.5		2.5	9/1/21	mg/kg	<0.099	<5.0	<5.0
	T3-4-3	T3-4-3-0.5		0.5	9/1/21	mg/kg	<0.091	**30**	**27**
		T3-4-3-2.5		2.5	9/1/21	mg/kg	**0.097 J**	**14**	**14**

Table 2
RFI Soil Sample Analytical Results - Total Petroleum Hydrocarbons (TPH)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	Total Petroleum Hydrocarbons (TPH) EPA Method 8015B		
							TPH Gasoline C4-C12	TPH Diesel C13-C22	TPH Motor Oil C23-C32
SFBRWQCB ESLs Commercial/Industrial Shallow Soil Exposure (2019)							2,000	1,200	180,000
LARWQCB SSLs for Protection of Groundwater (1996)							1,000	10,000	50,000
25 (Units 3/4 Transformers)	T3-4-4	T3-4-4-0.5		0.5	9/2/21	mg/kg	**0.055 J**	**3000**	**530**
		T3-4-4-2.5		2.5	9/2/21	mg/kg	**0.16**	**6.1**	**5.6**
	T3-4-4SW	T3-4-4SW-0.5		0.5	9/16/21	mg/kg	--	**180**	**140**
	T3-4-4SE	T3-4-4SE-0.5		0.5	9/16/21	mg/kg	--	**24**	**21**
	T3-4-5	T3-4-5-0.5		0.5	9/2/21	mg/kg	**0.070 J**	**6300**	**1000**
		T3-4-5-2.5		2.5	9/2/21	mg/kg	<0.094	**170**	**84**
	T3-4-5NW	T3-4-5NW-0.5		0.5	9/16/21	mg/kg	--	**330**	**85**
	T3-4-5SW	T3-4-105SW-0.5	X	0.5	9/16/21	mg/kg	--	<5.0	<5.0
		T3-4-5SW-0.5		0.5	9/16/21	mg/kg	--	<5.0	<5.0
	T3-4-6	T3-4-6-0.5		0.5	9/2/21	mg/kg	**0.072 J**	<4.9	<4.9
		T3-4-6-2.5		2.5	9/2/21	mg/kg	<0.10	<4.9	**4.3 J**
	T3-4-7	T3-4-7-0.5		0.5	9/2/21	mg/kg	<0.10	<5.0	<5.0
		T3-4-7-2.5		2.5	9/2/21	mg/kg	<0.086	<5.0	<5.0
	T3-4-8	T3-4-8-0.5		0.5	9/2/21	mg/kg	<0.085	**93**	**66**
		T3-4-8-2.5		2.5	9/2/21	mg/kg	<0.10	**4.5 J**	**7.2**
	T3-4-9	T3-4-9-0.5		0.5	9/2/21	mg/kg	<0.079	<4.9	<4.9
		T3-4-109-2.5	X	2.5	9/2/21	mg/kg	<0.086	<5.0	<5.0
		T3-4-9-2.5		2.5	9/2/21	mg/kg	<0.078	<4.9	<4.9
	T3-4-10	T3-4-10-0.5		0.5	9/2/21	mg/kg	<0.086	<4.9	<4.9
		T3-4-10-2.5		2.5	9/2/21	mg/kg	<0.085	<5.0	**5.8**
	T3-4-11	T3-4-11-0.5		0.5	9/2/21	mg/kg	<0.084	<4.9	<4.9
		T3-4-11-2.5		2.5	9/2/21	mg/kg	<0.077	<4.9	<4.9
	T3-4-12	T3-4-12-0.5		0.5	9/2/21	mg/kg	<0.094	<5.0	<5.0
		T3-4-12-2.5		2.5	9/2/21	mg/kg	<0.088	<4.9	<4.9
	T3-4-13	T3-4-13-0.5		0.5	9/1/21	mg/kg	<0.091	<5.0	**32**
		T3-4-13-2.5		2.5	9/1/21	mg/kg	<0.085	<5.0	**5.5**
	T3-4-14	T3-4-14-0.5		0.5	9/1/21	mg/kg	<0.083	**81**	**700**
		T3-4-14-2.5		2.5	9/1/21	mg/kg	<0.082	<5.0	**32**
	T3-4-15	T3-4-15-0.5		0.5	9/1/21	mg/kg	<0.083	**470**	**330**
		T3-4-15-2.5		2.5	9/1/21	mg/kg	<0.081	**570**	**110**
	T3-4-16	T3-4-16-0.5		0.5	9/1/21	mg/kg	<0.078	<5.0	**5.7**
		T3-4-16-2.5		2.5	9/1/21	mg/kg	<0.079	<5.0	**5.9**
26 (Units 1/2 Transformers)	T1-2-1	T1-2-1-0.5		0.5	8/30/21	mg/kg	<0.087	<5.0	<5.0
		T1-2-1-2.5		2.5	8/30/21	mg/kg	<0.084	<5.0	<5.0
	T1-2-2	T1-2-2-0.5		0.5	8/30/21	mg/kg	<0.12	<5.0	**4.8 J**
		T1-2-2-2.5		2.5	8/30/21	mg/kg	<0.099	**8.8**	**14**

Table 2
RFI Soil Sample Analytical Results - Total Petroleum Hydrocarbons (TPH)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	Total Petroleum Hydrocarbons (TPH) EPA Method 8015B		
							TPH Gasoline C4-C12	TPH Diesel C13-C22	TPH Motor Oil C23-C32
SFBRWQCB ESLs Commercial/Industrial Shallow Soil Exposure (2019)							2,000	1,200	180,000
LARWQCB SSLs for Protection of Groundwater (1996)							1,000	10,000	50,000
26 (Units 1/2 Transformers)	T1-2-3	T1-2-3-0.5		0.5	8/30/21	mg/kg	<0.12	<5.0	**4.4 J**
		T1-2-3-2.5		2.5	8/30/21	mg/kg	<0.10	<4.9	**7.4**
	T1-2-4	T1-2-4-0.5		0.5	8/30/21	mg/kg	<0.10	<4.9	**5.0**
		T1-2-4-2.5		2.5	8/30/21	mg/kg	<0.091	**11**	**24**
	T1-2-5	T1-2-5-0.5		0.5	8/30/21	mg/kg	<0.10	<4.9	**12**
		T1-2-5-2.5		2.5	8/30/21	mg/kg	<0.086	<4.9	**6.0**
	T1-2-6	T1-2-6-0.5		0.5	8/30/21	mg/kg	<0.097	<4.9	**11**
		T1-2-6-2.5		2.5	8/30/21	mg/kg	<0.10	<4.9	**8.7**
	T1-2-7	T1-2-7-0.5		0.5	8/30/21	mg/kg	<0.088	**4.8 J**	**13**
		T1-2-7-2.5		2.5	8/30/21	mg/kg	<0.13	<5.0	<5.0
	T1-2-8	T1-2-8-0.5		0.5	8/30/21	mg/kg	<0.084	<5.0	<5.0
		T1-2-8-2.5		2.5	8/30/21	mg/kg	<0.090	<5.0	<5.0
	T1-2-9	T1-2-9-0.5		0.5	8/30/21	mg/kg	<0.10	<5.0	**4.8 J**
		T1-2-9-2.5		2.5	8/30/21	mg/kg	<0.090	<5.0	**4.5 J**
	T1-2-10	T1-2-10-0.5		0.5	8/30/21	mg/kg	<0.088	<4.9	**4.6 J**
		T1-2-10-2.5		2.5	8/30/21	mg/kg	<0.091	<4.9	**5.4**
	T1-2-11	T1-2-11-0.5		0.5	8/30/21	mg/kg	<0.090	<5.0	<5.0
		T1-2-11-2.5		2.5	8/30/21	mg/kg	<0.097	<5.0	<5.0
	T1-2-12	T1-2-12-0.5		0.5	8/30/21	mg/kg	<0.089	<4.9	**8.1**
		T1-2-12-2.5		2.5	8/30/21	mg/kg	<0.092	<4.9	<4.9
	T1-2-13	T1-2-13-0.5		0.5	8/31/21	mg/kg	<0.082	**130**	**150**
		T1-2-13-2.5		2.5	8/31/21	mg/kg	<0.081	**51**	**48**
	T1-2-14	T1-2-14-0.5		0.5	8/31/21	mg/kg	<0.080	**96**	**110**
		T1-2-14-2.5		2.5	8/31/21	mg/kg	<0.081	<5.0	**7.1**
	T1-2-15	T1-2-15-0.5		0.5	8/31/21	mg/kg	<0.084	**110**	**240**
		T1-2-15-2.5		2.5	8/31/21	mg/kg	<0.082	**100**	**240**
	T1-2-16	T1-2-16-0.5		0.5	8/31/21	mg/kg	<0.082	**94**	**60**
		T1-2-16-2.5		2.5	8/31/21	mg/kg	<0.088	**38**	**41**
	T1-2-17	T1-2-17-0.5		0.5	8/31/21	mg/kg	<0.080	<4.9	**9.5**
	T1-2-18	T1-2-18-0.5		0.5	8/31/21	mg/kg	<0.080	<4.9	<4.9
		T1-2-18-2.5		2.5	8/31/21	mg/kg	<0.096	**37**	**62**

Table 2
RFI Soil Sample Analytical Results - Total Petroleum Hydrocarbons (TPH)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	Total Petroleum Hydrocarbons (TPH) EPA Method 8015B		
							TPH Gasoline C4-C12	TPH Diesel C13-C22	TPH Motor Oil C23-C32
SFBRWQCB ESLs Commercial/Industrial Shallow Soil Exposure (2019)							2,000	1,200	180,000
LARWQCB SSLs for Protection of Groundwater (1996)							1,000	10,000	50,000
26 (Units 1/2 Transformers)	T1-2-19	T1-2-19-0.5		0.5	8/30/21	mg/kg	<0.084	**88**	**86**
		T1-2-19-2.5		2.5	8/30/21	mg/kg	<0.077	**53**	**56**
	T1-2-20	T1-2-20-0.5		0.5	8/30/21	mg/kg	<0.083	**44**	**50**
		T1-2-20-2.5		2.5	8/30/21	mg/kg	<0.10	**4.1 J**	<4.9
	T1-2-21	T1-2-21-0.5		0.5	8/30/21	mg/kg	<0.084	**7.5**	**12**
		T1-2-21-2.5		2.5	8/30/21	mg/kg	<0.086	**21**	**28**
	T1-2-22	T1-2-22-0.5		0.5	8/30/21	mg/kg	<0.11	**95**	**75**
		T1-2-22-2.5		2.5	8/30/21	mg/kg	<0.099	**40**	**30**
	T1-2-23	T1-2-23-0.5		0.5	8/30/21	mg/kg	<0.079	**5.5**	**36**
		T1-2-123-2.5	X	2.5	8/30/21	mg/kg	<0.086	**6.6**	**6.9**
		T1-2-23-2.5		2.5	8/30/21	mg/kg	<0.087	**3.8 J**	**8.1**
	T1-2-24	T1-2-24-0.5		0.5	8/30/21	mg/kg	<0.087	**26**	**45**
		T1-2-24-2.5		2.5	8/30/21	mg/kg	<0.11	**4.6 J**	**5.3**
	T1-2-25	T1-2-25-0.5		0.5	8/30/21	mg/kg	<0.079	**43**	**54**
	T1-2-26	T1-2-26-0.5		0.5	8/30/21	mg/kg	<0.085	**40**	**42**
		T1-2-26-2.5		2.5	8/30/21	mg/kg	<0.093	**170**	**61**
	T1-2-27	T1-2-27-0.5		0.5	8/30/21	mg/kg	<0.080	**53**	**51**
		T1-2-27-2.5		2.5	8/30/21	mg/kg	<0.080	<4.9	<4.9
	T1-2-28	T1-2-28-0.5		0.5	8/30/21	mg/kg	<0.083	**6.6**	**5.3**
		T1-2-28-2.5		2.5	8/30/21	mg/kg	<0.084	<4.9	<4.9
	T1-2-29	T1-2-29-0.5		0.5	8/26/21	mg/kg	<0.085	**7.1**	**9.5**
		T1-2-29-2.5		2.5	8/26/21	mg/kg	<0.083	**6.0**	**4.5 J**
	T1-2-30	T1-2-30-0.5		0.5	8/26/21	mg/kg	<0.083	**7.0**	**6.6**
	T1-2-31	T1-2-31-0.5		0.5	8/26/21	mg/kg	<0.096	**6.4**	**5.3**
	T1-2-32	T1-2-32-0.5		0.5	8/26/21	mg/kg	<0.078	**790**	**380**
		T1-2-32-2.5		2.5	8/26/21	mg/kg	<0.081	**5.2**	**4.8 J**
36 (Former Haz Waste Accumulation Area)	F36-1	F36-1-0.5		0.5	8/24/21	mg/kg	<0.083	<5.0	<5.0
		F36-1-2.5		2.5	8/24/21	mg/kg	<0.092	**6.9**	**9.6**
	F36-2	F36-2-0.5		0.5	8/24/21	mg/kg	<0.091	**9.1**	**12**
		F36-2-2.5		2.5	8/24/21	mg/kg	<0.092	<4.9	<4.9
	F36-3	F36-3-0.5		0.5	8/25/21	mg/kg	<0.095	**4.0 J**	**5.0**
		F36-3-2.5		2.5	8/25/21	mg/kg	<0.094	<4.9	**5.1**

Table 2
RFI Soil Sample Analytical Results - Total Petroleum Hydrocarbons (TPH)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	Total Petroleum Hydrocarbons (TPH) EPA Method 8015B		
							TPH Gasoline C4-C12	TPH Diesel C13-C22	TPH Motor Oil C23-C32
SFBRWQCB ESLs Commercial/Industrial Shallow Soil Exposure (2019)							2,000	1,200	180,000
LARWQCB SSLs for Protection of Groundwater (1996)							1,000	10,000	50,000
Equipment Rinsate Blanks									
--	--	EB-B-082321		--	8/23/21	µg/L	<50	<46	<46
--	--	EB-A-082421		--	8/24/21	µg/L	<50	<50	<50
--	--	EB-B-082521		--	8/25/21	µg/L	<50	<46	<46
--	--	EB-A-082721		--	8/27/21	µg/L	<50	--	--
--	--	EB-B-083021		--	8/30/21	µg/L	<50	--	--
--	--	EB-A-083121		--	8/31/21	µg/L	<50	<48	<48
--	--	EB-B-083121		--	8/31/21	µg/L	--	<46	<46
--	--	EB-A1-090121		--	9/1/21	µg/L	<50	<48	<48
--	--	EB-B-090121		--	9/1/21	µg/L	<50	<48	**36 J**
--	--	EB-A2-090221		--	9/2/21	µg/L	<50	<48	<48
--	--	EB-A-091621		--	9/16/21	µg/L	--	<48	<48

NOTES:

	Concentration exceeds a regulatory screening level
792	**Bold** value is reported concentration above the laboratory Method Detection Limit (MDL).
<0.050	Denotes analyte not detected above the posted Reporting Limit (RL)
J	Concentration is below the RL but above the MDL so the result represents an estimated value
--	Not analyzed or No Published Value
mg/kg	Milligrams per kilogram
Dup	Field duplicate samples are identified in this column with an "X"
SFBRWQCB ESLs	San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (Updated July 2019)
LARWQCB SSLs	Los Angeles Regional Water Quality Control Board soil screening levels for protection of groundwater (May 1996)

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																				
							1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
EPA RSL Industrial (May 2023)							8,800	36,000,000	2,700	28,000,000	5,000	16,000	1,000,000	--	930,000	110	110,000	1,800,000	64	160	9,300,000	2,000	11,000	1,500,000	--	23,000,000	11,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							8,800	--	2,700	--	--	16,000	--	--	--	21	35,000	--	57	160	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							2,700,000	7,200,000	4,300,000	--	--	7,100,000	350,000	--	300,000	21,000	260,000	--	25,000	30,000	--	--	--	--	--	2,200,000	--
RFI Sample Results																											
5 (Fueling Station)	F5-1	F5-1-2.5		2.5	8/27/21	µg/kg	<0.93	<0.93	<1.9	<9.3	<0.93	<0.93	<0.93	<1.9	<1.9	<1.9	<1.9	<1.9	<9.3	<0.93	<0.93	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93
		F5-1-5		5	8/27/21	µg/kg	<1.2	<1.2	<2.3	<12	<1.2	<1.2	<1.2	<2.3	<2.3	<2.3	<2.3	<2.3	<12	<1.2	<1.2	<1.2	<1.2	<2.3	<1.2	<1.2	<1.2
	F5-2	F5-2-2.5		2.5	8/27/21	µg/kg	<0.87	<0.87	<1.7	<8.7	<0.87	<0.87	<0.87	<1.7	<1.7	<1.7	<1.7	<1.7	<8.7	<0.87	<0.87	<0.87	<0.87	<1.7	<0.87	<0.87	<0.87
		F5-2-5		5	8/27/21	µg/kg	<1.6	<1.6	<3.1	<16	<1.6	<1.6	<1.6	<3.1	<3.1	<3.1	<3.1	<3.1	<16	<1.6	<1.6	<1.6	<1.6	<3.1	<1.6	<1.6	<1.6
6 (Unit 5 Peaker)	P-1	P-1-2.5		2.5	8/23/21	µg/kg	<0.88	<0.88	<1.8	<8.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<8.8	<0.88	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88
		P-1-5		5	8/23/21	µg/kg	<0.79	<0.79	<1.6	<7.9	<0.79	<0.79	<0.79	<1.6	<1.6	<1.6	<1.6	<1.6	<7.9	<0.79	<0.79	<0.79	<0.79	<1.6	<0.79	<0.79	<0.79
		P-1-10		10	8/23/21	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94
	P-1B	P-1B-20		20	9/2/21	µg/kg	<0.93	<0.93	<1.9	<9.3	<0.93	<0.93	<0.93	<1.9	<1.9	<1.9	<1.9	<1.9	<9.3	<0.93	<0.93	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93
		P-1B-40		40	9/2/21	µg/kg	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<8.4	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84
	P-5	P-5-5		5	9/1/21	µg/kg	<1.1	<1.1	<2.2	<11	<1.1	<1.1	<1.1	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<1.1	<1.1	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1
		P-5-20		20	9/1/21	µg/kg	<0.85	<0.85	<1.7	<8.5	<0.85	<0.85	<0.85	<1.7	<1.7	<1.7	<1.7	<1.7	<8.5	<0.85	<0.85	<0.85	<0.85	<1.7	<0.85	<0.85	<0.85
	P-6	P-106-5	X	5	9/1/21	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94
		P-6-5		5	9/1/21	µg/kg	<0.92	<0.92	<1.8	<9.2	<0.92	<0.92	<0.92	<1.8	<1.8	<1.8	<1.8	<1.8	<9.2	<0.92	<0.92	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92
		P-6-20		20	9/1/21	µg/kg	<1.3	<1.3	<2.6	<13	<1.3	<1.3	<1.3	<2.6	<2.6	<2.6	<2.6	<2.6	<13	<1.3	<1.3	<1.3	<1.3	<2.6	<1.3	<1.3	<1.3
	P-8	P-8-5		5	9/10/21	µg/kg	<0.97	<0.97	<1.9	<9.7	<0.97	<0.97	<0.97	<1.9	<1.9	<1.9	<1.9	<1.9	<9.7	<0.97	<0.97	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97
		P-8-20		20	9/10/21	µg/kg	<0.82	<0.82	<1.6	<8.2	<0.82	<0.82	<0.82	<1.6	<1.6	<1.6	<1.6	<1.6	<8.2	<0.82	<0.82	<0.82	<0.82	<1.6	<0.82	<0.82	<0.82
	P-9	P-9-5		5	9/10/21	µg/kg	<0.92	<0.92	<1.8	<9.2	<0.92	<0.92	<0.92	<1.8	<1.8	<1.8	<1.8	<1.8	<9.2	<0.92	<0.92	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92
		P-9-20		20	9/10/21	µg/kg	<0.77	<0.77	<1.5	<7.7	<0.77	<0.77	<0.77	<1.5	<1.5	<1.5	<1.5	<1.5	<7.7	<0.77	<0.77	<0.77	<0.77	<1.5	<0.77	<0.77	<0.77
	PT1-2	PT1-2-0.5		0.5	8/24/21	µg/kg	<0.89	<0.89	<1.8	<8.9	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<8.9	<0.89	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89
	PT1-3	PT1-3-0.5		0.5	8/24/21	µg/kg	<0.93	<0.93	<1.9	<9.3	<0.93	<0.93	<0.93	<1.9	<1.9	<1.9	<1.9	<1.9	<9.3	<0.93	<0.93	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93
	PT2-1	PT2-1-0.5		0.5	8/23/21	µg/kg	<0.87	<0.87	<1.7	<8.7	<0.87	<0.87	<0.87	<1.7	<1.7	<1.7	<1.7	<1.7	<8.7	<0.87	<0.87	<0.87	<0.87	<1.7	<0.87	<0.87	<0.87
11 (Chadwick Channel)	F11-1	F11-1-0.5		0.5	8/26/21	µg/kg	<0.86	<0.86	<1.7	<8.6	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<8.6	<0.86	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86
		F11-101-0.5	X	0.5	8/26/21	µg/kg	<1.0	<1.0	<2.1	<10	<1.0	<1.0	<1.0	<2.1	<2.1	<2.1	<2.1	<2.1	<10	<1.0	<1.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0
		F11-1-2.5		2.5	8/26/21	µg/kg	<1.1	<1.1	<2.2	<11	<1.1	<1.1	<1.1	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<1.1	<1.1	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1
	F11-10	F11-10-0.5		0.5	8/26/21	µg/kg	<0.83	<0.83	<1.7	<8.3	<0.83	<0.83	<0.83	<1.7	<1.7	<1.7	<1.7	<1.7	<8.3	<0.83	<0.83	<0.83	<0.83	<1.7	<0.83	<0.83	<0.83
		F11-110-0.5	X	0.5	8/26/21	µg/kg	<0.91	<0.91	<1.8	<9.1	<0.91	<0.91	<0.91	<1.8	<1.8	<1.8	<1.8	<1.8	<9.1	<0.91	<0.91	<0.91	<0.91	<1.8	<0.91	<0.91	<0.91
		F11-10-2.5		2.5	8/26/21	µg/kg	<0.92	<0.92	<1.8	<9.2	<0.92	<0.92	<0.92	<1.8	<1.8	<1.8	<1.8	<1.8	<9.2	<0.92	<0.92	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92
	F11-2A	F11-2A-0.5		0.5	8/26/21	µg/kg	<0.98	<0.98	<2.0	<9.8	<0.98	<0.98	<0.98	<2.0	<2.0	<2.0	<2.0	<2.0	<9.8	<0.98	<0.98	<0.98	<0.98	<2.0	<0.98	<0.98	<0.98
		F11-2A-2.5		2.5	8/26/21	µg/kg	<0.89	<0.89	<1.8	<8.9	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<8.9	<0.89	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89
	F11-2B	F11-2B-0.5		0.5	8/26/21	µg/kg	<0.92	<0.92	<1.8	<9.2	<0.92	<0.92	<0.92	<1.8	<1.8	<1.8	<1.8	<1.8	<9.2	<0.92	<0.92	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92
		F11-2B-2.5		2.5	8/26/21	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94
	F11-3	F11-3-0.5		0.5	8/26/21	µg/kg	<0.96	<0.96	<1.9	<9.6	<0.96	<0.96	<0.96	<1.9	<1.9	<1.9	<1.9	<1.9	<9.6	<0.96	<0.96	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96
		F11-3-2.5		2.5	8/26/21	µg/kg	<1.1	<1.1	<2.2	<11	<1.1	<1.1	<1.1	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<1.1	<1.1	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1
	F11-4	F11-4-0.5		0.5	8/31/21	µg/kg	<0.92	<0.92	<1.8	<9.2	<0.92	<0.92	<0.92	<1.8	<1.8	<1.8	<1.8	<1.8	<9.2	<0.92	<0.92	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92
		F11-4-2.5		2.5	8/31/21	µg/kg	<0.98	<0.98	<2.0	<9.8	<0.98	<0.98	<0.98	<2.0	<2.0	<2.0	<2.0	<2.0	<9.8	<0.98	<0.98	<0.98	<0.98	<2.0	<0.98	<0.98	<0.98
	F11-5	F11-105-0.5	X	0.5	8/31/21	µg/kg	<1.0	<1.0	<2.1	<10	<1.0	<1.0	<1.0	<2.1	<2.1	<2.1	<2.1	<2.1	<10	<1.0	<1.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0
		F11-5-0.5		0.5	8/31/21	µg/kg	<0.88	<0.88	<1.8	<8.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<8.8	<0.88	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88
11 (Chadwick Channel)	F11-5	F11-5-2.5		2.5	8/31/21	µg/kg	<0.99	<0.99	<2.0	<9.9	<0.99	<0.99	<0.99	<2.0	<2.0	<2.0	<2.0	<2.0	<9.9	<0.99	<0.99	<0.99	<0.99	<2.0	<0.99	<0.99	<0.99
	F11-6	F11-6-0.5		0.5	8/31/21	µg/kg	<0.77	<0.77	<1.5	<7.7	<0.77	<0.77	<0.77	<1.5	<1.5	<1.5	<1.5	<1.5	<7.7	<0.77	<0.77	<0.77	<0.77	<1.5	<0.77	<0.77	<0.77
		F11-6-2.5		2.5	8/31/21	µg/kg	<0.87	<0.87	<1.7	<8.7	<0.87	<0.87	<0.87	<1.7	<1.7	<1.7	<1.7	<1.7	<8.7	<0.87	<0.87	<0.87	<0.87	<1.7	<0.87	<0.87	<0.87
	F11-7	F11-7-0.5		0.5	8/31/21	µg/kg	<0.96	<0.96	<1.9	<9.6	<0.96	<0.96	<0.96	<1.9	<1.9	<1.9	<1.9	<1.9	<9.6	<0.96	<0.96	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96
		F11-7-2.5		2.5	8/31/21	µg/kg	<0.99	<0.99	<2.0	<9.9	<0.99	<0.99	<0.99	<2.0	<2.0	<2.0	<2.0	<2.0	<9.9	<0.99	<0.99	<0.99	<0.99	<2.0	<0.99	<0.99	<0.99
	F11-8	F11-8-0.5		0.5	8/31/21	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94
		F11-8-2.5		2.5	8/31/21	µg/kg	<1.0	<1.0	<2.1	<10	<1.0	<1.0	<1.0	<2.1	<2.1	<2.1	<2.1	<2.1	<10	<1.0	<1.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0
	F11-9	F11-9-0.5		0.5	8/26/21	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																				
							1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
EPA RSL Industrial (May 2023)							8,800	36,000,000	2,700	28,000,000	5,000	16,000	1,000,000	--	930,000	110	110,000	1,800,000	64	160	9,300,000	2,000	11,000	1,500,000	--	23,000,000	11,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							8,800	--	2,700	--	--	16,000	--	--	--	21	35,000	--	57	160	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							2,700,000	7,200,000	4,300,000	--	--	7,100,000	350,000	--	300,000	21,000	260,000	--	25,000	30,000	--	--	--	--	--	2,200,000	--
14 (Haz Waste Accumulation Area)	F14-1	F14-1-0.5		0.5	8/25/21	µg/kg	<0.86	<0.86	<1.7	<8.6	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<8.6	<0.86	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86
		F14-1-2.5		2.5	8/25/21	µg/kg	<0.95	<0.95	<1.9	<9.5	<0.95	<0.95	<0.95	<1.9	<1.9	<1.9	<1.9	<1.9	<9.5	<0.95	<0.95	<0.95	<0.95	<1.9	<0.95	<0.95	<0.95
17 (Maintenance Shop)	MS-10	MS-10-0.5		0.5	8/25/21	µg/kg	<0.93	<0.93	<1.9	<9.3	<0.93	<0.93	<0.93	<1.9	<1.9	<1.9	<1.9	<1.9	<9.3	<0.93	<0.93	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93
		MS-10-2.5		2.5	8/25/21	µg/kg	<0.78	<0.78	<1.6	<7.8	<0.78	<0.78	<0.78	<1.6	<1.6	<1.6	<1.6	<1.6	<7.8	<0.78	<0.78	<0.78	<0.78	<1.6	<0.78	<0.78	<0.78
		MS-10-5		5	8/25/21	µg/kg	<1.1	<1.1	<2.2	<11	<1.1	<1.1	<1.1	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<1.1	<1.1	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1
		MS-10-10		10	8/25/21	µg/kg	<1.2	<1.2	<2.4	<12	<1.2	<1.2	<1.2	<2.4	<2.4	<2.4	<2.4	<2.4	<12	<1.2	<1.2	<1.2	<1.2	<2.4	<1.2	<1.2	<1.2
		MS-10-20		20	8/25/21	µg/kg	<1.4	<1.4	<2.7	<14	<1.4	<1.4	<1.4	<2.7	<2.7	<2.7	<2.7	<2.7	<14	<1.4	<1.4	<1.4	<1.4	<2.7	<1.4	<1.4	<1.4
	MS-11	MS-11-0.5		0.5	8/25/21	µg/kg	<0.88	<0.88	<1.8	<8.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<8.8	<0.88	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88
		MS-11-2.5		2.5	8/25/21	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
		MS-11-5		5	8/25/21	µg/kg	<0.99	<0.99	<2.0	<9.9	<0.99	<0.99	<0.99	<2.0	<2.0	<2.0	<2.0	<2.0	<9.9	<0.99	<0.99	<0.99	<0.99	<2.0	<0.99	<0.99	<0.99
		MS-11-10		10	8/25/21	µg/kg	<0.96	<0.96	<1.9	<9.6	<0.96	<0.96	<0.96	<1.9	<1.9	<1.9	<1.9	<1.9	<9.6	<0.96	<0.96	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96
		MS-111-10	X	10	8/25/21	µg/kg	<1.2	<1.2	<2.3	<12	<1.2	<1.2	<1.2	<2.3	<2.3	<2.3	<2.3	<2.3	<12	<1.2	<1.2	<1.2	<1.2	<2.3	<1.2	<1.2	<1.2
		MS-11-20		20	8/25/21	µg/kg	<1.1	<1.1	<2.2	<11	<1.1	<1.1	<1.1	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<1.1	<1.1	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1
	MS-12	MS-12-0.5		0.5	8/25/21	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
		MS-12-2.5		2.5	8/25/21	µg/kg	<1.0	<1.0	<2.0	<10	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
		MS-12-5		5	8/25/21	µg/kg	<1.5	<1.5	<3.0	<15	<1.5	<1.5	<1.5	<3.0	<3.0	<3.0	<3.0	<3.0	<15	<1.5	<1.5	<1.5	<1.5	<3.0	<1.5	<1.5	<1.5
		MS-12-10		10	8/25/21	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
		MS-12-20		20	8/25/21	µg/kg	<0.98	<0.98	<2.0	<9.8	<0.98	<0.98	<0.98	<2.0	<2.0	<2.0	<2.0	<2.0	<9.8	<0.98	<0.98	<0.98	<0.98	<2.0	<0.98	<0.98	<0.98
	MS-13	MS-13-0.5		0.5	8/26/21	µg/kg	<0.89	<0.89	<1.8	<8.9	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<8.9	<0.89	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89
		MS-113-2.5	X	2.5	8/26/21	µg/kg	<0.89	<0.89	<1.8	<8.9	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<8.9	<0.89	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89
		MS-13-2.5		2.5	8/26/21	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
		MS-13-5		5	8/26/21	µg/kg	<0.93	<0.93	<1.9	<9.3	<0.93	<0.93	<0.93	<1.9	<1.9	<1.9	<1.9	<1.9	<9.3	<0.93	<0.93	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93
		MS-13-10		10	8/26/21	µg/kg	<0.82	<0.82	<1.6	<8.2	<0.82	<0.82	<0.82	<1.6	<1.6	<1.6	<1.6	<1.6	<8.2	<0.82	<0.82	<0.82	<0.82	<1.6	<0.82	<0.82	<0.82
		MS-13-20		20	8/26/21	µg/kg	<1.2	<1.2	<2.4	<12	<1.2	<1.2	<1.2	<2.4	<2.4	<2.4	<2.4	<2.4	<12	<1.2	<1.2	<1.2	<1.2	<2.4	<1.2	<1.2	<1.2
	MS-13B	MS-13B-35		35	9/2/21	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94
		MS-13B-50		50	9/2/21	µg/kg	<1.0	<1.0	<2.1	<10	<1.0	<1.0	<1.0	<2.1	<2.1	<2.1	<2.1	<2.1	<10	<1.0	<1.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0
	MS-14	MS-14-0.5		0.5	8/25/21	µg/kg	<0.91	<0.91	<1.8	<9.1	<0.91	<0.91	<0.91	<1.8	<1.8	<1.8	<1.8	<1.8	<9.1	<0.91	<0.91	<0.91	<0.91	<1.8	<0.91	<0.91	<0.91
		MS-14-2.5		2.5	8/25/21	µg/kg	<0.97	<0.97	<1.9	<9.7	<0.97	<0.97	<0.97	<1.9	<1.9	<1.9	<1.9	<1.9	<9.7	<0.97	<0.97	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97
		MS-14-5		5	8/25/21	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94
17 (Maintenance Shop)	MS-15	MS-15-0.5		0.5	8/26/21	µg/kg	<0.88	<0.88	<1.8	<8.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<8.8	<0.88	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88
		MS-15-2.5		2.5	8/26/21	µg/kg	<0.96	<0.96	<1.9	<9.6	<0.96	<0.96	<0.96	<1.9	<1.9	<1.9	<1.9	<1.9	<9.6	<0.96	<0.96	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96
		MS-15-5		5	8/26/21	µg/kg	<1.0	<1.0	<2.0	<10	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
		MS-15-10		10	8/26/21	µg/kg	<1.3	<1.3	<2.6	<13	<1.3	<1.3	<1.3	<2.6	<2.6	<2.6	<2.6	<2.6	<13	<1.3	<1.3	<1.3	<1.3	<2.6	<1.3	<1.3	<1.3
		MS-15-20		20	8/26/21	µg/kg	<0.97	<0.97	<1.9	<9.7	<0.97	<0.97	<0.97	<1.9	<1.9	<1.9	<1.9	<1.9	<9.7	<0.97	<0.97	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97
	MS-16	MS-116-0.5	X	0.5	8/24/21	µg/kg	<0.81	<0.81	<1.6	<8.1	<0.81	<0.81	<0.81	<1.6	<1.6	<1.6	<1.6	<1.6	<8.1	<0.81	<0.81	<0.81	<0.81	<1.6	<0.81	<0.81	<0.81
		MS-16-0.5		0.5	8/24/21	µg/kg	<0.79	<0.79	<1.6	<7.9	<0.79	<0.79	<0.79	<1.6	<1.6	<1.6	<1.6	<1.6	<7.9	<0.79	<0.79	<0.79	<0.79	<1.6	<0.79	<0.79	<0.79
		MS-16-2.5		2.5	8/24/21	µg/kg	<0.87	<0.87	<1.7	<8.7	<0.87	<0.87	<0.87	<1.7	<1.7	<1.7	<1.7	<1.7	<8.7	<0.87	<0.87	<0.87	<0.87	<1.7	<0.87	<0.87	<0.87
		MS-16-5		5	8/24/21	µg/kg	<0.89	<0.89	<1.8	<8.9	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<8.9	<0.89	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89
		MS-16-10		10	8/24/21	µg/kg	<1.2	<1.2	<2.3	<12	<1.2	<1.2	<1.2	<2.3	<2.3	<2.3	<2.3	<2.3	<12	<1.2	<1.2	<1.2	<1.2	<2.3	<1.2	<1.2	<1.2
		MS-16-20		20	8/24/21	µg/kg	<1.1	<1.1	<2.3	<11	<1.1	<1.1	<1.1	<2.3	<2.3	<2.3	<2.3	<2.3	<11	<1.1	<1.1	<1.1	<1.1	<2.3	<1.1	<1.1	<1.1

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																				
							1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
EPA RSL Industrial (May 2023)							8,800	36,000,000	2,700	28,000,000	5,000	16,000	1,000,000	--	930,000	110	110,000	1,800,000	64	160	9,300,000	2,000	11,000	1,500,000	--	23,000,000	11,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							8,800	--	2,700	--	--	16,000	--	--	--	21	35,000	--	57	160	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							2,700,000	7,200,000	4,300,000	--	--	7,100,000	350,000	--	300,000	21,000	260,000	--	25,000	30,000	--	--	--	--	--	2,200,000	--
17 (Maintenance Shop)	MS-17	MS-17-0.5		0.5	8/24/21	µg/kg	<0.82	<0.82	<1.6	<8.2	<0.82	<0.82	<0.82	<1.6	<1.6	<1.6	<1.6	<1.6	<8.2	<0.82	<0.82	<0.82	<0.82	<1.6	<0.82	<0.82	<0.82
		MS-17-2.5		2.5	8/24/21	µg/kg	<1.3	<1.3	<2.6	<13	<1.3	<1.3	<1.3	<2.6	<2.6	<2.6	<2.6	<2.6	<13	<1.3	<1.3	<1.3	<1.3	<2.6	<1.3	<1.3	<1.3
		MS-17-5		5	8/24/21	µg/kg	<1.3	<1.3	<2.7	<13	<1.3	<1.3	<1.3	<2.7	<2.7	<2.7	<2.7	<2.7	<13	<1.3	<1.3	<1.3	<1.3	<2.7	<1.3	<1.3	<1.3
		MS-117-10	X	10	8/24/21	µg/kg	<0.78	<0.78	<1.6	<7.8	<0.78	**0.62 J**	<0.78	<1.6	<1.6	<1.6	<1.6	<1.6	<7.8	<0.78	<0.78	<0.78	<0.78	<1.6	<0.78	<0.78	<0.78
		MS-17-10		10	8/24/21	µg/kg	<0.83	<0.83	<1.7	<8.3	<0.83	**0.51 J**	<0.83	<1.7	<1.7	<1.7	<1.7	<1.7	<8.3	<0.83	<0.83	<0.83	<0.83	<1.7	<0.83	<0.83	<0.83
		MS-17-20		20	8/24/21	µg/kg	<0.87	<0.87	<1.7	<8.7	<0.87	<0.87	<0.87	<1.7	<1.7	<1.7	<1.7	<1.7	<8.7	<0.87	<0.87	<0.87	<0.87	<1.7	<0.87	<0.87	<0.87
	MS-17B	MS-17B-40		40	9/2/21	µg/kg	<1.0	<1.0	<2.0	<10	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
		MS-17B-60		60	9/2/21	µg/kg	<0.97	<0.97	<1.9	<9.7	<0.97	<0.97	<0.97	<1.9	<1.9	<1.9	<1.9	<1.9	<9.7	<0.97	<0.97	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97
	MS-18	MS-18-0.5		0.5	8/24/21	µg/kg	<0.85	<0.85	<1.7	<8.5	<0.85	<0.85	<0.85	<1.7	<1.7	<1.7	<1.7	<1.7	<8.5	<0.85	<0.85	<0.85	<0.85	<1.7	<0.85	<0.85	<0.85
		MS-18-2.5		2.5	8/24/21	µg/kg	<0.92	<0.92	<1.8	<9.2	<0.92	<0.92	<0.92	<1.8	<1.8	<1.8	<1.8	<1.8	<9.2	<0.92	<0.92	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92
		MS-18-5		5	8/24/21	µg/kg	<0.98	<0.98	<2.0	<9.8	<0.98	<0.98	<0.98	<2.0	<2.0	<2.0	<2.0	<2.0	<9.8	<0.98	<0.98	<0.98	<0.98	<2.0	<0.98	<0.98	<0.98
	MS-19	MS-19-5		5	9/1/21	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94
		MS-19-20		20	9/1/21	µg/kg	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<8.4	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84
	MS-20	MS-20-5		5	9/1/21	µg/kg	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<8.4	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84
		MS-20-20		20	9/1/21	µg/kg	<0.69	<0.69	<1.4	<6.9	<0.69	<0.69	<0.69	<1.4	<1.4	<1.4	<1.4	<1.4	<6.9	<0.69	<0.69	<0.69	<0.69	<1.4	<0.69	<0.69	<0.69
	MS-21	MS-21-5		5	9/10/21	µg/kg	<0.91	<0.91	<1.8	<9.1	<0.91	<0.91	<0.91	<1.8	<1.8	<1.8	<1.8	<1.8	<9.1	<0.91	<0.91	<0.91	<0.91	<1.8	<0.91	<0.91	<0.91
		MS-21-20		20	9/10/21	µg/kg	<0.71	<0.71	<1.4	<7.1	<0.71	<0.71	<0.71	<1.4	<1.4	<1.4	<1.4	<1.4	<7.1	<0.71	<0.71	<0.71	<0.71	<1.4	<0.71	<0.71	<0.71
	MS-22	MS-22-5		5	10/14/21	µg/kg	<1.0	<1.0	<2.1	<10	<1.0	<1.0	<1.0	<2.1	<2.1	<2.1	<2.1	<2.1	<10	<1.0	<1.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0
		MS-22-20		20	10/14/21	µg/kg	<0.88	<0.88	<1.8	<8.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<8.8	<0.88	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88
	MS-23	MS-123-5	X	5	10/14/22	µg/kg	<0.86	<0.86	<1.7	<8.6	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<8.6	<0.86	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86
		MS-23-5		5	10/14/22	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
		MS-23-20		20	10/14/22	µg/kg	<0.93	<0.93	<1.9	<9.3	<0.93	<0.93	<0.93	<1.9	<1.9	<1.9	<1.9	<1.9	<9.3	<0.93	<0.93	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93
	MS-23B	MS-23B-40		40	11/5/22	µg/kg	<0.91	<0.91	<1.8	<9.1	<0.91	<0.91	<0.91	<1.8	<1.8	<1.8	<1.8	<1.8	<9.1	<0.91	<0.91	<0.91	<0.91	<1.8	<0.91	<0.91	<0.91
		MS-23B-60		60	11/5/22	µg/kg	<0.85	<0.85	<1.7	<8.5	<0.85	<0.85	<0.85	<1.7	<1.7	<1.7	<1.7	<1.7	<8.5	<0.85	<0.85	<0.85	<0.85	<1.7	<0.85	<0.85	<0.85
		MS-23B-80		80	11/5/22	µg/kg	<0.79	<0.79	<1.6	<7.9	<0.79	<0.79	<0.79	<1.6	<1.6	<1.6	<1.6	<1.6	<7.9	<0.79	<0.79	<0.79	<0.79	<1.6	<0.79	<0.79	<0.79
		MS-23B-100		100	11/5/22	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94
	MS-23C	MS-23C-125		125	1/3/22	µg/kg	<0.96	<0.96	<1.9	<9.6	<0.96	<0.96	<0.96	<1.9	<1.9	<1.9	<1.9	<1.9	<9.6	<0.96	<0.96	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96
		MS-23C-150		150	1/4/22	µg/kg	<0.83	<0.83	<1.7	<8.3	<0.83	<0.83	<0.83	<1.7	<1.7	<1.7	<1.7	<1.7	<8.3	<0.83	<0.83	<0.83	<0.83	<1.7	<0.83	<0.83	<0.83
		MS-23C-190		190	1/5/22	µg/kg	<1.2	<1.2	<2.4	<12	<1.2	<1.2	<1.2	<2.4	<2.4	<2.4	<2.4	<2.4	<12	<1.2	<1.2	<1.2	<1.2	<2.4	<1.2	<1.2	<1.2
		MS-23C-200		200	1/5/22	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
	MS-24	MS-24-20		20	10/14/22	µg/kg	<1.1	<1.1	<2.1	<11	<1.1	<1.1	<1.1	<2.1	<2.1	<2.1	<2.1	<2.1	<11	<1.1	<1.1	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1
	MS-25	MS-25-20		20	10/14/22	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
	MS-26	MS-26-20		20	10/15/22	µg/kg	<0.95	<0.95	<1.9	<9.5	<0.95	<0.95	<0.95	<1.9	<1.9	<1.9	<1.9	<1.9	<9.5	<0.95	<0.95	<0.95	<0.95	<1.9	<0.95	<0.95	<0.95
	MS-27	MS-27-5		5	10/15/22	µg/kg	<0.86	<0.86	<1.7	<8.6	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<8.6	<0.86	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86
		MS-127-20	X	20	10/15/22	µg/kg	<0.92	<0.92	<1.8	<9.2	<0.92	<0.92	<0.92	<1.8	<1.8	<1.8	<1.8	<1.8	<9.2	<0.92	<0.92	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92
		MS-27-20		20	10/15/22	µg/kg	<0.98	<0.98	<2.0	<9.8	<0.98	<0.98	<0.98	<2.0	<2.0	<2.0	<2.0	<2.0	<9.8	<0.98	<0.98	<0.98	<0.98	<2.0	<0.98	<0.98	<0.98
	MS-28	MS-28-5		5	11/5/22	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
	MS-29	MS-29-20		20	2/8/22	µg/kg	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<8.4	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84
	MS-30	MS-30-20		20	2/8/22	µg/kg	<0.80	<0.80	<1.6	<8.0	<0.80	<0.80	<0.80	<1.6	<1.6	<1.6	<1.6	<1.6	<8.0	<0.80	<0.80	<0.80	<0.80	<1.6	<0.80	<0.80	<0.80
	MS-31	MS-31-20		20	2/8/22	µg/kg	<0.83	<0.83	<1.7	<8.3	<0.83	<0.83	<0.83	<1.7	<1.7	<1.7	<1.7	<1.7	<8.3	<0.83	<0.83	<0.83	<0.83	<1.7	<0.83	<0.83	<0.83
	MS-32	MS-32-5		5	2/11/22	µg/kg	<0.82	<0.82	<1.6	<8.2	<0.82	<0.82	<0.82	<1.6	<1.6	<1.6	<1.6	<1.6	<8.2	<0.82	<0.82	<0.82	<0.82	<1.6	<0.82	<0.82	<0.82
		MS-32-20		20	2/11/22	µg/kg	<0.88	<0.88	<1.8	<8.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<8.8	<0.88	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																				
							1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
EPA RSL Industrial (May 2023)							8,800	36,000,000	2,700	28,000,000	5,000	16,000	1,000,000	--	930,000	110	110,000	1,800,000	64	160	9,300,000	2,000	11,000	1,500,000	--	23,000,000	11,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							8,800	--	2,700	--	--	16,000	--	--	--	21	35,000	--	57	160	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							2,700,000	7,200,000	4,300,000	--	--	7,100,000	350,000	--	300,000	21,000	260,000	--	25,000	30,000	--	--	--	--	--	2,200,000	--
17 (Maintenance Shop)	SS-1B	SS-1B-0.5		0.5	8/24/21	µg/kg	<0.87	<0.87	<1.7	<8.7	<0.87	<0.87	<0.87	<1.7	<1.7	<1.7	<1.7	<1.7	<8.7	<0.87	<0.87	<0.87	<0.87	<1.7	<0.87	<0.87	<0.87
		SS-1B-2.5		2.5	8/24/21	µg/kg	<0.77	<0.77	<1.5	<7.7	<0.77	<0.77	<0.77	<1.5	<1.5	<1.5	<1.5	<1.5	<7.7	<0.77	<0.77	<0.77	<0.77	<1.5	<0.77	<0.77	<0.77
		SS-1B-5		5	8/24/21	µg/kg	<0.88	<0.88	<1.8	<8.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<8.8	<0.88	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88
		SS-1B-10		10	8/24/21	µg/kg	<1.0	<1.0	<2.0	<10	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
		SS-1B-20		20	8/24/21	µg/kg	<0.97	<0.97	<1.9	<9.7	<0.97	<0.97	<0.97	<1.9	<1.9	<1.9	<1.9	<1.9	<9.7	<0.97	<0.97	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97
	SS-4	SS-4-0.5		0.5	8/24/21	µg/kg	<0.73	<0.73	<1.5	<7.3	<0.73	<0.73	<0.73	<1.5	<1.5	<1.5	<1.5	<1.5	<7.3	<0.73	<0.73	<0.73	<0.73	<1.5	<0.73	<0.73	<0.73
		SS-4-2.5		2.5	8/24/21	µg/kg	<0.95	<0.95	<1.9	<9.5	<0.95	<0.95	<0.95	<1.9	<1.9	<1.9	<1.9	<1.9	<9.5	<0.95	<0.95	<0.95	<0.95	<1.9	<0.95	<0.95	<0.95
		SS-4-5		5	8/24/21	µg/kg	<0.86	<0.86	<1.7	<8.6	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<8.6	<0.86	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86
		SS-4-10		10	8/24/21	µg/kg	<0.97	<0.97	<1.9	<9.7	<0.97	<0.97	<0.97	<1.9	<1.9	<1.9	<1.9	<1.9	<9.7	<0.97	<0.97	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97
		SS-4-20		20	8/24/21	µg/kg	<1.2	<1.2	<2.4	<12	<1.2	<1.2	<1.2	<2.4	<2.4	<2.4	<2.4	<2.4	<12	<1.2	<1.2	<1.2	<1.2	<2.4	<1.2	<1.2	<1.2
	SS-5	SS-105-0.5	X	0.5	8/24/21	µg/kg	<0.82	<0.82	<1.6	<8.2	<0.82	<0.82	<0.82	<1.6	<1.6	<1.6	<1.6	<1.6	<8.2	<0.82	<0.82	<0.82	<0.82	<1.6	<0.82	<0.82	<0.82
		SS-5-0.5		0.5	8/24/21	µg/kg	<0.93	<0.93	<1.9	<9.3	<0.93	<0.93	<0.93	<1.9	<1.9	<1.9	<1.9	<1.9	<9.3	<0.93	<0.93	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93
		SS-5-2.5		2.5	8/24/21	µg/kg	<0.80	<0.80	<1.6	<8.0	<0.80	<0.80	<0.80	<1.6	<1.6	<1.6	<1.6	<1.6	<8.0	<0.80	<0.80	<0.80	<0.80	<1.6	<0.80	<0.80	<0.80
		SS-5-5		5	8/24/21	µg/kg	<0.77	<0.77	<1.5	<7.7	<0.77	<0.77	<0.77	<1.5	<1.5	<1.5	<1.5	<1.5	<7.7	<0.77	<0.77	<0.77	<0.77	<1.5	<0.77	<0.77	<0.77
	SS-6	SS-6-0.5		0.5	8/23/21	µg/kg	<0.75	<0.75	<1.5	<7.5	<0.75	<0.75	<0.75	<1.5	<1.5	<1.5	<1.5	<1.5	<7.5	<0.75	<0.75	<0.75	<0.75	<1.5	<0.75	<0.75	<0.75
		SS-6-2.5		2.5	8/23/21	µg/kg	<0.75	<0.75	<1.5	<7.5	<0.75	<0.75	<0.75	<1.5	<1.5	<1.5	<1.5	<1.5	<7.5	<0.75	<0.75	<0.75	<0.75	<1.5	<0.75	<0.75	<0.75
		SS-6-5		5	8/23/21	µg/kg	<0.75	<0.75	<1.5	<7.5	<0.75	<0.75	<0.75	<1.5	<1.5	<1.5	<1.5	<1.5	<7.5	<0.75	<0.75	<0.75	<0.75	<1.5	<0.75	<0.75	<0.75
	SS-7	SS-7-0.5		0.5	8/23/21	µg/kg	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<8.4	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84
		SS-7-2.5		2.5	8/23/21	µg/kg	<0.86	<0.86	<1.7	<8.6	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<8.6	<0.86	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86
		SS-7-5		5	8/23/21	µg/kg	<0.89	<0.89	<1.8	<8.9	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<8.9	<0.89	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89
	SS-8	SS-8-0.5		0.5	8/23/21	µg/kg	<0.86	<0.86	<1.7	<8.6	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<8.6	<0.86	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86
		SS-108-2.5	X	2.5	8/23/21	µg/kg	<0.80	<0.80	<1.6	<8.0	<0.80	<0.80	<0.80	<1.6	<1.6	<1.6	<1.6	<1.6	<8.0	<0.80	<0.80	<0.80	<0.80	<1.6	<0.80	<0.80	<0.80
		SS-8-2.5		2.5	8/23/21	µg/kg	<0.86	<0.86	<1.7	<8.6	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<8.6	<0.86	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86
		SS-8-5		5	8/23/21	µg/kg	<0.87	<0.87	<1.7	<8.7	<0.87	<0.87	<0.87	<1.7	<1.7	<1.7	<1.7	<1.7	<8.7	<0.87	<0.87	<0.87	<0.87	<1.7	<0.87	<0.87	<0.87
	SS-9	SS-9-0.5		0.5	8/23/21	µg/kg	<0.77	<0.77	<1.5	<7.7	<0.77	<0.77	<0.77	<1.5	<1.5	<1.5	<1.5	<1.5	<7.7	<0.77	<0.77	<0.77	<0.77	<1.5	<0.77	<0.77	<0.77
		SS-9-2.5		2.5	8/23/21	µg/kg	<0.75	<0.75	<1.5	<7.5	<0.75	<0.75	<0.75	<1.5	<1.5	<1.5	<1.5	<1.5	<7.5	<0.75	<0.75	<0.75	<0.75	<1.5	<0.75	<0.75	<0.75
		SS-9-5		5	8/23/21	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
	SS-10	SS-10-0.5		0.5	8/23/21	µg/kg	<0.77	<0.77	<1.5	<7.7	<0.77	<0.77	<0.77	<1.5	<1.5	<1.5	<1.5	<1.5	<7.7	<0.77	<0.77	<0.77	<0.77	<1.5	<0.77	<0.77	<0.77
		SS-10-2.5		2.5	8/23/21	µg/kg	<0.80	<0.80	<1.6	<8.0	<0.80	<0.80	<0.80	<1.6	<1.6	<1.6	<1.6	<1.6	<8.0	<0.80	<0.80	<0.80	<0.80	<1.6	<0.80	<0.80	<0.80
		SS-10-5		5	8/23/21	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
		SS-10-10		10	8/23/21	µg/kg	<0.89	<0.89	<1.8	<8.9	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<8.9	<0.89	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89
		SS-110-10	X	10	8/23/21	µg/kg	<1.1	<1.1	<2.2	<11	<1.1	<1.1	<1.1	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<1.1	<1.1	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1
		SS-10-20		20	8/23/21	µg/kg	<1.2	<1.2	<2.3	<12	<1.2	<1.2	<1.2	<2.3	<2.3	<2.3	<2.3	<2.3	<12	<1.2	<1.2	<1.2	<1.2	<2.3	<1.2	<1.2	<1.2
	SS-11	SS-11-0.5		0.5	8/25/21	µg/kg	<0.66	<0.66	<1.3	<6.6	<0.66	<0.66	<0.66	<1.3	<1.3	<1.3	<1.3	<1.3	<6.6	<0.66	<0.66	<0.66	<0.66	<1.3	<0.66	<0.66	<0.66
		SS-11-2.5		2.5	8/25/21	µg/kg	<0.82	<0.82	<1.6	<8.2	<0.82	<0.82	<0.82	<1.6	<1.6	<1.6	<1.6	<1.6	<8.2	<0.82	<0.82	<0.82	<0.82	<1.6	<0.82	<0.82	<0.82
		SS-111-5	X	5	8/25/21	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94
		SS-11-5		5	8/25/21	µg/kg	<0.88	<0.88	<1.8	<8.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<8.8	<0.88	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88
		SS-11-10		10	8/25/21	µg/kg	<1.2	<1.2	<2.4	<12	<1.2	<1.2	<1.2	<2.4	<2.4	<2.4	<2.4	<2.4	<12	<1.2	<1.2	<1.2	<1.2	<2.4	<1.2	<1.2	<1.2
	SS-12	SS-12-0.5		0.5	8/24/21	µg/kg	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<8.4	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84
		SS-12-2.5		2.5	8/24/21	µg/kg	<0.82	<0.82	<1.6	<8.2	<0.82	<0.82	<0.82	<1.6	<1.6	<1.6	<1.6	<1.6	<8.2	<0.82	<0.82	<0.82	<0.82	<1.6	<0.82	<0.82	<0.82
		SS-12-5		5	8/24/21	µg/kg	<1.0	<1.0	<2.0	<10	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
		SS-12-10		10	8/24/21	µg/kg	<1.1	<1.1	<2.2	<11	<1.1	<1.1	<1.1	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<1.1	<1.1	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1
		SS-12-20		20	8/24/21	µg/kg	<0.95	<0.95	<1.9	<9.5	<0.95	<0.95	<0.95	<1.9	<1.9	<1.9	<1.9	<1.9	<9.5	<0.95	<0.95	<0.95	<0.95	<1.9	<0.95	<0.95	<0.95

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																				
							1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
EPA RSL Industrial (May 2023)							8,800	36,000,000	2,700	28,000,000	5,000	16,000	1,000,000	--	930,000	110	110,000	1,800,000	64	160	9,300,000	2,000	11,000	1,500,000	--	23,000,000	11,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							8,800	--	2,700	--	--	16,000	--	--	--	21	35,000	--	57	160	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							2,700,000	7,200,000	4,300,000	--	--	7,100,000	350,000	--	300,000	21,000	260,000	--	25,000	30,000	--	--	--	--	--	2,200,000	--
25 (Units 3/4 Transformers)	T3-4-2	T3-4-2-0.5		0.5	9/1/21	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
	T3-4-4	T3-4-4-0.5		0.5	9/2/21	µg/kg	<2.7	<2.7	<5.4	<27	<2.7	<2.7	<2.7	<5.4	<5.4	<5.4	<5.4	<5.4	<27	<2.7	<2.7	<2.7	<2.7	<5.4	<2.7	<2.7	<2.7
	T3-4-5	T3-4-5-0.5		0.5	9/2/21	µg/kg	<0.77	<0.77	<1.5	<7.7	<0.77	<0.77	<0.77	<1.5	<1.5	<1.5	<1.5	<1.5	<7.7	<0.77	<0.77	<0.77	<0.77	<1.5	<0.77	<0.77	<0.77
		T3-4-5-2.5		2.5	9/2/21	µg/kg	<0.88	<0.88	<1.8	<8.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<8.8	<0.88	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88
	T3-4-8	T3-4-8-0.5		0.5	9/2/21	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94
25 (Units 3/4 Transformers)	T3-4-14	T3-4-14-0.5		0.5	9/1/21	µg/kg	<0.80	<0.80	<1.6	<8.0	<0.80	<0.80	<0.80	<1.6	<1.6	<1.6	<1.6	<1.6	<8.0	<0.80	<0.80	<0.80	<0.80	<1.6	<0.80	<0.80	<0.80
	T3-4-15	T3-4-15-0.5		0.5	9/1/21	µg/kg	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<8.4	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84
		T3-4-15-2.5		2.5	9/1/21	µg/kg	<0.80	<0.80	<1.6	<8.0	<0.80	<0.80	<0.80	<1.6	<1.6	<1.6	<1.6	<1.6	<8.0	<0.80	<0.80	<0.80	<0.80	<1.6	<0.80	<0.80	<0.80
26 (Units 1/2 Transformers)	T1-2-13	T1-2-13-0.5		0.5	8/31/21	µg/kg	<0.86	<0.86	<1.7	<8.6	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<8.6	<0.86	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86
	T1-2-14	T1-2-14-0.5		0.5	8/31/21	µg/kg	<0.92	<0.92	<1.8	<9.2	<0.92	<0.92	<0.92	<1.8	<1.8	<1.8	<1.8	<1.8	<9.2	<0.92	<0.92	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92
	T1-2-15	T1-2-15-0.5		0.5	8/31/21	µg/kg	<0.83	<0.83	<1.7	<8.3	<0.83	<0.83	<0.83	<1.7	<1.7	<1.7	<1.7	<1.7	<8.3	<0.83	<0.83	<0.83	<0.83	<1.7	<0.83	<0.83	<0.83
		T1-2-15-2.5		2.5	8/31/21	µg/kg	<0.83	<0.83	<1.7	<8.3	<0.83	<0.83	<0.83	<1.7	<1.7	<1.7	<1.7	<1.7	<8.3	<0.83	<0.83	<0.83	<0.83	<1.7	<0.83	<0.83	<0.83
	T1-2-16	T1-2-16-0.5		0.5	8/31/21	µg/kg	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<8.4	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84
	T1-2-19	T1-2-19-0.5		0.5	8/30/21	µg/kg	<0.86	<0.86	<1.7	<8.6	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<8.6	<0.86	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86
	T1-2-22	T1-2-22-0.5		0.5	8/30/21	µg/kg	<0.96	<0.96	<1.9	<9.6	<0.96	<0.96	<0.96	<1.9	<1.9	<1.9	<1.9	<1.9	<9.6	<0.96	<0.96	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96
	T1-2-26	T1-2-26-2.5		2.5	8/30/21	µg/kg	<0.89	<0.89	<1.8	<8.9	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<8.9	<0.89	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89
	T1-2-32	T1-2-32-0.5		0.5	8/26/21	µg/kg	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<8.4	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84
36 (Former Haz Waste Area)	F36-1	F36-1-0.5		0.5	8/24/21	µg/kg	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<8.4	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84
		F36-1-2.5		2.5	8/24/21	µg/kg	<0.91	<0.91	<1.8	<9.1	<0.91	<0.91	<0.91	<1.8	<1.8	<1.8	<1.8	<1.8	<9.1	<0.91	<0.91	<0.91	<0.91	<1.8	<0.91	<0.91	<0.91
	F36-2	F36-2-0.5		0.5	8/24/21	µg/kg	<0.85	<0.85	<1.7	<8.5	<0.85	<0.85	<0.85	<1.7	<1.7	<1.7	<1.7	<1.7	<8.5	<0.85	<0.85	<0.85	<0.85	<1.7	<0.85	<0.85	<0.85
		F36-2-2.5		2.5	8/24/21	µg/kg	<0.85	<0.85	<1.7	<8.5	<0.85	<0.85	<0.85	<1.7	<1.7	<1.7	<1.7	<1.7	<8.5	<0.85	<0.85	<0.85	<0.85	<1.7	<0.85	<0.85	<0.85
	F36-3	F36-3-0.5		0.5	8/25/21	µg/kg	<0.89	<0.89	<1.8	<8.9	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<8.9	<0.89	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89
		F36-3-2.5		2.5	8/25/21	µg/kg	<0.92	<0.92	<1.8	<9.2	<0.92	<0.92	<0.92	<1.8	<1.8	<1.8	<1.8	<1.8	<9.2	<0.92	<0.92	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92
Equipment Rinsate Blanks																											
--	--	EB-B-082321		--	8/23/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-A-082421		--	8/24/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-B-082521		--	8/25/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-A-082721		--	8/27/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-B-082721		--	8/27/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-B-083021		--	8/30/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-A-083121		--	8/31/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-B-083121		--	8/31/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-A1-090121		--	9/1/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-B-090121		--	9/1/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-A2-090221		--	9/2/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-A-010322		--	1/3/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-020822		--	2/8/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-021122		--	2/11/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																			
							1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
EPA RSL Industrial (May 2023)							8,800	36,000,000	2,700	28,000,000	5,000	16,000	1,000,000	--	930,000	110	110,000	1,800,000	64	160	9,300,000	2,000	11,000	1,500,000	--	23,000,000	11,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							8,800	--	2,700	--	--	16,000	--	--	--	21	35,000	--	57	160	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							2,700,000	7,200,000	4,300,000	--	--	7,100,000	350,000	--	300,000	21,000	260,000	--	25,000	30,000	--	--	--	--	--	2,200,000	--
Trip Blanks																										
--	--	TB-A-082321		--	8/23/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-B-082321		--	8/23/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-A-082421		--	8/24/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-B-082421		--	8/24/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-A-082521		--	8/25/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.24 J B
--	--	TB-B-082521		--	8/25/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-A-082621		--	8/26/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-B-082621		--	8/26/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-B-082721		--	8/27/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-A-083021		--	8/30/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-B-083021		--	8/30/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-A-083121		--	8/31/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-B-083121		--	8/31/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-A-090121		--	9/1/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-B-090121		--	9/1/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-A-090221		--	9/2/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-B-090221		--	9/2/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-A-091021		--	9/10/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-091522		--	9/15/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-A-101421		--	10/14/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-110521		--	11/5/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-A-010322		--	1/3/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-020822		--	2/8/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-021122		--	2/11/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
Field Blanks																										
--	--	FB-EA182-082321		--	8/23/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-EA182-082421		--	8/24/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-DZ609-082521		--	8/25/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-DZ609-082621		--	8/26/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-DZ609-082721		--	8/27/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-D2609-083021		--	8/30/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-DZ609-083121		--	8/31/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-DZ609-090121		--	9/1/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-EA-182-090221		--	9/2/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-DX348-091021		--	9/10/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-091522		--	9/15/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-EB152-091621		--	9/16/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-EB152-101421		--	10/14/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-EB152-101521		--	10/15/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-EB152-110521		--	11/5/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-EB152-010322		--	1/3/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																				
							1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
EPA RSL Industrial (May 2023)							8,800	36,000,000	2,700	28,000,000	5,000	16,000	1,000,000	--	930,000	110	110,000	1,800,000	64	160	9,300,000	2,000	11,000	1,500,000	--	23,000,000	11,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							8,800	--	2,700	--	--	16,000	--	--	--	21	35,000	--	57	160	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							2,700,000	7,200,000	4,300,000	--	--	7,100,000	350,000	--	300,000	21,000	260,000	--	25,000	30,000	--	--	--	--	--	2,200,000	--
--	--	FB-A-010422		--	1/4/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-A-010522		--	1/5/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-D2838-020822		--	2/8/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-D2838-021122		--	2/11/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
Potable Water Sample (Drilling Rig Tank Water)																											
--	--	RW-010322		--	1/3/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0

NOTES:

17	**Bold** value is reported concentration above the laboratory Method Detection Limit (MDL).
<0.84	Denotes analyte not detected above the posted Reporting Limit (RL)
J	Concentration is below the RL but above the MDL so the result represents an estimated value
B	Compound was detected in the laboratory method blank and the sample
NA	Not analyzed or No Published Value
µg/kg	Micrograms per kilogram
µg/L	Micrograms per liter
Dup	Field duplicate samples are identified in this column with an "X"
EPA RSL	United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for commercial/industrial land use (Updated May 2023)
DTSC-SLs	Department of Toxic Substances Control (DTSC)-modified screening levels for commercial/industrial land use (Updated May 2022)

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																		
							2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorobromomethane	Chloroethane	Chloroform	Chloromethane
EPA RSL Industrial (May 2023)							--	190,000,000	23,000,000	1,300,000	23,000,000	140,000,000	1,100,000,000	5,100	1,800,000	1,300	86,000	30,000	3,500,000	2,900	1,300,000	630,000	23,000,000	1,400	460,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	--	--	--	--	--	1,400	--	1,300	86,000	--	--	2,900	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	--	2,500,000	--	2,300,000	--	--	46,000	--	1,300,000	3,000,000	--	--	250,000	--	--	--	--	--
RFI Sample Results																									
5 (Fueling Station)	F5-1	F5-1-2.5		2.5	8/27/21	µg/kg	<4.6	<19	<0.93	<19	<0.93	<19	**14 J**	<0.93	<0.93	<0.93	<4.6	<19	**0.70 J**	<0.93	<0.93	<1.9	<1.9	<0.93	<19
		F5-1-5		5	8/27/21	µg/kg	<5.8	<23	<1.2	<23	<1.2	<23	<23	<1.2	<1.2	<1.2	<5.8	<23	**4.2 J**	<1.2	<1.2	<2.3	<2.3	<1.2	<23
	F5-2	F5-2-2.5		2.5	8/27/21	µg/kg	<4.3	<17	<0.87	<17	<0.87	<17	<17	<0.87	<0.87	<0.87	<4.3	<17	<8.7	<0.87	<0.87	<1.7	<1.7	<0.87	<17
		F5-2-5		5	8/27/21	µg/kg	<7.8	<31	<1.6	<31	<1.6	<31	**29 J**	<1.6	<1.6	<1.6	<7.8	<31	**0.96 J**	<1.6	<1.6	<3.1	<3.1	<1.6	<31
6 (Unit 5 Peaker)	P-1	P-1-2.5		2.5	8/23/21	µg/kg	<4.4	<18	<0.88	<18	<0.88	<18	**11 J**	<0.88	<0.88	<0.88	<4.4	<18	<8.8	<0.88	<0.88	<1.8	<1.8	<0.88	<18
		P-1-5		5	8/23/21	µg/kg	<3.9	<16	<0.79	<16	<0.79	<16	**17**	<0.79	<0.79	<0.79	<3.9	<16	**0.73 J**	<0.79	<0.79	<1.6	<1.6	<0.79	<16
		P-1-10		10	8/23/21	µg/kg	<4.7	**5.5 J**	<0.94	<19	<0.94	<19	**15 J**	**1.2**	<0.94	<0.94	<4.7	<19	<9.4	<0.94	<0.94	<1.9	<1.9	<0.94	<19
	P-1B	P-1B-20		20	9/2/21	µg/kg	<4.7	<19	<0.93	<19	<0.93	<19	**16 J**	<0.93	<0.93	<0.93	<4.7	<19	<9.3	<0.93	<0.93	<1.9	<1.9	<0.93	<19
		P-1B-40		40	9/2/21	µg/kg	<4.2	<17	<0.84	<17	<0.84	<17	<17	**1.2**	<0.84	<0.84	<4.2	<17	<8.4	<0.84	<0.84	<1.7	<1.7	<0.84	<17
	P-5	P-5-5		5	9/1/21	µg/kg	<5.4	<22	<1.1	<22	<1.1	<22	**16 J**	<1.1	<1.1	<1.1	<5.4	<22	**1.8 J**	<1.1	<1.1	<2.2	<2.2	<1.1	<22
		P-5-20		20	9/1/21	µg/kg	<4.3	<17	<0.85	<17	<0.85	<17	<17	**0.24 J**	<0.85	<0.85	<4.3	<17	<8.5	<0.85	<0.85	<1.7	<1.7	<0.85	<17
	P-6	P-106-5	X	5	9/1/21	µg/kg	<4.7	<19	<0.94	<19	<0.94	<19	**16 J**	<0.94	<0.94	<0.94	<4.7	<19	<9.4	<0.94	<0.94	<1.9	<1.9	<0.94	<19
		P-6-5		5	9/1/21	µg/kg	<4.6	<18	<0.92	<18	<0.92	<18	**15 J**	<0.92	<0.92	<0.92	<4.6	<18	<9.2	<0.92	<0.92	<1.8	<1.8	<0.92	<18
		P-6-20		20	9/1/21	µg/kg	<6.4	<26	<1.3	<26	<1.3	<26	**13 J**	<1.3	<1.3	<1.3	<6.4	<26	<13	<1.3	<1.3	<2.6	<2.6	<1.3	<26
	P-8	P-8-5		5	9/10/21	µg/kg	<4.8	<19	<0.97	<19	<0.97	<19	**19**	<0.97	<0.97	<0.97	<4.8	<19	**1.2 J**	<0.97	<0.97	<1.9	<1.9	<0.97	<19
		P-8-20		20	9/10/21	µg/kg	<4.1	<16	<0.82	<16	<0.82	<16	**8.4 J**	**0.28 J**	<0.82	<0.82	<4.1	<16	<8.2	<0.82	<0.82	<1.6	<1.6	<0.82	<16
	P-9	P-9-5		5	9/10/21	µg/kg	<4.6	<18	<0.92	<18	<0.92	<18	**54**	<0.92	<0.92	<0.92	<4.6	<18	**0.47 J**	<0.92	<0.92	<1.8	<1.8	<0.92	<18
		P-9-20		20	9/10/21	µg/kg	<3.9	<15	<0.77	<15	<0.77	<15	**11 J**	**0.26 J**	<0.77	<0.77	<3.9	<15	<7.7	<0.77	<0.77	<1.5	<1.5	<0.77	<15
	PT1-2	PT1-2-0.5		0.5	8/24/21	µg/kg	<4.5	**6.5 J**	<0.89	<18	<0.89	<18	**34**	<0.89	<0.89	<0.89	<4.5	<18	**4.6 J**	<0.89	<0.89	<1.8	<1.8	<0.89	<18
	PT1-3	PT1-3-0.5		0.5	8/24/21	µg/kg	<4.7	**5.7 J**	<0.93	<19	<0.93	<19	**32**	<0.93	<0.93	<0.93	<4.7	<19	<9.3	<0.93	<0.93	<1.9	<1.9	<0.93	<19
	PT2-1	PT2-1-0.5		0.5	8/23/21	µg/kg	<4.4	<17	<0.87	<17	<0.87	<17	**24**	**0.29 J**	<0.87	<0.87	<4.4	<17	<8.7	<0.87	<0.87	<1.7	<1.7	<0.87	<17
11 (Chadwick Channel)	F11-1	F11-1-0.5		0.5	8/26/21	µg/kg	<4.3	**11 J**	<0.86	**3.9 J**	<0.86	<17	**78**	**0.71 J**	<0.86	<0.86	<4.3	<17	**0.56 J**	<0.86	<0.86	<1.7	<1.7	<0.86	<17
		F11-101-0.5	X	0.5	8/26/21	µg/kg	<5.1	**13 J**	<1.0	**4.8 J**	<1.0	<21	**110**	**0.88 J**	<1.0	<1.0	<5.1	<21	**0.56 J**	<1.0	<1.0	<2.1	<2.1	<1.0	<21
		F11-1-2.5		2.5	8/26/21	µg/kg	<5.5	<22	<1.1	<22	<1.1	<22	**30**	<1.1	<1.1	<1.1	<5.5	<22	<11	<1.1	<1.1	<2.2	<2.2	<1.1	<22
	F11-10	F11-10-0.5		0.5	8/26/21	µg/kg	<4.1	**23**	<0.83	**5.0 J**	<0.83	**3.2 J**	**140**	**0.74 J**	<0.83	<0.83	<4.1	<17	**0.41 J**	<0.83	<0.83	<1.7	<1.7	<0.83	<17
		F11-110-0.5	X	0.5	8/26/21	µg/kg	<4.6	**51**	<0.91	**11 J**	<0.91	<18	**240**	**0.76 J**	<0.91	<0.91	<4.6	<18	<9.1	<0.91	<0.91	<1.8	<1.8	<0.91	<18
		F11-10-2.5		2.5	8/26/21	µg/kg	<4.6	**4.3 J**	<0.92	<18	<0.92	<18	**26**	<0.92	<0.92	<0.92	<4.6	<18	<9.2	<0.92	<0.92	<1.8	<1.8	<0.92	<18
	F11-2A	F11-2A-0.5		0.5	8/26/21	µg/kg	<4.9	**26**	<0.98	**6.0 J**	<0.98	**5.0 J**	**150**	**0.90 J**	<0.98	<0.98	<4.9	<20	**1.0 J**	<0.98	<0.98	<2.0	<2.0	<0.98	<20
		F11-2A-2.5		2.5	8/26/21	µg/kg	<4.5	**37**	<0.89	**5.6 J**	<0.89	<18	**230**	**0.70 J**	<0.89	<0.89	<4.5	<18	<8.9	<0.89	<0.89	<1.8	<1.8	<0.89	<18
	F11-2B	F11-2B-0.5		0.5	8/26/21	µg/kg	<4.6	**6.5 J**	<0.92	<18	<0.92	<18	**43**	**0.78 J**	<0.92	<0.92	<4.6	<18	<9.2	<0.92	<0.92	<1.8	<1.8	<0.92	<18
		F11-2B-2.5		2.5	8/26/21	µg/kg	<4.7	<19	<0.94	<19	<0.94	<19	**22**	**0.24 J**	<0.94	<0.94	<4.7	<19	<9.4	<0.94	<0.94	<1.9	<1.9	<0.94	<19
	F11-3	F11-3-0.5		0.5	8/26/21	µg/kg	<4.8	**15 J**	<0.96	<19	<0.96	<19	**78**	**0.69 J**	<0.96	<0.96	<4.8	<19	<9.6	<0.96	<0.96	<1.9	<1.9	<0.96	<19
		F11-3-2.5		2.5	8/26/21	µg/kg	<5.5	<22	<1.1	<22	<1.1	<22	**41**	<1.1	<1.1	<1.1	<5.5	<22	<11	<1.1	<1.1	<2.2	<2.2	<1.1	<22
	F11-4	F11-4-0.5		0.5	8/31/21	µg/kg	<4.6	<18	<0.92	<18	<0.92	<18	**24**	<0.92	<0.92	<0.92	<4.6	<18	<9.2	<0.92	<0.92	<1.8	<1.8	<0.92	<18
		F11-4-2.5		2.5	8/31/21	µg/kg	<4.9	<20	<0.98	<20	<0.98	<20	**32**	**0.50 J**	<0.98	<0.98	<4.9	<20	<9.8	<0.98	<0.98	<2.0	<2.0	<0.98	<20
	F11-5	F11-105-0.5	X	0.5	8/31/21	µg/kg	<5.1	<21	<1.0	<21	<1.0	<21	**40**	**0.43 J**	<1.0	<1.0	<5.1	<21	<10	<1.0	<1.0	<2.1	<2.1	<1.0	<21
		F11-5-0.5		0.5	8/31/21	µg/kg	<4.4	<18	<0.88	<18	<0.88	<18	**40**	**0.56 J**	<0.88	<0.88	<4.4	<18	<8.8	<0.88	<0.88	<1.8	<1.8	<0.88	<18
11 (Chadwick Channel)	F11-5	F11-5-2.5		2.5	8/31/21	µg/kg	<4.9	**7.4 J**	<0.99	<20	<0.99	<20	**47**	**0.89 J**	<0.99	<0.99	<4.9	<20	<9.9	<0.99	<0.99	<2.0	<2.0	<0.99	<20
	F11-6	F11-6-0.5		0.5	8/31/21	µg/kg	<3.8	<15	<0.77	<15	<0.77	<15	**22**	<0.77	<0.77	<0.77	<3.8	<15	<7.7	<0.77	<0.77	<1.5	<1.5	<0.77	<15
		F11-6-2.5		2.5	8/31/21	µg/kg	<4.3	<17	<0.87	<17	<0.87	<17	**19**	<0.87	<0.87	<0.87	<4.3	<17	<8.7	<0.87	<0.87	<1.7	<1.7	<0.87	<17
	F11-7	F11-7-0.5		0.5	8/31/21	µg/kg	<4.8	**9.6 J**	<0.96	<19	<0.96	<19	**44**	**0.30 J**	<0.96	<0.96	<4.8	<19	<9.6	<0.96	<0.96	<1.9	<1.9	<0.96	<19
		F11-7-2.5		2.5	8/31/21	µg/kg	<5.0	<20	<0.99	<20	<0.99	<20	<20	<0.99	<0.99	<0.99	<5.0	<20	<9.9	<0.99	<0.99	<2.0	<2.0	<0.99	<20
	F11-8	F11-8-0.5		0.5	8/31/21	µg/kg	<4.7	<19	<0.94	<19	<0.94	<19	**11 J**	**0.28 J**	<0.94	<0.94	<4.7	<19	<9.4	<0.94	<0.94	<1.9	<1.9	<0.94	<19
		F11-8-2.5		2.5	8/31/21	µg/kg	<5.2	<21	<1.0	<21	<1.0	<21	<21	<1.0	<1.0	<1.0	<5.2	<21	<10	<1.0	<1.0	<2.1	<2.1	<1.0	<21
	F11-9	F11-9-0.5		0.5	8/26/21	µg/kg	<4.7	**4.8 J**	<0.94	<19	<0.94	<19	**27**	<0.94	<0.94	<0.94	<4.7	<19	<9.4	<0.94	<0.94	<1.9	<1.9	<0.94	<19

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																		
							2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorobromomethane	Chloroethane	Chloroform	Chloromethane
EPA RSL Industrial (May 2023)							--	190,000,000	23,000,000	1,300,000	23,000,000	140,000,000	1,100,000,000	5,100	1,800,000	1,300	86,000	30,000	3,500,000	2,900	1,300,000	630,000	23,000,000	1,400	460,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	--	--	--	--	--	1,400	--	1,300	86,000	--	--	2,900	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	--	2,500,000	--	2,300,000	--	--	46,000	--	1,300,000	3,000,000	--	--	250,000	--	--	--	--	--
14 (Haz Waste Accumulation Area)	F14-1	F14-1-0.5		0.5	8/25/21	µg/kg	<4.3	<17	<0.86	<17	<0.86	<17	**11 J**	**0.39 J**	<0.86	<0.86	<4.3	<17	<8.6	<0.86	<0.86	<1.7	<1.7	<0.86	<17
		F14-1-2.5		2.5	8/25/21	µg/kg	<4.8	**5.1 J**	<0.95	<19	<0.95	<19	**23**	**0.78 J**	<0.95	<0.95	<4.8	<19	<9.5	<0.95	<0.95	<1.9	<1.9	<0.95	<19
17 (Maintenance Shop)	MS-10	MS-10-0.5		0.5	8/25/21	µg/kg	<4.6	**12 J**	<0.93	<19	<0.93	<19	**39**	<0.93	<0.93	<0.93	<4.6	<19	<9.3	<0.93	<0.93	<1.9	<1.9	<0.93	<19
		MS-10-2.5		2.5	8/25/21	µg/kg	<3.9	**3.7 J**	<0.78	<16	<0.78	<16	**10 J**	**0.51 J**	<0.78	<0.78	<3.9	<16	**0.39 J**	<0.78	<0.78	<1.6	<1.6	<0.78	<16
		MS-10-5		5	8/25/21	µg/kg	<5.5	<22	<1.1	<22	<1.1	<22	<22	<1.1	<1.1	<1.1	<5.5	<22	<11	<1.1	<1.1	<2.2	<2.2	<1.1	<22
		MS-10-10		10	8/25/21	µg/kg	<6.1	<24	<1.2	<24	<1.2	<24	<24	<1.2	<1.2	<1.2	<6.1	<24	<12	<1.2	<1.2	<2.4	<2.4	<1.2	<24
		MS-10-20		20	8/25/21	µg/kg	<6.9	<27	<1.4	<27	<1.4	<27	<27	<1.4	<1.4	<1.4	<6.9	<27	<14	<1.4	<1.4	<2.7	<2.7	<1.4	<27
	MS-11	MS-11-0.5		0.5	8/25/21	µg/kg	<4.4	**14 J**	<0.88	<18	<0.88	<18	**66**	<0.88	<0.88	<0.88	<4.4	<18	**1.5 J**	<0.88	<0.88	<1.8	<1.8	<0.88	<18
		MS-11-2.5		2.5	8/25/21	µg/kg	<4.5	<18	<0.90	<18	<0.90	<18	**19**	<0.90	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
		MS-11-5		5	8/25/21	µg/kg	<5.0	**6.9 J**	<0.99	<20	<0.99	<20	**15 J**	**0.54 J**	<0.99	<0.99	<5.0	<20	**0.48 J**	<0.99	<0.99	<2.0	<2.0	<0.99	<20
		MS-11-10		10	8/25/21	µg/kg	<4.8	<19	<0.96	<19	<0.96	<19	**14 J**	<0.96	<0.96	<0.96	<4.8	<19	<9.6	<0.96	<0.96	<1.9	<1.9	<0.96	<19
		MS-111-10	X	10	8/25/21	µg/kg	<5.8	<23	<1.2	<23	<1.2	<23	**14 J**	<1.2	<1.2	<1.2	<5.8	<23	<12	<1.2	<1.2	<2.3	<2.3	<1.2	<23
		MS-11-20		20	8/25/21	µg/kg	<5.4	<22	<1.1	<22	<1.1	<22	**14 J**	<1.1	<1.1	<1.1	<5.4	<22	<11	<1.1	<1.1	<2.2	<2.2	<1.1	<22
	MS-12	MS-12-0.5		0.5	8/25/21	µg/kg	<4.5	<18	<0.90	<18	<0.90	<18	**14 J**	<0.90	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
		MS-12-2.5		2.5	8/25/21	µg/kg	<5.1	<20	<1.0	<20	<1.0	<20	**11 J**	<1.0	<1.0	<1.0	<5.1	<20	**1.3 J**	<1.0	<1.0	<2.0	<2.0	<1.0	<20
		MS-12-5		5	8/25/21	µg/kg	<7.5	<30	<1.5	<30	<1.5	<30	<30	<1.5	<1.5	<1.5	<7.5	<30	<15	<1.5	<1.5	<3.0	<3.0	<1.5	<30
		MS-12-10		10	8/25/21	µg/kg	<4.5	<18	<0.90	<18	<0.90	<18	**10 J**	**0.35 J**	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
		MS-12-20		20	8/25/21	µg/kg	<4.9	<20	<0.98	<20	<0.98	<20	**14 J**	<0.98	<0.98	<0.98	<4.9	<20	<9.8	<0.98	<0.98	<2.0	<2.0	<0.98	<20
	MS-13	MS-13-0.5		0.5	8/26/21	µg/kg	<4.5	<18	<0.89	<18	<0.89	<18	**17 J**	<0.89	<0.89	<0.89	<4.5	<18	<8.9	<0.89	<0.89	<1.8	<1.8	<0.89	<18
		MS-113-2.5	X	2.5	8/26/21	µg/kg	<4.4	<18	<0.89	<18	<0.89	<18	<18	<0.89	<0.89	<0.89	<4.4	<18	<8.9	<0.89	<0.89	<1.8	<1.8	<0.89	<18
		MS-13-2.5		2.5	8/26/21	µg/kg	<4.5	<18	<0.90	<18	<0.90	<18	**11 J**	<0.90	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
		MS-13-5		5	8/26/21	µg/kg	<4.6	<19	<0.93	<19	<0.93	<19	<19	<0.93	<0.93	<0.93	<4.6	<19	<9.3	<0.93	<0.93	<1.9	<1.9	<0.93	<19
		MS-13-10		10	8/26/21	µg/kg	<4.1	<16	<0.82	<16	<0.82	<16	<16	**0.44 J**	<0.82	<0.82	<4.1	<16	<8.2	<0.82	<0.82	<1.6	<1.6	<0.82	<16
		MS-13-20		20	8/26/21	µg/kg	<6.1	<24	<1.2	<24	<1.2	<24	<24	<1.2	<1.2	<1.2	<6.1	<24	<12	<1.2	<1.2	<2.4	<2.4	<1.2	<24
	MS-13B	MS-13B-35		35	9/2/21	µg/kg	<4.7	<19	<0.94	<19	<0.94	<19	**15 J**	<0.94	<0.94	<0.94	<4.7	<19	<9.4	<0.94	<0.94	<1.9	<1.9	<0.94	<19
		MS-13B-50		50	9/2/21	µg/kg	<5.2	<21	<1.0	<21	<1.0	<21	**23**	<1.0	<1.0	<1.0	<5.2	<21	<10	<1.0	<1.0	<2.1	<2.1	<1.0	<21
	MS-14	MS-14-0.5		0.5	8/25/21	µg/kg	<4.5	<18	<0.91	<18	<0.91	<18	<18	<0.91	<0.91	<0.91	<4.5	<18	<9.1	<0.91	<0.91	<1.8	<1.8	<0.91	<18
		MS-14-2.5		2.5	8/25/21	µg/kg	<4.8	<19	<0.97	<19	<0.97	<19	<19	<0.97	<0.97	<0.97	<4.8	<19	<9.7	<0.97	<0.97	<1.9	<1.9	<0.97	<19
		MS-14-5		5	8/25/21	µg/kg	<4.7	<19	<0.94	<19	<0.94	<19	<19	<0.94	<0.94	<0.94	<4.7	<19	<9.4	<0.94	<0.94	<1.9	<1.9	<0.94	<19
	MS-15	MS-15-0.5		0.5	8/26/21	µg/kg	<4.4	<18	<0.88	<18	<0.88	<18	**12 J**	<0.88	<0.88	<0.88	<4.4	<18	<8.8	<0.88	<0.88	<1.8	<1.8	<0.88	<18
		MS-15-2.5		2.5	8/26/21	µg/kg	<4.8	<19	<0.96	<19	<0.96	<19	**15 J**	<0.96	<0.96	<0.96	<4.8	<19	<9.6	<0.96	<0.96	<1.9	<1.9	<0.96	<19
		MS-15-5		5	8/26/21	µg/kg	<5.1	<20	<1.0	<20	<1.0	<20	**12 J**	<1.0	<1.0	<1.0	<5.1	<20	<10	<1.0	<1.0	<2.0	<2.0	<1.0	<20
		MS-15-10		10	8/26/21	µg/kg	<6.6	<26	<1.3	<26	<1.3	<26	<26	**1.9**	<1.3	<1.3	<6.6	<26	<13	<1.3	<1.3	<2.6	<2.6	<1.3	<26
		MS-15-20		20	8/26/21	µg/kg	<4.8	<19	<0.97	<19	<0.97	<19	<19	**0.30 J**	<0.97	<0.97	<4.8	<19	<9.7	<0.97	<0.97	<1.9	<1.9	<0.97	<19
	MS-16	MS-116-0.5	X	0.5	8/24/21	µg/kg	<4.0	<16	<0.81	<16	<0.81	<16	<16	<0.81	<0.81	<0.81	<4.0	<16	**0.45 J**	<0.81	<0.81	<1.6	<1.6	<0.81	<16
		MS-16-0.5		0.5	8/24/21	µg/kg	<4.0	**5.3 J**	<0.79	<16	<0.79	<16	**33**	<0.79	<0.79	<0.79	<4.0	<16	<7.9	<0.79	<0.79	<1.6	<1.6	<0.79	<16
		MS-16-2.5		2.5	8/24/21	µg/kg	<4.3	<17	<0.87	<17	<0.87	<17	**25**	<0.87	<0.87	<0.87	<4.3	<17	<8.7	<0.87	<0.87	<1.7	<1.7	<0.87	<17
		MS-16-5		5	8/24/21	µg/kg	<4.4	<18	<0.89	<18	<0.89	<18	**8.9 J**	<0.89	<0.89	<0.89	<4.4	<18	<8.9	<0.89	<0.89	<1.8	<1.8	<0.89	<18
		MS-16-10		10	8/24/21	µg/kg	<5.8	<23	<1.2	<23	<1.2	<23	**16 J**	**0.64 J**	<1.2	<1.2	<5.8	<23	<12	<1.2	<1.2	<2.3	<2.3	<1.2	<23
		MS-16-20		20	8/24/21	µg/kg	<5.6	<23	<1.1	<23	<1.1	<23	**15 J**	<1.1	<1.1	<1.1	<5.6	<23	<11	<1.1	<1.1	<2.3	<2.3	<1.1	<23

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																			
							2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorobromomethane	Chloroethane	Chloroform	Chloromethane
EPA RSL Industrial (May 2023)							--	190,000,000	23,000,000	1,300,000	23,000,000	140,000,000	1,100,000,000	5,100	1,800,000	1,300	86,000	30,000	3,500,000	2,900	1,300,000	630,000	23,000,000	1,400	460,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	--	--	--	--	--	1,400	--	1,300	86,000	--	--	2,900	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	--	2,500,000	--	2,300,000	--	--	46,000	--	1,300,000	3,000,000	--	--	250,000	--	--	--	--	--
17 (Maintenance Shop)	MS-17	MS-17-0.5		0.5	8/24/21	µg/kg	<4.1	**15 J**	<0.82	<16	<0.82	<16	**110**	**0.23 J**	<0.82	<0.82	<4.1	<16	<8.2	<0.82	<0.82	<1.6	<1.6	<0.82	<16
		MS-17-2.5		2.5	8/24/21	µg/kg	<6.4	<26	<1.3	<26	<1.3	<26	**24 J**	<1.3	<1.3	<1.3	<6.4	<26	<13	<1.3	<1.3	<2.6	<2.6	<1.3	<26
		MS-17-5		5	8/24/21	µg/kg	<6.7	<27	<1.3	<27	<1.3	<27	<27	<1.3	<1.3	<1.3	<6.7	<27	<13	<1.3	<1.3	<2.7	<2.7	<1.3	<27
		MS-117-10	X	10	8/24/21	µg/kg	<3.9	<16	<0.78	<16	<0.78	<16	<16	**1.1**	<0.78	<0.78	<3.9	<16	<7.8	<0.78	<0.78	<1.6	<1.6	<0.78	<16
		MS-17-10		10	8/24/21	µg/kg	<4.2	<17	<0.83	<17	<0.83	<17	<17	<0.83	<0.83	<0.83	<4.2	<17	<8.3	<0.83	<0.83	<1.7	<1.7	<0.83	<17
		MS-17-20		20	8/24/21	µg/kg	<4.4	<17	<0.87	<17	<0.87	<17	**12 J**	<0.87	<0.87	<0.87	<4.4	<17	<8.7	<0.87	<0.87	<1.7	<1.7	<0.87	<17
	MS-17B	MS-17B-40		40	9/2/21	µg/kg	<5.1	<20	<1.0	<20	<1.0	<20	**16 J**	**0.58 J**	<1.0	<1.0	<5.1	<20	<10	<1.0	<1.0	<2.0	<2.0	<1.0	<20
		MS-17B-60		60	9/2/21	µg/kg	<4.8	<19	<0.97	<19	<0.97	<19	**20**	**0.37 J**	<0.97	<0.97	<4.8	<19	<9.7	<0.97	<0.97	<1.9	<1.9	<0.97	<19
	MS-18	MS-18-0.5		0.5	8/24/21	µg/kg	<4.2	<17	<0.85	<17	<0.85	<17	**34**	**0.28 J**	<0.85	<0.85	<4.2	<17	<8.5	<0.85	<0.85	<1.7	<1.7	<0.85	<17
		MS-18-2.5		2.5	8/24/21	µg/kg	<4.6	<18	<0.92	<18	<0.92	<18	**16 J**	<0.92	<0.92	<0.92	<4.6	<18	<9.2	<0.92	<0.92	<1.8	<1.8	<0.92	<18
		MS-18-5		5	8/24/21	µg/kg	<4.9	<20	<0.98	<20	<0.98	<20	**21**	<0.98	<0.98	<0.98	<4.9	<20	<9.8	<0.98	<0.98	<2.0	<2.0	<0.98	<20
	MS-19	MS-19-5		5	9/1/21	µg/kg	<4.7	<19	<0.94	<19	<0.94	<19	**14 J**	<0.94	<0.94	<0.94	<4.7	<19	**0.93 J**	<0.94	<0.94	<1.9	<1.9	<0.94	<19
		MS-19-20		20	9/1/21	µg/kg	<4.2	<17	<0.84	<17	<0.84	<17	<17	<0.84	<0.84	<0.84	<4.2	<17	<8.4	<0.84	<0.84	<1.7	<1.7	<0.84	<17
	MS-20	MS-20-5		5	9/1/21	µg/kg	<4.2	<17	<0.84	<17	<0.84	<17	**15 J**	<0.84	<0.84	<0.84	<4.2	<17	<8.4	<0.84	<0.84	<1.7	<1.7	<0.84	<17
		MS-20-20		20	9/1/21	µg/kg	<3.5	<14	<0.69	<14	<0.69	<14	**7.3 J**	<0.69	<0.69	<0.69	<3.5	<14	<6.9	<0.69	<0.69	<1.4	<1.4	<0.69	<14
	MS-21	MS-21-5		5	9/10/21	µg/kg	<4.6	<18	<0.91	<18	<0.91	<18	**9.2 J**	<0.91	<0.91	<0.91	<4.6	<18	<9.1	<0.91	<0.91	<1.8	<1.8	<0.91	<18
		MS-21-20		20	9/10/21	µg/kg	<3.6	<14	<0.71	<14	<0.71	<14	<14	<0.71	<0.71	<0.71	<3.6	<14	<7.1	<0.71	<0.71	<1.4	<1.4	<0.71	<14
	MS-22	MS-22-5		5	10/14/21	µg/kg	<5.2	<21	<1.0	<21	<1.0	<21	**17 J**	<1.0	<1.0	<1.0	<5.2	<21	<10	<1.0	<1.0	<2.1	<2.1	<1.0	<21
		MS-22-20		20	10/14/21	µg/kg	<4.4	<18	<0.88	<18	<0.88	<18	<18	<0.88	<0.88	<0.88	<4.4	<18	<8.8	<0.88	<0.88	<1.8	<1.8	<0.88	<18
	MS-23	MS-123-5	X	5	10/14/22	µg/kg	<4.3	<17	<0.86	<17	<0.86	<17	<17	**0.24 J**	<0.86	<0.86	<4.3	<17	<8.6	<0.86	<0.86	<1.7	<1.7	<0.86	<17
		MS-23-5		5	10/14/22	µg/kg	<4.5	<18	<0.90	<18	<0.90	<18	<18	<0.90	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
		MS-23-20		20	10/14/22	µg/kg	<4.7	<19	<0.93	<19	<0.93	<19	<19	<0.93	<0.93	<0.93	<4.7	<19	<9.3	<0.93	<0.93	<1.9	<1.9	<0.93	<19
	MS-23B	MS-23B-40		40	11/5/22	µg/kg	<4.5	**5.6 J**	<0.91	<18	<0.91	<18	**20**	**1.2**	<0.91	<0.91	<4.5	<18	<9.1	<0.91	<0.91	<1.8	<1.8	<0.91	<18
		MS-23B-60		60	11/5/22	µg/kg	<4.2	<17	<0.85	<17	<0.85	<17	**16 J**	**0.58 J**	<0.85	<0.85	<4.2	<17	<8.5	<0.85	<0.85	<1.7	<1.7	<0.85	<17
		MS-23B-80		80	11/5/22	µg/kg	<4.0	<16	<0.79	<16	<0.79	<16	**14 J**	<0.79	<0.79	<0.79	<4.0	<16	<7.9	<0.79	<0.79	<1.6	<1.6	<0.79	<16
		MS-23B-100		100	11/5/22	µg/kg	<4.7	<19	<0.94	<19	<0.94	<19	**19**	<0.94	<0.94	<0.94	<4.7	<19	<9.4	<0.94	<0.94	<1.9	<1.9	<0.94	<19
	MS-23C	MS-23C-125		125	1/3/22	µg/kg	<4.8	<19	<0.96	<19	<0.96	<19	<19	<0.96	<0.96	<0.96	<4.8	<19	<9.6	<0.96	<0.96	<1.9	<1.9	<0.96	<19
		MS-23C-150		150	1/4/22	µg/kg	<4.2	<17	<0.83	<17	<0.83	<17	<17	<0.83	<0.83	<0.83	<4.2	<17	<8.3	<0.83	<0.83	<1.7	<1.7	<0.83	<17
		MS-23C-190		190	1/5/22	µg/kg	<6.1	<24	<1.2	<24	<1.2	<24	<24	<1.2	<1.2	<1.2	<6.1	<24	<12	<1.2	<1.2	<2.4	<2.4	<1.2	<24
		MS-23C-200		200	1/5/22	µg/kg	<4.5	<18	<0.90	<18	<0.90	<18	<18	<0.90	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
	MS-24	MS-24-20		20	10/14/22	µg/kg	<5.3	<21	<1.1	<21	<1.1	<21	**11 J**	<1.1	<1.1	<1.1	<5.3	<21	**0.68 J**	<1.1	<1.1	<2.1	<2.1	<1.1	<21
	MS-25	MS-25-20		20	10/14/22	µg/kg	<4.5	<18	<0.90	<18	<0.90	<18	**12 J**	<0.90	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
	MS-26	MS-26-20		20	10/15/22	µg/kg	<4.8	<19	<0.95	<19	<0.95	<19	**10 J**	<0.95	<0.95	<0.95	<4.8	<19	<9.5	<0.95	<0.95	<1.9	<1.9	<0.95	<19
	MS-27	MS-27-5		5	10/15/22	µg/kg	<4.3	<17	<0.86	<17	<0.86	<17	**20**	**0.33 J**	<0.86	<0.86	<4.3	<17	**0.47 J**	<0.86	<0.86	<1.7	<1.7	<0.86	<17
		MS-127-20	X	20	10/15/22	µg/kg	<4.6	<18	<0.92	<18	<0.92	<18	**15 J**	<0.92	<0.92	<0.92	<4.6	<18	<9.2	<0.92	<0.92	<1.8	<1.8	<0.92	<18
		MS-27-20		20	10/15/22	µg/kg	<4.9	<20	<0.98	<20	<0.98	<20	<20	<0.98	<0.98	<0.98	<4.9	<20	<9.8	<0.98	<0.98	<2.0	<2.0	<0.98	<20
	MS-28	MS-28-5		5	11/5/22	µg/kg	<4.5	<18	<0.90	<18	<0.90	<18	**20**	<0.90	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
	MS-29	MS-29-20		20	2/8/22	µg/kg	<4.2	<17	<0.84	<17	<0.84	<17	**13 J**	<0.84	<0.84	<0.84	<4.2	<17	<8.4	<0.84	<0.84	<1.7	<1.7	<0.84	<17
	MS-30	MS-30-20		20	2/8/22	µg/kg	<4.0	<16	<0.80	<16	<0.80	<16	<16	<0.80	<0.80	<0.80	<4.0	<16	<8.0	<0.80	<0.80	<1.6	<1.6	<0.80	<16
	MS-31	MS-31-20		20	2/8/22	µg/kg	<4.1	<17	<0.83	<17	<0.83	<17	<17	<0.83	<0.83	<0.83	<4.1	<17	<8.3	<0.83	<0.83	<1.7	<1.7	<0.83	<17
	MS-32	MS-32-5		5	2/11/22	µg/kg	<4.1	<16	<0.82	<16	<0.82	<16	**9.3 J**	<0.82	<0.82	<0.82	<4.1	<16	<8.2	<0.82	<0.82	<1.6	<1.6	<0.82	<16
		MS-32-20		20	2/11/22	µg/kg	<4.4	<18	<0.88	<18	<0.88	<18	**10 J**	<0.88	<0.88	<0.88	<4.4	<18	<8.8	<0.88	<0.88	<1.8	<1.8	<0.88	<18

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																		
							2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorobromomethane	Chloroethane	Chloroform	Chloromethane
EPA RSL Industrial (May 2023)							--	190,000,000	23,000,000	1,300,000	23,000,000	140,000,000	1,100,000,000	5,100	1,800,000	1,300	86,000	30,000	3,500,000	2,900	1,300,000	630,000	23,000,000	1,400	460,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	--	--	--	--	--	1,400	--	1,300	86,000	--	--	2,900	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	--	2,500,000	--	2,300,000	--	--	46,000	--	1,300,000	3,000,000	--	--	250,000	--	--	--	--	--
17 (Maintenance Shop)	SS-1B	SS-1B-0.5		0.5	8/24/21	µg/kg	<4.3	<17	<0.87	<17	<0.87	<17	**26**	<0.87	<0.87	<0.87	<4.3	<17	<8.7	<0.87	<0.87	<1.7	<1.7	<0.87	<17
		SS-1B-2.5		2.5	8/24/21	µg/kg	<3.9	<15	<0.77	<15	<0.77	<15	**8.6 J**	<0.77	<0.77	<0.77	<3.9	<15	**0.40 J**	<0.77	<0.77	<1.5	<1.5	<0.77	<15
		SS-1B-5		5	8/24/21	µg/kg	<4.4	<18	<0.88	<18	<0.88	<18	<18	<0.88	<0.88	<0.88	<4.4	<18	**0.36 J**	<0.88	<0.88	<1.8	<1.8	<0.88	<18
		SS-1B-10		10	8/24/21	µg/kg	<5.1	<20	<1.0	<20	<1.0	<20	**21**	<1.0	<1.0	<1.0	<5.1	<20	<10	<1.0	<1.0	<2.0	<2.0	<1.0	<20
		SS-1B-20		20	8/24/21	µg/kg	<4.8	<19	<0.97	<19	<0.97	<19	<19	<0.97	<0.97	<0.97	<4.8	<19	<9.7	<0.97	<0.97	<1.9	<1.9	<0.97	<19
	SS-4	SS-4-0.5		0.5	8/24/21	µg/kg	<3.6	<15	<0.73	<15	<0.73	<15	**27**	<0.73	<0.73	<0.73	<3.6	<15	<7.3	<0.73	<0.73	<1.5	<1.5	<0.73	<15
		SS-4-2.5		2.5	8/24/21	µg/kg	<4.7	<19	<0.95	<19	<0.95	<19	**24**	**0.46 J**	<0.95	<0.95	<4.7	<19	<9.5	<0.95	<0.95	<1.9	<1.9	<0.95	<19
		SS-4-5		5	8/24/21	µg/kg	<4.3	<17	<0.86	<17	<0.86	<17	<17	<0.86	<0.86	<0.86	<4.3	<17	**0.50 J**	<0.86	<0.86	<1.7	<1.7	<0.86	<17
		SS-4-10		10	8/24/21	µg/kg	<4.8	<19	<0.97	<19	<0.97	<19	<19	**0.92 J**	<0.97	<0.97	<4.8	<19	<9.7	<0.97	<0.97	<1.9	<1.9	<0.97	<19
		SS-4-20		20	8/24/21	µg/kg	<6.0	**9.1 J**	<1.2	<24	<1.2	<24	<24	**1.6**	<1.2	<1.2	<6.0	<24	<12	<1.2	<1.2	<2.4	<2.4	<1.2	<24
	SS-5	SS-105-0.5	X	0.5	8/24/21	µg/kg	<4.1	**3.7 J**	<0.82	<16	<0.82	<16	**21**	<0.82	<0.82	<0.82	<4.1	<16	<8.2	<0.82	<0.82	<1.6	<1.6	<0.82	<16
		SS-5-0.5		0.5	8/24/21	µg/kg	<4.7	**10 J**	<0.93	<19	<0.93	<19	**55**	<0.93	<0.93	<0.93	<4.7	<19	<9.3	<0.93	<0.93	<1.9	<1.9	<0.93	<19
		SS-5-2.5		2.5	8/24/21	µg/kg	<4.0	<16	<0.80	<16	<0.80	<16	**22**	<0.80	<0.80	<0.80	<4.0	<16	<8.0	<0.80	<0.80	<1.6	<1.6	<0.80	<16
		SS-5-5		5	8/24/21	µg/kg	<3.9	<15	<0.77	<15	<0.77	<15	**12 J**	<0.77	<0.77	<0.77	<3.9	<15	<7.7	<0.77	<0.77	<1.5	<1.5	<0.77	<15
	SS-6	SS-6-0.5		0.5	8/23/21	µg/kg	<3.8	<15	<0.75	<15	<0.75	<15	**30**	**0.25 J**	<0.75	<0.75	<3.8	<15	<7.5	<0.75	<0.75	<1.5	<1.5	<0.75	<15
		SS-6-2.5		2.5	8/23/21	µg/kg	<3.8	<15	<0.75	<15	<0.75	<15	**28**	<0.75	<0.75	<0.75	<3.8	<15	<7.5	<0.75	<0.75	<1.5	<1.5	<0.75	<15
		SS-6-5		5	8/23/21	µg/kg	<3.7	<15	<0.75	<15	<0.75	<15	<15	<0.75	<0.75	<0.75	<3.7	<15	**0.41 J**	<0.75	<0.75	<1.5	<1.5	<0.75	<15
	SS-7	SS-7-0.5		0.5	8/23/21	µg/kg	<4.2	<17	<0.84	<17	<0.84	<17	**23**	<0.84	<0.84	<0.84	<4.2	<17	<8.4	<0.84	<0.84	<1.7	<1.7	<0.84	<17
		SS-7-2.5		2.5	8/23/21	µg/kg	<4.3	<17	<0.86	<17	<0.86	<17	**24**	<0.86	<0.86	<0.86	<4.3	<17	<8.6	<0.86	<0.86	<1.7	<1.7	<0.86	<17
		SS-7-5		5	8/23/21	µg/kg	<4.5	<18	<0.89	<18	<0.89	<18	**8.8 J**	<0.89	<0.89	<0.89	<4.5	<18	**0.91 J**	<0.89	<0.89	<1.8	<1.8	<0.89	<18
	SS-8	SS-8-0.5		0.5	8/23/21	µg/kg	<4.3	<17	<0.86	<17	<0.86	<17	**16 J**	**0.76 J**	<0.86	<0.86	<4.3	<17	<8.6	<0.86	<0.86	<1.7	<1.7	<0.86	<17
		SS-108-2.5	X	2.5	8/23/21	µg/kg	<4.0	<16	<0.80	<16	<0.80	<16	**24**	<0.80	<0.80	<0.80	<4.0	<16	<8.0	<0.80	<0.80	<1.6	<1.6	<0.80	<16
		SS-8-2.5		2.5	8/23/21	µg/kg	<4.3	<17	<0.86	<17	<0.86	<17	**21**	**0.23 J**	<0.86	<0.86	<4.3	<17	<8.6	<0.86	<0.86	<1.7	<1.7	<0.86	<17
		SS-8-5		5	8/23/21	µg/kg	<4.3	<17	<0.87	<17	<0.87	<17	**20**	**0.28 J**	<0.87	<0.87	<4.3	<17	<8.7	<0.87	<0.87	<1.7	<1.7	<0.87	<17
	SS-9	SS-9-0.5		0.5	8/23/21	µg/kg	<3.9	**3.6 J**	<0.77	<15	<0.77	<15	**13 J**	**0.62 J**	<0.77	<0.77	<3.9	<15	<7.7	<0.77	<0.77	<1.5	<1.5	<0.77	<15
		SS-9-2.5		2.5	8/23/21	µg/kg	<3.7	<15	<0.75	<15	<0.75	<15	**18**	<0.75	<0.75	<0.75	<3.7	<15	<7.5	<0.75	<0.75	<1.5	<1.5	<0.75	<15
		SS-9-5		5	8/23/21	µg/kg	<4.5	<18	<0.90	<18	<0.90	<18	**11 J**	<0.90	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
	SS-10	SS-10-0.5		0.5	8/23/21	µg/kg	<3.9	**6.2 J**	<0.77	<15	<0.77	<15	**28**	<0.77	<0.77	<0.77	<3.9	<15	<7.7	<0.77	<0.77	<1.5	<1.5	<0.77	<15
		SS-10-2.5		2.5	8/23/21	µg/kg	<4.0	<16	<0.80	<16	<0.80	<16	**27**	<0.80	<0.80	<0.80	<4.0	<16	<8.0	<0.80	<0.80	<1.6	<1.6	<0.80	<16
		SS-10-5		5	8/23/21	µg/kg	<4.5	<18	<0.90	<18	<0.90	<18	**29**	<0.90	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
		SS-10-10		10	8/23/21	µg/kg	<4.4	<18	<0.89	<18	<0.89	<18	<18	<0.89	<0.89	<0.89	<4.4	<18	<8.9	<0.89	<0.89	<1.8	<1.8	<0.89	<18
		SS-110-10	X	10	8/23/21	µg/kg	<5.5	<22	<1.1	<22	<1.1	<22	**27**	<1.1	<1.1	<1.1	<5.5	<22	<11	<1.1	<1.1	<2.2	<2.2	<1.1	<22
		SS-10-20		20	8/23/21	µg/kg	<5.9	<23	<1.2	<23	<1.2	<23	<23	**0.55 J**	<1.2	<1.2	<5.9	<23	<12	<1.2	<1.2	<2.3	<2.3	<1.2	<23
	SS-11	SS-11-0.5		0.5	8/25/21	µg/kg	<3.3	**8.1 J**	<0.66	<13	<0.66	<13	**35**	<0.66	<0.66	<0.66	<3.3	<13	<6.6	<0.66	<0.66	<1.3	<1.3	<0.66	<13
		SS-11-2.5		2.5	8/25/21	µg/kg	<4.1	<16	<0.82	<16	<0.82	<16	**14 J**	<0.82	<0.82	<0.82	<4.1	<16	<8.2	<0.82	<0.82	<1.6	<1.6	<0.82	<16
		SS-111-5	X	5	8/25/21	µg/kg	<4.7	<19	<0.94	<19	<0.94	<19	<19	<0.94	<0.94	<0.94	<4.7	<19	<9.4	<0.94	<0.94	<1.9	<1.9	<0.94	<19
		SS-11-5		5	8/25/21	µg/kg	<4.4	<18	<0.88	<18	<0.88	<18	<18	<0.88	<0.88	<0.88	<4.4	<18	**0.49 J**	<0.88	<0.88	<1.8	<1.8	<0.88	<18
		SS-11-10		10	8/25/21	µg/kg	<6.1	<24	<1.2	<24	<1.2	<24	**25**	**0.93 J**	<1.2	<1.2	<6.1	<24	<12	<1.2	<1.2	<2.4	<2.4	<1.2	<24
	SS-12	SS-12-0.5		0.5	8/24/21	µg/kg	<4.2	**10 J**	<0.84	<17	<0.84	**2.9 J**	**78**	**0.24 J**	<0.84	<0.84	<4.2	<17	<8.4	<0.84	<0.84	<1.7	<1.7	<0.84	<17
		SS-12-2.5		2.5	8/24/21	µg/kg	<4.1	<16	<0.82	<16	<0.82	<16	**18**	<0.82	<0.82	<0.82	<4.1	<16	<8.2	<0.82	<0.82	<1.6	<1.6	<0.82	<16
		SS-12-5		5	8/24/21	µg/kg	<5.0	<20	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<5.0	<20	<10	<1.0	<1.0	<2.0	<2.0	<1.0	<20
		SS-12-10		10	8/24/21	µg/kg	<5.5	<22	<1.1	<22	<1.1	<22	**24**	**0.60 J**	<1.1	<1.1	<5.5	<22	<11	<1.1	<1.1	<2.2	<2.2	<1.1	<22
		SS-12-20		20	8/24/21	µg/kg	<4.7	<19	<0.95	<19	<0.95	<19	<19	**0.58 J**	<0.95	<0.95	<4.7	<19	<9.5	<0.95	<0.95	<1.9	<1.9	<0.95	<19

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																		
							2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorobromomethane	Chloroethane	Chloroform	Chloromethane
EPA RSL Industrial (May 2023)							--	190,000,000	23,000,000	1,300,000	23,000,000	140,000,000	1,100,000,000	5,100	1,800,000	1,300	86,000	30,000	3,500,000	2,900	1,300,000	630,000	23,000,000	1,400	460,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	--	--	--	--	--	1,400	--	1,300	86,000	--	--	2,900	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	--	2,500,000	--	2,300,000	--	--	46,000	--	1,300,000	3,000,000	--	--	250,000	--	--	--	--	--
25 (Units 3/4 Transformers)	T3-4-2	T3-4-2-0.5		0.5	9/1/21	µg/kg	<4.5	**13 J**	<0.90	<18	<0.90	<18	**77**	**0.39 J**	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
	T3-4-4	T3-4-4-0.5		0.5	9/2/21	µg/kg	<13	**46 J**	<2.7	<54	<2.7	<54	**250**	<2.7	<2.7	<2.7	<13	<54	**7.5 J**	<2.7	<2.7	<5.4	<5.4	<2.7	<54
	T3-4-5	T3-4-5-0.5		0.5	9/2/21	µg/kg	<3.9	**8.5 J**	<0.77	<15	<0.77	<15	**39**	<0.77	<0.77	<0.77	<3.9	<15	<7.7	<0.77	<0.77	<1.5	<1.5	<0.77	<15
		T3-4-5-2.5		2.5	9/2/21	µg/kg	<4.4	**13 J**	<0.88	<18	<0.88	<18	**60**	**0.30 J**	<0.88	<0.88	<4.4	<18	<8.8	<0.88	<0.88	<1.8	<1.8	<0.88	<18
	T3-4-8	T3-4-8-0.5		0.5	9/2/21	µg/kg	<4.7	**26**	<0.94	<19	<0.94	<19	**120**	**0.32 J**	<0.94	<0.94	<4.7	<19	<9.4	<0.94	<0.94	<1.9	<1.9	<0.94	<19
25 (Units 3/4 Transformers)	T3-4-14	T3-4-14-0.5		0.5	9/1/21	µg/kg	<4.0	<16	<0.80	<16	<0.80	<16	**19**	**0.27 J**	<0.80	<0.80	<4.0	<16	**1.2 J**	<0.80	<0.80	<1.6	<1.6	<0.80	<16
	T3-4-15	T3-4-15-0.5		0.5	9/1/21	µg/kg	<4.2	**4.1 J**	<0.84	<17	<0.84	<17	**26**	**0.26 J**	<0.84	<0.84	<4.2	<17	<8.4	<0.84	<0.84	<1.7	<1.7	<0.84	<17
		T3-4-15-2.5		2.5	9/1/21	µg/kg	<4.0	**16**	<0.80	<16	<0.80	<16	**77**	**0.32 J**	<0.80	<0.80	<4.0	<16	<8.0	<0.80	<0.80	<1.6	<1.6	<0.80	<16
26 (Units 1/2 Transformers)	T1-2-13	T1-2-13-0.5		0.5	8/31/21	µg/kg	<4.3	<17	<0.86	<17	<0.86	<17	**21**	**0.28 J**	<0.86	<0.86	<4.3	<17	<8.6	<0.86	<0.86	<1.7	<1.7	<0.86	<17
	T1-2-14	T1-2-14-0.5		0.5	8/31/21	µg/kg	<4.6	**13 J**	<0.92	<18	<0.92	<18	**82**	**0.54 J**	<0.92	<0.92	<4.6	<18	<9.2	<0.92	<0.92	<1.8	<1.8	<0.92	<18
	T1-2-15	T1-2-15-0.5		0.5	8/31/21	µg/kg	<4.2	**9.0 J**	<0.83	<17	<0.83	<17	**58**	**0.43 J**	<0.83	<0.83	<4.2	<17	<8.3	<0.83	<0.83	<1.7	<1.7	<0.83	<17
		T1-2-15-2.5		2.5	8/31/21	µg/kg	<4.2	**17**	<0.83	<17	<0.83	<17	**87**	**0.41 J**	<0.83	<0.83	<4.2	<17	<8.3	<0.83	<0.83	<1.7	<1.7	<0.83	<17
	T1-2-16	T1-2-16-0.5		0.5	8/31/21	µg/kg	<4.2	**6.5 J**	<0.84	<17	<0.84	<17	**38**	**0.40 J**	<0.84	<0.84	<4.2	<17	<8.4	<0.84	<0.84	<1.7	<1.7	<0.84	<17
	T1-2-19	T1-2-19-0.5		0.5	8/30/21	µg/kg	<4.3	<17	<0.86	<17	<0.86	<17	**24**	**0.34 J**	<0.86	<0.86	<4.3	<17	<8.6	<0.86	<0.86	<1.7	<1.7	<0.86	<17
	T1-2-22	T1-2-22-0.5		0.5	8/30/21	µg/kg	<4.8	**5.0 J**	<0.96	<19	<0.96	<19	**24**	**0.33 J**	<0.96	<0.96	<4.8	<19	**1.1 J**	<0.96	<0.96	<1.9	<1.9	<0.96	<19
	T1-2-26	T1-2-26-2.5		2.5	8/30/21	µg/kg	<4.4	**4.2 J**	<0.89	<18	<0.89	<18	**19**	**0.38 J**	<0.89	<0.89	<4.4	<18	**8.2 J**	<0.89	<0.89	<1.8	<1.8	<0.89	<18
	T1-2-32	T1-2-32-0.5		0.5	8/26/21	µg/kg	<4.2	**16 J**	<0.84	<17	<0.84	<17	**85**	**0.43 J**	<0.84	<0.84	<4.2	<17	<8.4	<0.84	<0.84	<1.7	<1.7	<0.84	<17
36 (Former Haz Waste Area)	F36-1	F36-1-0.5		0.5	8/24/21	µg/kg	<4.2	<17	<0.84	<17	<0.84	<17	**18**	**0.60 J**	<0.84	<0.84	<4.2	<17	<8.4	<0.84	<0.84	<1.7	<1.7	<0.84	<17
		F36-1-2.5		2.5	8/24/21	µg/kg	<4.6	**4.1 J**	<0.91	<18	<0.91	<18	**28**	**0.63 J**	<0.91	<0.91	<4.6	<18	<9.1	<0.91	<0.91	<1.8	<1.8	<0.91	<18
	F36-2	F36-2-0.5		0.5	8/24/21	µg/kg	<4.2	<17	<0.85	<17	<0.85	<17	**25**	**0.57 J**	<0.85	<0.85	<4.2	<17	<8.5	<0.85	<0.85	<1.7	<1.7	<0.85	<17
		F36-2-2.5		2.5	8/24/21	µg/kg	<4.3	<17	<0.85	<17	<0.85	<17	**17**	**0.23 J**	<0.85	<0.85	<4.3	<17	<8.5	<0.85	<0.85	<1.7	<1.7	<0.85	<17
	F36-3	F36-3-0.5		0.5	8/25/21	µg/kg	<4.5	<18	<0.89	<18	<0.89	<18	**16 J**	**0.34 J**	<0.89	<0.89	<4.5	<18	<8.9	<0.89	<0.89	<1.8	<1.8	<0.89	<18
		F36-3-2.5		2.5	8/25/21	µg/kg	<4.6	<18	<0.92	<18	<0.92	<18	**22**	<0.92	<0.92	<0.92	<4.6	<18	<9.2	<0.92	<0.92	<1.8	<1.8	<0.92	<18
Equipment Rinsate Blanks																									
--	--	EB-B-082321		--	8/23/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.3**	<10
--	--	EB-A-082421		--	8/24/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	**34**	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**3.4**	<10
--	--	EB-B-082521		--	8/25/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**1.6**	<10
--	--	EB-A-082721		--	8/27/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**3.7**	<10
--	--	EB-B-082721		--	8/27/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	**0.44 J**	<0.50	<1.0	<2.0	<5.0	**2.7**	<10
--	--	EB-B-083021		--	8/30/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**0.95 J**	<10
--	--	EB-A-083121		--	8/31/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**3.0**	<10
--	--	EB-B-083121		--	8/31/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**1.8**	<10
--	--	EB-A1-090121		--	9/1/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.1**	<10
--	--	EB-B-090121		--	9/1/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**1.8**	<10
--	--	EB-A2-090221		--	9/2/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.9**	<10
--	--	EB-A-010322		--	1/3/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	**13 J**	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.5**	<10
--	--	EB-020822		--	2/8/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**1.9**	<10
--	--	EB-021122		--	2/11/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**1.5**	<10

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																		
							2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorobromomethane	Chloroethane	Chloroform	Chloromethane
EPA RSL Industrial (May 2023)							--	190,000,000	23,000,000	1,300,000	23,000,000	140,000,000	1,100,000,000	5,100	1,800,000	1,300	86,000	30,000	3,500,000	2,900	1,300,000	630,000	23,000,000	1,400	460,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	--	--	--	--	--	1,400	--	1,300	86,000	--	--	2,900	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	--	2,500,000	--	2,300,000	--	--	46,000	--	1,300,000	3,000,000	--	--	250,000	--	--	--	--	--
Trip Blanks																									
--	--	TB-A-082321		--	8/23/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-B-082321		--	8/23/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-A-082421		--	8/24/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-B-082421		--	8/24/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-A-082521		--	8/25/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-B-082521		--	8/25/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-A-082621		--	8/26/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-B-082621		--	8/26/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-B-082721		--	8/27/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-A-083021		--	8/30/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-B-083021		--	8/30/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-A-083121		--	8/31/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-B-083121		--	8/31/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-A-090121		--	9/1/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-B-090121		--	9/1/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-A-090221		--	9/2/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-B-090221		--	9/2/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-A-091021		--	9/10/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-091522		--	9/15/21	µg/L	<1.0	<10	<1.0	<10	<1.0	<10	<10	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-A-101421		--	10/14/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-110521		--	11/5/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-A-010322		--	1/3/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-020822		--	2/8/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	**8.8 J**	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-021122		--	2/11/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	**9.2 J**	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
Field Blanks																									
--	--	FB-EA182-082321		--	8/23/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	**31**	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**3.0**	<10
--	--	FB-EA182-082421		--	8/24/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	**33**	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**3.8**	<10
--	--	FB-DZ609-082521		--	8/25/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**1.9**	<10
--	--	FB-DZ609-082621		--	8/26/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**0.61 J**	<10
--	--	FB-DZ609-082721		--	8/27/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.6**	<10
--	--	FB-D2609-083021		--	8/30/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**1.3**	<10
--	--	FB-DZ609-083121		--	8/31/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**1.9**	<10
--	--	FB-DZ609-090121		--	9/1/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.3**	<10
--	--	FB-EA-182-090221		--	9/2/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**3.7**	<10
--	--	FB-DX348-091021		--	9/10/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.5**	<10
--	--	FB-091522		--	9/15/21	µg/L	<1.0	<10	<1.0	<10	<1.0	<10	<10	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	FB-EB152-091621		--	9/16/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	**10 J**	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.9**	<10
--	--	FB-EB152-101421		--	10/14/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.6**	<10
--	--	FB-EB152-101521		--	10/15/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.3**	<10
--	--	FB-EB152-110521		--	11/5/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.2**	<10
--	--	FB-EB152-010322		--	1/3/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	**14 J**	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.8**	<10

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																		
							2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorobromomethane	Chloroethane	Chloroform	Chloromethane
EPA RSL Industrial (May 2023)							--	190,000,000	23,000,000	1,300,000	23,000,000	140,000,000	1,100,000,000	5,100	1,800,000	1,300	86,000	30,000	3,500,000	2,900	1,300,000	630,000	23,000,000	1,400	460,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	--	--	--	--	--	1,400	--	1,300	86,000	--	--	2,900	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	--	2,500,000	--	2,300,000	--	--	46,000	--	1,300,000	3,000,000	--	--	250,000	--	--	--	--	--
--	--	FB-A-010422		--	1/4/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	**14 J**	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.7**	<10
--	--	FB-A-010522		--	1/5/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	**15 J**	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.6**	<10
--	--	FB-D2838-020822		--	2/8/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.0**	<10
--	--	FB-D2838-021122		--	2/11/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**1.6**	<10
Potable Water Sample (Drilling Rig Tank Water)																									
--	--	RW-010322		--	1/3/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	**1.7**	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**1.6**	<10

NOTES:

17	**Bold** value is reported concentration above the laboratory Method Detection Limit (MDL).
<0.84	Denotes analyte not detected above the posted Reporting Limit (RL)
J	Concentration is below the RL but above the MDL so the result represents an estimated value
B	Compound was detected in the laboratory method blank and the sample
NA	Not analyzed or No Published Value
µg/kg	Micrograms per kilogram
µg/L	Micrograms per liter
Dup	Field duplicate samples are identified in this column with an "X"
EPA RSL	United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for commercial/industrial land use (Updated May 2023)
DTSC-SLs	Department of Toxic Substances Control (DTSC)-modified screening levels for commercial/industrial land use (Updated May 2022)

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																			
							cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether (DIPE)	Ethanol	Ethylbenzene	Ethyl-t-butyl ether (ETBE)	Isopropylbenzene	m,p-Xylene	Methylene chloride	Methyl-t-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	N-Propylbenzene	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amyl-methyl ether (TAME)
EPA RSL Industrial (May 2023)							370,000	--	39,000	99,000	370,000	9,400,000	--	25,000	560,000	9,900,000	--	1,000,000	210,000	8,600	58,000,000	24,000,000	2,800,000	--	120,000,000	35,000,000	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	4,100	--	--	--	--	--	--	--	--	26,000	--	6,500	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							84,000	--	2,500,000	--	--	--	--	--	--	--	--	2,500,000	--	570,000	18,000,000	--	--	--	12,000,000	32,000,000	--
RFI Sample Results																											
5 (Fueling Station)	F5-1	F5-1-2.5		2.5	8/27/21	µg/kg	<0.93	<0.93	<1.9	<0.93	<1.9	<0.93	<230	<0.93	<0.93	<0.93	<1.9	<9.3	<1.9	<9.3	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<0.93
		F5-1-5		5	8/27/21	µg/kg	<1.2	<1.2	<2.3	<1.2	<2.3	<1.2	<290	<1.2	<1.2	<1.2	<2.3	<12	<2.3	<12	<1.2	<2.3	<1.2	<1.2	<1.2	<1.2	<1.2
	F5-2	F5-2-2.5		2.5	8/27/21	µg/kg	<0.87	<0.87	<1.7	<0.87	<1.7	<0.87	<220	<0.87	<0.87	<0.87	<1.7	<8.7	<1.7	<8.7	<0.87	<1.7	<0.87	<0.87	<0.87	<0.87	<0.87
		F5-2-5		5	8/27/21	µg/kg	<1.6	<1.6	<3.1	<1.6	<3.1	<1.6	<390	<1.6	<1.6	<1.6	<3.1	<16	<3.1	<16	<1.6	<3.1	<1.6	<1.6	<1.6	<1.6	<1.6
6 (Unit 5 Peaker)	P-1	P-1-2.5		2.5	8/23/21	µg/kg	<0.88	<0.88	<1.8	<0.88	<1.8	<0.88	<220	<0.88	<0.88	<0.88	<1.8	<8.8	<1.8	<8.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<0.88
		P-1-5		5	8/23/21	µg/kg	<0.79	<0.79	<1.6	<0.79	<1.6	<0.79	<200	<0.79	<0.79	<0.79	<1.6	<7.9	<1.6	<7.9	<0.79	<1.6	<0.79	<0.79	<0.79	<0.79	<0.79
		P-1-10		10	8/23/21	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	<240	<0.94	<0.94	<0.94	<1.9	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94
	P-1B	P-1B-20		20	9/2/21	µg/kg	<0.93	<0.93	<1.9	<0.93	<1.9	<0.93	<230	<0.93	<0.93	<0.93	<1.9	<9.3	<1.9	<9.3	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<0.93
		P-1B-40		40	9/2/21	µg/kg	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	<210	<0.84	<0.84	<0.84	<1.7	<8.4	<1.7	<8.4	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<0.84
	P-5	P-5-5		5	9/1/21	µg/kg	<1.1	<1.1	<2.2	<1.1	<2.2	<1.1	<270	<1.1	<1.1	<1.1	<2.2	<11	<2.2	<11	<1.1	<2.2	<1.1	<1.1	<1.1	<1.1	<1.1
		P-5-20		20	9/1/21	µg/kg	<0.85	<0.85	<1.7	<0.85	<1.7	<0.85	<210	<0.85	<0.85	<0.85	<1.7	<8.5	<1.7	<8.5	<0.85	<1.7	<0.85	<0.85	<0.85	<0.85	<0.85
	P-6	P-106-5	X	5	9/1/21	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	**90 J**	<0.94	<0.94	<0.94	<1.9	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94
		P-6-5		5	9/1/21	µg/kg	<0.92	<0.92	<1.8	<0.92	<1.8	<0.92	<230	<0.92	<0.92	<0.92	<1.8	<9.2	<1.8	<9.2	<0.92	<1.8	<0.92	<0.92	<0.92	<0.92	<0.92
		P-6-20		20	9/1/21	µg/kg	<1.3	<1.3	<2.6	<1.3	<2.6	<1.3	<320	<1.3	<1.3	<1.3	<2.6	<13	<2.6	<13	<1.3	<2.6	<1.3	<1.3	<1.3	<1.3	<1.3
	P-8	P-8-5		5	9/10/21	µg/kg	<0.97	<0.97	<1.9	<0.97	<1.9	<0.97	**79 J**	<0.97	<0.97	<0.97	<1.9	<9.7	<1.9	<9.7	<0.97	<1.9	<0.97	<0.97	<0.97	<0.97	<0.97
		P-8-20		20	9/10/21	µg/kg	<0.82	<0.82	<1.6	<0.82	<1.6	<0.82	<210	<0.82	<0.82	<0.82	**0.45 J**	<8.2	<1.6	<8.2	<0.82	<1.6	<0.82	<0.82	<0.82	<0.82	<0.82
	P-9	P-9-5		5	9/10/21	µg/kg	<0.92	<0.92	<1.8	<0.92	<1.8	<0.92	**76 J**	<0.92	<0.92	<0.92	<1.8	<9.2	<1.8	<9.2	<0.92	<1.8	<0.92	**3.6**	<0.92	<0.92	<0.92
		P-9-20		20	9/10/21	µg/kg	<0.77	<0.77	<1.5	<0.77	<1.5	<0.77	<190	<0.77	<0.77	<0.77	<1.5	<7.7	<1.5	<7.7	<0.77	<1.5	<0.77	<0.77	<0.77	<0.77	<0.77
	PT1-2	PT1-2-0.5		0.5	8/24/21	µg/kg	<0.89	<0.89	<1.8	<0.89	<1.8	<0.89	<220	<0.89	<0.89	<0.89	<1.8	<8.9	<1.8	<8.9	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89
	PT1-3	PT1-3-0.5		0.5	8/24/21	µg/kg	<0.93	<0.93	<1.9	<0.93	<1.9	<0.93	<230	<0.93	<0.93	<0.93	<1.9	<9.3	<1.9	<9.3	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<0.93
	PT2-1	PT2-1-0.5		0.5	8/23/21	µg/kg	<0.87	<0.87	<1.7	<0.87	<1.7	<0.87	<220	<0.87	<0.87	<0.87	<1.7	<8.7	<1.7	<8.7	<0.87	<1.7	<0.87	<0.87	<0.87	<0.87	<0.87
11 (Chadwick Channel)	F11-1	F11-1-0.5		0.5	8/26/21	µg/kg	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	**79 J**	<0.86	<0.86	<0.86	<1.7	<8.6	<1.7	<8.6	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
		F11-101-0.5	X	0.5	8/26/21	µg/kg	<1.0	<1.0	<2.1	<1.0	<2.1	<1.0	**84 J**	<1.0	<1.0	<1.0	<2.1	<10	<2.1	<10	<1.0	<2.1	<1.0	<1.0	<1.0	<1.0	<1.0
		F11-1-2.5		2.5	8/26/21	µg/kg	<1.1	<1.1	<2.2	<1.1	<2.2	<1.1	<280	<1.1	<1.1	<1.1	<2.2	<11	<2.2	<11	<1.1	<2.2	<1.1	<1.1	<1.1	<1.1	<1.1
	F11-10	F11-10-0.5		0.5	8/26/21	µg/kg	<0.83	<0.83	<1.7	<0.83	<1.7	<0.83	**140 J**	<0.83	<0.83	<0.83	<1.7	<8.3	<1.7	<8.3	<0.83	<1.7	<0.83	<0.83	<0.83	<0.83	<0.83
		F11-110-0.5	X	0.5	8/26/21	µg/kg	<0.91	<0.91	<1.8	<0.91	<1.8	<0.91	**120 J**	<0.91	<0.91	<0.91	<1.8	<9.1	<1.8	<9.1	<0.91	<1.8	<0.91	<0.91	<0.91	<0.91	<0.91
		F11-10-2.5		2.5	8/26/21	µg/kg	<0.92	<0.92	<1.8	<0.92	<1.8	<0.92	**79 J**	<0.92	<0.92	<0.92	<1.8	<9.2	<1.8	<9.2	<0.92	<1.8	<0.92	<0.92	<0.92	<0.92	<0.92
	F11-2A	F11-2A-0.5		0.5	8/26/21	µg/kg	<0.98	<0.98	<2.0	<0.98	<2.0	<0.98	**150 J**	<0.98	<0.98	<0.98	<2.0	<9.8	<2.0	<9.8	<0.98	<2.0	<0.98	<0.98	<0.98	<0.98	<0.98
		F11-2A-2.5		2.5	8/26/21	µg/kg	<0.89	<0.89	<1.8	<0.89	<1.8	<0.89	**84 J**	<0.89	<0.89	<0.89	<1.8	<8.9	<1.8	<8.9	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89
	F11-2B	F11-2B-0.5		0.5	8/26/21	µg/kg	<0.92	<0.92	<1.8	<0.92	<1.8	<0.92	**110 J**	<0.92	<0.92	<0.92	<1.8	<9.2	<1.8	<9.2	<0.92	<1.8	<0.92	<0.92	<0.92	<0.92	<0.92
		F11-2B-2.5		2.5	8/26/21	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	<230	<0.94	<0.94	<0.94	<1.9	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94
	F11-3	F11-3-0.5		0.5	8/26/21	µg/kg	<0.96	<0.96	<1.9	<0.96	<1.9	<0.96	**120 J**	<0.96	<0.96	<0.96	<1.9	<9.6	<1.9	<9.6	<0.96	<1.9	<0.96	<0.96	<0.96	<0.96	<0.96
		F11-3-2.5		2.5	8/26/21	µg/kg	<1.1	<1.1	<2.2	<1.1	<2.2	<1.1	<280	<1.1	<1.1	<1.1	<2.2	<11	<2.2	<11	<1.1	<2.2	<1.1	<1.1	<1.1	<1.1	<1.1
	F11-4	F11-4-0.5		0.5	8/31/21	µg/kg	<0.92	<0.92	<1.8	<0.92	<1.8	<0.92	**65 J**	<0.92	<0.92	<0.92	<1.8	<9.2	<1.8	<9.2	<0.92	<1.8	<0.92	<0.92	<0.92	<0.92	<0.92
		F11-4-2.5		2.5	8/31/21	µg/kg	<0.98	<0.98	<2.0	<0.98	<2.0	<0.98	<250	<0.98	<0.98	<0.98	<2.0	<9.8	<2.0	<9.8	<0.98	<2.0	<0.98	<0.98	<0.98	<0.98	<0.98
	F11-5	F11-105-0.5	X	0.5	8/31/21	µg/kg	<1.0	<1.0	<2.1	<1.0	<2.1	<1.0	<260	<1.0	<1.0	<1.0	<2.1	<10	<2.1	<10	<1.0	<2.1	<1.0	<1.0	<1.0	<1.0	<1.0
		F11-5-0.5		0.5	8/31/21	µg/kg	<0.88	<0.88	<1.8	<0.88	<1.8	<0.88	<220	<0.88	<0.88	<0.88	<1.8	<8.8	<1.8	<8.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<0.88
11 (Chadwick Channel)	F11-5	F11-5-2.5		2.5	8/31/21	µg/kg	<0.99	<0.99	<2.0	<0.99	<2.0	<0.99	<250	<0.99	<0.99	<0.99	<2.0	<9.9	<2.0	<9.9	<0.99	<2.0	<0.99	<0.99	<0.99	<0.99	<0.99
	F11-6	F11-6-0.5		0.5	8/31/21	µg/kg	<0.77	<0.77	<1.5	<0.77	<1.5	<0.77	**82 J**	<0.77	<0.77	<0.77	<1.5	<7.7	<1.5	<7.7	<0.77	<1.5	<0.77	<0.77	<0.77	<0.77	<0.77
		F11-6-2.5		2.5	8/31/21	µg/kg	<0.87	<0.87	<1.7	<0.87	<1.7	<0.87	<220	<0.87	<0.87	<0.87	<1.7	<8.7	<1.7	<8.7	<0.87	<1.7	<0.87	<0.87	<0.87	<0.87	<0.87
	F11-7	F11-7-0.5		0.5	8/31/21	µg/kg	<0.96	<0.96	<1.9	<0.96	<1.9	<0.96	<240	<0.96	<0.96	<0.96	<1.9	<9.6	<1.9	<9.6	<0.96	<1.9	<0.96	<0.96	<0.96	<0.96	<0.96
		F11-7-2.5		2.5	8/31/21	µg/kg	<0.99	<0.99	<2.0	<0.99	<2.0	<0.99	<250	<0.99	<0.99	<0.99	<2.0	<9.9	<2.0	<9.9	<0.99	<2.0	<0.99	<0.99	<0.99	<0.99	<0.99
	F11-8	F11-8-0.5		0.5	8/31/21	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	<230	<0.94	<0.94	<0.94	<1.9	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94
		F11-8-2.5		2.5	8/31/21	µg/kg	<1.0	<1.0	<2.1	<1.0	<2.1	<1.0	<260	<1.0	<1.0	<1.0	<2.1	<10	<2.1	<10	<1.0	<2.1	<1.0	<1.0	<1.0	<1.0	<1.0
	F11-9	F11-9-0.5		0.5	8/26/21	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	**100 J**	<0.94	<0.94	<0.94	<1.9	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																			
							cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether (DIPE)	Ethanol	Ethylbenzene	Ethyl-t-butyl ether (ETBE)	Isopropylbenzene	m,p-Xylene	Methylene chloride	Methyl-t-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	N-Propylbenzene	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amyl-methyl ether (TAME)
EPA RSL Industrial (May 2023)							370,000	--	39,000	99,000	370,000	9,400,000	--	25,000	560,000	9,900,000	--	1,000,000	210,000	8,600	58,000,000	24,000,000	2,800,000	--	120,000,000	35,000,000	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	4,100	--	--	--	--	--	--	--	--	26,000	--	6,500	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							84,000	--	2,500,000	--	--	--	--	--	--	--	--	2,500,000	--	570,000	18,000,000	--	--	--	12,000,000	32,000,000	--
14 (Haz Waste Accumulation Area)	F14-1	F14-1-0.5		0.5	8/25/21	µg/kg	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	<210	<0.86	<0.86	<0.86	<1.7	<8.6	<1.7	<8.6	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
		F14-1-2.5		2.5	8/25/21	µg/kg	<0.95	<0.95	<1.9	<0.95	<1.9	<0.95	<240	<0.95	<0.95	<0.95	<1.9	<9.5	<1.9	<9.5	<0.95	<1.9	<0.95	<0.95	<0.95	<0.95	<0.95
17 (Maintenance Shop)	MS-10	MS-10-0.5		0.5	8/25/21	µg/kg	<0.93	<0.93	<1.9	<0.93	<1.9	<0.93	<230	<0.93	<0.93	<0.93	<1.9	<9.3	<1.9	<9.3	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<0.93
		MS-10-2.5		2.5	8/25/21	µg/kg	<0.78	<0.78	<1.6	<0.78	<1.6	<0.78	<190	<0.78	<0.78	<0.78	<1.6	<7.8	<1.6	<7.8	<0.78	<1.6	<0.78	<0.78	<0.78	<0.78	<0.78
		MS-10-5		5	8/25/21	µg/kg	<1.1	<1.1	<2.2	<1.1	<2.2	<1.1	<270	<1.1	<1.1	<1.1	<2.2	<11	<2.2	<11	<1.1	<2.2	<1.1	<1.1	<1.1	<1.1	<1.1
		MS-10-10		10	8/25/21	µg/kg	<1.2	<1.2	<2.4	<1.2	<2.4	<1.2	<310	<1.2	<1.2	<1.2	<2.4	<12	<2.4	<12	<1.2	<2.4	<1.2	<1.2	<1.2	<1.2	<1.2
		MS-10-20		20	8/25/21	µg/kg	<1.4	<1.4	<2.7	<1.4	<2.7	<1.4	**110 J**	<1.4	<1.4	<1.4	<2.7	<14	<2.7	<14	<1.4	<2.7	<1.4	<1.4	<1.4	<1.4	<1.4
	MS-11	MS-11-0.5		0.5	8/25/21	µg/kg	<0.88	<0.88	<1.8	<0.88	<1.8	<0.88	**120 J**	<0.88	<0.88	<0.88	<1.8	<8.8	<1.8	<8.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<0.88
		MS-11-2.5		2.5	8/25/21	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	<220	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
		MS-11-5		5	8/25/21	µg/kg	<0.99	<0.99	<2.0	<0.99	<2.0	<0.99	<250	<0.99	<0.99	<0.99	<2.0	<9.9	<2.0	<9.9	<0.99	<2.0	<0.99	<0.99	<0.99	<0.99	<0.99
		MS-11-10		10	8/25/21	µg/kg	<0.96	<0.96	<1.9	<0.96	<1.9	<0.96	<240	<0.96	<0.96	<0.96	<1.9	<9.6	<1.9	<9.6	<0.96	<1.9	<0.96	<0.96	<0.96	<0.96	<0.96
		MS-111-10	X	10	8/25/21	µg/kg	<1.2	<1.2	<2.3	<1.2	<2.3	<1.2	<290	<1.2	<1.2	<1.2	<2.3	<12	<2.3	<12	<1.2	<2.3	<1.2	<1.2	<1.2	<1.2	<1.2
		MS-11-20		20	8/25/21	µg/kg	<1.1	<1.1	<2.2	<1.1	<2.2	<1.1	<270	<1.1	<1.1	<1.1	<2.2	<11	<2.2	<11	<1.1	<2.2	<1.1	<1.1	<1.1	<1.1	<1.1
	MS-12	MS-12-0.5		0.5	8/25/21	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	<220	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
		MS-12-2.5		2.5	8/25/21	µg/kg	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<260	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<10	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		MS-12-5		5	8/25/21	µg/kg	<1.5	<1.5	<3.0	<1.5	<3.0	<1.5	<380	<1.5	<1.5	<1.5	<3.0	<15	<3.0	<15	<1.5	<3.0	<1.5	<1.5	<1.5	<1.5	<1.5
		MS-12-10		10	8/25/21	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	<230	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
		MS-12-20		20	8/25/21	µg/kg	<0.98	<0.98	<2.0	<0.98	<2.0	<0.98	<250	<0.98	<0.98	<0.98	<2.0	<9.8	<2.0	<9.8	<0.98	<2.0	<0.98	<0.98	<0.98	<0.98	<0.98
	MS-13	MS-13-0.5		0.5	8/26/21	µg/kg	<0.89	<0.89	<1.8	<0.89	<1.8	<0.89	**71 J**	<0.89	<0.89	<0.89	<1.8	<8.9	<1.8	<8.9	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89
		MS-113-2.5	X	2.5	8/26/21	µg/kg	<0.89	<0.89	<1.8	<0.89	<1.8	<0.89	<220	<0.89	<0.89	<0.89	<1.8	<8.9	<1.8	<8.9	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89
		MS-13-2.5		2.5	8/26/21	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	**100 J**	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
		MS-13-5		5	8/26/21	µg/kg	<0.93	<0.93	<1.9	<0.93	<1.9	<0.93	**120 J**	<0.93	<0.93	<0.93	<1.9	<9.3	<1.9	<9.3	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<0.93
		MS-13-10		10	8/26/21	µg/kg	<0.82	<0.82	<1.6	<0.82	<1.6	<0.82	<210	<0.82	<0.82	<0.82	<1.6	<8.2	<1.6	<8.2	<0.82	<1.6	<0.82	<0.82	<0.82	<0.82	<0.82
		MS-13-20		20	8/26/21	µg/kg	<1.2	<1.2	<2.4	<1.2	<2.4	<1.2	<300	<1.2	<1.2	<1.2	<2.4	<12	<2.4	<12	<1.2	<2.4	<1.2	<1.2	<1.2	<1.2	<1.2
	MS-13B	MS-13B-35		35	9/2/21	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	<230	<0.94	<0.94	<0.94	<1.9	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94
		MS-13B-50		50	9/2/21	µg/kg	<1.0	<1.0	<2.1	<1.0	<2.1	<1.0	**110 J**	<1.0	<1.0	<1.0	<2.1	<10	<2.1	<10	<1.0	<2.1	<1.0	<1.0	<1.0	<1.0	<1.0
	MS-14	MS-14-0.5		0.5	8/25/21	µg/kg	<0.91	<0.91	<1.8	<0.91	<1.8	<0.91	<230	<0.91	<0.91	<0.91	<1.8	<9.1	<1.8	<9.1	<0.91	<1.8	<0.91	<0.91	<0.91	<0.91	<0.91
		MS-14-2.5		2.5	8/25/21	µg/kg	<0.97	<0.97	<1.9	<0.97	<1.9	<0.97	<240	<0.97	<0.97	<0.97	<1.9	<9.7	<1.9	<9.7	<0.97	<1.9	<0.97	<0.97	<0.97	<0.97	<0.97
		MS-14-5		5	8/25/21	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	<240	<0.94	<0.94	<0.94	<1.9	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94
17 (Maintenance Shop)	MS-15	MS-15-0.5		0.5	8/26/21	µg/kg	<0.88	<0.88	<1.8	<0.88	<1.8	<0.88	**72 J**	<0.88	<0.88	<0.88	<1.8	<8.8	<1.8	<8.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<0.88
		MS-15-2.5		2.5	8/26/21	µg/kg	<0.96	<0.96	<1.9	<0.96	<1.9	<0.96	**97 J**	<0.96	<0.96	<0.96	<1.9	<9.6	<1.9	<9.6	<0.96	<1.9	<0.96	<0.96	<0.96	<0.96	<0.96
		MS-15-5		5	8/26/21	µg/kg	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	**100 J**	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<10	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		MS-15-10		10	8/26/21	µg/kg	<1.3	<1.3	<2.6	<1.3	<2.6	<1.3	<330	<1.3	<1.3	<1.3	<2.6	<13	<2.6	<13	<1.3	<2.6	<1.3	<1.3	<1.3	<1.3	<1.3
		MS-15-20		20	8/26/21	µg/kg	<0.97	<0.97	<1.9	<0.97	<1.9	<0.97	<240	<0.97	<0.97	<0.97	<1.9	<9.7	<1.9	<9.7	<0.97	<1.9	<0.97	<0.97	<0.97	<0.97	<0.97
	MS-16	MS-116-0.5	X	0.5	8/24/21	µg/kg	<0.81	<0.81	<1.6	<0.81	<1.6	<0.81	<200	<0.81	<0.81	<0.81	<1.6	<8.1	<1.6	<8.1	<0.81	<1.6	<0.81	<0.81	<0.81	<0.81	<0.81
		MS-16-0.5		0.5	8/24/21	µg/kg	<0.79	<0.79	<1.6	<0.79	<1.6	<0.79	<200	<0.79	<0.79	<0.79	<1.6	<7.9	<1.6	<7.9	<0.79	<1.6	<0.79	<0.79	<0.79	<0.79	<0.79
		MS-16-2.5		2.5	8/24/21	µg/kg	<0.87	<0.87	<1.7	<0.87	<1.7	<0.87	<220	<0.87	<0.87	<0.87	<1.7	<8.7	<1.7	<8.7	<0.87	<1.7	<0.87	<0.87	<0.87	<0.87	<0.87
		MS-16-5		5	8/24/21	µg/kg	<0.89	<0.89	<1.8	<0.89	<1.8	<0.89	<220	<0.89	<0.89	<0.89	<1.8	<8.9	<1.8	<8.9	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89
		MS-16-10		10	8/24/21	µg/kg	<1.2	<1.2	<2.3	<1.2	<2.3	<1.2	<290	<1.2	<1.2	<1.2	<2.3	<12	<2.3	<12	<1.2	<2.3	<1.2	<1.2	<1.2	<1.2	<1.2
		MS-16-20		20	8/24/21	µg/kg	<1.1	<1.1	<2.3	<1.1	<2.3	<1.1	<280	<1.1	<1.1	<1.1	<2.3	<11	<2.3	<11	<1.1	<2.3	<1.1	<1.1	<1.1	<1.1	<1.1

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																			
							cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether (DIPE)	Ethanol	Ethylbenzene	Ethyl-t-butyl ether (ETBE)	Isopropylbenzene	m,p-Xylene	Methylene chloride	Methyl-t-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	N-Propylbenzene	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amyl-methyl ether (TAME)
EPA RSL Industrial (May 2023)							370,000	--	39,000	99,000	370,000	9,400,000	--	25,000	560,000	9,900,000	--	1,000,000	210,000	8,600	58,000,000	24,000,000	2,800,000	--	120,000,000	35,000,000	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	4,100	--	--	--	--	--	--	--	--	26,000	--	6,500	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							84,000	--	2,500,000	--	--	--	--	--	--	--	--	2,500,000	--	570,000	18,000,000	--	--	--	12,000,000	32,000,000	--
17 (Maintenance Shop)	MS-17	MS-17-0.5		0.5	8/24/21	µg/kg	<0.82	<0.82	<1.6	<0.82	<1.6	<0.82	<210	<0.82	<0.82	<0.82	<1.6	<8.2	<1.6	<8.2	<0.82	<1.6	<0.82	<0.82	<0.82	<0.82	<0.82
		MS-17-2.5		2.5	8/24/21	µg/kg	<1.3	<1.3	<2.6	<1.3	<2.6	<1.3	<320	<1.3	<1.3	<1.3	<2.6	<13	<2.6	<13	<1.3	<2.6	<1.3	<1.3	<1.3	<1.3	<1.3
		MS-17-5		5	8/24/21	µg/kg	<1.3	<1.3	<2.7	<1.3	<2.7	<1.3	<330	<1.3	<1.3	<1.3	<2.7	<13	<2.7	<13	<1.3	<2.7	<1.3	<1.3	<1.3	<1.3	<1.3
		MS-117-10	X	10	8/24/21	µg/kg	<0.78	<0.78	<1.6	<0.78	<1.6	<0.78	<190	<0.78	<0.78	<0.78	**0.40 J**	<7.8	<1.6	<7.8	<0.78	<1.6	<0.78	<0.78	<0.78	<0.78	<0.78
		MS-17-10		10	8/24/21	µg/kg	<0.83	<0.83	<1.7	<0.83	<1.7	<0.83	<210	<0.83	<0.83	<0.83	<1.7	<8.3	<1.7	<8.3	<0.83	<1.7	<0.83	<0.83	<0.83	<0.83	<0.83
		MS-17-20		20	8/24/21	µg/kg	<0.87	<0.87	<1.7	<0.87	<1.7	<0.87	<220	<0.87	<0.87	<0.87	<1.7	<8.7	<1.7	<8.7	<0.87	<1.7	<0.87	<0.87	<0.87	<0.87	<0.87
	MS-17B	MS-17B-40		40	9/2/21	µg/kg	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<260	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<10	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		MS-17B-60		60	9/2/21	µg/kg	<0.97	<0.97	<1.9	<0.97	<1.9	<0.97	<240	<0.97	<0.97	<0.97	<1.9	<9.7	<1.9	<9.7	<0.97	<1.9	<0.97	<0.97	<0.97	<0.97	<0.97
	MS-18	MS-18-0.5		0.5	8/24/21	µg/kg	<0.85	<0.85	<1.7	<0.85	<1.7	<0.85	<210	<0.85	<0.85	<0.85	<1.7	<8.5	<1.7	<8.5	<0.85	<1.7	<0.85	<0.85	<0.85	<0.85	<0.85
		MS-18-2.5		2.5	8/24/21	µg/kg	<0.92	<0.92	<1.8	<0.92	<1.8	<0.92	<230	<0.92	<0.92	<0.92	<1.8	<9.2	<1.8	<9.2	<0.92	<1.8	<0.92	<0.92	<0.92	<0.92	<0.92
		MS-18-5		5	8/24/21	µg/kg	<0.98	<0.98	<2.0	<0.98	<2.0	<0.98	<240	<0.98	<0.98	<0.98	<2.0	<9.8	<2.0	<9.8	<0.98	<2.0	<0.98	<0.98	<0.98	<0.98	<0.98
	MS-19	MS-19-5		5	9/1/21	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	**73 J**	<0.94	<0.94	<0.94	**0.55 J**	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94
		MS-19-20		20	9/1/21	µg/kg	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	<210	<0.84	<0.84	<0.84	<1.7	<8.4	<1.7	<8.4	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<0.84
	MS-20	MS-20-5		5	9/1/21	µg/kg	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	<210	<0.84	<0.84	<0.84	<1.7	<8.4	<1.7	<8.4	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<0.84
		MS-20-20		20	9/1/21	µg/kg	<0.69	<0.69	<1.4	<0.69	<1.4	<0.69	<170	<0.69	<0.69	<0.69	<1.4	<6.9	<1.4	<6.9	<0.69	<1.4	<0.69	<0.69	<0.69	<0.69	<0.69
	MS-21	MS-21-5		5	9/10/21	µg/kg	<0.91	<0.91	<1.8	<0.91	<1.8	<0.91	<230	<0.91	<0.91	<0.91	<1.8	<9.1	<1.8	<9.1	<0.91	<1.8	<0.91	<0.91	<0.91	<0.91	<0.91
		MS-21-20		20	9/10/21	µg/kg	<0.71	<0.71	<1.4	<0.71	<1.4	<0.71	**97 J**	<0.71	<0.71	<0.71	<1.4	<7.1	<1.4	<7.1	<0.71	<1.4	<0.71	<0.71	<0.71	<0.71	<0.71
	MS-22	MS-22-5		5	10/14/21	µg/kg	<1.0	<1.0	<2.1	<1.0	<2.1	<1.0	<260	<1.0	<1.0	<1.0	<2.1	<10	<2.1	<10	<1.0	<2.1	<1.0	<1.0	<1.0	<1.0	<1.0
		MS-22-20		20	10/14/21	µg/kg	<0.88	<0.88	<1.8	<0.88	<1.8	<0.88	<220	<0.88	<0.88	<0.88	<1.8	<8.8	<1.8	<8.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<0.88
	MS-23	MS-123-5	X	5	10/14/22	µg/kg	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	**130 J**	<0.86	<0.86	<0.86	<1.7	<8.6	<1.7	<8.6	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
		MS-23-5		5	10/14/22	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	**70 J**	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
		MS-23-20		20	10/14/22	µg/kg	<0.93	<0.93	<1.9	<0.93	<1.9	<0.93	<230	<0.93	<0.93	<0.93	<1.9	<9.3	<1.9	<9.3	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<0.93
	MS-23B	MS-23B-40		40	11/5/22	µg/kg	<0.91	<0.91	<1.8	<0.91	<1.8	<0.91	<230	<0.91	<0.91	<0.91	<1.8	<9.1	<1.8	<9.1	<0.91	<1.8	<0.91	<0.91	<0.91	<0.91	<0.91
		MS-23B-60		60	11/5/22	µg/kg	<0.85	<0.85	<1.7	<0.85	<1.7	<0.85	<210	<0.85	<0.85	<0.85	<1.7	<8.5	<1.7	<8.5	<0.85	<1.7	<0.85	<0.85	<0.85	<0.85	<0.85
		MS-23B-80		80	11/5/22	µg/kg	<0.79	<0.79	<1.6	<0.79	<1.6	<0.79	<200	<0.79	<0.79	<0.79	<1.6	<7.9	<1.6	<7.9	<0.79	<1.6	<0.79	<0.79	<0.79	<0.79	<0.79
		MS-23B-100		100	11/5/22	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	<240	<0.94	<0.94	<0.94	<1.9	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94
	MS-23C	MS-23C-125		125	1/3/22	µg/kg	<0.96	<0.96	<1.9	<0.96	<1.9	<0.96	<240	<0.96	<0.96	<0.96	<1.9	<9.6	<1.9	<9.6	<0.96	<1.9	<0.96	<0.96	<0.96	<0.96	<0.96
		MS-23C-150		150	1/4/22	µg/kg	<0.83	<0.83	<1.7	<0.83	<1.7	<0.83	<210	<0.83	<0.83	<0.83	<1.7	<8.3	<1.7	<8.3	<0.83	<1.7	<0.83	<0.83	<0.83	<0.83	<0.83
		MS-23C-190		190	1/5/22	µg/kg	<1.2	<1.2	<2.4	<1.2	<2.4	<1.2	<300	<1.2	<1.2	<1.2	<2.4	<12	<2.4	<12	<1.2	<2.4	<1.2	<1.2	<1.2	<1.2	<1.2
		MS-23C-200		200	1/5/22	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	<220	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
	MS-24	MS-24-20		20	10/14/22	µg/kg	<1.1	<1.1	<2.1	<1.1	<2.1	<1.1	<260	<1.1	<1.1	<1.1	<2.1	<11	<2.1	<11	<1.1	<2.1	<1.1	<1.1	<1.1	<1.1	<1.1
	MS-25	MS-25-20		20	10/14/22	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	<220	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
	MS-26	MS-26-20		20	10/15/22	µg/kg	<0.95	<0.95	<1.9	<0.95	<1.9	<0.95	<240	<0.95	<0.95	<0.95	<1.9	<9.5	<1.9	<9.5	<0.95	<1.9	<0.95	<0.95	<0.95	<0.95	<0.95
	MS-27	MS-27-5		5	10/15/22	µg/kg	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	<210	<0.86	<0.86	<0.86	<1.7	<8.6	<1.7	<8.6	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
		MS-127-20	X	20	10/15/22	µg/kg	<0.92	<0.92	<1.8	<0.92	<1.8	<0.92	<230	<0.92	<0.92	<0.92	<1.8	<9.2	<1.8	<9.2	<0.92	<1.8	<0.92	<0.92	<0.92	<0.92	<0.92
		MS-27-20		20	10/15/22	µg/kg	<0.98	<0.98	<2.0	<0.98	<2.0	<0.98	<250	<0.98	<0.98	<0.98	<2.0	<9.8	<2.0	<9.8	<0.98	<2.0	<0.98	<0.98	<0.98	<0.98	<0.98
	MS-28	MS-28-5		5	11/5/22	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	<220	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
	MS-29	MS-29-20		20	2/8/22	µg/kg	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	**70 J**	<0.84	<0.84	<0.84	<1.7	<8.4	<1.7	<8.4	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<0.84
	MS-30	MS-30-20		20	2/8/22	µg/kg	<0.80	<0.80	<1.6	<0.80	<1.6	<0.80	<200	<0.80	<0.80	<0.80	<1.6	<8.0	<1.6	<8.0	<0.80	<1.6	<0.80	<0.80	<0.80	<0.80	<0.80
	MS-31	MS-31-20		20	2/8/22	µg/kg	<0.83	<0.83	<1.7	<0.83	<1.7	<0.83	<210	<0.83	<0.83	<0.83	<1.7	<8.3	<1.7	<8.3	<0.83	<1.7	<0.83	<0.83	<0.83	<0.83	<0.83
	MS-32	MS-32-5		5	2/11/22	µg/kg	<0.82	<0.82	<1.6	<0.82	<1.6	<0.82	<200	<0.82	<0.82	<0.82	<1.6	<8.2	<1.6	<8.2	<0.82	<1.6	<0.82	<0.82	<0.82	<0.82	<0.82
		MS-32-20		20	2/11/22	µg/kg	<0.88	<0.88	<1.8	<0.88	<1.8	<0.88	<220	<0.88	<0.88	<0.88	<1.8	<8.8	<1.8	<8.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<0.88

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																			
							cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether (DIPE)	Ethanol	Ethylbenzene	Ethyl-t-butyl ether (ETBE)	Isopropylbenzene	m,p-Xylene	Methylene chloride	Methyl-t-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	N-Propylbenzene	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amyl-methyl ether (TAME)
EPA RSL Industrial (May 2023)							370,000	--	39,000	99,000	370,000	9,400,000	--	25,000	560,000	9,900,000	--	1,000,000	210,000	8,600	58,000,000	24,000,000	2,800,000	--	120,000,000	35,000,000	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	4,100	--	--	--	--	--	--	--	--	26,000	--	6,500	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							84,000	--	2,500,000	--	--	--	--	--	--	--	--	2,500,000	--	570,000	18,000,000	--	--	--	12,000,000	32,000,000	--
17 (Maintenance Shop)	SS-1B	SS-1B-0.5		0.5	8/24/21	µg/kg	<0.87	<0.87	<1.7	<0.87	<1.7	<0.87	<220	<0.87	<0.87	<0.87	<1.7	<8.7	<1.7	<8.7	<0.87	<1.7	<0.87	<0.87	<0.87	<0.87	<0.87
		SS-1B-2.5		2.5	8/24/21	µg/kg	<0.77	<0.77	<1.5	<0.77	<1.5	<0.77	<190	<0.77	<0.77	<0.77	<1.5	<7.7	<1.5	<7.7	<0.77	<1.5	<0.77	<0.77	<0.77	<0.77	<0.77
		SS-1B-5		5	8/24/21	µg/kg	<0.88	<0.88	<1.8	<0.88	<1.8	<0.88	<220	<0.88	<0.88	<0.88	<1.8	<8.8	<1.8	<8.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<0.88
		SS-1B-10		10	8/24/21	µg/kg	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<260	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<10	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		SS-1B-20		20	8/24/21	µg/kg	<0.97	<0.97	<1.9	<0.97	<1.9	<0.97	<240	<0.97	<0.97	<0.97	<1.9	<9.7	<1.9	<9.7	<0.97	<1.9	<0.97	<0.97	<0.97	<0.97	<0.97
	SS-4	SS-4-0.5		0.5	8/24/21	µg/kg	<0.73	<0.73	<1.5	<0.73	<1.5	<0.73	<200	<0.73	<0.73	<0.73	<1.5	<7.3	<1.5	<7.3	<0.73	<1.5	<0.73	<0.73	<0.73	<0.73	<0.73
		SS-4-2.5		2.5	8/24/21	µg/kg	<0.95	<0.95	<1.9	<0.95	<1.9	<0.95	<240	<0.95	<0.95	<0.95	<1.9	<9.5	<1.9	<9.5	<0.95	<1.9	<0.95	<0.95	<0.95	<0.95	<0.95
		SS-4-5		5	8/24/21	µg/kg	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	<220	<0.86	<0.86	<0.86	<1.7	<8.6	<1.7	<8.6	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
		SS-4-10		10	8/24/21	µg/kg	<0.97	<0.97	<1.9	<0.97	<1.9	<0.97	<240	<0.97	<0.97	<0.97	<1.9	<9.7	<1.9	<9.7	<0.97	<1.9	<0.97	<0.97	<0.97	<0.97	<0.97
		SS-4-20		20	8/24/21	µg/kg	<1.2	<1.2	<2.4	<1.2	<2.4	<1.2	<300	<1.2	<1.2	<1.2	**0.58 J**	<12	<2.4	<12	<1.2	<2.4	<1.2	<1.2	<1.2	<1.2	<1.2
	SS-5	SS-105-0.5	X	0.5	8/24/21	µg/kg	<0.82	<0.82	<1.6	<0.82	<1.6	<0.82	<200	<0.82	<0.82	<0.82	<1.6	<8.2	<1.6	<8.2	<0.82	<1.6	<0.82	<0.82	<0.82	<0.82	<0.82
		SS-5-0.5		0.5	8/24/21	µg/kg	<0.93	<0.93	<1.9	<0.93	<1.9	<0.93	<230	<0.93	<0.93	<0.93	<1.9	<9.3	<1.9	<9.3	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<0.93
		SS-5-2.5		2.5	8/24/21	µg/kg	<0.80	<0.80	<1.6	<0.80	<1.6	<0.80	**66 J**	<0.80	<0.80	<0.80	<1.6	<8.0	<1.6	<8.0	<0.80	<1.6	<0.80	<0.80	<0.80	<0.80	<0.80
		SS-5-5		5	8/24/21	µg/kg	<0.77	<0.77	<1.5	<0.77	<1.5	<0.77	<190	<0.77	<0.77	<0.77	<1.5	<7.7	<1.5	<7.7	<0.77	<1.5	<0.77	<0.77	<0.77	<0.77	<0.77
	SS-6	SS-6-0.5		0.5	8/23/21	µg/kg	<0.75	<0.75	<1.5	<0.75	<1.5	<0.75	<190	<0.75	<0.75	<0.75	<1.5	<7.5	<1.5	<7.5	<0.75	<1.5	<0.75	<0.75	<0.75	<0.75	<0.75
		SS-6-2.5		2.5	8/23/21	µg/kg	<0.75	<0.75	<1.5	<0.75	<1.5	<0.75	<190	<0.75	<0.75	<0.75	<1.5	<7.5	<1.5	<7.5	<0.75	<1.5	<0.75	<0.75	<0.75	<0.75	<0.75
		SS-6-5		5	8/23/21	µg/kg	<0.75	<0.75	<1.5	<0.75	<1.5	<0.75	<190	<0.75	<0.75	<0.75	<1.5	<7.5	<1.5	<7.5	<0.75	<1.5	<0.75	<0.75	<0.75	<0.75	<0.75
	SS-7	SS-7-0.5		0.5	8/23/21	µg/kg	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	<210	<0.84	<0.84	<0.84	<1.7	<8.4	<1.7	<8.4	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<0.84
		SS-7-2.5		2.5	8/23/21	µg/kg	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	<210	<0.86	<0.86	<0.86	<1.7	<8.6	<1.7	<8.6	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
		SS-7-5		5	8/23/21	µg/kg	<0.89	<0.89	<1.8	<0.89	<1.8	<0.89	<220	<0.89	<0.89	<0.89	<1.8	<8.9	<1.8	<8.9	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89
	SS-8	SS-8-0.5		0.5	8/23/21	µg/kg	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	<210	<0.86	<0.86	<0.86	<1.7	<8.6	<1.7	<8.6	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
		SS-108-2.5	X	2.5	8/23/21	µg/kg	<0.80	<0.80	<1.6	<0.80	<1.6	<0.80	<200	<0.80	<0.80	<0.80	<1.6	<8.0	<1.6	<8.0	<0.80	<1.6	<0.80	<0.80	<0.80	<0.80	<0.80
		SS-8-2.5		2.5	8/23/21	µg/kg	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	<210	<0.86	<0.86	<0.86	<1.7	<8.6	<1.7	<8.6	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
		SS-8-5		5	8/23/21	µg/kg	<0.87	<0.87	<1.7	<0.87	<1.7	<0.87	<230	<0.87	<0.87	<0.87	<1.7	<8.7	<1.7	<8.7	<0.87	<1.7	<0.87	<0.87	<0.87	<0.87	<0.87
	SS-9	SS-9-0.5		0.5	8/23/21	µg/kg	<0.77	<0.77	<1.5	<0.77	<1.5	<0.77	**59 J**	<0.77	<0.77	<0.77	<1.5	<7.7	<1.5	<7.7	<0.77	<1.5	<0.77	<0.77	<0.77	<0.77	<0.77
		SS-9-2.5		2.5	8/23/21	µg/kg	<0.75	<0.75	<1.5	<0.75	<1.5	<0.75	<190	<0.75	<0.75	<0.75	<1.5	<7.5	<1.5	<7.5	<0.75	<1.5	<0.75	<0.75	<0.75	<0.75	<0.75
		SS-9-5		5	8/23/21	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	<180	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
	SS-10	SS-10-0.5		0.5	8/23/21	µg/kg	<0.77	<0.77	<1.5	<0.77	<1.5	<0.77	**63 J**	<0.77	<0.77	<0.77	<1.5	<7.7	<1.5	<7.7	<0.77	<1.5	<0.77	<0.77	<0.77	<0.77	<0.77
		SS-10-2.5		2.5	8/23/21	µg/kg	<0.80	<0.80	<1.6	<0.80	<1.6	<0.80	**120 J**	<0.80	<0.80	<0.80	<1.6	<8.0	<1.6	<8.0	<0.80	<1.6	<0.80	<0.80	<0.80	<0.80	<0.80
		SS-10-5		5	8/23/21	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	<230	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
		SS-10-10		10	8/23/21	µg/kg	<0.89	<0.89	<1.8	<0.89	<1.8	<0.89	<220	<0.89	<0.89	<0.89	<1.8	<8.9	<1.8	<8.9	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89
		SS-110-10	X	10	8/23/21	µg/kg	<1.1	<1.1	<2.2	<1.1	<2.2	<1.1	**120 J**	<1.1	<1.1	<1.1	<2.2	<11	<2.2	<11	<1.1	<2.2	<1.1	<1.1	<1.1	<1.1	<1.1
		SS-10-20		20	8/23/21	µg/kg	<1.2	<1.2	<2.3	<1.2	<2.3	<1.2	**120 J**	<1.2	<1.2	<1.2	<2.3	<12	<2.3	<12	<1.2	<2.3	<1.2	<1.2	<1.2	<1.2	<1.2
	SS-11	SS-11-0.5		0.5	8/25/21	µg/kg	<0.66	<0.66	<1.3	<0.66	<1.3	<0.66	<170	**0.19 J**	<0.66	<0.66	**0.69 J**	<6.6	<1.3	<6.6	<0.66	<1.3	<0.66	<0.66	<0.66	<0.66	<0.66
		SS-11-2.5		2.5	8/25/21	µg/kg	<0.82	<0.82	<1.6	<0.82	<1.6	<0.82	<200	<0.82	<0.82	<0.82	<1.6	<8.2	<1.6	<8.2	<0.82	<1.6	<0.82	<0.82	<0.82	<0.82	<0.82
		SS-111-5	X	5	8/25/21	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	<230	<0.94	<0.94	<0.94	<1.9	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94
		SS-11-5		5	8/25/21	µg/kg	<0.88	<0.88	<1.8	<0.88	<1.8	<0.88	<220	<0.88	<0.88	<0.88	<1.8	<8.8	<1.8	<8.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<0.88
		SS-11-10		10	8/25/21	µg/kg	<1.2	<1.2	<2.4	<1.2	<2.4	<1.2	<300	<1.2	<1.2	<1.2	<2.4	<12	<2.4	<12	<1.2	<2.4	<1.2	<1.2	<1.2	<1.2	<1.2
	SS-12	SS-12-0.5		0.5	8/24/21	µg/kg	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	<200	<0.84	<0.84	<0.84	<1.7	<8.4	<1.7	<8.4	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<0.84
		SS-12-2.5		2.5	8/24/21	µg/kg	<0.82	<0.82	<1.6	<0.82	<1.6	<0.82	**61 J**	<0.82	<0.82	<0.82	<1.6	<8.2	<1.6	<8.2	<0.82	<1.6	<0.82	<0.82	<0.82	<0.82	<0.82
		SS-12-5		5	8/24/21	µg/kg	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<250	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<10	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		SS-12-10		10	8/24/21	µg/kg	<1.1	<1.1	<2.2	<1.1	<2.2	<1.1	<280	<1.1	<1.1	<1.1	<2.2	<11	<2.2	<11	<1.1	<2.2	<1.1	<1.1	<1.1	<1.1	<1.1
		SS-12-20		20	8/24/21	µg/kg	<0.95	<0.95	<1.9	<0.95	<1.9	<0.95	<240	<0.95	<0.95	<0.95	<1.9	<9.5	<1.9	<9.5	<0.95	<1.9	<0.95	<0.95	<0.95	<0.95	<0.95

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																				
							cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether (DIPE)	Ethanol	Ethylbenzene	Ethyl-t-butyl ether (ETBE)	Isopropylbenzene	m,p-Xylene	Methylene chloride	Methyl-t-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	N-Propylbenzene	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amyl-methyl ether (TAME)
EPA RSL Industrial (May 2023)							370,000	--	39,000	99,000	370,000	9,400,000	--	25,000	560,000	9,900,000	--	1,000,000	210,000	8,600	58,000,000	24,000,000	2,800,000	--	120,000,000	35,000,000	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	4,100	--	--	--	--	--	--	--	--	26,000	--	6,500	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							84,000	--	2,500,000	--	--	--	--	--	--	--	--	2,500,000	--	570,000	18,000,000	--	--	--	12,000,000	32,000,000	--
25 (Units 3/4 Transformers)	T3-4-2	T3-4-2-0.5		0.5	9/1/21	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	<230	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
	T3-4-4	T3-4-4-0.5		0.5	9/2/21	µg/kg	<2.7	<2.7	<5.4	<2.7	<5.4	<2.7	<670	<2.7	<2.7	<2.7	<5.4	<27	<5.4	<27	<2.7	<5.4	<2.7	<2.7	<2.7	<2.7	<2.7
	T3-4-5	T3-4-5-0.5		0.5	9/2/21	µg/kg	<0.77	<0.77	<1.5	<0.77	<1.5	<0.77	<190	<0.77	<0.77	<0.77	<1.5	<7.7	**0.23 J**	<7.7	<0.77	<1.5	<0.77	<0.77	<0.77	<0.77	<0.77
		T3-4-5-2.5		2.5	9/2/21	µg/kg	<0.88	<0.88	<1.8	<0.88	<1.8	<0.88	<220	<0.88	<0.88	<0.88	<1.8	<8.8	<1.8	<8.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<0.88
	T3-4-8	T3-4-8-0.5		0.5	9/2/21	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	<230	<0.94	<0.94	<0.94	<1.9	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94
25 (Units 3/4 Transformers)	T3-4-14	T3-4-14-0.5		0.5	9/1/21	µg/kg	<0.80	<0.80	<1.6	<0.80	<1.6	<0.80	**140 J**	<0.80	<0.80	<0.80	<1.6	<8.0	<1.6	<8.0	<0.80	<1.6	<0.80	<0.80	<0.80	<0.80	<0.80
	T3-4-15	T3-4-15-0.5		0.5	9/1/21	µg/kg	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	<210	<0.84	<0.84	<0.84	<1.7	<8.4	<1.7	<8.4	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<0.84
		T3-4-15-2.5		2.5	9/1/21	µg/kg	<0.80	<0.80	<1.6	<0.80	<1.6	<0.80	<200	<0.80	<0.80	<0.80	<1.6	<8.0	<1.6	<8.0	<0.80	<1.6	<0.80	<0.80	<0.80	<0.80	<0.80
26 (Units 1/2 Transformers)	T1-2-13	T1-2-13-0.5		0.5	8/31/21	µg/kg	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	<220	<0.86	<0.86	<0.86	<1.7	<8.6	<1.7	<8.6	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
	T1-2-14	T1-2-14-0.5		0.5	8/31/21	µg/kg	<0.92	<0.92	<1.8	<0.92	<1.8	<0.92	<230	<0.92	<0.92	<0.92	<1.8	<9.2	<1.8	<9.2	<0.92	<1.8	<0.92	<0.92	<0.92	<0.92	<0.92
	T1-2-15	T1-2-15-0.5		0.5	8/31/21	µg/kg	<0.83	<0.83	<1.7	<0.83	<1.7	<0.83	<210	<0.83	<0.83	<0.83	<1.7	<8.3	<1.7	<8.3	<0.83	<1.7	<0.83	<0.83	<0.83	<0.83	<0.83
		T1-2-15-2.5		2.5	8/31/21	µg/kg	<0.83	<0.83	<1.7	<0.83	<1.7	<0.83	<210	<0.83	<0.83	<0.83	<1.7	<8.3	<1.7	<8.3	<0.83	<1.7	<0.83	<0.83	<0.83	<0.83	<0.83
	T1-2-16	T1-2-16-0.5		0.5	8/31/21	µg/kg	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	<210	<0.84	<0.84	<0.84	<1.7	<8.4	<1.7	<8.4	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<0.84
	T1-2-19	T1-2-19-0.5		0.5	8/30/21	µg/kg	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	<220	<0.86	<0.86	<0.86	<1.7	<8.6	<1.7	<8.6	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
	T1-2-22	T1-2-22-0.5		0.5	8/30/21	µg/kg	<0.96	<0.96	<1.9	<0.96	<1.9	<0.96	<240	<0.96	<0.96	<0.96	<1.9	<9.6	<1.9	<9.6	<0.96	<1.9	<0.96	<0.96	<0.96	<0.96	<0.96
	T1-2-26	T1-2-26-2.5		2.5	8/30/21	µg/kg	<0.89	<0.89	<1.8	<0.89	<1.8	<0.89	<220	<0.89	<0.89	<0.89	<1.8	<8.9	<1.8	<8.9	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89
	T1-2-32	T1-2-32-0.5		0.5	8/26/21	µg/kg	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	**95 J**	<0.84	<0.84	<0.84	<1.7	<8.4	<1.7	<8.4	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<0.84
36 (Former Haz Waste Area)	F36-1	F36-1-0.5		0.5	8/24/21	µg/kg	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	<210	<0.84	<0.84	<0.84	<1.7	<8.4	<1.7	<8.4	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<0.84
		F36-1-2.5		2.5	8/24/21	µg/kg	<0.91	<0.91	<1.8	<0.91	<1.8	<0.91	**66 J**	<0.91	<0.91	<0.91	<1.8	<9.1	<1.8	<9.1	<0.91	<1.8	<0.91	<0.91	<0.91	<0.91	<0.91
	F36-2	F36-2-0.5		0.5	8/24/21	µg/kg	<0.85	<0.85	<1.7	<0.85	<1.7	<0.85	<210	<0.85	<0.85	<0.85	<1.7	<8.5	<1.7	<8.5	<0.85	<1.7	<0.85	<0.85	<0.85	<0.85	<0.85
		F36-2-2.5		2.5	8/24/21	µg/kg	<0.85	<0.85	<1.7	<0.85	<1.7	<0.85	<210	<0.85	<0.85	<0.85	<1.7	<8.5	<1.7	<8.5	<0.85	<1.7	<0.85	<0.85	<0.85	<0.85	<0.85
	F36-3	F36-3-0.5		0.5	8/25/21	µg/kg	<0.89	<0.89	<1.8	<0.89	<1.8	<0.89	<220	<0.89	<0.89	<0.89	<1.8	<8.9	<1.8	<8.9	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89
		F36-3-2.5		2.5	8/25/21	µg/kg	<0.92	<0.92	<1.8	<0.92	<1.8	<0.92	<230	<0.92	<0.92	<0.92	<1.8	<9.2	<1.8	<9.2	<0.92	<1.8	<0.92	<0.92	<0.92	<0.92	<0.92
Equipment Rinsate Blanks																											
--	--	EB-B-082321		--	8/23/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-A-082421		--	8/24/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-B-082521		--	8/25/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-A-082721		--	8/27/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-B-082721		--	8/27/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-B-083021		--	8/30/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-A-083121		--	8/31/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-B-083121		--	8/31/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-A1-090121		--	9/1/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-B-090121		--	9/1/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-A2-090221		--	9/2/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-A-010322		--	1/3/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-020822		--	2/8/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-021122		--	2/11/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																			
							cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether (DIPE)	Ethanol	Ethylbenzene	Ethyl-t-butyl ether (ETBE)	Isopropylbenzene	m,p-Xylene	Methylene chloride	Methyl-t-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	N-Propylbenzene	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amyl-methyl ether (TAME)
EPA RSL Industrial (May 2023)							370,000	--	39,000	99,000	370,000	9,400,000	--	25,000	560,000	9,900,000	--	1,000,000	210,000	8,600	58,000,000	24,000,000	2,800,000	--	120,000,000	35,000,000	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	4,100	--	--	--	--	--	--	--	--	26,000	--	6,500	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							84,000	--	2,500,000	--	--	--	--	--	--	--	--	2,500,000	--	570,000	18,000,000	--	--	--	12,000,000	32,000,000	--
Trip Blanks																											
--	--	TB-A-082321		--	8/23/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-B-082321		--	8/23/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-A-082421		--	8/24/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-B-082421		--	8/24/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-A-082521		--	8/25/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-B-082521		--	8/25/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-A-082621		--	8/26/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-B-082621		--	8/26/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-B-082721		--	8/27/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-A-083021		--	8/30/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-B-083021		--	8/30/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-A-083121		--	8/31/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-B-083121		--	8/31/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-A-090121		--	9/1/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-B-090121		--	9/1/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-A-090221		--	9/2/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-B-090221		--	9/2/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-A-091021		--	9/10/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-091522		--	9/15/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-A-101421		--	10/14/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-110521		--	11/5/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-A-010322		--	1/3/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-020822		--	2/8/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-021122		--	2/11/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
Field Blanks																											
--	--	FB-EA182-082321		--	8/23/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-EA182-082421		--	8/24/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-DZ609-082521		--	8/25/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-DZ609-082621		--	8/26/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-DZ609-082721		--	8/27/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-D2609-083021		--	8/30/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<0.30 J B	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-DZ609-083121		--	8/31/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-DZ609-090121		--	9/1/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-EA-182-090221		--	9/2/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-DX348-091021		--	9/10/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-091522		--	9/15/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-EB152-091621		--	9/16/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-EB152-101421		--	10/14/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-EB152-101521		--	10/15/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-EB152-110521		--	11/5/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-EB152-010322		--	1/3/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																				
							cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether (DIPE)	Ethanol	Ethylbenzene	Ethyl-t-butyl ether (ETBE)	Isopropylbenzene	m,p-Xylene	Methylene chloride	Methyl-t-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	N-Propylbenzene	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amyl-methyl ether (TAME)
EPA RSL Industrial (May 2023)							370,000	--	39,000	99,000	370,000	9,400,000	--	25,000	560,000	9,900,000	--	1,000,000	210,000	8,600	58,000,000	24,000,000	2,800,000	--	120,000,000	35,000,000	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	4,100	--	--	--	--	--	--	--	--	26,000	--	6,500	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							84,000	--	2,500,000	--	--	--	--	--	--	--	--	2,500,000	--	570,000	18,000,000	--	--	--	12,000,000	32,000,000	--
--	--	FB-A-010422		--	1/4/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-A-010522		--	1/5/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-D2838-020822		--	2/8/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-D2838-021122		--	2/11/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
Potable Water Sample (Drilling Rig Tank Water)																											
--	--	RW-010322		--	1/3/22	µg/L	<1.0	<0.50	**1.8 J**	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0

NOTES:

17	**Bold** value is reported concentration above the laboratory Method Detection Limit (MDL).
<0.84	Denotes analyte not detected above the posted Reporting Limit (RL)
J	Concentration is below the RL but above the MDL so the result represents an estimated value
B	Compound was detected in the laboratory method blank and the sample
NA	Not analyzed or No Published Value
µg/kg	Micrograms per kilogram
µg/L	Micrograms per liter
Dup	Field duplicate samples are identified in this column with an "X"
EPA RSL	United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for commercial/industrial land use (Updated May 2023)
DTSC-SLs	Department of Toxic Substances Control (DTSC)-modified screening levels for commercial/industrial land use (Updated May 2022)

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260									
							tert-Butyl alcohol (TBA)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Vinylacetate
EPA RSL Industrial (May 2023)							6,500,000	120,000,000	100,000	47,000,000	300,000	--	6,000	350,000,000	1,700	3,800,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	2,700	--	--	--	--	--	150	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	12,000,000	390,000	5,300,000	600,000	--	--	5,400,000	370,000	--
RFI Sample Results																
5 (Fueling Station)	F5-1	F5-1-2.5		2.5	8/27/21	µg/kg	<19	<0.93	<0.93	<0.93	<0.93	<1.9	<1.9	<9.3	<0.93	<9.3
		F5-1-5		5	8/27/21	µg/kg	<23	<1.2	<1.2	<1.2	<1.2	<2.3	<2.3	<12	<1.2	<12
	F5-2	F5-2-2.5		2.5	8/27/21	µg/kg	<17	<0.87	<0.87	<0.87	<0.87	<1.7	<1.7	<8.7	<0.87	<8.7
		F5-2-5		5	8/27/21	µg/kg	<31	<1.6	<1.6	<1.6	<1.6	<3.1	<3.1	<16	<1.6	<16
6 (Unit 5 Peaker)	P-1	P-1-2.5		2.5	8/23/21	µg/kg	<18	<0.88	<0.88	<0.88	<0.88	<1.8	<1.8	<8.8	<0.88	<8.8
		P-1-5		5	8/23/21	µg/kg	<16	<0.79	<0.79	<0.79	<0.79	<1.6	<1.6	<7.9	<0.79	<7.9
		P-1-10		10	8/23/21	µg/kg	<19	<0.94	<0.94	**0.74 J**	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4
	P-1B	P-1B-20		20	9/2/21	µg/kg	<19	<0.93	<0.93	<0.93	<0.93	<1.9	<1.9	<9.3	<0.93	<9.3
		P-1B-40		40	9/2/21	µg/kg	<17	<0.84	<0.84	**0.65 J**	<0.84	<1.7	<1.7	<8.4	<0.84	<8.4
	P-5	P-5-5		5	9/1/21	µg/kg	<22	<1.1	<1.1	<1.1	<1.1	<2.2	<2.2	<11	<1.1	<11
		P-5-20		20	9/1/21	µg/kg	<17	<0.85	<0.85	<0.85	<0.85	<1.7	<1.7	<8.5	<0.85	<8.5
	P-6	P-106-5	X	5	9/1/21	µg/kg	<19	<0.94	<0.94	<0.94	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4
		P-6-5		5	9/1/21	µg/kg	<18	<0.92	<0.92	<0.92	<0.92	<1.8	<1.8	<9.2	<0.92	<9.2
		P-6-20		20	9/1/21	µg/kg	<26	<1.3	<1.3	<1.3	<1.3	<2.6	<2.6	<13	<1.3	<13
	P-8	P-8-5		5	9/10/21	µg/kg	<19	<0.97	<0.97	<0.97	<0.97	<1.9	<1.9	<9.7	<0.97	<9.7
		P-8-20		20	9/10/21	µg/kg	<16	<0.82	<0.82	**0.57 J**	<0.82	<1.6	<1.6	<8.2	<0.82	<8.2
	P-9	P-9-5		5	9/10/21	µg/kg	<18	<0.92	<0.92	<0.92	<0.92	<1.8	<1.8	<9.2	<0.92	<9.2
		P-9-20		20	9/10/21	µg/kg	<15	<0.77	<0.77	<0.77	<0.77	<1.5	<1.5	<7.7	<0.77	<7.7
	PT1-2	PT1-2-0.5		0.5	8/24/21	µg/kg	<18	<0.89	<0.89	<0.89	<0.89	<1.8	<1.8	<8.9	<0.89	<8.9
	PT1-3	PT1-3-0.5		0.5	8/24/21	µg/kg	<19	<0.93	<0.93	<0.93	<0.93	<1.9	<1.9	<9.3	<0.93	<9.3
	PT2-1	PT2-1-0.5		0.5	8/23/21	µg/kg	**7.4 J**	<0.87	<0.87	<0.87	<0.87	<1.7	<1.7	<8.7	<0.87	<8.7
11 (Chadwick Channel)	F11-1	F11-1-0.5		0.5	8/26/21	µg/kg	<17	<0.86	<0.86	<0.86	<0.86	<1.7	<1.7	<8.6	<0.86	<8.6
		F11-101-0.5	X	0.5	8/26/21	µg/kg	<21	<1.0	<1.0	<1.0	<1.0	<2.1	<2.1	<10	<1.0	<10
		F11-1-2.5		2.5	8/26/21	µg/kg	<22	<1.1	<1.1	<1.1	<1.1	<2.2	<2.2	<11	<1.1	<11
	F11-10	F11-10-0.5		0.5	8/26/21	µg/kg	<17	<0.83	<0.83	<0.83	<0.83	<1.7	<1.7	<8.3	<0.83	<8.3
		F11-110-0.5	X	0.5	8/26/21	µg/kg	<18	<0.91	<0.91	<0.91	<0.91	<1.8	<1.8	<9.1	<0.91	<9.1
		F11-10-2.5		2.5	8/26/21	µg/kg	<18	<0.92	<0.92	<0.92	<0.92	<1.8	<1.8	<9.2	<0.92	<9.2
	F11-2A	F11-2A-0.5		0.5	8/26/21	µg/kg	<20	<0.98	<0.98	<0.98	<0.98	<2.0	<2.0	<9.8	<0.98	<9.8
		F11-2A-2.5		2.5	8/26/21	µg/kg	<18	<0.89	<0.89	<0.89	<0.89	<1.8	<1.8	<8.9	<0.89	<8.9
	F11-2B	F11-2B-0.5		0.5	8/26/21	µg/kg	<18	<0.92	<0.92	<0.92	<0.92	<1.8	<1.8	<9.2	<0.92	<9.2
		F11-2B-2.5		2.5	8/26/21	µg/kg	<19	<0.94	<0.94	<0.94	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4
	F11-3	F11-3-0.5		0.5	8/26/21	µg/kg	<19	<0.96	<0.96	<0.96	<0.96	<1.9	<1.9	<9.6	<0.96	<9.6
		F11-3-2.5		2.5	8/26/21	µg/kg	<22	<1.1	<1.1	<1.1	<1.1	<2.2	<2.2	<11	<1.1	<11
	F11-4	F11-4-0.5		0.5	8/31/21	µg/kg	<18	<0.92	<0.92	<0.92	<0.92	<1.8	<1.8	<9.2	<0.92	<9.2
		F11-4-2.5		2.5	8/31/21	µg/kg	<20	<0.98	<0.98	<0.98	<0.98	<2.0	<2.0	<9.8	<0.98	<9.8
	F11-5	F11-105-0.5	X	0.5	8/31/21	µg/kg	<21	<1.0	<1.0	<1.0	<1.0	<2.1	<2.1	<10	<1.0	<10
		F11-5-0.5		0.5	8/31/21	µg/kg	**7.8 J**	<0.88	<0.88	<0.88	<0.88	<1.8	<1.8	<8.8	<0.88	<8.8
11 (Chadwick Channel)	F11-5	F11-5-2.5		2.5	8/31/21	µg/kg	**7.3 J**	<0.99	<0.99	<0.99	<0.99	<2.0	<2.0	<9.9	<0.99	<9.9
	F11-6	F11-6-0.5		0.5	8/31/21	µg/kg	**12 J**	<0.77	<0.77	<0.77	<0.77	<1.5	<1.5	<7.7	<0.77	<7.7
		F11-6-2.5		2.5	8/31/21	µg/kg	<17	<0.87	<0.87	<0.87	<0.87	<1.7	<1.7	<8.7	<0.87	<8.7
	F11-7	F11-7-0.5		0.5	8/31/21	µg/kg	<19	<0.96	<0.96	<0.96	<0.96	<1.9	<1.9	<9.6	<0.96	<9.6
		F11-7-2.5		2.5	8/31/21	µg/kg	<20	<0.99	<0.99	<0.99	<0.99	<2.0	<2.0	<9.9	<0.99	<9.9
	F11-8	F11-8-0.5		0.5	8/31/21	µg/kg	<19	<0.94	<0.94	<0.94	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4
		F11-8-2.5		2.5	8/31/21	µg/kg	<21	<1.0	<1.0	<1.0	<1.0	<2.1	<2.1	<10	<1.0	<10
	F11-9	F11-9-0.5		0.5	8/26/21	µg/kg	<19	<0.94	<0.94	<0.94	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260									
							tert-Butyl alcohol (TBA)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Vinylacetate
EPA RSL Industrial (May 2023)							6,500,000	120,000,000	100,000	47,000,000	300,000	--	6,000	350,000,000	1,700	3,800,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	2,700	--	--	--	--	--	150	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	12,000,000	390,000	5,300,000	600,000	--	--	5,400,000	370,000	--
14 (Haz Waste Accumulation Area)	F14-1	F14-1-0.5		0.5	8/25/21	µg/kg	<17	<0.86	<0.86	<0.86	<0.86	<1.7	<1.7	<8.6	<0.86	<8.6
		F14-1-2.5		2.5	8/25/21	µg/kg	<19	<0.95	<0.95	<0.95	<0.95	<1.9	<1.9	<9.5	<0.95	<9.5
17 (Maintenance Shop)	MS-10	MS-10-0.5		0.5	8/25/21	µg/kg	<19	<0.93	<0.93	<0.93	<0.93	<1.9	<1.9	<9.3	<0.93	<9.3
		MS-10-2.5		2.5	8/25/21	µg/kg	<16	<0.78	<0.78	<0.78	<0.78	<1.6	<1.6	<7.8	<0.78	<7.8
		MS-10-5		5	8/25/21	µg/kg	<22	<1.1	<1.1	<1.1	<1.1	<2.2	<2.2	<11	<1.1	<11
		MS-10-10		10	8/25/21	µg/kg	<24	<1.2	<1.2	<1.2	<1.2	<2.4	<2.4	<12	<1.2	<12
		MS-10-20		20	8/25/21	µg/kg	<27	<1.4	<1.4	<1.4	<1.4	<2.7	<2.7	<14	<1.4	<14
	MS-11	MS-11-0.5		0.5	8/25/21	µg/kg	<18	<0.88	<0.88	<0.88	<0.88	<1.8	<1.8	<8.8	<0.88	<8.8
		MS-11-2.5		2.5	8/25/21	µg/kg	**15 J**	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
		MS-11-5		5	8/25/21	µg/kg	**14 J**	<0.99	<0.99	<0.99	<0.99	<2.0	<2.0	<9.9	<0.99	<9.9
		MS-11-10		10	8/25/21	µg/kg	<19	<0.96	<0.96	<0.96	<0.96	<1.9	<1.9	<9.6	<0.96	<9.6
		MS-111-10	X	10	8/25/21	µg/kg	<23	<1.2	<1.2	<1.2	<1.2	<2.3	<2.3	<12	<1.2	<12
		MS-11-20		20	8/25/21	µg/kg	<22	<1.1	<1.1	<1.1	<1.1	<2.2	<2.2	<11	<1.1	<11
	MS-12	MS-12-0.5		0.5	8/25/21	µg/kg	<18	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
		MS-12-2.5		2.5	8/25/21	µg/kg	<20	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<10	<1.0	<10
		MS-12-5		5	8/25/21	µg/kg	<30	<1.5	<1.5	<1.5	<1.5	<3.0	<3.0	<15	<1.5	<15
		MS-12-10		10	8/25/21	µg/kg	<18	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
		MS-12-20		20	8/25/21	µg/kg	<20	<0.98	<0.98	<0.98	<0.98	<2.0	<2.0	<9.8	<0.98	<9.8
	MS-13	MS-13-0.5		0.5	8/26/21	µg/kg	<18	<0.89	<0.89	<0.89	<0.89	<1.8	<1.8	<8.9	<0.89	<8.9
		MS-113-2.5	X	2.5	8/26/21	µg/kg	<18	<0.89	<0.89	<0.89	<0.89	<1.8	<1.8	<8.9	<0.89	<8.9
		MS-13-2.5		2.5	8/26/21	µg/kg	<18	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
		MS-13-5		5	8/26/21	µg/kg	<19	<0.93	<0.93	<0.93	<0.93	<1.9	<1.9	<9.3	<0.93	<9.3
		MS-13-10		10	8/26/21	µg/kg	<16	<0.82	<0.82	<0.82	<0.82	<1.6	<1.6	<8.2	<0.82	<8.2
		MS-13-20		20	8/26/21	µg/kg	<24	<1.2	<1.2	<1.2	<1.2	<2.4	<2.4	<12	<1.2	<12
	MS-13B	MS-13B-35		35	9/2/21	µg/kg	<19	<0.94	<0.94	<0.94	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4
		MS-13B-50		50	9/2/21	µg/kg	<21	<1.0	<1.0	<1.0	<1.0	<2.1	<2.1	<10	<1.0	<10
	MS-14	MS-14-0.5		0.5	8/25/21	µg/kg	<18	<0.91	<0.91	<0.91	<0.91	<1.8	<1.8	<9.1	<0.91	<9.1
		MS-14-2.5		2.5	8/25/21	µg/kg	<19	<0.97	<0.97	<0.97	<0.97	<1.9	<1.9	<9.7	<0.97	<9.7
		MS-14-5		5	8/25/21	µg/kg	<19	<0.94	<0.94	<0.94	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4
17 (Maintenance Shop)	MS-15	MS-15-0.5		0.5	8/26/21	µg/kg	<18	<0.88	<0.88	<0.88	<0.88	<1.8	<1.8	<8.8	<0.88	<8.8
		MS-15-2.5		2.5	8/26/21	µg/kg	**8.6 J**	<0.96	<0.96	<0.96	<0.96	<1.9	<1.9	<9.6	<0.96	<9.6
		MS-15-5		5	8/26/21	µg/kg	<20	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<10	<1.0	<10
		MS-15-10		10	8/26/21	µg/kg	<26	<1.3	<1.3	**1.1 J**	<1.3	<2.6	<2.6	<13	<1.3	<13
		MS-15-20		20	8/26/21	µg/kg	<19	<0.97	<0.97	<0.97	<0.97	<1.9	<1.9	<9.7	<0.97	<9.7
	MS-16	MS-116-0.5	X	0.5	8/24/21	µg/kg	<16	<0.81	<0.81	<0.81	<0.81	<1.6	<1.6	<8.1	<0.81	<8.1
		MS-16-0.5		0.5	8/24/21	µg/kg	<16	<0.79	<0.79	<0.79	<0.79	<1.6	<1.6	<7.9	<0.79	<7.9
		MS-16-2.5		2.5	8/24/21	µg/kg	**17**	<0.87	<0.87	<0.87	<0.87	<1.7	<1.7	<8.7	<0.87	<8.7
		MS-16-5		5	8/24/21	µg/kg	<18	<0.89	<0.89	<0.89	<0.89	<1.8	<1.8	<8.9	<0.89	<8.9
		MS-16-10		10	8/24/21	µg/kg	<23	<1.2	<1.2	<1.2	<1.2	<2.3	<2.3	<12	<1.2	<12
		MS-16-20		20	8/24/21	µg/kg	<23	<1.1	<1.1	<1.1	<1.1	<2.3	<2.3	<11	<1.1	<11

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260									
							tert-Butyl alcohol (TBA)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Vinylacetate
EPA RSL Industrial (May 2023)							6,500,000	120,000,000	100,000	47,000,000	300,000	--	6,000	350,000,000	1,700	3,800,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	2,700	--	--	--	--	--	150	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	12,000,000	390,000	5,300,000	600,000	--	--	5,400,000	370,000	--
17 (Maintenance Shop)	MS-17	MS-17-0.5		0.5	8/24/21	µg/kg	<16	<0.82	<0.82	<0.82	<0.82	<1.6	<1.6	<8.2	<0.82	<8.2
		MS-17-2.5		2.5	8/24/21	µg/kg	<26	<1.3	<1.3	<1.3	<1.3	<2.6	<2.6	<13	<1.3	<13
		MS-17-5		5	8/24/21	µg/kg	<27	<1.3	<1.3	<1.3	<1.3	<2.7	<2.7	<13	<1.3	<13
		MS-117-10	X	10	8/24/21	µg/kg	<16	<0.78	<0.78	**0.89**	<0.78	<1.6	<1.6	<7.8	<0.78	<7.8
		MS-17-10		10	8/24/21	µg/kg	<17	<0.83	<0.83	<0.83	<0.83	<1.7	<1.7	<8.3	<0.83	<8.3
		MS-17-20		20	8/24/21	µg/kg	<17	<0.87	<0.87	<0.87	<0.87	<1.7	<1.7	<8.7	<0.87	<8.7
	MS-17B	MS-17B-40		40	9/2/21	µg/kg	<20	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<10	<1.0	<10
		MS-17B-60		60	9/2/21	µg/kg	<19	<0.97	<0.97	<0.97	<0.97	<1.9	<1.9	<9.7	<0.97	<9.7
	MS-18	MS-18-0.5		0.5	8/24/21	µg/kg	<17	<0.85	<0.85	<0.85	<0.85	<1.7	<1.7	<8.5	<0.85	<8.5
		MS-18-2.5		2.5	8/24/21	µg/kg	<18	<0.92	<0.92	<0.92	<0.92	<1.8	<1.8	<9.2	<0.92	<9.2
		MS-18-5		5	8/24/21	µg/kg	<20	<0.98	<0.98	<0.98	<0.98	<2.0	<2.0	<9.8	<0.98	<9.8
	MS-19	MS-19-5		5	9/1/21	µg/kg	<19	<0.94	<0.94	<0.94	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4
		MS-19-20		20	9/1/21	µg/kg	<17	<0.84	<0.84	<0.84	<0.84	<1.7	<1.7	<8.4	<0.84	<8.4
	MS-20	MS-20-5		5	9/1/21	µg/kg	<17	<0.84	<0.84	<0.84	<0.84	<1.7	<1.7	<8.4	<0.84	<8.4
		MS-20-20		20	9/1/21	µg/kg	<14	<0.69	<0.69	<0.69	<0.69	<1.4	<1.4	<6.9	<0.69	<6.9
	MS-21	MS-21-5		5	9/10/21	µg/kg	<18	<0.91	<0.91	**0.58 J**	<0.91	<1.8	<1.8	<9.1	<0.91	<9.1
		MS-21-20		20	9/10/21	µg/kg	<14	<0.71	<0.71	<0.71	<0.71	<1.4	<1.4	<7.1	<0.71	<7.1
	MS-22	MS-22-5		5	10/14/21	µg/kg	<21	<1.0	<1.0	<1.0	<1.0	<2.1	<2.1	<10	<1.0	<10
		MS-22-20		20	10/14/21	µg/kg	<18	<0.88	<0.88	<0.88	<0.88	<1.8	<1.8	<8.8	<0.88	<8.8
	MS-23	MS-123-5	X	5	10/14/22	µg/kg	<17	<0.86	<0.86	<0.86	<0.86	<1.7	<1.7	<8.6	<0.86	<8.6
		MS-23-5		5	10/14/22	µg/kg	<18	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
		MS-23-20		20	10/14/22	µg/kg	<19	<0.93	<0.93	<0.93	<0.93	<1.9	<1.9	<9.3	<0.93	<9.3
	MS-23B	MS-23B-40		40	11/5/22	µg/kg	<18	<0.91	<0.91	**0.66 J**	<0.91	<1.8	<1.8	<9.1	<0.91	<9.1
		MS-23B-60		60	11/5/22	µg/kg	<17	<0.85	<0.85	**0.38 J**	<0.85	<1.7	<1.7	<8.5	<0.85	<8.5
		MS-23B-80		80	11/5/22	µg/kg	<16	<0.79	<0.79	<0.79	<0.79	<1.6	<1.6	<7.9	<0.79	<7.9
		MS-23B-100		100	11/5/22	µg/kg	<19	<0.94	<0.94	<0.94	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4
	MS-23C	MS-23C-125		125	1/3/22	µg/kg	<19	<0.96	<0.96	<0.96	<0.96	<1.9	<1.9	<9.6	<0.96	<9.6
		MS-23C-150		150	1/4/22	µg/kg	<17	<0.83	<0.83	<0.83	<0.83	<1.7	<1.7	<8.3	<0.83	<8.3
		MS-23C-190		190	1/5/22	µg/kg	<24	<1.2	<1.2	<1.2	<1.2	<2.4	<2.4	<12	<1.2	<12
		MS-23C-200		200	1/5/22	µg/kg	<18	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
	MS-24	MS-24-20		20	10/14/22	µg/kg	<21	<1.1	<1.1	<1.1	<1.1	<2.1	<2.1	<11	<1.1	<11
	MS-25	MS-25-20		20	10/14/22	µg/kg	<18	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
	MS-26	MS-26-20		20	10/15/22	µg/kg	<19	<0.95	<0.95	<0.95	<0.95	<1.9	<1.9	<9.5	<0.95	<9.5
	MS-27	MS-27-5		5	10/15/22	µg/kg	<17	<0.86	<0.86	<0.86	<0.86	<1.7	<1.7	<8.6	<0.86	<8.6
		MS-127-20	X	20	10/15/22	µg/kg	<18	<0.92	<0.92	<0.92	<0.92	<1.8	<1.8	<9.2	<0.92	<9.2
		MS-27-20		20	10/15/22	µg/kg	<20	<0.98	<0.98	<0.98	<0.98	<2.0	<2.0	<9.8	<0.98	<9.8
	MS-28	MS-28-5		5	11/5/22	µg/kg	<18	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
	MS-29	MS-29-20		20	2/8/22	µg/kg	<17	<0.84	<0.84	<0.84	<0.84	<1.7	<1.7	<8.4	<0.84	<8.4
	MS-30	MS-30-20		20	2/8/22	µg/kg	<16	<0.80	<0.80	<0.80	<0.80	<1.6	<1.6	<8.0	<0.80	<8.0
	MS-31	MS-31-20		20	2/8/22	µg/kg	<17	<0.83	<0.83	<0.83	<0.83	<1.7	<1.7	<8.3	<0.83	<8.3
	MS-32	MS-32-5		5	2/11/22	µg/kg	<16	<0.82	<0.82	<0.82	<0.82	<1.6	<1.6	<8.2	<0.82	<8.2
		MS-32-20		20	2/11/22	µg/kg	<18	<0.88	<0.88	<0.88	<0.88	<1.8	<1.8	<8.8	<0.88	<8.8

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260									
							tert-Butyl alcohol (TBA)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Vinylacetate
EPA RSL Industrial (May 2023)							6,500,000	120,000,000	100,000	47,000,000	300,000	--	6,000	350,000,000	1,700	3,800,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	2,700	--	--	--	--	--	150	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	12,000,000	390,000	5,300,000	600,000	--	--	5,400,000	370,000	--
17 (Maintenance Shop)	SS-1B	SS-1B-0.5		0.5	8/24/21	µg/kg	<17	<0.87	<0.87	<0.87	<0.87	<1.7	<1.7	<8.7	<0.87	<8.7
		SS-1B-2.5		2.5	8/24/21	µg/kg	<15	<0.77	<0.77	<0.77	<0.77	<1.5	<1.5	<7.7	<0.77	<7.7
		SS-1B-5		5	8/24/21	µg/kg	<18	<0.88	<0.88	<0.88	<0.88	<1.8	<1.8	<8.8	<0.88	<8.8
		SS-1B-10		10	8/24/21	µg/kg	<20	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<10	<1.0	<10
		SS-1B-20		20	8/24/21	µg/kg	<19	<0.97	<0.97	<0.97	<0.97	<1.9	<1.9	<9.7	<0.97	<9.7
	SS-4	SS-4-0.5		0.5	8/24/21	µg/kg	**5.4 J**	<0.73	<0.73	<0.73	<0.73	<1.5	<1.5	<7.3	<0.73	<7.3
		SS-4-2.5		2.5	8/24/21	µg/kg	<19	<0.95	<0.95	<0.95	<0.95	<1.9	<1.9	<9.5	<0.95	<9.5
		SS-4-5		5	8/24/21	µg/kg	<17	<0.86	<0.86	<0.86	<0.86	<1.7	<1.7	<8.6	<0.86	<8.6
		SS-4-10		10	8/24/21	µg/kg	<19	<0.97	<0.97	<0.97	<0.97	<1.9	<1.9	<9.7	<0.97	<9.7
		SS-4-20		20	8/24/21	µg/kg	<24	<1.2	<1.2	**1.2**	<1.2	<2.4	<2.4	<12	<1.2	<12
	SS-5	SS-105-0.5	X	0.5	8/24/21	µg/kg	<16	<0.82	<0.82	<0.82	<0.82	<1.6	<1.6	<8.2	<0.82	<8.2
		SS-5-0.5		0.5	8/24/21	µg/kg	<19	<0.93	<0.93	<0.93	<0.93	<1.9	<1.9	<9.3	<0.93	<9.3
		SS-5-2.5		2.5	8/24/21	µg/kg	**10 J**	<0.80	<0.80	<0.80	<0.80	<1.6	<1.6	<8.0	<0.80	<8.0
		SS-5-5		5	8/24/21	µg/kg	<15	<0.77	<0.77	<0.77	<0.77	<1.5	<1.5	<7.7	<0.77	<7.7
	SS-6	SS-6-0.5		0.5	8/23/21	µg/kg	<15	<0.75	<0.75	<0.75	<0.75	<1.5	<1.5	<7.5	<0.75	<7.5
		SS-6-2.5		2.5	8/23/21	µg/kg	<15	<0.75	<0.75	<0.75	<0.75	<1.5	<1.5	<7.5	<0.75	<7.5
		SS-6-5		5	8/23/21	µg/kg	<15	<0.75	<0.75	<0.75	<0.75	<1.5	<1.5	<7.5	<0.75	<7.5
	SS-7	SS-7-0.5		0.5	8/23/21	µg/kg	<17	<0.84	<0.84	<0.84	<0.84	<1.7	<1.7	<8.4	<0.84	<8.4
		SS-7-2.5		2.5	8/23/21	µg/kg	<17	<0.86	<0.86	<0.86	<0.86	<1.7	<1.7	<8.6	<0.86	<8.6
		SS-7-5		5	8/23/21	µg/kg	<18	<0.89	<0.89	<0.89	<0.89	<1.8	<1.8	<8.9	<0.89	<8.9
	SS-8	SS-8-0.5		0.5	8/23/21	µg/kg	<17	<0.86	<0.86	<0.86	<0.86	<1.7	<1.7	<8.6	<0.86	<8.6
		SS-108-2.5	X	2.5	8/23/21	µg/kg	<16	<0.80	<0.80	<0.80	<0.80	<1.6	<1.6	<8.0	<0.80	<8.0
		SS-8-2.5		2.5	8/23/21	µg/kg	<17	<0.86	<0.86	<0.86	<0.86	<1.7	<1.7	<8.6	<0.86	<8.6
		SS-8-5		5	8/23/21	µg/kg	<19	<0.87	<0.87	<0.87	<0.87	<1.7	<1.7	<8.7	<0.87	<8.7
	SS-9	SS-9-0.5		0.5	8/23/21	µg/kg	<15	<0.77	<0.77	<0.77	<0.77	<1.5	<1.5	<7.7	<0.77	<7.7
		SS-9-2.5		2.5	8/23/21	µg/kg	<15	<0.75	<0.75	<0.75	<0.75	<1.5	<1.5	<7.5	<0.75	<7.5
		SS-9-5		5	8/23/21	µg/kg	<15	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
	SS-10	SS-10-0.5		0.5	8/23/21	µg/kg	<15	<0.77	<0.77	<0.77	<0.77	<1.5	<1.5	<7.7	<0.77	<7.7
		SS-10-2.5		2.5	8/23/21	µg/kg	<16	<0.80	<0.80	<0.80	<0.80	<1.6	<1.6	<8.0	<0.80	<8.0
		SS-10-5		5	8/23/21	µg/kg	<18	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
		SS-10-10		10	8/23/21	µg/kg	<18	<0.89	<0.89	<0.89	<0.89	<1.8	<1.8	<8.9	<0.89	<8.9
		SS-110-10	X	10	8/23/21	µg/kg	**10 J**	<1.1	<1.1	<1.1	<1.1	<2.2	<2.2	<11	<1.1	<11
		SS-10-20		20	8/23/21	µg/kg	<23	<1.2	<1.2	<1.2	<1.2	<2.3	<2.3	<12	<1.2	<12
	SS-11	SS-11-0.5		0.5	8/25/21	µg/kg	**28**	<0.66	<0.66	<0.66	<0.66	<1.3	<1.3	<6.6	<0.66	<6.6
		SS-11-2.5		2.5	8/25/21	µg/kg	<16	<0.82	<0.82	<0.82	<0.82	<1.6	<1.6	<8.2	<0.82	<8.2
		SS-111-5	X	5	8/25/21	µg/kg	<19	<0.94	<0.94	<0.94	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4
		SS-11-5		5	8/25/21	µg/kg	<18	<0.88	<0.88	<0.88	<0.88	<1.8	<1.8	<8.8	<0.88	<8.8
		SS-11-10		10	8/25/21	µg/kg	<24	<1.2	<1.2	<1.2	<1.2	<2.4	<2.4	<12	<1.2	<12
	SS-12	SS-12-0.5		0.5	8/24/21	µg/kg	**6.7 J**	<0.84	<0.84	<0.84	<0.84	<1.7	<1.7	<8.4	<0.84	<8.4
		SS-12-2.5		2.5	8/24/21	µg/kg	<16	<0.82	<0.82	<0.82	<0.82	<1.6	<1.6	<8.2	<0.82	<8.2
		SS-12-5		5	8/24/21	µg/kg	<20	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<10	<1.0	<10
		SS-12-10		10	8/24/21	µg/kg	**7.9 J**	<1.1	<1.1	<1.1	<1.1	<2.2	<2.2	<11	<1.1	<11
		SS-12-20		20	8/24/21	µg/kg	<19	<0.95	<0.95	<0.95	<0.95	<1.9	<1.9	<9.5	<0.95	<9.5

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260									
							tert-Butyl alcohol (TBA)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Vinylacetate
EPA RSL Industrial (May 2023)							6,500,000	120,000,000	100,000	47,000,000	300,000	--	6,000	350,000,000	1,700	3,800,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	2,700	--	--	--	--	--	150	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	12,000,000	390,000	5,300,000	600,000	--	--	5,400,000	370,000	--
25 (Units 3/4 Transformers)	T3-4-2	T3-4-2-0.5		0.5	9/1/21	µg/kg	**11 J**	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
	T3-4-4	T3-4-4-0.5		0.5	9/2/21	µg/kg	<54	<2.7	<2.7	<2.7	<2.7	<5.4	<5.4	<27	<2.7	<27
	T3-4-5	T3-4-5-0.5		0.5	9/2/21	µg/kg	**7.0 J**	<0.77	<0.77	<0.77	<0.77	<1.5	<1.5	<7.7	<0.77	<7.7
		T3-4-5-2.5		2.5	9/2/21	µg/kg	**15 J**	<0.88	<0.88	<0.88	<0.88	<1.8	<1.8	<8.8	<0.88	<8.8
	T3-4-8	T3-4-8-0.5		0.5	9/2/21	µg/kg	**10 J**	<0.94	<0.94	<0.94	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4
25 (Units 3/4 Transformers)	T3-4-14	T3-4-14-0.5		0.5	9/1/21	µg/kg	<16	<0.80	<0.80	<0.80	<0.80	<1.6	<1.6	<8.0	<0.80	<8.0
	T3-4-15	T3-4-15-0.5		0.5	9/1/21	µg/kg	**7.6 J**	<0.84	<0.84	<0.84	<0.84	<1.7	<1.7	<8.4	<0.84	<8.4
		T3-4-15-2.5		2.5	9/1/21	µg/kg	**14 J**	<0.80	<0.80	<0.80	<0.80	<1.6	<1.6	<8.0	<0.80	<8.0
26 (Units 1/2 Transformers)	T1-2-13	T1-2-13-0.5		0.5	8/31/21	µg/kg	<17	<0.86	<0.86	<0.86	<0.86	<1.7	<1.7	<8.6	<0.86	<8.6
	T1-2-14	T1-2-14-0.5		0.5	8/31/21	µg/kg	<18	<0.92	<0.92	<0.92	<0.92	<1.8	<1.8	<9.2	<0.92	<9.2
	T1-2-15	T1-2-15-0.5		0.5	8/31/21	µg/kg	<17	<0.83	<0.83	<0.83	<0.83	<1.7	<1.7	<8.3	<0.83	<8.3
		T1-2-15-2.5		2.5	8/31/21	µg/kg	**6.6 J**	<0.83	<0.83	<0.83	<0.83	<1.7	<1.7	<8.3	<0.83	<8.3
	T1-2-16	T1-2-16-0.5		0.5	8/31/21	µg/kg	<17	<0.84	<0.84	<0.84	<0.84	<1.7	<1.7	<8.4	<0.84	<8.4
	T1-2-19	T1-2-19-0.5		0.5	8/30/21	µg/kg	<17	<0.86	<0.86	<0.86	<0.86	<1.7	<1.7	<8.6	<0.86	<8.6
	T1-2-22	T1-2-22-0.5		0.5	8/30/21	µg/kg	<19	<0.96	<0.96	<0.96	<0.96	<1.9	<1.9	<9.6	<0.96	<9.6
	T1-2-26	T1-2-26-2.5		2.5	8/30/21	µg/kg	<18	<0.89	<0.89	<0.89	<0.89	<1.8	<1.8	<8.9	<0.89	<8.9
	T1-2-32	T1-2-32-0.5		0.5	8/26/21	µg/kg	**10 J**	<0.84	<0.84	<0.84	<0.84	<1.7	<1.7	<8.4	<0.84	<8.4
36 (Former Haz Waste Area)	F36-1	F36-1-0.5		0.5	8/24/21	µg/kg	<17	<0.84	<0.84	<0.84	<0.84	<1.7	<1.7	<8.4	<0.84	<8.4
		F36-1-2.5		2.5	8/24/21	µg/kg	<18	<0.91	<0.91	<0.91	<0.91	<1.8	<1.8	<9.1	<0.91	<9.1
	F36-2	F36-2-0.5		0.5	8/24/21	µg/kg	<17	<0.85	<0.85	<0.85	<0.85	<1.7	<1.7	<8.5	<0.85	<8.5
		F36-2-2.5		2.5	8/24/21	µg/kg	<17	<0.85	<0.85	<0.85	<0.85	<1.7	<1.7	<8.5	<0.85	<8.5
	F36-3	F36-3-0.5		0.5	8/25/21	µg/kg	<18	<0.89	<0.89	<0.89	<0.89	<1.8	<1.8	<8.9	<0.89	<8.9
		F36-3-2.5		2.5	8/25/21	µg/kg	<18	<0.92	<0.92	<0.92	<0.92	<1.8	<1.8	<9.2	<0.92	<9.2
Equipment Rinsate Blanks																
--	--	EB-B-082321		--	8/23/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-A-082421		--	8/24/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-B-082521		--	8/25/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-A-082721		--	8/27/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-B-082721		--	8/27/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-B-083021		--	8/30/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-A-083121		--	8/31/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-B-083121		--	8/31/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-A1-090121		--	9/1/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-B-090121		--	9/1/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-A2-090221		--	9/2/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-A-010322		--	1/3/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-020822		--	2/8/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-021122		--	2/11/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260									
							tert-Butyl alcohol (TBA)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Vinylacetate
EPA RSL Industrial (May 2023)							6,500,000	120,000,000	100,000	47,000,000	300,000	--	6,000	350,000,000	1,700	3,800,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	2,700	--	--	--	--	--	150	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	12,000,000	390,000	5,300,000	600,000	--	--	5,400,000	370,000	--
Trip Blanks																
--	--	TB-A-082321		--	8/23/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-B-082321		--	8/23/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-A-082421		--	8/24/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-B-082421		--	8/24/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-A-082521		--	8/25/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-B-082521		--	8/25/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-A-082621		--	8/26/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-B-082621		--	8/26/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-B-082721		--	8/27/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-A-083021		--	8/30/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-B-083021		--	8/30/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-A-083121		--	8/31/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-B-083121		--	8/31/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-A-090121		--	9/1/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-B-090121		--	9/1/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-A-090221		--	9/2/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-B-090221		--	9/2/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-A-091021		--	9/10/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-091522		--	9/15/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-A-101421		--	10/14/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-110521		--	11/5/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-A-010322		--	1/3/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-020822		--	2/8/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-021122		--	2/11/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
Field Blanks																
--	--	FB-EA182-082321		--	8/23/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-EA182-082421		--	8/24/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-DZ609-082521		--	8/25/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-DZ609-082621		--	8/26/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-DZ609-082721		--	8/27/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-D2609-083021		--	8/30/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-DZ609-083121		--	8/31/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-DZ609-090121		--	9/1/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-EA-182-090221		--	9/2/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-DX348-091021		--	9/10/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-091522		--	9/15/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-EB152-091621		--	9/16/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-EB152-101421		--	10/14/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-EB152-101521		--	10/15/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-EB152-110521		--	11/5/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-EB152-010322		--	1/3/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260									
							tert-Butyl alcohol (TBA)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Vinylacetate
EPA RSL Industrial (May 2023)							6,500,000	120,000,000	100,000	47,000,000	300,000	--	6,000	350,000,000	1,700	3,800,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	2,700	--	--	--	--	--	150	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	12,000,000	390,000	5,300,000	600,000	--	--	5,400,000	370,000	--
--	--	FB-A-010422		--	1/4/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-A-010522		--	1/5/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-D2838-020822		--	2/8/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-D2838-021122		--	2/11/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
Potable Water Sample (Drilling Rig Tank Water)																
--	--	RW-010322		--	1/3/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10

NOTES:

17	**Bold** value is reported concentration above the laboratory Method Detection Limit (MDL).
<0.84	Denotes analyte not detected above the posted Reporting Limit (RL)
J	Concentration is below the RL but above the MDL so the result represents an estimated value
B	Compound was detected in the laboratory method blank and the sample
NA	Not analyzed or No Published Value
µg/kg	Micrograms per kilogram
µg/L	Micrograms per liter
Dup	Field duplicate samples are identified in this column with an "X"
EPA RSL	United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for commercial/industrial land use (Updated May 2023)
DTSC-SLs	Department of Toxic Substances Control (DTSC)-modified screening levels for commercial/industrial land use (Updated May 2022)

Table 4
RFI Soil Sample Analytical Results - Semi Volatile Organic Compounds (SVOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8270C																		
							1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	3 & 4 Methylphenol
EPA RSL Industrial (May 2023)							110	9,300	--	11	73	82,000	210	2,500	16,000	1,600	7.4	--	1.5	60,000	5,800	3,000	41,000	8,000	--	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							35	--	--	--	30	--	21	--	--	--	4.7	--	0.99	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							260	--	--	--	22,000	53,000	530	1,600	11,000	1,100	1,000	--	160	27,000	3,900	1,300	26,000	5,200	--	--
RFI Sample Results																									
11 (Chadwick Channel)	F11-1	F11-1-0.5		0.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
		F11-101-0.5	X	0.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.98
		F11-1-2.5		2.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.99
	F11-10	F11-10-0.5		0.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.98
		F11-110-0.5	X	0.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.98
		F11-10-2.5		2.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
	F11-2A	F11-2A-0.5		0.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
		F11-2A-2.5		2.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.98
	F11-2B	F11-2B-0.5		0.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
		F11-2B-2.5		2.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
	F11-3	F11-3-0.5		0.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
		F11-3-2.5		2.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.98
	F11-4	F11-4-0.5		0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
		F11-4-2.5		2.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
	F11-5	F11-105-0.5	X	0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
		F11-5-0.5		0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
		F11-5-2.5		2.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
	F11-6	F11-6-0.5		0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
		F11-6-2.5		2.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
	F11-7	F11-7-0.5		0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
		F11-7-2.5		2.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
	F11-8	F11-8-0.5		0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
		F11-8-2.5		2.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
	F11-9	F11-9-0.5		0.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
Equipment Rinsate Blanks																									
--	--	EB-B-083121		--	08/31/21	µg/L	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<48	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7
--	--	EB-B-090121		--	09/01/21	µg/L	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<48	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6

NOTES:

<0.50	Denotes analyte not detected above the posted Reporting Limit (RL)
--	Not Aanalyzed, No Published Value, or Not Applicable
mg/kg	Milligrams per kilogram
µg/L	micrograms per liter
Dup	Field duplicate samples are identified in this column with an "X"
EPA RSL	United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for commercial/industrial land use (Updated May 2023)
DTSC-SLs	Department of Toxic Substances Control (DTSC)-modified screening levels for commercial/industrial land use (Updated May 2022)

Table 4
RFI Soil Sample Analytical Results - Semi Volatile Organic Compounds (SVOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8270C																		
							3,3'-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Aniline	Anthracene	Azobenzene	Benzidine	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene
EPA RSL Industrial (May 2023)							5.1	--	66	--	82,000	11	--	110	--	45,000	--	400	230,000	26	0.01	21	2.1	21	--	210
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							1.2	--	--	--	--	7.4	--	74	--	--	--	260	--	--	0.003	12	1.3	13	--	130
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	--	42	--	53,000	2,100	--	2,100	--	23,000	--	3,700	130,000	--	1,600	--	130	--	--	--
RFI Sample Results																									
11 (Chadwick Channel)	F11-1	F11-1-0.5		0.5	08/26/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
		F11-101-0.5	X	0.5	08/26/21	mg/kg	<2.5	<0.49	<2.5	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<4.9	<0.49	<0.49	<0.49	<0.49	<0.49
		F11-1-2.5		2.5	08/26/21	mg/kg	<2.5	<0.49	<2.5	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<4.9	<0.49	<0.49	<0.49	<0.49	<0.49
	F11-10	F11-10-0.5		0.5	08/26/21	mg/kg	<2.4	<0.49	<2.4	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<4.9	<0.49	<0.49	<0.49	<0.49	<0.49
		F11-110-0.5	X	0.5	08/26/21	mg/kg	<2.5	<0.49	<2.5	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<4.9	<0.49	<0.49	<0.49	<0.49	<0.49
		F11-10-2.5		2.5	08/26/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	F11-2A	F11-2A-0.5		0.5	08/26/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
		F11-2A-2.5		2.5	08/26/21	mg/kg	<2.4	<0.49	<2.4	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<4.9	<0.49	<0.49	<0.49	<0.49	<0.49
	F11-2B	F11-2B-0.5		0.5	08/26/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
		F11-2B-2.5		2.5	08/26/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	F11-3	F11-3-0.5		0.5	08/26/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
		F11-3-2.5		2.5	08/26/21	mg/kg	<2.4	<0.49	<2.4	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<4.9	<0.49	<0.49	<0.49	<0.49	<0.49
	F11-4	F11-4-0.5		0.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
		F11-4-2.5		2.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	F11-5	F11-105-0.5	X	0.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
		F11-5-0.5		0.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
		F11-5-2.5		2.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	F11-6	F11-6-0.5		0.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
		F11-6-2.5		2.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	F11-7	F11-7-0.5		0.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
		F11-7-2.5		2.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	F11-8	F11-8-0.5		0.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
		F11-8-2.5		2.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	F11-9	F11-9-0.5		0.5	08/26/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
Equipment Rinsate Blanks																									
--	--	EB-B-083121		--	08/31/21	µg/L	<24	<9.7	<48	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<48	<9.7	<9.7	<9.7	<9.7	<9.7
--	--	EB-B-090121		--	09/01/21	µg/L	<24	<9.6	<48	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<48	<9.6	<9.6	<9.6	<9.6	<9.6

NOTES:

<0.50	Denotes analyte not detected above the posted Reporting Limit (RL)
--	Not Aanalyzed, No Published Value, or Not Applicable
mg/kg	Milligrams per kilogram
µg/L	micrograms per liter
Dup	Field duplicate samples are identified in this column with an "X"
EPA RSL	United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for commercial/industrial land use (Updated May 2023)
DTSC-SLs	Department of Toxic Substances Control (DTSC)-modified screening levels for commercial/industrial land use (Updated May 2022)

Table 4
RFI Soil Sample Analytical Results - Semi Volatile Organic Compounds (SVOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8270C																			
							Benzoic acid	Benzyl alcohol	bis (2-chloroisopropyl) ether	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Diethylphthalate	Dimethyl phthalate	Di-N-Butyl phthalate	Di-N-Octyl phthalate	Fluoranthene	Fluorene	Hexachloro-1,3-butadiene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane
EPA RSL Industrial (May 2023)							3,300,000	82,000	47,000	2,500	1	160	1,200	2,100	2.1	1,200	660,000	--	82,000	8,200	30,000	30,000	5.3	0.96	7.5	8
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	--	--	0.47	110	780	1,300	0.31	--	--	--	--	--	--	--	5.3	0.86	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							2,100,000	53,000	16,000	1,600	--	11,000	110,000	--	--	650	420,000	--	53,000	5,300	18,000	17,000	160	470	--	--
RFI Sample Results																										
11 (Chadwick Channel)	F11-1	F11-1-0.5		0.5	08/26/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
		F11-101-0.5	X	0.5	08/26/21	mg/kg	<2.5	<0.49	<0.49	<0.49	<2.5	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<1.5	<0.49
		F11-1-2.5		2.5	08/26/21	mg/kg	<2.5	<0.49	<0.49	<0.49	<2.5	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<1.5	<0.49
	F11-10	F11-10-0.5		0.5	08/26/21	mg/kg	<2.4	<0.49	<0.49	<0.49	<2.4	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<1.5	<0.49
		F11-110-0.5	X	0.5	08/26/21	mg/kg	<2.5	<0.49	<0.49	<0.49	<2.5	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<1.5	<0.49
		F11-10-2.5		2.5	08/26/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
	F11-2A	F11-2A-0.5		0.5	08/26/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	**0.29 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
		F11-2A-2.5		2.5	08/26/21	mg/kg	<2.4	<0.49	<0.49	<0.49	<2.4	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<1.5	<0.49
	F11-2B	F11-2B-0.5		0.5	08/26/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
		F11-2B-2.5		2.5	08/26/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
	F11-3	F11-3-0.5		0.5	08/26/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
		F11-3-2.5		2.5	08/26/21	mg/kg	<2.4	<0.49	<0.49	<0.49	<2.4	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<1.5	<0.49
	F11-4	F11-4-0.5		0.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
		F11-4-2.5		2.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
	F11-5	F11-105-0.5	X	0.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
		F11-5-0.5		0.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
		F11-5-2.5		2.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
	F11-6	F11-6-0.5		0.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
		F11-6-2.5		2.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
	F11-7	F11-7-0.5		0.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
		F11-7-2.5		2.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
	F11-8	F11-8-0.5		0.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
		F11-8-2.5		2.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
	F11-9	F11-9-0.5		0.5	08/26/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
Equipment Rinsate Blanks																										
--	--	EB-B-083121		--	08/31/21	µg/L	<48	<9.7	<9.7	<9.7	<24	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<24	<9.7
--	--	EB-B-090121		--	09/01/21	µg/L	<48	<9.6	<9.6	<9.6	<24	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<24	<9.6

NOTES:

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mg/kg	Milligrams per kilogram
µg/L	micrograms per liter
Dup	Field duplicate samples are identified in this column with an "X"
EPA RSL	United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for commercial/industrial land use (Updated May 2023)
DTSC-SLs	Department of Toxic Substances Control (DTSC)-modified screening levels for commercial/industrial land use (Updated May 2022)

Table 4
RFI Soil Sample Analytical Results - Semi Volatile Organic Compounds (SVOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8270C											
							Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene	N-Nitrosodimethylamine	N-Nitroso-di-N-propylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
EPA RSL Industrial (May 2023)							21	2,400	8.6	22	0.034	0.33	470	4	--	250,000	23,000	1,200
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							13	1,600	6.5	--	--	0.21	300	2	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	110,000	570	--	--	--	--	1,500	--	160,000	13,000	530
RFI Sample Results																		
11 (Chadwick Channel)	F11-1	F11-1-0.5		0.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		F11-101-0.5	X	0.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<2.5	<0.49	<0.49	<0.49	<0.49
		F11-1-2.5		2.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<2.5	<0.49	<0.49	<0.49	<0.49
	F11-10	F11-10-0.5		0.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<2.4	<0.49	<0.49	<0.49	<0.49
		F11-110-0.5	X	0.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<2.5	<0.49	<0.49	<0.49	<0.49
		F11-10-2.5		2.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
	F11-2A	F11-2A-0.5		0.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		F11-2A-2.5		2.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<2.4	<0.49	<0.49	<0.49	<0.49
	F11-2B	F11-2B-0.5		0.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		F11-2B-2.5		2.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
	F11-3	F11-3-0.5		0.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		F11-3-2.5		2.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<2.4	<0.49	<0.49	<0.49	<0.49
	F11-4	F11-4-0.5		0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		F11-4-2.5		2.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
	F11-5	F11-105-0.5	X	0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		F11-5-0.5		0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		F11-5-2.5		2.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
	F11-6	F11-6-0.5		0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		F11-6-2.5		2.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
	F11-7	F11-7-0.5		0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		F11-7-2.5		2.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
	F11-8	F11-8-0.5		0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		F11-8-2.5		2.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
	F11-9	F11-9-0.5		0.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
Equipment Rinsate Blanks																		
--	--	EB-B-083121		--	08/31/21	µg/L	<9.7	<9.7	<9.7	<24	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7
--	--	EB-B-090121		--	09/01/21	µg/L	<9.6	<9.6	<9.6	<24	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6

NOTES:

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mg/kg	Milligrams per kilogram
µg/L	micrograms per liter
Dup	Field duplicate samples are identified in this column with an "X"
EPA RSL	United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for commercial/industrial land use (Updated May 2023)
DTSC-SLs	Department of Toxic Substances Control (DTSC)-modified screening levels for commercial/industrial land use (Updated May 2022)

Table 5
RFI Soil Sample Analytical Results - Metals and pH

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 6020/7471A																EPA Method 9045C	
							Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury	Laboratory pH (s.u.)	Temperature (Deg C)
EPA RSL Industrial (May 2023)							470	3	220000	2300	100		350	47000	800	5800	22000	5800	5800	12	5800	350000	46	--	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	0.36	--	6900	--	--	--	--	--	--	64000	--	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	4.2	--	230	--	--	--	--	500	--	11000	--	--	--	--	--	4.4	--	--
DTSC Southern California Ambient Arsenic Screening Level (1)							--	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI Sample Results																									
5 (Fueling Station)	F5-1	F5-1-2.5		2.5	08/27/21	mg/kg	--	--	--	--	--	--	--	--	18.7	--	--	--	--	--	--	--	--	--	--
		F5-1-5		5	08/27/21	mg/kg	--	--	--	--	--	--	--	--	16.1	--	--	--	--	--	--	--	--	--	--
	F5-2	F5-2-2.5		2.5	08/27/21	mg/kg	--	--	--	--	--	--	--	--	16.9	--	--	--	--	--	--	--	--	--	--
		F5-2-5		5	08/27/21	mg/kg	--	--	--	--	--	--	--	--	15.2	--	--	--	--	--	--	--	--	--	--
14 (Haz Waste Accumulation Area)	F14-1	F14-1-0.5		0.5	08/25/21	mg/kg	<2.05	<1.03	**98.3**	<1.03	<1.03	**3.38**	**3.11**	**3.94**	**3.20**	<1.03	**3.57**	<1.03	<1.03	<1.03	**12.8**	**26.7**	**0.0230 J**	--	--
		F14-1-2.5		2.5	08/25/21	mg/kg	<1.91	<0.957	**47.6**	<0.957	<0.957	**1.54 J**	**1.52**	**2.02**	**1.64**	<0.957	**1.93**	<0.957	<0.957	<0.957	**6.64**	**13.3**	<0.0833	--	--
17 (Maintenance Shop)	MS-10	MS-10-0.5		0.5	08/25/21	mg/kg	<1.97	**0.348 J**	**61.5**	<0.985	<0.985	**4.76**	**3.34**	**4.16**	**4.37**	<0.985	**2.81**	<0.985	<0.985	<0.985	**12.5**	**24.0**	<0.0820	--	--
		MS-10-2.5		2.5	08/25/21	mg/kg	<2.11	<1.05	**114**	<1.05	<1.05	**5.22**	**3.69**	**4.09**	**2.44**	<1.05	**3.81**	<1.05	<1.05	<1.05	**11.6**	**26.7**	<0.0833	--	--
		MS-10-5		5	08/25/21	mg/kg	<1.90	<0.952	**142**	<0.952	<0.952	**6.68**	**4.44**	**5.01**	**3.44**	<0.952	**4.69**	<0.952	<0.952	<0.952	**14.4**	**32.7**	<0.0877	--	--
	MS-12	MS-12-0.5		0.5	08/25/21	mg/kg	<2.05	<1.03	**37.9**	<1.03	<1.03	**2.59**	**2.12**	**2.48**	**3.07**	<1.03	**1.55**	<1.03	<1.03	<1.03	**7.29**	**14.0**	<0.0820	--	--
		MS-12-2.5		2.5	08/25/21	mg/kg	<2.01	**0.343 J**	**56.0**	<1.01	<1.01	**3.58**	**2.76**	**3.56**	**3.96**	<1.01	**2.33**	<1.01	<1.01	<1.01	**10.1**	**19.2**	<0.0806	--	--
		MS-12-5		5	08/25/21	mg/kg	<1.92	**0.425 J**	**58.1**	<0.962	<0.962	**4.40**	**3.10**	**3.79**	**4.17**	<0.962	**2.53**	<0.962	<0.962	<0.962	**10.8**	**22.3**	<0.0847	--	--
	MS-14	MS-14-0.5		0.5	08/25/21	mg/kg	<2.06	<1.03	**120**	<1.03	<1.03	**6.62**	**4.58**	**4.99**	**3.09**	<1.03	**4.49**	<1.03	<1.03	<1.03	**14.7**	**33.6**	**0.0224 J**	--	--
		MS-14-2.5		2.5	08/25/21	mg/kg	<1.91	<0.957	**127**	<0.957	<0.957	**5.54**	**3.81**	**4.37**	**2.94**	<0.957	**3.92**	<0.957	<0.957	<0.957	**11.2**	**28.1**	<0.0862	--	--
		MS-14-5		5	08/25/21	mg/kg	<2.00	**0.382 J**	**94.8**	<1.00	<1.00	**5.90**	**3.72**	**8.44**	**10.2**	<1.00	**16.2**	<1.00	<1.00	<1.00	**32.0**	**36.0**	<0.0820	--	--
	MS-16	MS-116-0.5	X	0.5	08/24/21	mg/kg	<1.99	**0.376 J**	**56.5**	<0.995	**0.739 J**	**5.09**	**3.55**	**5.89**	**2.08**	<0.995	**17.7**	<0.995	<0.995	<0.995	**13.5**	**42.0**	**0.0182 J B**	--	--
		MS-16-0.5		0.5	08/24/21	mg/kg	<2.01	<1.01	**56.3**	<1.01	**0.710 J**	**3.94**	**3.41**	**4.92**	**1.97**	<1.01	**18.0**	<1.01	<1.01	<1.01	**11.6**	**37.8**	**0.0324 J B**	--	--
		MS-16-2.5		2.5	08/24/21	mg/kg	<1.93	**0.432 J**	**59.5**	**0.209 J**	**0.848 J**	**4.96**	**4.04**	**6.16**	**2.15**	<0.966	**22.3**	<0.966	<0.966	<0.966	**14.1**	**46.7**	**0.0197 J B**	--	--
		MS-16-5		5	08/24/21	mg/kg	<2.06	<1.03	**51.8**	<1.03	**0.707 J**	**4.00**	**3.08**	**4.69**	**1.86**	<1.03	**14.8**	<1.03	<1.03	<1.03	**11.3**	**32.2**	**0.0262 J B**	--	--
	MS-17	MS-17-0.5		0.5	08/24/21	mg/kg	<2.00	<1.00	**43.5**	<1.00	<1.00	**3.84**	**2.60**	**3.42**	**1.52**	<1.00	**8.13**	<1.00	<1.00	<1.00	**10.4**	**20.9**	**0.0970 B**	--	--
		MS-17-2.5		2.5	08/24/21	mg/kg	<2.11	**0.394 J**	**50.8**	<1.05	**0.842 J**	**4.13**	**4.05**	**6.69**	**2.03**	<1.05	**28.0**	<1.05	<1.05	<1.05	**13.0**	**58.9**	**0.176 B**	--	--
		MS-17-5		5	08/24/21	mg/kg	<1.95	<0.976	**62.0**	**0.209 J**	**1.06**	**5.14**	**4.92**	**8.03**	**2.46**	<0.976	**31.9**	<0.976	<0.976	<0.976	**15.0**	**67.5**	**0.0257 J B**	--	--
	SS-4	SS-4-0.5		0.5	08/24/21	mg/kg	<2.00	<1.00	**59.5**	<1.00	**0.954 J**	**4.75**	**4.48**	**6.45**	**2.11**	<1.00	**27.6**	<1.00	<1.00	<1.00	**14.3**	**58.1**	**0.0210 J B**	--	--
		SS-4-2.5		2.5	08/24/21	mg/kg	<2.11	<1.05	**60.1**	<1.05	**0.956 J**	**4.02**	**3.82**	**6.70**	**2.24**	<1.05	**25.5**	<1.05	<1.05	<1.05	**11.7**	**50.3**	**0.180 B**	--	--
		SS-4-5		5	08/24/21	mg/kg	<1.99	<0.995	**62.1**	<0.995	**1.08**	**4.24**	**4.47**	**8.00**	**2.27**	<0.995	**31.9**	<0.995	<0.995	<0.995	**13.2**	**66.0**	**0.0213 J B**	--	--
	SS-5	SS-105-0.5	X	0.5	08/24/21	mg/kg	<2.01	**0.357 J**	**50.9**	<1.01	**0.737 J**	**4.31**	**3.45**	**5.81**	**1.91**	<1.01	**21.4**	<1.01	<1.01	<1.01	**13.1**	**45.1**	**0.0267 J B**	--	--
		SS-5-0.5		0.5	08/24/21	mg/kg	<2.07	<1.04	**44.8**	<1.04	**0.531 J**	**3.58**	**2.72**	**4.08**	**1.49**	<1.04	**13.9**	<1.04	<1.04	<1.04	**10.0**	**28.7**	**0.0308 J B**	--	--
		SS-5-2.5		2.5	08/24/21	mg/kg	<1.97	<0.985	**48.8**	<0.985	**0.761 J**	**3.70**	**3.49**	**5.99**	**1.93**	<0.985	**23.0**	<0.985	<0.985	<0.985	**11.4**	**47.1**	**0.135 B**	--	--
		SS-5-5		5	08/24/21	mg/kg	<1.94	<0.971	**47.3**	<0.971	**0.539 J**	**3.78**	**2.80**	**4.60**	**1.65**	<0.971	**13.5**	<0.971	<0.971	<0.971	**10.5**	**30.0**	**0.0221 J B**	--	--
	SS-10	SS-10-0.5		0.5	08/23/21	mg/kg	<1.94	**1.23**	**39.8**	<0.971	<0.971	**8.24**	**3.92**	**11.8**	**5.80**	**0.345 J**	**11.7**	<0.971	<0.971	<0.971	**21.0**	**23.7**	**0.0607 J**	--	--
		SS-10-2.5		2.5	08/23/21	mg/kg	<1.95	**0.458 J**	**54.0**	<0.976	<0.976	**5.01**	**2.96**	**3.88**	**4.56**	<0.976	**2.59**	<0.976	<0.976	<0.976	**12.0**	**22.9**	**0.0552 J**	--	--
		SS-10-5		5	08/23/21	mg/kg	<2.11	**0.570 J**	**58.1**	<1.05	<1.05	**5.84**	**3.12**	**4.25**	**4.57**	<1.05	**2.74**	<1.05	<1.05	<1.05	**13.2**	**25.3**	**0.0394 J**	--	--
	SS-11	SS-11-0.5		0.5	08/25/21	mg/kg	<2.05	**0.348 J**	**52.2**	<1.03	<1.03	**3.87**	**2.89**	**3.44**	**3.63**	<1.03	**2.13**	<1.03	<1.03	<1.03	**10.3**	**19.7**	<0.0794	--	--
		SS-11-2.5		2.5	08/25/21	mg/kg	<1.92	**0.375 J**	**52.1**	<0.962	<0.962	**3.75**	**2.79**	**3.23**	**3.75**	<0.962	**2.07**	<0.962	<0.962	<0.962	**10.2**	**18.7**	<0.0877	--	--
		SS-111-5	X	5	08/25/21	mg/kg	<1.98	<0.990	**31.1**	<0.990	<0.990	**2.26**	**1.64**	**2.12**	**2.56**	<0.990	**1.21**	<0.990	<0.990	<0.990	**6.31**	**11.9**	<0.0862	--	--
		SS-11-5		5	08/25/21	mg/kg	<2.03	**0.415 J**	**57.8**	<1.02	<1.02	**4.73**	**4.29**	**5.65**	**4.24**	<1.02	**3.18**	<1.02	<1.02	<1.02	**11.8**	**22.8**	<0.0833	--	--
	SS-12	SS-12-0.5		0.5	08/24/21	mg/kg	<1.94	<0.971	**67.2**	<0.971	<0.971	**2.89**	**2.94**	**2.71**	**1.54**	<0.971	**2.39**	<0.971	<0.971	<0.971	**10.4**	**21.2**	**0.222 B**	--	--
		SS-12-2.5		2.5	08/24/21	mg/kg	<2.08	**0.456 J**	**70.6**	<1.04	**0.681 J**	**6.25**	**4.17**	**5.79**	**2.46**	<1.04	**15.5**	<1.04	<1.04	<1.04	**16.4**	**38.4**	**0.102 B**	--	--
		SS-12-5		5	08/24/21	mg/kg	<1.94	<0.971	**60.3**	**0.224 J**	**0.714 J**	**4.67**	**3.59**	**5.35**	**2.09**	<0.971	**16.6**	<0.971	<0.971	<0.971	**12.8**	**37.0**	**0.0371 J B**	--	--
24 (Sulfuric Acid Tank)	F24-1	F24-1-0.5		0.5	08/18/21	mg/kg	<2.08	**0.350 J**	**78.1**	<1.04	<1.04	**11.8**	**3.30**	**16.9**	**2.72**	<1.04	**6.19**	<1.04	<1.04	<1.04	**22.3**	**49.2**	<0.0862	--	--
		F24-101-0.5	X	0.5	08/18/21	mg/kg	<1.93	<0.966	**63.8**	<0.966	<0.966	**8.92**	**2.98**	**14.2**	**2.21**	<0.966	**5.97**	<0.966	<0.966	<0.966	**15.7**	**45.1**	**0.0136 J**	--	--
		F24-1-2.5		2.5	08/18/21	mg/kg	<2.01	**0.526 J**	**98.5**	**0.329 J**	<1.01	**11.2**	**5.39**	**9.69**	**2.99**	<1.01	**11.1**	<1.01	<1.01	<1.01	**22.9**	**72.8**	<0.0877	--	--
	F24-2	F24-2-0.5		0.5	08/25/21	mg/kg	<2.01	**0.504 J**	**37.4**	<1.01	<1.01	**4.72**	**2.24**	**4.29**	**3.13**	<1.01	**3.54**	<1.01	<1.01	<1.01	**8.92**	**18.4**	<0.0847	--	--
		F24-2-2.5		2.5	08/25/21	mg/kg	<1.90	<0.952	**102**	<0.952	<0.952	**4.30**	**3.30**	**4.44**	**4.74**	<0.952	**5.13**	<0.952	<0.952	<0.952	**14.0**	**29.7**	<0.0820	--	--

Table 5
RFI Soil Sample Analytical Results - Metals and pH

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 6020/7471A																EPA Method 9045C	
							Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury	Laboratory pH (s.u.)	Temperature (Deg C)
EPA RSL Industrial (May 2023)							470	3	220000	2300	100		350	47000	800	5800	22000	5800	5800	12	5800	350000	46	--	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	0.36	--	6900	--	--	--	--	--	--	64000	--	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	4.2	--	230	--	--	--	--	500	--	11000	--	--	--	--	--	4.4	--	--
DTSC Southern California Ambient Arsenic Screening Level (1)							--	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27 (Acid Caustic Tanks Area)	FS-3	FS-3-0.5		0.5	08/25/21	mg/kg	<1.99	<0.995	**97.5**	<0.995	<0.995	**3.33**	**3.20**	**3.84**	**3.04**	<0.995	**3.69**	<0.995	<0.995	<0.995	**13.3**	**28.1**	<0.0877	**10.3**	**23.0**
		FS-103-2.5	X	2.5	08/25/21	mg/kg	<2.06	**0.606 J**	**42.4**	<1.03	<1.03	**5.73**	**2.71**	**5.13**	**3.58**	<1.03	**4.18**	<1.03	<1.03	<1.03	**10.2**	**20.5**	<0.0794	**9.7**	**22.8**
		FS-3-2.5		2.5	08/25/21	mg/kg	<2.11	<1.05	**97.4**	<1.05	<1.05	**3.50**	**3.14**	**3.90**	**3.28**	<1.05	**4.08**	<1.05	<1.05	<1.05	**13.7**	**27.8**	<0.0847	**10.1**	**22.8**
35 (Sodium Hypochlorite Tank)	F35-1	F35-1-0.5		0.5	08/18/21	mg/kg	<1.90	<0.952	**84.0**	<0.952	<0.952	**3.65**	**2.87**	**3.26**	**1.56**	<0.952	**2.59**	<0.952	<0.952	<0.952	**11.4**	**26.5**	<0.0794	**7.3**	**23.2**
		F35-1-2.5		2.5	08/18/21	mg/kg	<2.08	**0.538 J**	**88.3**	**0.245 J**	<1.04	**7.51**	**3.70**	**4.45**	**1.97**	<1.04	**3.90**	<1.04	<1.04	<1.04	**8.59**	**28.9**	<0.0847	**7.4**	**23.2**
	F35-2	F35-2-0.5		0.5	08/18/21	mg/kg	<1.99	**0.607 J**	**79.0**	<0.995	<0.995	**8.34**	**3.70**	**6.96**	**3.78**	<0.995	**4.96**	<0.995	<0.995	<0.995	**14.6**	**38.3**	<0.0820	--	--
		F35-2-2.5		2.5	08/18/21	mg/kg	<1.93	<0.966	**70.6**	<0.966	<0.966	**8.84**	**4.07**	**7.17**	**2.28**	<0.966	**5.17**	<0.966	<0.966	<0.966	**15.6**	**37.8**	<0.0794	--	--
	F35-3	F35-3-0.5		0.5	08/23/21	mg/kg	<2.08	**0.615 J**	**68.4**	<1.04	<1.04	**2.01 J**	**0.812 J**	**3.25**	**2.58**	<1.04	**0.930 J**	<1.04	<1.04	<1.04	**6.08**	<5.21	**0.0561 J**	--	--
		F35-3-2.5		2.5	08/23/21	mg/kg	<1.93	**0.761 J**	**47.5**	<0.966	<0.966	**7.26**	**2.30**	**7.03**	**1.86**	**0.323 J**	**3.55**	<0.966	<0.966	<0.966	**15.1**	**18.5**	**0.0369 J**	--	--
	MS-23C	MS-23C-0.5		0.5	01/03/22	mg/kg	<1.01	**4.17**	**83.7 B**	**0.268 J**	<0.503	**18.4**	**4.58**	**16.1**	**31.3**	**1.45**	**14.6**	**0.473 J**	<0.503	<0.503	**36.9**	**44.8**	<0.0806	**11.6**	**23.2**
		MS-23C-2.5		2.5	01/03/22	mg/kg	<0.990	**1.52**	**143 B**	**0.203 J**	<0.495	**10.9**	**5.01**	**9.43**	**4.48**	<0.990	**8.70**	**0.449 J**	<0.495	<0.495	**31.4**	**35.5**	<0.0847	**9.3**	**23.3**
36 (Former Haz Waste Area)	F36-1	F36-1-0.5		0.5	08/24/21	mg/kg	<1.97	<0.985	**64.3**	<0.985	<0.985	**7.20**	**3.47**	**6.86**	**4.61**	<0.985	**11.6**	<0.985	<0.985	<0.985	**19.8**	**29.0**	**0.0692 J**	--	--
		F36-1-2.5		2.5	08/24/21	mg/kg	<1.94	**0.668 J**	**87.5**	**0.267 J**	<0.971	**6.91**	**4.40**	**7.34**	**3.74**	<0.971	**4.04**	<0.971	<0.971	<0.971	**17.2**	**25.8**	**0.0368 J**	--	--
	F36-2	F36-2-0.5		0.5	08/24/21	mg/kg	<1.95	**0.531 J**	**75.1**	**0.216 J**	<0.976	**5.55**	**3.69**	**5.33**	**2.89**	<0.976	**3.32**	<0.976	<0.976	<0.976	**13.9**	**22.5**	**0.0353 J**	--	--
		F36-2-2.5		2.5	08/24/21	mg/kg	<1.93	**0.593 J**	**74.0**	**0.215 J**	<0.966	**5.50**	**3.46**	**4.10**	**2.67**	<0.966	**3.33**	<0.966	<0.966	<0.966	**13.9**	**20.7**	**0.0340 J**	--	--
	F36-3	F36-3-0.5		0.5	08/25/21	mg/kg	<1.93	<0.966	**114**	<0.966	<0.966	**5.08**	**3.36**	**4.21**	**3.72**	<0.966	**4.30**	<0.966	<0.966	<0.966	**14.2**	**29.3**	<0.0847	--	--
		F36-3-2.5		2.5	08/25/21	mg/kg	<2.08	<1.04	**98.2**	<1.04	<1.04	**3.11**	**3.05**	**3.90**	**9.28**	<1.04	**3.80**	<1.04	<1.04	<1.04	**12.7**	**26.7**	<0.0794	--	--
Equipment Rinsate Blanks																									
--		EB-A-082321		--	08/23/21	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.000500	--	--
--	--	EB-B-082321		--	08/23/21	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.000271 J**	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.00325 J**	<0.000500	--	--
--	--	EB-A-082421		--	08/24/21	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.000500	--	--
--	--	EB-A-082521		--	08/25/21	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.00660**	<0.000500	--	--
--	--	EB-B-082521		--	08/25/21	mg/L	<0.00100	<0.00100	**0.000543 J**	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.00800**	<0.000500	--	--
--	--	EB-B-083021		--	08/30/21	mg/L	--	--	--	--	--	--	--	--	<0.00100	--	--	--	--	--	--	--	--	--	--

NOTES:

	Concentration exceeds a regulatory screening level
1.23	**Bold** value is reported concentration above the laboratory Method Detection Limit (MDL).
<1.90	Denotes analyte not detected above the posted Reporting Limit (RL)
J	Concentration is below the RL but above the MDL so the result represents an estimated value
B	Analyte was detected in the method blank and sample
Deg C	Degrees Centigrade
--	Not analyzed or No Published Value
mg/kg	Milligrams per kilogram
mg/L	Milligrams per liter
s.u.	Standard units
Dup	Field duplicate samples are identified in this column with an "X"
EPA RSL	United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for commercial/industrial land use (Updated May 2023)
DTSC-SLs	Department of Toxic Substances Control (DTSC)-modified screening levels for commercial/industrial land use (Updated May 2022)
(1)	Selected screening level for arsenic in soil (DTSC Human Health Risk Assessment Note Number 11)

Table 6
RFI Soil Sample Analytical Results - Polychlorinated Biphenyls (PCBs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8082								
							Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
EPA RSL Industrial (May 2023)							27	0.83	0.72	0.95	0.94	0.97	0.99	--	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							17	0.53	0.49	0.58	0.58	0.59	0.6	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							29	--	--	--	--	8.4	--	--	--
6 (Unit 5 Peaker)	PT1-1	PT1-1-0		0	08/24/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		PT1-1-0.5		0.5	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.051**	**0.032 J**	<0.050	<0.050
		PT1-101-1	X	1	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.15**	**0.078**	<0.050	<0.050
		PT1-1-1		1	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.062**	**0.036 J**	<0.050	<0.050
	PT1-2	PT1-2-0		0	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		PT1-2-0.5		0.5	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.029 J**	<0.050	<0.050
		PT1-2-1		1	08/24/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	PT1-3	PT1-3-0		0	08/24/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**1.4**	**0.50**	<0.049	<0.049
		PT1-3-0.5		0.5	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**1.8**	**0.65**	<0.050	<0.050
		PT1-3-1		1	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**6.9**	**1.5**	<0.050	<0.050
		PT1-3-2.5		2.5	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.067**	**0.035 J**	<0.050	<0.050
	PT1-3E	PTI-3E-0		0	09/10/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.23**	<0.050	<0.050	<0.050
		PTI-3E-0.5		0.5	09/10/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.11**	<0.049	<0.049	<0.049
		PTI-3E-1		1	09/10/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	PT1-3S	PTI-3S-0		0	09/10/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.059**	<0.050	<0.050	<0.050
		PTI-3S-0.5		0.5	09/10/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.029 J**	<0.050	<0.050	<0.050
		PTI-3S-1		1	09/10/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.048 J**	<0.050	<0.050	<0.050
	PT1-4	PT1-4-0		0	08/24/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.21**	**0.17**	<0.049	<0.049
		PT1-4-0.5		0.5	08/24/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.12**	<0.049	<0.049
		PT1-104-1	X	1	08/24/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.33**	**0.19**	<0.049	<0.049
		PT1-4-1		1	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.93**	**0.33**	<0.050	<0.050
		PT1-4-2.5		2.5	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.030 J**	<0.050	<0.050	<0.050
	PT1-4E	PTI-4E-0		0	09/10/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.081**	<0.049	<0.049	<0.049
		PTI-4E-0.5		0.5	09/10/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.46**	<0.050	<0.050	<0.050
		PTI-4E-1		1	09/10/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.18**	<0.049	<0.049	<0.049
	PT1-4N	PTI-4N-0		0	09/10/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.031 J**	<0.050	<0.050	<0.050
		PTI-4N-0.5		0.5	09/10/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.027 J**	<0.050	<0.050	<0.050
		PTI-4N-1		1	09/10/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	PT2-1	PT2-1-0		0	08/23/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		PT2-1-0.5		0.5	08/23/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		PT2-1-1		1	08/23/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.075**	<0.049	<0.049	<0.049
	PT2-2	PT2-2-0		0	08/23/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.069**	<0.050	<0.050	<0.050
		PT2-2-0.5		0.5	08/23/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.035 J**	<0.050	<0.050	<0.050
		PT2-2-1		1	08/23/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Table 6
RFI Soil Sample Analytical Results - Polychlorinated Biphenyls (PCBs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8082								
							Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
EPA RSL Industrial (May 2023)							27	0.83	0.72	0.95	0.94	0.97	0.99	--	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							17	0.53	0.49	0.58	0.58	0.59	0.6	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							29	--	--	--	--	8.4	--	--	--
6 (Unit 5 Peaker)	PT2-3	PT2-3-0		0	08/23/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.042 J**	<0.050	<0.050	<0.050
		PT2-103-0.5	X	0.5	08/23/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.10**	<0.049	<0.049	<0.049
		PT2-3-0.5		0.5	08/23/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.070**	<0.049	<0.049	<0.049
		PT2-3-1		1	08/23/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.032 J**	<0.049	<0.049	<0.049
	PT2-4	PT2-4-0		0	08/23/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.058**	<0.050	<0.050	<0.050
		PT2-4-0.5		0.5	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.029 J**	<0.050	<0.050	<0.050
		PT2-4-1		1	08/24/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.032 J**	<0.049	<0.049	<0.049
11 (Chadwick Channel)	F11-1	F11-1-0.5		0.5	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	**0.24**	<0.050	<0.050	<0.050	<0.050
		F11-101-0.5	X	0.5	08/26/21	mg/kg	<0.049	<0.049	<0.049	<0.049	**0.18**	<0.049	<0.049	<0.049	<0.049
		F11-1-2.5		2.5	08/26/21	mg/kg	<0.049	<0.049	<0.049	<0.049	**0.046 J**	<0.049	<0.049	<0.049	<0.049
	F11-2A	F11-2A-0.5		0.5	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	**0.15**	<0.050	<0.050	<0.050	<0.050
		F11-2A-2.5		2.5	08/26/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	F11-2B	F11-2B-0.5		0.5	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F11-2B-2.5		2.5	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	F11-3	F11-3-0.5		0.5	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	**0.13**	<0.050	<0.050	<0.050	<0.050
		F11-3-2.5		2.5	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	F11-4	F11-4-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F11-4-2.5		2.5	08/31/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	F11-5	F11-105-0.5	X	0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F11-5-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F11-5-2.5		2.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	F11-6	F11-6-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F11-6-2.5		2.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	F11-7	F11-7-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.073**	<0.050	<0.050
		F11-7-2.5		2.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.10**	<0.050	<0.050
	F11-8	F11-8-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.042 J**
		F11-8-2.5		2.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	F11-9	F11-9-0.5		0.5	08/26/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	F11-10	F11-10-0.5		0.5	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	**0.050**	<0.050	<0.050	<0.050	<0.050
		F11-110-0.5	X	0.5	08/26/21	mg/kg	<0.049	<0.049	<0.049	<0.049	**0.055**	<0.049	<0.049	<0.049	<0.049
		F11-10-2.5		2.5	08/26/21	mg/kg	<0.049	<0.049	<0.049	<0.049	**0.055**	<0.049	<0.049	<0.049	<0.049
14 (Haz Waste Accumulation Area)	F14-1	F14-1-0		0	08/25/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		F14-1-0.5		0.5	08/25/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.026 J**	<0.049	<0.049	<0.049
		F14-101-1	X	1	08/25/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.17**	**0.063**	<0.050	<0.050
		F14-1-1		1	08/25/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.12**	**0.055**	<0.050	<0.050

Table 6
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AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8082								
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DTSC-SLs Commercial/Industrial - Cancer (May 2022)							17	0.53	0.49	0.58	0.58	0.59	0.6	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							29	--	--	--	--	8.4	--	--	--
21 (Cooling Tower Makeup Water Pond)	F21-T1-1	F21-T1-1-0		0	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F21-T1-1-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F21-T1-1-1		1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	F21-T1-2	F21-T1-2-0		0	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.036 J**	<0.050	<0.050
		F21-T1-2-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F21-T1-102-1	X	1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F21-T1-2-1		1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.027 J**	<0.050	<0.050
	F21-T2-1	F21-T2-1-0		0	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F21-T2-1-0.5		0.5	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F21-T2-1-1		1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	F21-T2-2	F21-T2-2-0		0	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.049 J**	<0.050	<0.050
		F21-T2-2-0.5		0.5	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F21-T2-2-1		1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
25 (Units 3 & 4 Transformers)	T3-4-1	T3-4-1-0		0	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.21**	**0.15**	<0.050	<0.050
		T3-4-1-0.5		0.5	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-1-1		1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.062**	**0.076**	<0.050	<0.050
	T3-4-2	T3-4-2-0		0	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**1.7**	<0.050	<0.050	<0.050
		T3-4-2-0.5		0.5	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.10**	**0.13**	<0.050	<0.050
		T3-4-102-1	X	1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.24**	<0.050	<0.050	<0.050
		T3-4-2-1		1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.61**	<0.050	<0.050	<0.050
		T3-4-2-2.5		2.5	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-2NE	T3-4-2NE-0		0	09/16/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.043 J**	<0.049	<0.049
		T3-4-2NE-1		1	09/16/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-2NW	T3-4-2NW-0		0	09/16/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T3-4-2NW-1		1	09/16/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-3	T3-4-3-0		0	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.038 J**	<0.050	<0.050
		T3-4-3-0.5		0.5	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.038 J**	<0.050	<0.050
		T3-4-3-1		1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.029 J**	<0.050	<0.050
	T3-4-4	T3-4-4-0		0	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-4-0.5		0.5	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.027 J**	<0.050	<0.050
		T3-4-4-1		1	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-5	T3-4-105-0	X	0	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.052**	<0.050	<0.050
		T3-4-5-0		0	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.12**	<0.050	<0.050
		T3-4-5-0.5		0.5	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.064**	<0.050	<0.050
		T3-4-5-1		1	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.048 J**	<0.050	<0.050

Table 6
RFI Soil Sample Analytical Results - Polychlorinated Biphenyls (PCBs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8082								
							Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
EPA RSL Industrial (May 2023)							27	0.83	0.72	0.95	0.94	0.97	0.99	--	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							17	0.53	0.49	0.58	0.58	0.59	0.6	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							29	--	--	--	--	8.4	--	--	--
25 (Units 3 & 4 Transformers)	T3-4-6	T3-4-6-0		0	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-6-0.5		0.5	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-6-1		1	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-7	T3-4-7-0		0	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.17**	<0.050	<0.050
		T3-4-7-0.5		0.5	09/02/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T3-4-7-1		1	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-8	T3-4-8-0		0	09/02/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.069**	<0.049	<0.049
		T3-4-8-0.5		0.5	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.11**	<0.050	<0.050
		T3-4-108-1	X	1	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.087**	<0.050	<0.050
		T3-4-8-1		1	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.047 J**	<0.050	<0.050
	T3-4-9	T3-4-9-0		0	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-9-0.5		0.5	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-9-1		1	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-10	T3-4-10-0		0	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-10-0.5		0.5	09/02/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.23**
		T3-4-10-1		1	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.027 J**	<0.050	<0.050
	T3-4-11	T3-4-11-0		0	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-11-0.5		0.5	09/02/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T3-4-11-1		1	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-12	T3-4-112-0	X	0	09/02/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T3-4-12-0		0	09/02/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T3-4-12-0.5		0.5	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-12-1		1	09/02/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	T3-4-13	T3-4-13-0		0	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.027 J**	<0.050	<0.050	<0.050
		T3-4-13-0.5		0.5	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-13-1		1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-14	T3-4-14-0		0	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.062**	<0.050	<0.050	<0.050
		T3-4-14-0.5		0.5	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-114-1	X	1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-14-1		1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-15	T3-4-15-0		0	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.098**	**0.085**	<0.050	<0.050
		T3-4-15-0.5		0.5	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.14**	<0.050	<0.050
		T3-4-15-1		1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.051**	**0.089**	<0.050	<0.050
	T3-4-16	T3-4-16-0		0	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-16-1		1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Table 6
RFI Soil Sample Analytical Results - Polychlorinated Biphenyls (PCBs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8082								
							Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
EPA RSL Industrial (May 2023)							27	0.83	0.72	0.95	0.94	0.97	0.99	--	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							17	0.53	0.49	0.58	0.58	0.59	0.6	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							29	--	--	--	--	8.4	--	--	--
26 (Units 1 & 2 Transformers)	T1-2-1	T1-2-1-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.027 J**	<0.050	<0.050
		T1-2-101-0	X	0	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T1-2-1-0.5		0.5	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T1-2-1-1		1	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	T1-2-2	T1-2-2-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.050**	<0.050	<0.050
		T1-2-2-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.050**	<0.050	<0.050
		T1-2-2-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.048 J**	<0.050	<0.050
	T1-2-3	T1-2-3-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-3-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-3-1		1	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	T1-2-4	T1-2-4-0		0	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.084**	<0.049	<0.049
		T1-2-4-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-104-1	X	1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-4-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.026 J**	<0.050	<0.050
	T1-2-5	T1-2-5-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-5-0.5		0.5	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T1-2-5-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.032 J**	<0.050	<0.050
	T1-2-6	T1-2-106-0	X	0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-6-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.038 J**	<0.050	<0.050
		T1-2-6-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-6-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-7	T1-2-7-0		0	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.044 J**	<0.049	<0.049
		T1-2-7-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-7-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-8	T1-2-8-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-8-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-108-1	X	1	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T1-2-8-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-9	T1-2-9-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.046 J**	<0.050	<0.050
		T1-2-9-0.5		0.5	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T1-2-9-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.030 J**	<0.050	<0.050
	T1-2-10	T1-2-10-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.16**	<0.050	<0.050
		T1-2-10-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-10-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-11	T1-2-11-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.045 J**	<0.050	<0.050
		T1-2-111-0	X	0	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T1-2-11-0.5		0.5	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T1-2-11-1		1	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049

Table 6
RFI Soil Sample Analytical Results - Polychlorinated Biphenyls (PCBs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8082								
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EPA RSL Industrial (May 2023)							27	0.83	0.72	0.95	0.94	0.97	0.99	--	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							17	0.53	0.49	0.58	0.58	0.59	0.6	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							29	--	--	--	--	8.4	--	--	--
26 (Units 1 & 2 Transformers)	T1-2-12	T1-2-12-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-12-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-12-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-13	T1-2-13-0		0	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.056**	<0.050	<0.050
		T1-2-13-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.054**	<0.050	<0.050
		T1-2-113-1	X	1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.045 J**	<0.050	<0.050
		T1-2-13-1		1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.029 J**	<0.050	<0.050
	T1-2-14	T1-2-14-0		0	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.081**	<0.050	<0.050
		T1-2-14-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.070**	<0.050	<0.050
		T1-2-14-1		1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-15	T1-2-15-0		0	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.031 J**	<0.050	<0.050
		T1-2-15-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.038 J**	<0.050	<0.050
		T1-2-15-1		1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.065**	<0.050	<0.050
	T1-2-16	T1-2-116-0	X	0	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.063**	<0.050	<0.050
		T1-2-16-0		0	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.058**	<0.050	<0.050
		T1-2-16-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.11**	<0.050	<0.050
		T1-2-16-1		1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.063**	<0.050	<0.050
	T1-2-17	T1-2-17-0		0	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.085**	<0.050	<0.050
		T1-2-17-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.026 J**	<0.050	<0.050
		T1-2-17-1		1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.053**	<0.050	<0.050
	T1-2-18	T1-2-18-0		0	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.053**	<0.050	<0.050
		T1-2-18-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-118-1	X	1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.033 J**	<0.050	<0.050
		T1-2-18-1		1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-19	T1-2-19-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.21**	<0.050	<0.050
		T1-2-19-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.12**	<0.050	<0.050
		T1-2-19-1		1	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.19**	<0.049	<0.049
	T1-2-20	T1-2-20-0		0	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.17**	<0.049	<0.049
		T1-2-20-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.052**	<0.050	<0.050
		T1-2-20-1		1	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.067**	<0.049	<0.049
	T1-2-21	T1-2-121-0	X	0	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.025 J**	<0.049	<0.049
		T1-2-21-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.029 J**	<0.050	<0.050
		T1-2-21-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-21-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.045 J**	<0.050	<0.050
	T1-2-22	T1-2-22-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.027 J**	<0.050	<0.050
		T1-2-22-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.062**	<0.050	<0.050
		T1-2-22-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-23	T1-2-23-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-23-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-23-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Table 6
RFI Soil Sample Analytical Results - Polychlorinated Biphenyls (PCBs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8082								
							Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
EPA RSL Industrial (May 2023)							27	0.83	0.72	0.95	0.94	0.97	0.99	--	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							17	0.53	0.49	0.58	0.58	0.59	0.6	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							29	--	--	--	--	8.4	--	--	--
26 (Units 1 & 2 Transformers)	T1-2-24	T1-2-24-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.043 J**	<0.050	<0.050
		T1-2-24-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.033 J**	<0.050	<0.050
		T1-2-24-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-25	T1-2-25-0		0	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.081**	<0.049	<0.049
		T1-2-25-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.090**	<0.050	<0.050
		T1-2-25-1		1	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.071**	<0.049	<0.049
	T1-2-26	T1-2-126-0	X	0	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.057**	<0.049	<0.049
		T1-2-26-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.071**	<0.050	<0.050
		T1-2-26-0.5		0.5	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.060**	<0.049	<0.049
		T1-2-26-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.067**	<0.050	<0.050
	T1-2-27	T1-2-27-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.027 J**	<0.050	<0.050
		T1-2-27-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.029 J**	<0.050	<0.050
		T1-2-27-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.031 J**	<0.050	<0.050
	T1-2-28	T1-2-28-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-28-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-128-1	X	1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-28-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-29	T1-2-29-0		0	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-29-0.5		0.5	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-29-1		1	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-30	T1-2-30-0		0	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-30-0.5		0.5	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-30-1		1	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-31	T1-2-131-0	X	0	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-31-0		0	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-31-0.5		0.5	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-31-1		1	08/26/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	T1-2-32	T1-2-32-0		0	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.056**	<0.050	<0.050
		T1-2-32-0.5		0.5	08/26/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.035 J**	<0.049	<0.049
		T1-2-32-1		1	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.055**	<0.050	<0.050
36 (Former Haz Waste Area)	F36-1	F36-1-0		0	08/24/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.031 J**	**0.038 J**	<0.049	<0.049
		F36-1-0.5		0.5	08/24/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		F36-101-1	X	1	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F36-1-1		1	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	F36-2	F36-2-0		0	08/24/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.031 J**	<0.049	<0.049
		F36-2-0.5		0.5	08/24/21	mg/kg	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
		F36-2-1		1	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	F36-3	F36-3-0		0	08/25/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F36-3-0.5		0.5	08/25/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		F36-3-1		1	08/25/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049

Table 6
RFI Soil Sample Analytical Results - Polychlorinated Biphenyls (PCBs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8082								
							Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
				EPA RSL Industrial (May 2023)			27	0.83	0.72	0.95	0.94	0.97	0.99	--	--
				DTSC-SLs Commercial/Industrial - Cancer (May 2022)			17	0.53	0.49	0.58	0.58	0.59	0.6	--	--
				DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)			29	--	--	--	--	8.4	--	--	--
Equipment Rinsate Blanks															
--	--	EB-A-082321		--	08/23/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-A-082421		--	08/24/21	µg/L	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63
--	--	EB-A-082521		--	08/25/21	µg/L	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49
--	--	EB-A-083021		--	08/30/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-B-083021		--	08/30/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-A-083121		--	08/31/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-B-083121		--	08/31/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-A1-090121		--	09/01/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-A2-090121		--	09/01/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-B-090121		--	09/01/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-A-090221		--	09/02/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-A2-090221		--	09/02/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-B-090221		--	09/02/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-A-091021		--	09/10/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-A-091621		--	09/16/21	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

NOTES:

	Concentration exceeds a regulatory screening level
792	**Bold** value is reported concentration above the laboratory Method Detection Limit (MDL).
<0.050	Denotes analyte not detected above the posted Reporting Limit (RL)
J	Concentration is below the RL but above the MDL so the result represents an estimated value
--	Not analyzed or No Published Value
mg/kg	Milligrams per kilogram
µg/L	Micrograms per liter
Dup	Field duplicate samples are identified in this column with an "X"
EPA RSL	United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for commercial/industrial land use (Updated May 2023)
DTSC-SLs	Department of Toxic Substances Control (DTSC)-modified screening levels for commercial/industrial land use (Updated June 2020)

Table 7
RFI Soil Vapor Analytical Results - Volatile Organic Compounds (VOCs)

Location or Boring ID	Field Sample ID	Duplicate	Sample Depth in feet below ground surface	Sample Date	Units	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroform	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2- Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane (Freon-12)	1,1-Dichloroethane (1,1-DCA)	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Freon-113	Hexachlorobutadiene
Commercial/Industrial Screening Levels for Comparison																																						
DTSC-SL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						840	--	--	--	1.8E+06	3.6E+06	3.6E+06	--	--	--	700,000	700,000	1,160	--	--	--	--	--	--	--	--	--	--	620,000	70,000	700,000	--	700,000	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						3,200	520,000	660	22,000	--	--	--	4,000	440,000	1,060	--	--	--	4	40	36,000	1.8E+06	--	2,200	880,000	15,400	940	1.8E+06	--	360,000	6,600	--	--	--	6,200	--	9,800	4.4E+07	1,120
DTSC-SL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						420	--	--	--	880,000	1.8E+06	1.8E+06	--	--	--	350,000	350,000	580	--	--	--	--	--	--	--	--	--	310,000	35,000	350,000	--	350,000	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						1,600	260,000	330	11,000	--	--	--	2,000	220,000	530	--	--	--	2	20	18,000	880,000	--	1,100	440,000	7,700	470	880,000	--	180,000	3,300	--	--	--	3,100	--	4,900	2.2E+07	560
DTSC-SL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						14	--	--	--	29,333	60,000	60,000	--	--	--	11,667	11,667	19	--	--	--	--	--	--	--	--	--	10,333	1,167	11,667	--	11,667	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						53	8,667	11	367	--	--	--	67	7,333	18	--	--	--	0.067	0.67	600	29,333	--	37	14,667	257	16	29,333	--	6,000	110	--	--	--	103	--	163	733,333	19
AOI 1 - Distillate Tank for Unit 5 Peaker																																						
DT-1	DT-1-5		5	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	DT-1-5-RERUN		5	9/1/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	DT-1-10		10	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
DT-2	DT-2-5		5	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	DT-2-10		10	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
DT-3	DT-3-5		5	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**7.2**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	DT-3-10		10	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
DT-4	DT-4-5		5	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	DT-4-10		10	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
AOI 5 - Fueling Station																																						
F5-1	F5-1-5		5	8/31/21	µg/m^3	**0.7**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	F5-1-10		10	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**4.2**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
F5-2	F5-2-5		5	8/31/21	µg/m^3	**5.5**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**35.1**	<5.0	<4.0
	F5-2-10		10	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
AOI 6 - Unit 5 Peaker																																						
P-1	P-1-5		5	8/27/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	P-1-10		10	8/27/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**5.0**	<5.0	<4.0
P-1B	P-1B-20		20	9/3/21	µg/m^3	**4.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**4.4**	<5.0	<4.0
	P-1B-40		40	9/3/21	µg/m^3	**2.6**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**3.9**	<5.0	<4.0
P-2	P-2-5		5	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	P-2-10		10	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	P-2-10-REP	X	10	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
P-3	P-3-5		5	9/3/21	µg/m^3	**1.3**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	P-3-10		10	8/31/21	µg/m^3	**1.1**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
P-4	P-4-5		5	8/31/21	µg/m^3	**0.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	P-4-10		10	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
P-5	P-5-5		5	9/3/21	µg/m^3	**1.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**4.6**	<5.0	<4.0
	P-5-20		20	9/3/21	µg/m^3	**6.1**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**13.1**	<5.0	<4.0
	P-5-20-REP	X	20	9/3/21	µg/m^3	**6.2**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**2.3**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**13.4**	<5.0	<4.0
P-6	P-6-5		5	9/3/21	µg/m^3	**16.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**12.7**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**22.5**	<5.0	<4.0
	P-6-20		20	9/3/21	µg/m^3	**1.0**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**8.8**	<5.0	<4.0
P-7	P-7-5		5	9/3/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
P-8	P-8-5		5	9/17/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**4.1**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	P-8-20		20	9/17/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**7.4**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
P-9	P-9-5		5	9/17/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**6.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	P-9-5R		5	10/18/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	P-9-20		20	9/17/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**4.3**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**7.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
AOI 14 - Hazardous Waste Accumulation Area																																						
F14-1	F14-1-5		5	9/1/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	F14-1-10		10	9/3/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
AOI 15 - Generating 1 & 2																																						
F15-1	F15-1-5		5	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0

Table 7
RFI Soil Vapor Analytical Results - Volatile Organic Compounds (VOCs)

Location or Boring ID	Field Sample ID	Duplicate	Sample Depth in feet below ground surface	Sample Date	Units	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroform	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2- Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane (Freon-12)	1,1-Dichloroethane (1,1-DCA)	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Freon-113	Hexachlorobutadiene
Commercial/Industrial Screening Levels for Comparison																																						
DTSC-SL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						840	--	--	--	1.8E+06	3.6E+06	3.6E+06	--	--	--	700,000	700,000	1,160	--	--	--	--	--	--	--	--	--	620,000	70,000	700,000	--	700,000	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						3,200	520,000	660	22,000	--	--	--	4,000	440,000	1,060	--	--	--	4	40	36,000	1.8E+06	--	2,200	880,000	15,400	940	1.8E+06	--	360,000	6,600	--	--	--	6,200	--	9,800	4.4E+07	1,120
DTSC-SL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						420	--	--	--	880,000	1.8E+06	1.8E+06	--	--	--	350,000	350,000	580	--	--	--	--	--	--	--	--	--	310,000	35,000	350,000	--	350,000	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						1,600	260,000	330	11,000	--	--	--	2,000	220,000	530	--	--	--	2	20	18,000	880,000	--	1,100	440,000	7,700	470	880,000	--	180,000	3,300	--	--	--	3,100	--	4,900	2.2E+07	560
DTSC-SL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						14	--	--	--	29,333	60,000	60,000	--	--	--	11,667	11,667	19	--	--	--	--	--	--	--	--	--	10,333	1,167	11,667	--	11,667	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						53	8,667	11	367	--	--	--	67	7,333	18	--	--	--	0.067	0.67	600	29,333	--	37	14,667	257	16	29,333	--	6,000	110	--	--	--	103	--	163	733,333	19
AOI 17 - Maintenance Shop																																						
SS-1B	SS-1B-5		5	8/27/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**7.3**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**6.2**	**30.0**	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	SS-1B-10		10	8/27/21	µg/m^3	**0.7**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**12.6**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**7.8**	**163**	<1.0	**49.9**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**5.6**	<5.0	<4.0
	SS-1B-20		20	9/1/21	µg/m^3	**0.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**9.4**	<2.0	**92.8**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**13.9**	**1370**	<1.0	**466**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**5.9**	<4.0
MS-10 & MS-10R	MS-10-5		5	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**3.2**	<2.0	**19.3**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.7**	**12.2**	<1.0	**14.1**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-10R-5		5	4/4/22	µg/m^3	**1.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**3.3**	<2.0	**44.8**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**14.0**	**15.3**	<1.0	**18.5**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**2.7**	<5.0	<4.0
	MS-10-10		10	8/31/21	µg/m^3	**0.7**	<2.0	**4.5**	<2.0	<5.0	<5.0	<5.0	**10.4**	<1.0	**71.5**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**8.0**	**61.0**	<1.0	**105**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-10-20		20	9/1/21	µg/m^3	<0.5	<2.0	**13.5**	<2.0	<5.0	<5.0	<5.0	**22.8**	<2.0	**185**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**13.1**	**180**	**8.3**	**285**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**6.5**	<4.0
	MS-10R-20		20	4/4/22	µg/m^3	**1.8**	<2.0	**11.4**	<2.0	<5.0	<5.0	<5.0	**27.7**	<2.0	**175**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**20.9**	**154**	**10.9**	**232**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**2.8**	<5.0	<4.0
MS-11	MS-11-5		5	8/31/21	µg/m^3	**2.3**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**1.5**	<2.0	**11.9**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**6.0**	**7.6**	<1.0	**9.3**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-11-10		10	8/31/21	µg/m^3	**1.6**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**8.6**	<2.0	**80.4**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**8.5**	**51.4**	<1.0	**74.8**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-11-20		20	9/1/21	µg/m^3	**1.4**	<2.0	**3.8**	<2.0	<5.0	<5.0	<5.0	**39.8**	<2.0	**362**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**17.4**	**295**	**17.3**	**435**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**7.8**	<4.0
MS-12	MS-12-5		5	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**3.8**	<2.0	**60.5**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**6.8**	<1.0	**21.2**	**40.2**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-12-10		10	8/31/21	µg/m^3	**0.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**12.1**	<2.0	**136**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**11.2**	**54.7**	<1.0	**120**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**2.7**	<5.0	<4.0
	MS-12-20		20	9/1/21	µg/m^3	**0.6**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**46.8**	<2.0	**510**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**21.6**	**313**	**9.0**	**517**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**7.8**	<4.0
MS-13 MS-13B & MS-13R	MS-13-5		5	8/31/21	µg/m^3	**0.7**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**7.6**	<2.0	**68.2**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**10.6**	**11.5**	<1.0	**46.5**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-13R-5		5	4/4/22	µg/m^3	**16.2**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**7.1**	<2.0	**66.4**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**21.1**	**16.4**	<1.0	**55.5**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**23.6**	<5.0	<4.0
	MS-13-10		10	8/31/21	µg/m^3	**5.0**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**9.8**	<2.0	**114**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**11.0**	**19.0**	<1.0	**66.2**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**29.0**	<5.0	<4.0
	MS-13-10-REP	X	10	8/31/21	µg/m^3	**3.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**10.2**	<2.0	**107**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**11.8**	**19.2**	<1.0	**61.6**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**25.6**	<5.0	<4.0
	MS-13-20		20	9/1/21	µg/m^3	**1.2**	<2.0	**2.5**	<2.0	<5.0	<5.0	<5.0	**51.5**	<2.0	**640**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**26.2**	**255**	**3.4**	**501**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**3.0**	<5.0	<4.0
	MS-13R-20		20	4/4/22	µg/m^3	**4.2**	<2.0	**3.8**	<2.0	<5.0	<5.0	<5.0	**41.7**	<2.0	**454**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**38.4**	**219**	**3.7**	**385**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**4.6**	<5.0	<4.0
	MS-13B-35		35	9/3/21	µg/m^3	**2.2**	<2.0	**2.7**	<2.0	<5.0	<5.0	<5.0	**51.2**	<2.0	**632**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**21.6**	**277**	**8.9**	**494**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**2.1**	<5.0	<4.0
	MS-13B-50		50	9/3/21	µg/m^3	**3.8**	<2.0	**2.2**	<2.0	<5.0	<5.0	<5.0	**65.6**	<2.0	**668**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**26.1**	**343**	**23.4**	**555**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**2.6**	<5.0	<4.0
	MS-13R-46		46	4/4/22	µg/m^3	**2.3**	<2.0	**3.6**	<2.0	<5.0	<5.0	<5.0	**100**	<2.0	**732**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**54.8**	**406**	**23.2**	**665**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**5.7**	<4.0
MS-14	MS-14-5		5	8/31/21	µg/m^3	**1.1**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**9.4**	<2.0	**160**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**13.1**	**55.6**	<1.0	**127**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-14-10		10	8/31/21	µg/m^3	**0.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**11.4**	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**14.7**	**74.4**	<1.0	**157**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-14-20		20	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MS-15	MS-15-5		5	8/31/21	µg/m^3	**1.1**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**3.6**	<2.0	**60.3**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**9.1**	**31.2**	<1.0	**81.4**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-15-10		10	8/31/21	µg/m^3	**2.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**4.5**	<2.0	**76.6**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**9.9**	**52.7**	<1.0	**111**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**11.4**	<5.0	<4.0
	MS-15-20		20	9/1/21	µg/m^3	**0.6**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**17.2**	<2.0	**294**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**25.1**	**318**	<1.0	**514**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**8.0**	<4.0
MS-16	MS-16-5		5	8/27/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**17.9**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	**107**	<1.0	**85.5**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-16-10		10	8/27/21	µg/m^3	**2.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	**3.4**	**41.5**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**13.0**	**284**	<1.0	**200**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**8.0**	<5.0	<4.0
	MS-16-20		20	9/1/21	µg/m^3	**0.6**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**12.5**	<2.0	**156**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**18.5**	**1050**	<1.0	**589**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-16-20-REP	X	20	9/1/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**11.2**	<2.0	**157**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**18.6**	**1060**	<1.0	**595**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-17 MS-17B & MS-17R	MS-17-5		5	8/27/21	µg/m^3	**0.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**13.6**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**7.9**	**1950**	<1.0	**125**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**2.9**	<5.0	<4.0
	MS-17R-5		5	4/4/22	µg/m^3	**0.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**39.3**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**15.0**	**1120**	<1.0	**98.3**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-17-10		10	8/27/21	µg/m^3	**2.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**22.0**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**8.0**	**2670**	<1.0	**184**	**1.1**	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**12.0**	<5.0	<4.0
	MS-17-20		20	8/27/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**13.2**	<2.0	**88.4**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**18.5**	**3290**	**3.5**	**482**	**6.5**	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-17R-20		20	4/4/22	µg/m^3	**1.1**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**12.3**	<2.0	**130**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**30.8**	**2950**	**5.1**	**525**	**5.1**	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-17B-40		40	9/3/21	µg/m^3	**4.2**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**122**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**13.4**	**1830**	**7.5**	**587**	**2.6**	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**3.2**	<5.0	<4.0
	MS-17R-40		40	4/4/22	µg/m^3	**7.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**17.4**	<2.0	**162**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**31.3**	**1570**	**11.4**	**596**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**2.7**	**5.5**	<4.0
	MS-17B-60		60	9/3/21	µg/m^3	**5.6**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**17.2**	<2.0	**146**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**19.8**	**717**	**20.9**	**726**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**3.4**	**7.2**	<4.0

Table 7
RFI Soil Vapor Analytical Results - Volatile Organic Compounds (VOCs)

Location or Boring ID	Field Sample ID	Duplicate	Sample Depth in feet below ground surface	Sample Date	Units	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroform	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2- Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane (Freon-12)	1,1-Dichloroethane (1,1-DCA)	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Freon-113	Hexachlorobutadiene
Commercial/Industrial Screening Levels for Comparison																																						
DTSC-SL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						840	--	--	--	1.8E+06	3.6E+06	3.6E+06	--	--	--	700,000	700,000	1,160	--	--	--	--	--	--	--	--	--	620,000	70,000	700,000	--	700,000	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						3,200	520,000	660	22,000	--	--	--	4,000	440,000	1,060	--	--	--	4	40	36,000	1.8E+06	--	2,200	880,000	15,400	940	1.8E+06	--	360,000	6,600	--	--	--	6,200	--	9,800	4.4E+07	1,120
DTSC-SL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						420	--	--	--	880,000	1.8E+06	1.8E+06	--	--	--	350,000	350,000	580	--	--	--	--	--	--	--	--	--	310,000	35,000	350,000	--	350,000	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						1,600	260,000	330	11,000	--	--	--	2,000	220,000	530	--	--	--	2	20	18,000	880,000	--	1,100	440,000	7,700	470	880,000	--	180,000	3,300	--	--	--	3,100	--	4,900	2.2E+07	560
DTSC-SL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						14	--	--	--	29,333	60,000	60,000	--	--	--	11,667	11,667	19	--	--	--	--	--	--	--	--	--	10,333	1,167	11,667	--	11,667	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						53	8,667	11	367	--	--	--	67	7,333	18	--	--	--	0.067	0.67	600	29,333	--	37	14,667	257	16	29,333	--	6,000	110	--	--	--	103	--	163	733,333	19
MS-18	MS-18-5		5	8/27/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**8.0**	**1.4**	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-18-10		10	8/27/21	µg/m^3	**1.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**8.6**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**9.1**	**8.9**	<1.0	**12.4**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**12.7**	<5.0	<4.0
	MS-18-20		20	9/17/21	µg/m^3	**1.6**	<2.0	**3.0**	<2.0	<5.0	<5.0	<5.0	**7.1**	<2.0	**62.5**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**9.7**	**155**	<1.0	**206**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**5.2**	<4.0
MS-19	MS-19-5		5	9/3/21	µg/m^3	**0.6**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**1.3**	<2.0	**19.2**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.9**	**3.4**	<1.0	**13.8**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**3.2**	<5.0	<4.0
	MS-19-10		10	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MS-19-20		20	9/3/21	µg/m^3	**5.1**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**8.6**	<2.0	**233**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**17.9**	**112**	<1.0	**259**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**60.1**	<5.0	<4.0
MS-20	MS-20-5		5	9/3/21	µg/m^3	**1.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**5.2**	<2.0	**39.6**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.2**	**2.0**	<1.0	**8.9**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**3.5**	<5.0	<4.0
	MS-20-10		10	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MS-20-20		20	9/3/21	µg/m^3	**3.0**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**25.7**	<2.0	**158**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**10.3**	**19.6**	<1.0	**89.9**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**4.0**	<5.0	<4.0
MS-21 & MS-21R	MS-21-5		5	9/17/21	µg/m^3	**0.7**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**1.5**	<2.0	**78.1**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**7.0**	**1.7**	<1.0	**1.8**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-21-5R		5	10/18/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**1.9**	<2.0	**55**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**12.4**	**2.3**	<1.0	**2.5**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-21R-5		5	4/4/22	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**8.1**	<2.0	**199**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**24.0**	**10.1**	<1.0	**18.9**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-21R-5REP	X	5	4/4/22	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**7.3**	<2.0	**193**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**25.2**	**9.7**	<1.0	**17.8**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-21-20		20	9/17/21	µg/m^3	**0.6**	<2.0	**4.8**	<2.0	<5.0	<5.0	<5.0	**22.9**	<2.0	**787**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**22.5**	**44.6**	<1.0	**132**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**2.6**	<4.0
	MS-21R-20		20	4/4/22	µg/m^3	<0.5	<2.0	**5.2**	<2.0	<5.0	<5.0	<5.0	**31.1**	<2.0	**770**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**44.1**	**69.4**	<1.0	**183**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-22	MS-22-5		5	10/18/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**25.8**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**11.7**	<1.0	<1.0	**5.9**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-22-20		20	10/18/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**82.9**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**17**	**17.5**	<1.0	**54**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-23	MS-23-5		5	10/18/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**2.5**	<2.0	**85.9**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**6.3**	**1.7**	<1.0	**3.2**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-23-5 REP	X	5	10/18/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**3.2**	<2.0	**125**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**7.9**	**2.6**	<1.0	**4.6**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-23-5		5	11/8/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**3.2**	<2.0	**115**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**6.6**	<1.0	<1.0	**3.7**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-23-20		20	10/18/21	µg/m^3	<0.5	<2.0	**8.8**	<2.0	<5.0	<5.0	<5.0	**23.7**	<2.0	**1050**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**22.2**	**48.4**	<1.0	**144**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-23-20		20	11/8/21	µg/m^3	<0.5	<2.0	**9.8**	<2.0	<5.0	<5.0	<5.0	**28.3**	<2.0	**1140**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**19.2**	**47.1**	<1.0	**150**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-23B	MS-23B-40		40	11/8/21	µg/m^3	**3.6**	<2.0	**15.4**	**5.9**	<5.0	<5.0	**60.1**	**38.4**	<2.0	**975**	<5.0	<5.0	**12.4**	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**26.7**	**84.7**	<1.0	**263**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-23B-40-REP	X	40	11/8/21	µg/m^3	**4.0**	<2.0	**14.3**	**5.3**	<5.0	<5.0	**59.7**	**37.4**	<2.0	**909**	<5.0	<5.0	**12.8**	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**25.7**	**81.6**	<1.0	**252**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-23B-40		40	4/4/22	µg/m^3	**0.6**	<2.0	**12.0**	**5.5**	<5.0	<5.0	<5.0	**54.7**	<2.0	**1210**	<5.0	<5.0	**7.5**	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**67.0**	**104**	<1.0	**271**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-23B-60		60	11/8/21	µg/m^3	**9.1**	<2.0	**23.8**	**9.9**	<5.0	<5.0	<5.0	**36.9**	<2.0	**236**	<5.0	<5.0	**26.9**	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**30.5**	**27**	<1.0	**162**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**4.9**	<5.0	<4.0
	MS-23B-80		80	11/8/21	µg/m^3	**9.5**	<2.0	**24.7**	**9.4**	<5.0	<5.0	**23.5**	**157**	<2.0	**977**	<5.0	<5.0	**22.4**	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**60.6**	**149**	**2.6**	**513**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**7.2**	<5.0	<4.0
	MS-23B-100		100	11/8/21	µg/m^3	**5.3**	<2.0	**17.8**	**2.1**	<5.0	<5.0	<5.0	**444**	<2.0	**1840**	<5.0	<5.0	**4.8**	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**87.4**	**363**	**12.2**	**725**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**2.9**	<5.0	<4.0
	MS-23B-100-REP	X	100	11/8/21	µg/m^3	**6.0**	<2.0	**21.1**	<2.0	<5.0	<5.0	<5.0	**436**	<2.0	**1900**	<5.0	<5.0	**6.0**	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**87.1**	**364**	**12.7**	**716**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**3.8**	<5.0	<4.0
	MS-23B-100		100	4/4/22	µg/m^3	**1.1**	<2.0	**23.0**	**7.1**	<5.0	<5.0	<5.0	**470**	<2.0	**1790**	<5.0	<5.0	**13.6**	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**192**	**341**	**10.1**	**651**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-23C	MS-23C-125		125	1/12/22	µg/m^3	**6.4**	<1.0	**25.4**	<1.0	<1.5	<1.5	<1.5	**385**	<1.0	**1110**	<1.5	<1.5	**2.4**	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**98.3**	**187**	**3.9**	**384**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	**3.2**	**3.3**	<3.0
	MS-23C-150		150	1/12/22	µg/m^3	**8.6**	<1.0	**32.8**	<1.0	<1.5	<1.5	<1.5	**1450**	<1.0	**1230**	<1.5	<1.5	**5.0**	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**96.8**	**259**	<1.0	**534**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	**4.3**	**4.6**	<3.0
	MS-23C-150		150	4/4/22	µg/m^3	**7.3**	<2.0	**77.4**	**3.0**	<5.0	<5.0	<5.0	**2650**	<2.0	**1900**	<5.0	<5.0	**17.2**	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**243**	**362**	**6.1**	**736**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**3.5**	**6.2**	<4.0
	MS-23C-175		175	1/12/22	µg/m^3	**6.7**	<1.0	**24.1**	<1.0	<1.5	<1.5	<1.5	**2100**	<1.0	**1290**	<1.5	<1.5	**2.1**	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**85.1**	**305**	**9.2**	**560**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	**3.9**	**4.2**	<3.0
	MS-23C-200		200	1/12/22	µg/m^3	**13.8**	<1.0	**9.9**	<1.0	<1.5	<1.5	<1.5	**4270**	<1.0	**1130**	<1.5	<1.5	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**63.1**	**493**	**17.1**	**860**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	**5.4**	**8.3**	<3.0
	MS-23C-200		200	4/4/22	µg/m^3	**4.8**	<2.0	**59.4**	**3.1**	<5.0	<5.0	<5.0	**4920**	<2.0	**1370**	<5.0	<5.0	**13.7**	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**144**	**451**	**14.0**	**899**	**2.1**	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**2.1**	**8.8**	<4.0
MS-23D	MS-23D-250		250	10/7/22	µg/m^3	**2.6**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**1690**	<2.0	**241**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**22.1**	**150**	**5.9**	**321**	**1.0**	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**5.7**	<4.0
	MS-23D-250 REP	X	250	10/7/22	µg/m^3	**2.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**1870**	<2.0	**260**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**24.9**	**167**	**6.1**	**359**	**1.0**	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**6.9**	<4.0
	MS-23D-300		300	10/7/22	µg/m^3	**3.7**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**72.3**	<2.0	**15.8**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**8.6**	**21.5**	<1.0	**61.9**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-23D-350		350	10/7/22	µg/m^3	**2.3**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**57.1**	<2.0	**13.1**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**6.7**	**102**	<1.0	**169**	**1.0**	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-23D-400		400	10/7/22	µg/m^3	**2.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**17.3**	<2.0	**4.8**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**5.8**	**18.4**	<1.0	**42.8**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-24	MS-24-5		5	10/18/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**4.3**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**7.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-24-20		20	10/18/21	µg/m^3	**0.8**	<2.0	**2.2**	<2.0	<5.0	<5.0	<5.0	**20.0**	<2.0	**172**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**22.7**	<1.0	<1.0	**17**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0

Table 7
RFI Soil Vapor Analytical Results - Volatile Organic Compounds (VOCs)

Location or Boring ID	Field Sample ID	Duplicate	Sample Depth in feet below ground surface	Sample Date	Units	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroform	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2- Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane (Freon-12)	1,1-Dichloroethane (1,1-DCA)	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Freon-113	Hexachlorobutadiene
Commercial/Industrial Screening Levels for Comparison																																						
DTSC-SL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						840	--	--	--	1.8E+06	3.6E+06	3.6E+06	--	--	--	700,000	700,000	1,160	--	--	--	--	--	--	--	--	--	--	620,000	70,000	700,000	--	700,000	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						3,200	520,000	660	22,000	--	--	--	4,000	440,000	1,060	--	--	--	4	40	36,000	1.8E+06	--	2,200	880,000	15,400	940	1.8E+06	--	360,000	6,600	--	--	--	6,200	--	9,800	4.4E+07	1,120
DTSC-SL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						420	--	--	--	880,000	1.8E+06	1.8E+06	--	--	--	350,000	350,000	580	--	--	--	--	--	--	--	--	--	310,000	35,000	350,000	--	350,000	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						1,600	260,000	330	11,000	--	--	--	2,000	220,000	530	--	--	--	2	20	18,000	880,000	--	1,100	440,000	7,700	470	880,000	--	180,000	3,300	--	--	--	3,100	--	4,900	2.2E+07	560
DTSC-SL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						14	--	--	--	29,333	60,000	60,000	--	--	--	11,667	11,667	19	--	--	--	--	--	--	--	--	--	10,333	1,167	11,667	--	11,667	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						53	8,667	11	367	--	--	--	67	7,333	18	--	--	--	0.067	0.67	600	29,333	--	37	14,667	257	16	29,333	--	6,000	110	--	--	--	103	--	163	733,333	19
MS-25	MS-25-5		5	10/18/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**6.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-25-20		20	10/18/21	µg/m^3	**1.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**6.1**	<2.0	**45.5**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**22.5**	<1.0	<1.0	**5.1**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-26 & MS-26R	MS-26-5		5	10/18/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**2.8**	<2.0	**4.0**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**16.2**	<1.0	<1.0	**1.1**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-26R-5		5	4/4/22	µg/m^3	**1.2**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**4.4**	<2.0	**4.1**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**34.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-26-20		20	10/18/21	µg/m^3	**1.8**	<2.0	**3.7**	<2.0	<5.0	<5.0	<5.0	**81.9**	<2.0	**114**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**30**	**1.1**	<1.0	**39.8**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-26R-20		20	4/4/22	µg/m^3	**1.0**	<2.0	**3.6**	<2.0	<5.0	<5.0	<5.0	**84.4**	<2.0	**88.6**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**50.3**	<1.0	<1.0	**32.2**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-27	MS-27-5		5	10/18/21	µg/m^3	**1.3**	<2.0	**1.5**	<2.0	<5.0	<5.0	<5.0	**36.1**	<2.0	**21.5**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**9.6**	<1.0	<1.0	**1**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-27-20		20	10/18/21	µg/m^3	**1.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**126**	<2.0	**157**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**14.4**	**6.1**	<1.0	**84.7**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-28	MS-28-5		5	11/8/21	µg/m^3	**5.2**	<2.0	**17.6**	**9.3**	<5.0	<5.0	<5.0	<1.0	<2.0	**14.2**	<5.0	<5.0	**24.3**	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**10.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**4.7**	<5.0	<4.0
	MS-28-20		20	11/8/21	µg/m^3	**3.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**29.7**	<1.0	<1.0	**8.7**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-29	MS-29-5		5	2/11/22	µg/m^3	**1.5**	<1.0	**3.4**	**1.7**	<1.5	<1.5	<1.5	**3.1**	<1.0	**8.6**	<1.5	<1.5	**2.7**	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**5**	**1.1**	<1.0	**8.5**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	**3.2**	<2.0	<3.0
	MS-29-5		5	4/4/22	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**5.6**	<2.0	**8.3**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**13.6**	**2.5**	<1.0	**15.2**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-29-20		20	2/11/22	µg/m^3	**19**	<1.0	**2.8**	<1.0	<1.5	<1.5	<1.5	**22.6**	<1.0	**123**	<1.5	<1.5	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**8.9**	**50.4**	<1.0	**155**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	**9**	<2.0	<3.0
	MS-29-20		20	4/4/22	µg/m^3	**NO FLOW**																																	
MS-30	MS-30-5		5	2/11/22	µg/m^3	<1.0	<1.0	**1.2**	<1.0	<1.5	<1.5	<1.5	**6.5**	<1.0	**3.1**	<1.5	<1.5	**1.1**	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**8.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	<1.0	<2.0	<3.0
	MS-30-5		5	4/4/22	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**5.9**	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**17.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-30-20		20	2/11/22	µg/m^3	<1.0	<1.0	**3.9**	<1.0	<1.5	<1.5	<1.5	**39.9**	<1.0	**33.7**	<1.5	<1.5	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**21.9**	<1.0	<1.0	**24.5**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	<1.0	<2.0	<3.0
	MS-30-20		20	4/4/22	µg/m^3	<0.5	<2.0	**3.5**	<2.0	<5.0	<5.0	<5.0	**42.7**	<2.0	**30.5**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**44.1**	<1.0	<1.0	**28.6**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-31	MS-31-5		5	2/11/22	µg/m^3	<1.0	<1.0	**1.4**	<1.0	<1.5	<1.5	<1.5	<1.0	<1.0	**1.7**	<1.5	<1.5	**1.5**	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**10.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	<1.0	<2.0	<3.0
	MS-31-20		20	2/11/22	µg/m^3	**8.7**	<1.0	<1.0	<1.0	<1.5	<1.5	<1.5	<1.0	<1.0	**1.1**	<1.5	<1.5	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**21.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	**7.2**	<2.0	<3.0
MS-32	MS-32-5		5	2/11/22	µg/m^3	**3.6**	<1.0	**18**	**5.5**	<1.5	<1.5	<1.5	**3.5**	<1.0	**28**	<1.5	<1.5	**17.7**	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**5.5**	<1.0	**1.5**	**4**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	**5.4**	<2.0	<3.0
	MS-32-20		20	2/11/22	µg/m^3	**6.2**	<1.0	<1.0	<1.0	<1.5	<1.5	<1.5	**56.4**	<1.0	**38.2**	<1.5	<1.5	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**10.6**	**7.3**	<1.0	**213**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	**7.7**	<2.0	<3.0
	MS-32-20-REP	X	20	2/11/22	µg/m^3	**5.9**	<1.0	<1.0	<1.0	<1.5	<1.5	<1.5	**59.8**	<1.0	**38.6**	<1.5	<1.5	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**10.7**	**7.7**	<1.0	**225**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	**7.2**	<2.0	<3.0
SS-4	SS-4-5		5	8/27/21	µg/m^3	**4.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**3.2**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**6.8**	**35.2**	<1.0	**25.0**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**6.3**	<5.0	<4.0
	SS-4-10		10	8/27/21	µg/m^3	**1.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**7.2**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**8.5**	**190**	<1.0	**67.9**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**3.5**	<5.0	<4.0
	SS-4-20		20	9/1/21	µg/m^3	**0.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**5.0**	<2.0	**50.5**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**14.0**	**1140**	<1.0	**356**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**5.0**	**8.5**	<4.0
SS-5	SS-5-5		5	8/27/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	SS-5-5-REP	X	5	8/27/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	SS-5-10		10	8/27/21	µg/m^3	**2.1**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**6.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**24.7**	<5.0	<4.0
	SS-5-20		20	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS-6	SS-6-5		5	8/27/21	µg/m^3	**0.7**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**6.4**	<1.0	<1.0	**1.6**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	SS-6-10		10	8/27/21	µg/m^3	**1.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**3.3**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	**18.7**	<1.0	**25.2**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**14.7**	<5.0	<4.0
	SS-6-20		20	9/17/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**3.2**	<2.0	**26.6**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**8.7**	**183**	<1.0	**160**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**5.7**	<4.0
SS-7	SS-7-5		5	8/31/21	µg/m^3	**1.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	**2.6**	<1.0	**7.1**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	SS-7-5-RERUN		5	9/3/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	**5.0**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	SS-7-10		10	8/31/21	µg/m^3	**0.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**1.1**	<2.0	**3.8**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**7.2**	**18.9**	<1.0	**43.8**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<2.0	<4.0
	SS-7-20		20	9/17/21	µg/m^3	**1.3**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**5.8**	<2.0	**44.4**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**10.1**	**222**	<1.0	**247**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**6.8**	<4.0
SS-8	SS-8-5		5	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-8-10		10	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-8-20		20	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS-9	SS-9-5		5	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-9-10		10	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-9-20		20	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 7
RFI Soil Vapor Analytical Results - Volatile Organic Compounds (VOCs)

Location or Boring ID	Field Sample ID	Duplicate	Sample Depth in feet below ground surface	Sample Date	Units	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroform	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2- Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane (Freon-12)	1,1-Dichloroethane (1,1-DCA)	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Freon-113	Hexachlorobutadiene
Commercial/Industrial Screening Levels for Comparison																																						
DTSC-SL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						840	--	--	--	1.8E+06	3.6E+06	3.6E+06	--	--	--	700,000	700,000	1,160	--	--	--	--	--	--	--	--	--	--	620,000	70,000	700,000	--	700,000	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						3,200	520,000	660	22,000	--	--	--	4,000	440,000	1,060	--	--	--	4	40	36,000	1.8E+06	--	2,200	880,000	15,400	940	1.8E+06	--	360,000	6,600	--	--	--	6,200	--	9,800	4.4E+07	1,120
DTSC-SL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						420	--	--	--	880,000	1.8E+06	1.8E+06	--	--	--	350,000	350,000	580	--	--	--	--	--	--	--	--	--	310,000	35,000	350,000	--	350,000	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						1,600	260,000	330	11,000	--	--	--	2,000	220,000	530	--	--	--	2	20	18,000	880,000	--	1,100	440,000	7,700	470	880,000	--	180,000	3,300	--	--	--	3,100	--	4,900	2.2E+07	560
DTSC-SL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						14	--	--	--	29,333	60,000	60,000	--	--	--	11,667	11,667	19	--	--	--	--	--	--	--	--	--	10,333	1,167	11,667	--	11,667	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						53	8,667	11	367	--	--	--	67	7,333	18	--	--	--	0.067	0.67	600	29,333	--	37	14,667	257	16	29,333	--	6,000	110	--	--	--	103	--	163	733,333	19
SS-10 & SS-10R	SS-10-5		5	8/27/21	µg/m^3	**1.3**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**9.1**	<1.0	<1.0	**2.3**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**19.4**	<5.0	<4.0
	SS-10R-5		5	4/4/22	µg/m^3	**3.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**3.5**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**14.8**	<1.0	<1.0	**4.1**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**3.8**	<5.0	<4.0
	SS-10-10		10	8/27/21	µg/m^3	**0.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**8.2**	**3.9**	<1.0	**11.3**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**31.9**	<5.0	<4.0
	SS-10-20		20	9/1/21	µg/m^3	**2.2**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**1.5**	<2.0	**17.5**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**12.0**	**72.2**	<1.0	**85.6**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**319**	**6.2**	<4.0
	SS-10R-20		20	4/4/22	µg/m^3	**1.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**2.4**	<2.0	**16.9**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**16.9**	**58.9**	<1.0	**62.4**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**15.2**	<5.0	<4.0
SS-11	SS-11-5		5	8/31/21	µg/m^3	**2.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**5.8**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**9.6**	<1.0	<1.0	**4.3**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**5.0**	<4.0
	SS-11-10		10	8/31/21	µg/m^3	**1.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**3.8**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**10.0**	**5.5**	<1.0	**31.3**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**6.3**	<4.0
	SS-11-20		20	9/1/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**2.5**	<2.0	**17.7**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**14.0**	**49.0**	<1.0	**145**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**6.5**	<4.0
SS-12	SS-12-5		5	8/31/21	µg/m^3	**0.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**4.3**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	**3.9**	<1.0	**8.4**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	SS-12-5-RERUN		5	9/3/21	µg/m^3	**1.2**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	**3.7**	<1.0	**15.6**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	SS-12-5R		5	10/18/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**2.9**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**7.6**	<1.0	<1.0	**9.0**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**19.1**	<5.0	<4.0
	SS-12-10		10	8/31/21	µg/m^3	**1.2**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**1.2**	<2.0	**13.8**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**10.6**	**52.0**	<1.0	**95.2**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	SS-12-20		20	9/1/21	µg/m^3	**1.0**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**6.8**	<2.0	**85.4**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**18.7**	**427**	<1.0	**445**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**3.5**	**10.5**	<4.0
AOI 36 - Former Hazardous Waste Area																																						
F36-1	F36-1-5		5	9/1/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	F36-1-10		10	9/1/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**10.7**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.4**	<1.0	<1.0	**12.9**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
F36-2	F36-2-5		5	9/1/21	µg/m^3	**0.7**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	F36-2-10		10	9/1/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
F36-3	F36-3-5		5	9/1/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	F36-3-10		10	9/1/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	F36-3-10		10	9/17/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**4.3**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0

Notes:

Bold: Reported chemical concentration in micrograms per cubic meter (µg/m^3)

<: Not detected at or above the indicated Reporting Limit (RL)

-- : No published value or not analyzed

* : Dilution required for this compound

NS: Not sampled

DTSC-SL: Department of Toxic Substances Control-modified screening level (May 2022)

EPA RSL: United States Environmental Protection Agency Regional Screening Level (May 2023)

AF: Attenuation Factor (see Notes 1 and 2 for additional information)

8260B: VOC Analytical Method

Calculated commercial screening values for soil vapor using the default AFs listed (for DTSC SL, the lower of the cancer or non-cancer level was used)

Concentration exceeds the commercial soil vapor screening level after application of the most conservative default soil vapor AF 0.03

Concentration exceeds the commercial soil vapor screening level after application of default soil vapor AF 0.001

Tracer gas concentration was detected in soil vapor sample (results may not be representative of subsurface conditions due to ambient air intrusion in sample)

1 : Default AF of 0.0005 for soil vapor in future commercial settings is in accordance with the DTSC Final Vapor Intrusion Guidance document (October 2011)

2 : Default AF of 0.001 for soil vapor in existing commercial settings is in accordance with the DTSC Final Vapor Intrusion Guidance document (October 2011)

3 : Default AF of 0.03 for soil vapor in accordance with the Final Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion from DTSC and California Water Resources Control Board (February 2023)

Table 7
RFI Soil Vapor Analytical Results - Volatile Organic Compounds (VOCs)

Location or Boring ID	Field Sample ID	Duplicate	Sample Depth in feet below ground surface	Sample Date	Units	Isopropylbenzene	4-Isopropyltoluene	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane (Freon-11)	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	Methyl tert butyl ether (MTBE)	Ethyl-tert-butyl ether	Di-isopropylether	tert-amyl methyl ether	tert-Butyl alcohol	n-Pentane (Tracer Gas)	n-Hexane (Tracer Gas)	n-Heptane (Tracer Gas)
Commercial/Industrial Screening Levels for Comparison																																			
DTSC-SL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						--	--	24,000	--	--	7.8E+06	--	--	4,000	2.6E+06	28,000	3,400	8.8E+06	--	--	1.1E+07	3.2	--	--	320	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						3.6E+06	--	2.4E+06	720	8.8E+06	8.8E+06	3,400	420	94,000	4.4E+07	--	17,600	4.4E+07	1,540	6,000	--	2,600	520,000	520,000	5,600	880,000	880,000	94,000	300,000	6.2E+06	--	4.4E+07	8.8E+06	6.2E+06	3.6E+06
DTSC-SL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						--	--	12,000	--	--	3.9E+06	--	--	2,000	1.3E+06	14,000	1,700	4.4E+06	--	--	5.3E+06	2	--	--	160	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						1.8E+06	--	1.2E+06	360	4.4E+06	4.4E+06	1,700	210	47,000	2.2E+07	--	8,800	2.2E+07	770	3,000	--	1,300	260,000	260,000	2,800	440,000	440,000	47,000	150,000	3.1E+06	--	2.2E+07	4.4E+06	3.1E+06	1.8E+06
DTSC-SL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						--	--	400	--	--	130,000	--	--	67	43,333	467	57	146,667	--	--	176,667	0.053	--	--	5	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						60,000	--	40,000	12	146,667	146,667	57	7	1,567	733,333	--	293	733,333	26	100	--	43	8,667	8,667	93	14,667	14,667	1,567	5,000	103,333	--	733,333	146,667	103,333	60,000
AOI 1 - Distillate Tank for Unit 5 Peaker																																			
DT-1	DT-1-5		5	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	**9190**	**12700**	**11800**
	DT-1-5-RERUN		5	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	**46100**	**15100**	**8760**
	DT-1-10		10	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	**2.0**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
DT-2	DT-2-5		5	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	**10.9**	<2.0	<0.5	**4.4**	**5.3**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	DT-2-10		10	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	**5.0**	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	**5.1**	<2.0	<0.5	**2.8**	**14.8**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
DT-3	DT-3-5		5	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	DT-3-10		10	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
DT-4	DT-4-5		5	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	DT-4-10		10	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**4.8**	**12.1**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
AOI 5 - Fueling Station																																			
F5-1	F5-1-5		5	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**88.7**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	F5-1-10		10	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**14.9**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
F5-2	F5-2-5		5	8/31/21	µg/m^3	**2.4**	**2.0**	<2.0	<2.0	**9.0**	<2.0	<4.0	<1.0	**35.6**	**89.8**	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	**76.1**	**19.6**	<0.5	**179**	**69.5**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	F5-2-10		10	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**40.0**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
AOI 6 - Unit 5 Peaker																																			
P-1	P-1-5		5	8/27/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**317**	<5.0	<10.0	<10.0	**4.2**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**2.9**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-1-10		10	8/27/21	µg/m^3	<2.0	**6.2**	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**225**	**5.6**	<10.0	<10.0	**12.4**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**21.2**	**7.1**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
P-1B	P-1B-20		20	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	**4.1**	<4.0	<1.0	**137**	**44.3**	<10.0	<10.0	**9.9**	<4.0	<5.0	<5.0	<2.0	**2.7**	<2.0	<0.5	**21.1**	**5.0**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-1B-40		40	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**129**	**20.1**	<10.0	<10.0	**6.3**	<4.0	<5.0	<5.0	<2.0	**3.4**	<2.0	<0.5	**17.0**	**5.7**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
P-2	P-2-5		5	8/31/21	µg/m^3	<2.0	**3.5**	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**197**	<5.0	<10.0	<10.0	**3.8**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**2.4**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-2-10		10	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**269**	<5.0	<10.0	<10.0	**8.1**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-2-10-REP	X	10	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**212**	<5.0	<10.0	<10.0	**6.4**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
P-3	P-3-5		5	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**46.7**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-3-10		10	8/31/21	µg/m^3	<2.0	**5.8**	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**108**	**7.2**	<10.0	<10.0	**4.1**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**3.9**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
P-4	P-4-5		5	8/31/21	µg/m^3	<2.0	**15.2**	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**73.6**	<5.0	<10.0	<10.0	**4.3**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**5.9**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-4-10		10	8/31/21	µg/m^3	<2.0	**10.0**	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**89.3**	<5.0	<10.0	<10.0	**5.6**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**3.4**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
P-5	P-5-5		5	9/3/21	µg/m^3	<2.0	**15.7**	<20.0	<2.0	<2.0	**2.2**	<4.0	<1.0	**204**	**32.4**	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	**6.6**	**2.4**	<0.5	**22.3**	**6.8**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-5-20		20	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**111**	**69.0**	<10.0	<10.0	**2.4**	<4.0	<5.0	<5.0	<2.0	**3.7**	<2.0	<0.5	**61.5**	**20.0**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-5-20-REP	X	20	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**115**	**68.9**	<10.0	<10.0	**2.4**	<4.0	<5.0	<5.0	<2.0	**3.8**	<2.0	<0.5	**64.8**	**20.4**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
P-6	P-6-5		5	9/3/21	µg/m^3	**46.0**	**29.7**	<20.0	<2.0	**2.9**	<2.0	<4.0	<1.0	**10.1**	**3950**	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	**9.2**	**3.4**	<0.5	**131**	**46.7**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-6-20		20	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**32.9**	**16.3**	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**43.3**	**15.4**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
P-7	P-7-5		5	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	**16.9**	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	**5.3**	**2.5**	<0.5	**3.2**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
P-8	P-8-5		5	9/17/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**18.2**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-8-20		20	9/17/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**54.7**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
P-9	P-9-5		5	9/17/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**42.2**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	**152**	**134**	**50.5**
	P-9-5R		5	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**48.6**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**5.4**	**2.8**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-9-20		20	9/17/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**192**	<5.0	<10.0	<10.0	**2.2**	<4.0	<5.0	<5.0	<2.0	**2.2**	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
AOI 14 - Hazardous Waste Accumulation Area																																			
F14-1	F14-1-5		5	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	F14-1-10		10	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
AOI 15 - Generating 1 & 2																																			
F15-1	F15-1-5		5	8/31/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**8.9**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0

Table 7
RFI Soil Vapor Analytical Results - Volatile Organic Compounds (VOCs)

Location or Boring ID	Field Sample ID	Duplicate	Sample Depth in feet below ground surface	Sample Date	Units	Isopropylbenzene	4-Isopropyltoluene	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane (Freon-11)	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	Methyl tert butyl ether (MTBE)	Ethyl-tert-butyl ether	Di-isopropylether	tert-amyl methyl ether	tert-Butyl alcohol	n-Pentane (Tracer Gas)	n-Hexane (Tracer Gas)	n-Heptane (Tracer Gas)
Commercial/Industrial Screening Levels for Comparison																																			
DTSC-SL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						--	--	24,000	--	--	7.8E+06	--	--	4,000	2.6E+06	28,000	3,400	8.8E+06	--	--	1.1E+07	3.2	--	--	320	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						3.6E+06	--	2.4E+06	720	8.8E+06	8.8E+06	3,400	420	94,000	4.4E+07	--	17,600	4.4E+07	1,540	6,000	--	2,600	520,000	520,000	5,600	880,000	880,000	94,000	300,000	6.2E+06	--	4.4E+07	8.8E+06	6.2E+06	3.6E+06
DTSC-SL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						--	--	12,000	--	--	3.9E+06	--	--	2,000	1.3E+06	14,000	1,700	4.4E+06	--	--	5.3E+06	2	--	--	160	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						1.8E+06	--	1.2E+06	360	4.4E+06	4.4E+06	1,700	210	47,000	2.2E+07	--	8,800	2.2E+07	770	3,000	--	1,300	260,000	260,000	2,800	440,000	440,000	47,000	150,000	3.1E+06	--	2.2E+07	4.4E+06	3.1E+06	1.8E+06
DTSC-SL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						--	--	400	--	--	130,000	--	--	67	43,333	467	57	146,667	--	--	176,667	0.053	--	--	5	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						60,000	--	40,000	12	146,667	146,667	57	7	1,567	733,333	--	293	733,333	26	100	--	43	8,667	8,667	93	14,667	14,667	1,567	5,000	103,333	--	733,333	146,667	103,333	60,000
AOI 17 - Maintenance Shop																																			
SS-1B	SS-1B-5		5	8/27/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**214**	<5.0	<10.0	<10.0	**220**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**2.6**	**2.0**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-1B-10		10	8/27/21	µg/m^3	<2.0	**40.0**	<2.0	<2.0	**2.4**	**3.2**	<4.0	<1.0	**304**	**15.2**	<10.0	<10.0	**329**	<4.0	**8.3**	<5.0	<2.0	**14.3**	**5.1**	<0.5	**29.9**	**11.3**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-1B-20		20	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**531**	<5.0	<10.0	<10.0	**977**	<4.0	**43.1**	**7.2**	<2.0	<2.0	<2.0	<0.5	**3.0**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-10 & MS-10R	MS-10-5		5	8/31/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**11.2**	<5.0	<10.0	<10.0	**8.1**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-10R-5		5	4/4/22	µg/m^3	<2.0	**60.5**	<2.0	<2.0	<2.0	**2.0**	<1.0	<1.0	**15.0**	**17.1**	<10.0	<10.0	**10.1**	<2.0	<5.0	**37.4**	<2.0	**7.6**	<2.0	<0.5	**7.5**	**3.3**	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-10-10		10	8/31/21	µg/m^3	<2.0	**4.8**	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**27.5**	<5.0	<10.0	<10.0	**20.5**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-10-20		20	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**66.0**	<5.0	<10.0	<10.0	**44.9**	<4.0	**9.6**	**6.1**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-10R-20		20	4/4/22	µg/m^3	<2.0	**10.0**	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**57.5**	**25.5**	<10.0	<10.0	**43.0**	<2.0	**9.0**	**46.1**	<2.0	<2.0	<2.0	<0.5	**7.5**	**2.7**	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
MS-11	MS-11-5		5	8/31/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**10.7**	<5.0	<10.0	<10.0	**5.7**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-11-10		10	8/31/21	µg/m^3	<2.0	**3.7**	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**39.1**	**8.7**	<10.0	<10.0	**29.5**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**2.8**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-11-20		20	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**102**	**3.7**	<10.0	<10.0	**98.1**	<4.0	**11.8**	**10.8**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-12	MS-12-5		5	8/31/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**23.8**	<5.0	<10.0	<10.0	**20.0**	<4.0	<5.0	**7.9**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-12-10		10	8/31/21	µg/m^3	<2.0	**21.8**	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**54.0**	**5.9**	<10.0	<10.0	**50.7**	<4.0	<5.0	**15.3**	<2.0	<2.0	**2.5**	<0.5	**7.2**	**2.1**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-12-20		20	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**109**	<5.0	<10.0	<10.0	**118**	<4.0	**12.0**	**20.1**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-13 MS-13B & MS-13R	MS-13-5		5	8/31/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**32.3**	<5.0	<10.0	<10.0	**23.8**	<4.0	<5.0	**11.6**	<2.0	<2.0	<2.0	<0.5	**2.4**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-13R-5		5	4/4/22	µg/m^3	**3.0**	**26.6**	<2.0	<2.0	<2.0	**8.7**	<1.0	<1.0	**25.7**	**41.8**	<10.0	<10.0	**24.6**	<2.0	<5.0	**364**	<2.0	<2.0	<2.0	<0.5	**104**	**36.9**	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-13-10		10	8/31/21	µg/m^3	<2.0	**29.6**	<20.0	<2.0	**3.3**	<2.0	<4.0	<1.0	**44.4**	**65.4**	<10.0	<10.0	**32.8**	<4.0	<5.0	**22.5**	<2.0	**26.5**	**8.9**	<0.5	**70.9**	**11.3**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-13-10-REP	X	10	8/31/21	µg/m^3	<2.0	**26.7**	<20.0	<2.0	**3.5**	<2.0	<4.0	<1.0	**43.6**	**55.5**	<10.0	<10.0	**33.1**	<4.0	<5.0	**21.0**	<2.0	**22.2**	**8.1**	<0.5	**62.0**	**9.8**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-13-20		20	9/1/21	µg/m^3	<2.0	**3.3**	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**95.6**	**10.7**	<10.0	<10.0	**87.3**	<4.0	**11.6**	**31.4**	<2.0	**5.3**	<2.0	<0.5	**5.8**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-13R-20		20	4/4/22	µg/m^3	**3.2**	**13.2**	<2.0	<2.0	<2.0	**2.1**	<1.0	<1.0	**76.7**	**16.3**	<10.0	<10.0	**81.7**	<2.0	**20.1**	**192**	<2.0	**3.2**	<2.0	<0.5	**19.5**	**6.9**	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-13B-35		35	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	**2.1**	<4.0	<1.0	**46.4**	**37.1**	<10.0	<10.0	**87.8**	<4.0	**10.6**	**28.3**	<2.0	<2.0	<2.0	<0.5	**8.1**	<2.0	<5.0	<5.0	<5.0	<5.0	**214**	<5.0	<5.0	<5.0
	MS-13B-50		50	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	**2.6**	<4.0	<1.0	**19.9**	**51.5**	<10.0	<10.0	**74.2**	<4.0	**9.2**	**34.7**	<2.0	**2.4**	<2.0	<0.5	**10.2**	<2.0	<5.0	<5.0	<5.0	<5.0	**792**	<5.0	<5.0	<5.0
	MS-13R-46		46	4/4/22	µg/m^3	<2.0	**8.0**	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**122**	**6.6**	<10.0	<10.0	**110**	**3.9**	**17.2**	**99.2**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
MS-14	MS-14-5		5	8/31/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**58.7**	<5.0	<10.0	<10.0	**57.4**	<4.0	<5.0	**21.0**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-14-10		10	8/31/21	µg/m^3	<2.0	**2.1**	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**65.9**	<5.0	<10.0	<10.0	**66.2**	<4.0	<5.0	**22.3**	<2.0	**10.9**	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-14-20		20	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MS-15	MS-15-5		5	8/31/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**52.7**	<5.0	<10.0	<10.0	**59.4**	<4.0	<5.0	**10.1**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-15-10		10	8/31/21	µg/m^3	<2.0	**31.0**	<20.0	<2.0	**5.4**	<2.0	<4.0	<1.0	**69.8**	**18.3**	<10.0	<10.0	**69.8**	<4.0	<5.0	**10.9**	<2.0	**28.3**	**10.0**	<0.5	**28.3**	**3.9**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-15-20		20	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**158**	<5.0	<10.0	<10.0	**225**	<4.0	**6.2**	**29.4**	<2.0	<2.0	<2.0	<0.5	**2.1**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-16	MS-16-5		5	8/27/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**179**	<5.0	<10.0	<10.0	**435**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-16-10		10	8/27/21	µg/m^3	<2.0	**24.4**	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**250**	**38.1**	<10.0	<10.0	**499**	<4.0	**9.7**	**10.7**	<2.0	**9.7**	**4.0**	<0.5	**35.2**	**9.0**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-16-20		20	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**373**	<5.0	<10.0	<10.0	**772**	<4.0	**27.6**	**16.6**	<2.0	<2.0	<2.0	<0.5	**4.2**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-16-20-REP	X	20	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**387**	<5.0	<10.0	<10.0	**789**	<4.0	**27.1**	**16.9**	<2.0	<2.0	<2.0	<0.5	**4.1**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-17 MS-17B & MS-17R	MS-17-5		5	8/27/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**1570**	<5.0	<10.0	<10.0	**2470**	<4.0	**55.1**	<5.0	<2.0	**2.4**	<2.0	<0.5	**13.0**	**5.4**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-17R-5		5	4/4/22	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**1060**	<5.0	<10.0	<10.0	**1450**	**34.6**	**34.7**	**72.5**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-17-10		10	8/27/21	µg/m^3	<2.0	**51.0**	<2.0	<2.0	**3.4**	**5.5**	<4.0	<1.0	**1900**	**39.6**	<10.0	<10.0	**2950**	<4.0	**72.3**	<5.0	<2.0	**19.7**	**7.0**	<0.5	**62.1**	**19.3**	<5.0	<5.0	<5.0	<5.0	**128**	<5.0	<5.0	<5.0
	MS-17-20		20	8/27/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**1280**	<5.0	<10.0	<10.0	**2870**	**4.3**	**194**	**9.3**	<2.0	<2.0	<2.0	<0.5	**2.6**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-17R-20		20	4/4/22	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**1210**	<5.0	<10.0	<10.0	**2210**	**4.6**	**139**	**30.3**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-17B-40		40	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	**2.5**	<4.0	<1.0	**234**	**46.0**	<10.0	<10.0	**1260**	**4.3**	**58.8**	**12.1**	<2.0	**2.1**	<2.0	<0.5	**10.8**	**2.2**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-17R-40		40	4/4/22	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	**2.3**	<1.0	<1.0	**454**	**14.8**	<10.0	<10.0	**1030**	**5.2**	**54.9**	**25.5**	<2.0	<2.0	<2.0	<0.5	<5.0	**2.2**	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-17B-60		60	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	**2.7**	<4.0	<1.0	**50.3**	**61.7**	<10.0	<10.0	**356**	**3.5**	**13.1**	**18.1**	<2.0	**2.2**	<2.0	<0.5	**12.7**	**2.3**	<5.0	<5.0	<5.0	<5.0	**823**	<5.0	<5.0	<5.0

Table 7
RFI Soil Vapor Analytical Results - Volatile Organic Compounds (VOCs)

Location or Boring ID	Field Sample ID	Duplicate	Sample Depth in feet below ground surface	Sample Date	Units	Isopropylbenzene	4-Isopropyltoluene	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane (Freon-11)	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	Methyl tert butyl ether (MTBE)	Ethyl-tert-butyl ether	Di-isopropylether	tert-amyl methyl ether	tert-Butyl alcohol	n-Pentane (Tracer Gas)	n-Hexane (Tracer Gas)	n-Heptane (Tracer Gas)
Commercial/Industrial Screening Levels for Comparison																																			
DTSC-SL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						--	--	24,000	--	--	7.8E+06	--	--	4,000	2.6E+06	28,000	3,400	8.8E+06	--	--	1.1E+07	3.2	--	--	320	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						3.6E+06	--	2.4E+06	720	8.8E+06	8.8E+06	3,400	420	94,000	4.4E+07	--	17,600	4.4E+07	1,540	6,000	--	2,600	520,000	520,000	5,600	880,000	880,000	94,000	300,000	6.2E+06	--	4.4E+07	8.8E+06	6.2E+06	3.6E+06
DTSC-SL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						--	--	12,000	--	--	3.9E+06	--	--	2,000	1.3E+06	14,000	1,700	4.4E+06	--	--	5.3E+06	2	--	--	160	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						1.8E+06	--	1.2E+06	360	4.4E+06	4.4E+06	1,700	210	47,000	2.2E+07	--	8,800	2.2E+07	770	3,000	--	1,300	260,000	260,000	2,800	440,000	440,000	47,000	150,000	3.1E+06	--	2.2E+07	4.4E+06	3.1E+06	1.8E+06
DTSC-SL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						--	--	400	--	--	130,000	--	--	67	43,333	467	57	146,667	--	--	176,667	0.053	--	--	5	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						60,000	--	40,000	12	146,667	146,667	57	7	1,567	733,333	--	293	733,333	26	100	--	43	8,667	8,667	93	14,667	14,667	1,567	5,000	103,333	--	733,333	146,667	103,333	60,000
MS-18	MS-18-5		5	8/27/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**43.1**	<5.0	<10.0	<10.0	**48.5**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-18-10		10	8/27/21	µg/m^3	<2.0	**40.4**	<2.0	**2.2**	**3.0**	<2.0	<4.0	<1.0	**62.0**	**26.6**	<10.0	<10.0	**67.0**	<4.0	<5.0	<5.0	<2.0	**19.9**	**7.0**	<0.5	**70.9**	**28.7**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-18-20		20	9/17/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**120**	<5.0	<10.0	<10.0	**161**	<4.0	**5.1**	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-19	MS-19-5		5	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**14.0**	**10.5**	<10.0	<10.0	**10.4**	<4.0	<5.0	**10.8**	<2.0	**2.5**	<2.0	<0.5	**15.1**	**6.1**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-19-10		10	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MS-19-20		20	9/3/21	µg/m^3	**2.8**	<2.0	<20.0	<2.0	**3.8**	<2.0	<4.0	<1.0	**70.3**	**31.1**	<10.0	<10.0	**80.4**	<4.0	<5.0	**35.2**	<2.0	**15.0**	**3.8**	<0.5	**324**	**140**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-20	MS-20-5		5	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**9.3**	**58.7**	<10.0	<10.0	**2.1**	<4.0	<5.0	**9.8**	<2.0	**2.2**	<2.0	<0.5	**13.7**	**3.6**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-20-10		10	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MS-20-20		20	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**9.3**	**70.8**	<10.0	<10.0	**5.5**	<4.0	<5.0	**12.5**	<2.0	**2.3**	<2.0	<0.5	**13.2**	**3.0**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-21 & MS-21R	MS-21-5		5	9/17/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**7.7**	<5.0	<10.0	<10.0	**5.8**	<4.0	**5.6**	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	**138**	**124**	**49.5**
	MS-21-5R		5	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**14.5**	<5.0	<10.0	<10.0	**8.1**	<4.0	<5.0	**29.5**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-21R-5		5	4/4/22	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**18.6**	<5.0	<10.0	<10.0	**9.8**	<2.0	<5.0	**74.1**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-21R-5REP	X	5	4/4/22	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**20.1**	<5.0	<10.0	<10.0	**9.2**	<2.0	<5.0	**71.0**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-21-20		20	9/17/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**30.1**	**4.8**	<10.0	<10.0	**16.3**	<4.0	**2.8**	**31.9**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-21R-20		20	4/4/22	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**37.7**	<5.0	<10.0	<10.0	**21.3**	<2.0	<5.0	**82.9**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
MS-22	MS-22-5		5	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**6.8**	<5.0	<10.0	<10.0	**6.8**	<4.0	<5.0	**11.2**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-22-20		20	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**15.4**	<5.0	<10.0	<10.0	**11.9**	<4.0	<5.0	**16.8**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-23	MS-23-5		5	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	**2**	<4.0	<1.0	<5.0	**11.6**	<10.0	<10.0	**7.6**	<4.0	<5.0	**12.2**	<2.0	<2.0	<2.0	<0.5	**3.1**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-23-5 REP	X	5	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	**3.1**	<4.0	<1.0	**7.4**	**14.7**	<10.0	<10.0	**11.7**	<4.0	<5.0	**17.9**	<2.0	<2.0	<2.0	<0.5	**3.4**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-23-5		5	11/8/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**5.6**	<5.0	<10.0	<10.0	**8.5**	<4.0	<5.0	**15.5**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-23-20		20	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**21.4**	<5.0	<10.0	<10.0	**29.5**	<4.0	<5.0	**59.1**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-23-20		20	11/8/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**23.6**	<5.0	<10.0	<10.0	**27.6**	<4.0	<5.0	**56.7**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-23B	MS-23B-40		40	11/8/21	µg/m^3	<2.0	**13.2**	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**35.9**	**13.3**	<10.0	<10.0	**20.5**	<4.0	<5.0	**75.3**	<2.0	**15.1**	<2.0	<0.5	**3.8**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-23B-40-REP	X	40	11/8/21	µg/m^3	<2.0	**13.5**	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**33.6**	**15.1**	<10.0	<10.0	**19.4**	<4.0	<5.0	**74**	<2.0	**15.8**	<2.0	<0.5	**4.5**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-23B-40		40	4/4/22	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**46.3**	<5.0	<10.0	<10.0	**25.6**	<2.0	**5.5**	**108**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-23B-60		60	11/8/21	µg/m^3	**2.6**	**35.7**	<20.0	<2.0	<2.0	**3.8**	<4.0	<1.0	**6.2**	**51.3**	<10.0	<10.0	**4.9**	<4.0	<5.0	**89.9**	<2.0	**28.8**	**6.6**	<0.5	**16.8**	**4.9**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-23B-80		80	11/8/21	µg/m^3	<2.0	**4.5**	<20.0	<2.0	<2.0	**11.2**	<4.0	<1.0	**29.8**	**69.3**	<10.0	<10.0	**17.5**	<4.0	**7.2**	**198**	<2.0	<2.0	**3.4**	<0.5	**27.1**	**7.4**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-23B-100		100	11/8/21	µg/m^3	<2.0	**2.0**	<20.0	<2.0	<2.0	**3.7**	<4.0	<1.0	**66.2**	**17.6**	<10.0	<10.0	**15.9**	<4.0	**18.8**	**329**	<2.0	**3.3**	<2.0	<0.5	**8.3**	**2.4**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-23B-100-REP	X	100	11/8/21	µg/m^3	<2.0	**2.6**	<20.0	<2.0	<2.0	**4.8**	<4.0	<1.0	**66.1**	**20.5**	<10.0	<10.0	**16.4**	<4.0	**19.4**	**323**	<2.0	**4.2**	<2.0	<0.5	**11.1**	**3.2**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-23B-100		100	4/4/22	µg/m^3	<2.0	<2.0	**2.8**	<2.0	<2.0	<2.0	<1.0	<1.0	**66.0**	<5.0	<10.0	<10.0	**16.5**	<2.0	**15.6**	**386**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
MS-23C	MS-23C-125		125	1/12/22	µg/m^3	<1.0	**9.8**	**4.7**	<5.0	<1.0	**1.6**	<1.0	<2.0	**36.2**	**16.0**	<10.0	<10.0	<1.0	<1.0	**8.9**	**411**	<1.0	**2.7**	**1.0**	<1.0	**6.9**	**2.6**	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
	MS-23C-150		150	1/12/22	µg/m^3	<1.0	**15**	**8.6**	<5.0	**1.3**	**3.6**	<1.0	<2.0	**58.7**	**29.6**	<10.0	<10.0	<1.0	<1.0	**16.4**	**340**	<1.0	**3.7**	**1.4**	<1.0	**9.0**	**3.5**	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
	MS-23C-150		150	4/4/22	µg/m^3	<2.0	<2.0	**6.7**	<2.0	<2.0	<2.0	<1.0	<1.0	**109**	**24.0**	<10.0	<10.0	**4.4**	<2.0	**21.8**	**429**	<2.0	<2.0	<2.0	**1.1**	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-23C-175		175	1/12/22	µg/m^3	<1.0	**14.2**	**11.1**	<5.0	<1.0	**3.8**	<1.0	<2.0	**67.6**	**21.6**	<10.0	<10.0	<1.0	<1.0	**19.8**	**256**	<1.0	**3.4**	**1.1**	<1.0	**10.0**	**3.5**	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
	MS-23C-200		200	1/12/22	µg/m^3	<1.0	**4.3**	**27.2**	<5.0	**1.6**	**4.9**	<1.0	<2.0	**196**	**25.1**	<10.0	<10.0	<1.0	<1.0	**42.3**	**94.6**	<1.0	**3.5**	**1.2**	<1.0	**10.8**	**3.6**	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
	MS-23C-200		200	4/4/22	µg/m^3	<2.0	<2.0	**22.0**	<2.0	<2.0	<2.0	<1.0	<1.0	**197**	**13.5**	<10.0	<10.0	**1.2**	<2.0	**41.5**	**119**	<2.0	<2.0	<2.0	**2.4**	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
MS-23D	MS-23D-250		250	10/7/22	µg/m^3	<2.0	**3.1**	**16.5**	<2.0	<2.0	<2.0	<1.0	<1.0	**51.5**	**5.8**	<10.0	<10.0	<2.0	<2.0	**19.2**	**27.1**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50.0	<50.0	<50.0
	MS-23D-250 REP	X	250	10/7/22	µg/m^3	<2.0	**3.7**	**18.8**	<2.0	<2.0	<2.0	<1.0	<1.0	**55.4**	**6.3**	<10.0	<10.0	<2.0	<2.0	**22.2**	**29.9**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50.0	<50.0	<50.0
	MS-23D-300		300	10/7/22	µg/m^3	<2.0	**2.9**	**4.0**	<2.0	<2.0	<2.0	<1.0	<1.0	**7.8**	**10.9**	<10.0	<10.0	<2.0	<2.0	<5.0	**5.7**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50.0	<50.0	<50.0
	MS-23D-350		350	10/7/22	µg/m^3	<2.0	**2.5**	**7.0**	<2.0	<2.0	<2.0	<1.0	<1.0	**26.8**	**18.6**	<10.0	<10.0	<2.0	<2.0	**13.8**	**5.2**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50.0	<50.0	<50.0
	MS-23D-400		400	10/7/22	µg/m^3	<2.0	**2.2**	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**26.0**	**21.0**	<10.0	<10.0	<2.0	<2.0	**5.2**	<5.0	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50.0	<50.0	<50.0
MS-24	MS-24-5		5	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	**12.6**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-24-20		20	10/18/21	µg/m^3	<2.0	**5.3**	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**6.0**	<5.0	<10.0	<10.0	**13.2**	<4.0	<5.0	**70.7**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0

Table 7
RFI Soil Vapor Analytical Results - Volatile Organic Compounds (VOCs)

Location or Boring ID	Field Sample ID	Duplicate	Sample Depth in feet below ground surface	Sample Date	Units	Isopropylbenzene	4-Isopropyltoluene	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane (Freon-11)	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	Methyl tert butyl ether (MTBE)	Ethyl-tert-butyl ether	Di-isopropylether	tert-amyl methyl ether	tert-Butyl alcohol	n-Pentane (Tracer Gas)	n-Hexane (Tracer Gas)	n-Heptane (Tracer Gas)
Commercial/Industrial Screening Levels for Comparison																																			
DTSC-SL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						--	--	24,000	--	--	7.8E+06	--	--	4,000	2.6E+06	28,000	3,400	8.8E+06	--	--	1.1E+07	3.2	--	--	320	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						3.6E+06	--	2.4E+06	720	8.8E+06	8.8E+06	3,400	420	94,000	4.4E+07	--	17,600	4.4E+07	1,540	6,000	--	2,600	520,000	520,000	5,600	880,000	880,000	94,000	300,000	6.2E+06	--	4.4E+07	8.8E+06	6.2E+06	3.6E+06
DTSC-SL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						--	--	12,000	--	--	3.9E+06	--	--	2,000	1.3E+06	14,000	1,700	4.4E+06	--	--	5.3E+06	2	--	--	160	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						1.8E+06	--	1.2E+06	360	4.4E+06	4.4E+06	1,700	210	47,000	2.2E+07	--	8,800	2.2E+07	770	3,000	--	1,300	260,000	260,000	2,800	440,000	440,000	47,000	150,000	3.1E+06	--	2.2E+07	4.4E+06	3.1E+06	1.8E+06
DTSC-SL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						--	--	400	--	--	130,000	--	--	67	43,333	467	57	146,667	--	--	176,667	0.053	--	--	5	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						60,000	--	40,000	12	146,667	146,667	57	7	1,567	733,333	--	293	733,333	26	100	--	43	8,667	8,667	93	14,667	14,667	1,567	5,000	103,333	--	733,333	146,667	103,333	60,000
MS-25	MS-25-5		5	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	**10.2**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-25-20		20	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	**14.4**	<10.0	<10.0	<2.0	<4.0	<5.0	**83.7**	<2.0	<2.0	<2.0	<0.5	**4**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-26 & MS-26R	MS-26-5		5	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	**5.6**	<10.0	<10.0	**12.3**	<4.0	<5.0	**38.8**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-26R-5		5	4/4/22	µg/m^3	<2.0	**2.9**	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**7.5**	<5.0	<10.0	<10.0	**7.7**	<2.0	**5.8**	**45.2**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-26-20		20	10/18/21	µg/m^3	<2.0	**3.2**	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**11.6**	**10.1**	<10.0	<10.0	**7.8**	<4.0	<5.0	**89.2**	<2.0	**2.6**	<2.0	<0.5	**2.9**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-26R-20		20	4/4/22	µg/m^3	<2.0	**6.9**	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**9.8**	**5.0**	<10.0	<10.0	**4.8**	<2.0	<5.0	**77.2**	<2.0	<2.0	<2.0	<0.5	**6.6**	**4.5**	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
MS-27	MS-27-5		5	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**6.3**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	**33**	<2.0	<2.0	<2.0	<0.5	**6.8**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-27-20		20	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**16.3**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	**23.9**	<2.0	<2.0	<2.0	<0.5	<0.5	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-28	MS-28-5		5	11/8/21	µg/m^3	<2.0	**13.3**	<20.0	<2.0	<2.0	**7.5**	<4.0	<1.0	<5.0	**41.5**	<10.0	<10.0	<2.0	<4.0	<5.0	**35.8**	<2.0	**15.1**	<2.0	<0.5	**17.7**	**4.6**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-28-20		20	11/8/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	**2.0**	<4.0	<1.0	**6.4**	**16.2**	<10.0	<10.0	<2.0	<4.0	<5.0	**152**	<2.0	<2.0	<2.0	<0.5	**4.9**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-29	MS-29-5		5	2/11/22	µg/m^3	<1.0	**10.2**	<1.0	<5.0	<1.0	<1.0	<1.0	<2.0	**5.7**	**7.4**	<2.0	<2.0	<1.0	<1.0	<1.0	**51.2**	<1.0	**7.2**	**1.3**	<1.0	**12.1**	**4.1**	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
	MS-29-5		5	4/4/22	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**9.5**	<5.0	<10.0	<10.0	<2.0	<2.0	<5.0	**133**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-29-20		20	2/11/22	µg/m^3	<1.0	<1.0	<1.0	<5.0	**1.8**	<1.0	<1.0	<2.0	**10.3**	**44.5**	<2.0	<2.0	**3.7**	<1.0	**4.7**	**11900***	<1.0	**5.9**	**2**	<1.0	**36.3**	**9.1**	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
	MS-29-20		20	4/4/22	µg/m^3	**NO FLOW**																														
MS-30	MS-30-5		5	2/11/22	µg/m^3	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<2.0	**3.2**	<1.0	<2.0	<2.0	<1.0	<1.0	**1.1**	**14.4**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
	MS-30-5		5	4/4/22	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**8.4**	<5.0	<10.0	<10.0	<2.0	<2.0	<5.0	**13.6**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-30-20		20	2/11/22	µg/m^3	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<2.0	**9.0**	**2.2**	<2.0	<2.0	<1.0	<1.0	**1.4**	**59.8**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
	MS-30-20		20	4/4/22	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**10.9**	**3.8**	<10.0	<10.0	<2.0	<2.0	<5.0	**70.0**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
MS-31	MS-31-5		5	2/11/22	µg/m^3	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<2.0	**1.8**	<1.0	<2.0	<2.0	<1.0	<1.0	<1.0	**34**	<1.0	**1.7**	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
	MS-31-20		20	2/11/22	µg/m^3	**1.6**	<1.0	<1.0	<5.0	<1.0	**2.7**	<1.0	<2.0	**5.8**	**15.4**	<2.0	<2.0	<1.0	<1.0	**1.7**	**99.3**	<1.0	**7.8**	<1.0	<1.0	**10.5**	**6**	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
MS-32	MS-32-5		5	2/11/22	µg/m^3	**1.9**	**19.8**	<1.0	<5.0	<1.0	<1.0	<1.0	<2.0	**5.1**	**90.4**	<2.0	<2.0	<1.0	<1.0	<1.0	**17.3**	<1.0	**2.1**	**1.2**	<1.0	**24.5**	**9**	<5.0	<5.0	<5.0	<5.0	**23600**	<10.0	<10.0	<10.0
	MS-32-20		20	2/11/22	µg/m^3	**1.8**	**18.9**	<1.0	<5.0	<1.0	**4.2**	<1.0	<2.0	**21.7**	**99.8**	<2.0	<2.0	**1.5**	<1.0	**2.4**	**11.4**	<1.0	**2.9**	**1.5**	<1.0	**31.9**	**12.5**	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
	MS-32-20-REP	X	20	2/11/22	µg/m^3	**2**	**16.9**	<1.0	<5.0	<1.0	**3.9**	<1.0	<2.0	**23.7**	**87.4**	<2.0	<2.0	**1.4**	<1.0	**2.1**	**12.1**	<1.0	**3.2**	**1.6**	<1.0	**29.5**	**11.9**	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
SS-4	SS-4-5		5	8/27/21	µg/m^3	<2.0	**54.2**	<2.0	<2.0	<2.0	**4.1**	<4.0	<1.0	**239**	**28.5**	<10.0	<10.0	**224**	<4.0	<5.0	<5.0	<2.0	**16.9**	**5.5**	<0.5	**31.7**	**10.3**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-4-10		10	8/27/21	µg/m^3	<2.0	**26.9**	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**329**	**9.8**	<10.0	<10.0	**356**	<4.0	**8.0**	**3.6**	<2.0	**8.2**	**2.9**	<0.5	**19.9**	**6.9**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-4-20		20	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**479**	<5.0	<10.0	<10.0	**820**	<4.0	**37.0**	**11.6**	<2.0	<2.0	<2.0	<0.5	**13.1**	**2.6**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
SS-5	SS-5-5		5	8/27/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**38.8**	<5.0	<10.0	<10.0	**21.8**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**6.4**	**3.6**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-5-5-REP	X	5	8/27/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**38.7**	<5.0	<10.0	<10.0	**23.2**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**4.8**	**3.2**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-5-10		10	8/27/21	µg/m^3	<2.0	**34.3**	<2.0	<2.0	**3.8**	**10.2**	<4.0	<1.0	**41.8**	**49.1**	<10.0	<10.0	**26.2**	<4.0	<5.0	<5.0	<2.0	**15.3**	**6.4**	<0.5	**130**	**50.4**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-5-20		20	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS-6	SS-6-5		5	8/27/21	µg/m^3	<2.0	**30.4**	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**17.1**	<5.0	<10.0	<10.0	**14.6**	<4.0	<5.0	<5.0	<2.0	**13.9**	**4.6**	<0.5	**12.0**	**4.5**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-6-10		10	8/27/21	µg/m^3	<2.0	**168**	<2.0	<2.0	**9.1**	**4.2**	<4.0	<1.0	**44.4**	**26.8**	<10.0	<10.0	**46.3**	<4.0	<5.0	<5.0	<2.0	**58.7**	**21.4**	<0.5	**89.7**	**28.5**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-6-20		20	9/17/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**165**	<5.0	<10.0	<10.0	**213**	<4.0	**4.9**	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
SS-7	SS-7-5		5	8/31/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**34.4**	<5.0	<10.0	<10.0	**31.0**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	**165000**	**34900**	**25700**
	SS-7-5-RERUN		5	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**30.2**	<5.0	<10.0	<10.0	**21.7**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-7-10		10	8/31/21	µg/m^3	<2.0	**25.9**	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**56.5**	<5.0	<10.0	<10.0	**79.2**	<4.0	<5.0	<5.0	<2.0	**14.6**	**3.6**	<0.5	**2.8**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-7-20		20	9/17/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**188**	<5.0	<10.0	<10.0	**253**	<4.0	**5.8**	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
SS-8	SS-8-5		5	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-8-10		10	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-8-20		20	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS-9	SS-9-5		5	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-9-10		10	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-9-20		20	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 7
RFI Soil Vapor Analytical Results - Volatile Organic Compounds (VOCs)

Location or Boring ID	Field Sample ID	Duplicate	Sample Depth in feet below ground surface	Sample Date	Units	Isopropylbenzene	4-Isopropyltoluene	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane (Freon-11)	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	Methyl tert butyl ether (MTBE)	Ethyl-tert-butyl ether	Di-isopropylether	tert-amyl methyl ether	tert-Butyl alcohol	n-Pentane (Tracer Gas)	n-Hexane (Tracer Gas)	n-Heptane (Tracer Gas)
Commercial/Industrial Screening Levels for Comparison																																			
DTSC-SL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						--	--	24,000	--	--	7.8E+06	--	--	4,000	2.6E+06	28,000	3,400	8.8E+06	--	--	1.1E+07	3.2	--	--	320	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						3.6E+06	--	2.4E+06	720	8.8E+06	8.8E+06	3,400	420	94,000	4.4E+07	--	17,600	4.4E+07	1,540	6,000	--	2,600	520,000	520,000	5,600	880,000	880,000	94,000	300,000	6.2E+06	--	4.4E+07	8.8E+06	6.2E+06	3.6E+06
DTSC-SL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						--	--	12,000	--	--	3.9E+06	--	--	2,000	1.3E+06	14,000	1,700	4.4E+06	--	--	5.3E+06	2	--	--	160	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						1.8E+06	--	1.2E+06	360	4.4E+06	4.4E+06	1,700	210	47,000	2.2E+07	--	8,800	2.2E+07	770	3,000	--	1,300	260,000	260,000	2,800	440,000	440,000	47,000	150,000	3.1E+06	--	2.2E+07	4.4E+06	3.1E+06	1.8E+06
DTSC-SL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						--	--	400	--	--	130,000	--	--	67	43,333	467	57	146,667	--	--	176,667	0.053	--	--	5	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						60,000	--	40,000	12	146,667	146,667	57	7	1,567	733,333	--	293	733,333	26	100	--	43	8,667	8,667	93	14,667	14,667	1,567	5,000	103,333	--	733,333	146,667	103,333	60,000
SS-10 & SS-10R	SS-10-5		5	8/27/21	µg/m^3	<2.0	**2.4**	<2.0	**5.5**	<2.0	<2.0	<4.0	<1.0	**66.2**	**7.6**	<10.0	<10.0	**33.3**	<4.0	<5.0	<5.0	<2.0	**10.2**	**3.1**	<0.5	**108**	**54.5**	<5.0	<5.0	<5.0	<5.0	**138**	<5.0	<5.0	<5.0
	SS-10R-5		5	4/4/22	µg/m^3	<2.0	**9.9**	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**32.4**	**12.5**	<10.0	<10.0	**28.5**	<2.0	**13.1**	**7.8**	<2.0	<2.0	<2.0	<0.5	**19.1**	**7.7**	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	SS-10-10		10	8/27/21	µg/m^3	<2.0	**11.3**	<2.0	**17.3**	**2.1**	<2.0	<4.0	<1.0	**63.8**	**7.4**	<10.0	<10.0	**36.5**	<4.0	<5.0	<5.0	<2.0	**28.7**	**8.2**	<0.5	**187**	**96.2**	<5.0	<5.0	<5.0	<5.0	**112**	<5.0	<5.0	<5.0
	SS-10-20		20	9/1/21	µg/m^3	**8.7**	<2.0	<20.0	<2.0	**4.2**	<2.0	<4.0	<1.0	**85.2**	**9.4**	<10.0	<10.0	**99.4**	<4.0	<5.0	**8.5**	<2.0	**3.3**	**3.2**	<0.5	**816**	**159**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-10R-20		20	4/4/22	µg/m^3	<2.0	**5.1**	<2.0	<2.0	<2.0	**7.8**	<1.0	<1.0	**76.0**	**6.6**	<10.0	<10.0	**67.0**	<2.0	**6.5**	**9.3**	<2.0	<2.0	<2.0	<0.5	**95.7**	**34.8**	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
SS-11	SS-11-5		5	8/31/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**64.4**	**5.0**	<10.0	<10.0	**32.9**	<4.0	<5.0	**6.5**	<2.0	**2.6**	<2.0	<0.5	**3.2**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-11-10		10	8/31/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**88.1**	<5.0	<10.0	<10.0	**48.8**	<4.0	<5.0	**8.4**	<2.0	**2.5**	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-11-20		20	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**42.8**	<5.0	<10.0	<10.0	**53.9**	<4.0	<5.0	**11.2**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
SS-12	SS-12-5		5	8/31/21	µg/m^3	<2.0	**3.8**	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**34.3**	<5.0	<10.0	<10.0	**20.8**	<4.0	<5.0	<5.0	<2.0	**3.4**	<2.0	<0.5	**2.0**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	**125000**	**25900**	**18900**
	SS-12-5-RERUN		5	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**45.4**	<5.0	<10.0	<10.0	**34.8**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	**266**	**300**	**229**
	SS-12-5R		5	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**30.9**	**5.7**	<10.0	<10.0	**23.4**	<4.0	<5.0	**10.8**	<2.0	<2.0	<2.0	<0.5	**96.4**	**43.4**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-12-10		10	8/31/21	µg/m^3	<2.0	**7.1**	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**110**	<5.0	<10.0	<10.0	**121**	<4.0	<5.0	**6.8**	<2.0	**7.6**	<2.0	<0.5	**2.4**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-12-20		20	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**220**	<5.0	<10.0	<10.0	**345**	<4.0	**8.4**	**18.3**	<2.0	<2.0	<2.0	<0.5	**8.8**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
AOI 36 - Former Hazardous Waste Area																																			
F36-1	F36-1-5		5	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	F36-1-10		10	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
F36-2	F36-2-5		5	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	F36-2-10		10	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
F36-3	F36-3-5		5	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	F36-3-10		10	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	**1340**	**6040**	**8630**
	F36-3-10		10	9/17/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	**129**	**136**	**58.5**

Notes:

Bold: Reported chemical concentration in micrograms per cubic meter (µg/m^3)

<: Not detected at or above the indicated Reporting Limit (RL)

-- : No published value or not analyzed

* : Dilution required for this compound

NS: Not sampled

DTSC-SL: Department of Toxic Substances Control-modified screening level (May 2022)

EPA RSL: United States Environmental Protection Agency Regional Screening Level (May 2023)

AF: Attenuation Factor (see Notes 1 and 2 for additional information)

8260B: VOC Analytical Method

Calculated commercial screening values for soil vapor using the default AFs listed (for DTSC SL, the lower of the cancer or non-cancer level was used)

Concentration exceeds the commercial soil vapor screening level after application of the most conservative default soil vapor AF 0.03

Concentration exceeds the commercial soil vapor screening level after application of default soil vapor AF 0.001

Tracer gas concentration was detected in soil vapor sample (results may not be representative of subsurface conditions due to ambient air intrusion in sample)

1 : Default AF of 0.001 for soil vapor in future commercial settings is in accordance with the DTSC Final Vapor Intrusion Guidance document (October 2011)

2 : Default AF of 0.001 for soil vapor in existing commercial settings is in accordance with the DTSC Final Vapor Intrusion Guidance document (October 2011)

3 : Default AF of 0.03 for soil vapor in accordance with the Final Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion from DTSC and California Water Resources Control Board (February 2023)

Table 7A
Summary of Temporal Variation Assessment in Soil Vapor

Location or Boring ID	Field Sample ID	Sample Depth in feet below ground surface	Sample Date	Units	Average RPD (Per Sample Set)	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chloroform	Dibromochloromethane	Dichlorodifluoromethane (Freon-12)	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Ethylbenzene	Freon-113	Isopropylbenzene	4-Isopropyltoluene	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene (PCE)	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane (Freon-11)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	tert-Butyl alcohol
Commercial/Industrial Screening Levels for Comparison																																					
DTSC-SL - Commercial Soil Vapor (default AF of 0.001[1]) [ug/m3]						420	--	--	--	--	--	580	--	--	--	310,000	35,000	--	--	--	--	12,000	--	--	3,900,000	2,000	1,300,000	4,400,000	--	--	5,300,000	--	--	160	--	--	--
EPA RSL - Commercial Soil Vapor (default AF of 0.001[1]) [ug/m3]						1,600	260,000	330	11,000	2,000	530	--	440,000	7,700	470	880,000	--	4,900	22,000,000	1,800,000	--	1,200,000	360	4,400,000	4,400,000	47,000	22,000,000	22,000,000	770	3,000	--	260,000	260,000	2,800	440,000	440,000	22,000,000
DTSC-SL - Commercial Soil Vapor (default AF of 0.03[2]) [ug/m3]						14	--	--	--	--	--	19	--	--	--	10,333	1,167	--	--	--	--	400	--	--	130,000	67	43,333	146,667	--	--	176,667	--	--	5	--	--	--
EPA RSL - Commercial Soil Vapor (default AF of 0.03[2]) [ug/m3]						53	8,667	11	367	67	18	--	14,667	257	16	29,333	--	163	733,333	60,000	--	40,000	12	146,667	146,667	1,567	733,333	733,333	26	100	--	8,667	8,667	93	14,667	14,667	733,333
Labortaory RL [ug/m3]						0.5	2.0	2.0	2.0	1.0	2.0	2.0	5.0	1.0	1.0	1.0	1.0	2.0	5.0	2.0	2.0	2.0	2.0	2.0	2.0	5.0	5.0	2.0	4.0	5.0	5.0	2.0	2.0	0.5	2.0	2.0	100.0
5x Laboratory RL [ug/m3]						2.5	10.0	10.0	10.0	5.0	10.0	10.0	25.0	5.0	5.0	5.0	5.0	10.0	25.0	10.0	10.0	10.0	10.0	10.0	10.0	25.0	25.0	10.0	20.0	25.0	25.0	10.0	10.0	2.5	10.0	10.0	500.0
AOI 17 - Maintenance Shop																																					
MS-10 & MS-10R	MS-10-5	5	8/31/21	µg/m3	--	<0.5	<2.0	<2.0	<2.0	**3.2**	**19.3**	<2.0	**5.7**	**12.2**	<1.0	**14.1**	<1.0	<2.0	<5.0	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	**11.2**	<5.0	**8.1**	<4.0	<5.0	<5.0	<2.0	<0.5	<2.0	<2.0	<1.0
	MS-10R-5	5	4/4/22	µg/m3	--	**1.9**	<2.0	<2.0	<2.0	**3.3**	**44.8**	<2.0	**14.0**	**15.3**	<1.0	**18.5**	<1.0	**2.7**	<5.0	<2.0	**60.5**	<2.0	<2.0	<2.0	**2.0**	**15.0**	**17.1**	**10.1**	<2.0	<5.0	**37.4**	**7.6**	<2.0	<0.5	**7.5**	**3.3**	<25.0
	RPD	--	--	%	**37.8**	--	--	--	--	--	**79.6**	--	--	**22.5**	--	**27.0**	--	--	--	--	--	--	--	--	--	--	--	**22.0**	--	--	--	--	--	--	--	--	--
	MS-10-20	20	9/1/21	µg/m3		<0.5	<2.0	**13.5**	<2.0	**22.8**	**185**	<2.0	**13.1**	**180**	**8.3**	**285**	<1.0	<2.0	**6.5**	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<2.0	**66.0**	<5.0	**44.9**	<4.0	**9.6**	**6.1**	<2.0	<2.0	<0.5	<2.0	<2.0	<1.0
	MS-10R-20	20	4/4/22	µg/m3		**1.8**	<2.0	**11.4**	<2.0	**27.7**	**175**	<2.0	**20.9**	**154**	**10.9**	**232**	<1.0	**2.8**	<5.0	<2.0	**10.0**	<2.0	<2.0	<2.0	<2.0	**57.5**	**25.5**	**43.0**	<2.0	**9.0**	**46.1**	<2.0	<2.0	<0.5	**7.5**	**2.7**	<25.0
	RPD	--	--	%	**15.4**	--	--	**16.9**	--	**19.4**	**5.6**	--	--	**15.6**	**27.1**	**20.5**	--	--	--	--	--	--	--	--	--	**13.8**	--	**4.3**	--	--	--	--	--	--	--	--	--
MS-13 MS-13B & MS-13R	MS-13-5	5	8/31/21	µg/m3		**0.7**	<2.0	<2.0	<2.0	**7.6**	**68.2**	<2.0	**10.6**	**11.5**	<1.0	**46.5**	<1.0	<2.0	<5.0	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	**32.3**	<5.0	**23.8**	<4.0	<5.0	**11.6**	<2.0	<2.0	<0.5	**2.4**	<2.0	<100
	MS-13R-5	5	4/4/22	µg/m3		**16.2**	<2.0	<2.0	<2.0	**7.1**	**66.4**	<2.0	**21.1**	**16.4**	<1.0	**55.5**	<1.0	**23.6**	<5.0	**3.0**	**26.6**	<2.0	<2.0	<2.0	**8.7**	**25.7**	**41.8**	**24.6**	<2.0	<5.0	**364**	<2.0	<2.0	<0.5	**104**	**36.9**	<25.0
	RPD	--	--	%	**14.7**	--	--	--	--	**6.8**	**2.7**	--	--	**35.1**	--	**17.6**	--	--	--	--	--	--	--	--	--	**22.8**	--	**3.3**	--	--	--	--	--	--	--	--	--
	MS-13-20	20	9/1/21	µg/m3		**1.2**	<2.0	**2.5**	<2.0	**51.5**	**640**	<2.0	**26.2**	**255**	**3.4**	**501**	<1.0	**3.0**	<5.0	<2.0	**3.3**	<20.0	<2.0	<2.0	<2.0	**95.6**	**10.7**	**87.3**	<4.0	**11.6**	**31.4**	**5.3**	<2.0	<0.5	**5.8**	<2.0	<100
	MS-13R-20	20	4/4/22	µg/m3		**4.2**	<2.0	**3.8**	<2.0	**41.7**	**454**	<2.0	**38.4**	**219**	**3.7**	**385**	<1.0	**4.6**	<5.0	**3.2**	**13.2**	<2.0	<2.0	<2.0	**2.1**	**76.7**	**16.3**	**81.7**	<2.0	**20.1**	**192**	**3.2**	<2.0	<0.5	**19.5**	**6.9**	<25.0
	RPD	--	--	%	**38.3**	--	--	--	--	**21.0**	**34.0**	--	**37.8**	**15.2**	--	**26.2**	--	--	--	--	--	--	--	--	--	**21.9**	--	**6.6**	--	--	**143.8**	--	--	--	--	--	--
	MS-13B-50	50	9/3/21	µg/m3		**3.8**	<2.0	**2.2**	<2.0	**65.6**	**668**	<2.0	**26.1**	**343**	**23.4**	**555**	<1.0	**2.6**	<5.0	<2.0	<2.0	<20.0	<2.0	<2.0	**2.6**	**19.9**	**51.5**	**74.2**	<4.0	**9.2**	**34.7**	**2.4**	<2.0	<0.5	**10.2**	<2.0	**792**
	MS-13R-46	46	4/4/22	µg/m3		**2.3**	<2.0	**3.6**	<2.0	**100**	**732**	<2.0	**54.8**	**406**	**23.2**	**665**	<1.0	<2.0	**5.7**	<2.0	**8.0**	<2.0	<2.0	<2.0	<2.0	**122**	**6.6**	**110**	**3.9**	**17.2**	**99.2**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**48.5**	--	--	--	--	**41.5**	**9.1**	--	**71.0**	**16.8**	**0.9**	**18.0**	--	--	--	--	--	--	--	--	--	**143.9**	--	**38.9**	--	--	**96.3**	--	--	--	--	--	--
MS-17 MS-17B & MS-17R	MS-17-5	5	8/27/21	µg/m3		**0.8**	<2.0	<2.0	<2.0	<1.0	**13.6**	<2.0	**7.9**	**1950**	<1.0	**125**	<1.0	**2.9**	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**1570**	<5.0	**2470**	<4.0	**55.1**	<5.0	**2.4**	<2.0	<0.5	**13.0**	**5.4**	<100
	MS-17R-5	5	4/4/22	µg/m3		**0.8**	<2.0	<2.0	<2.0	<1.0	**39.3**	<2.0	**15.0**	**1120**	<1.0	**98.3**	<1.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**1060**	<5.0	**1450**	**34.6**	**34.7**	**72.5**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**51.9**	--	--	--	--	--	**97.2**	--	--	**54.1**	--	**23.9**	--	--	--	--	--	--	--	--	--	**38.8**	--	**52.0**	--	**45.4**	--	--	--	--	--	--	--
	MS-17-20	20	8/27/21	µg/m3		<0.5	<2.0	<2.0	<2.0	**13.2**	**88.4**	<2.0	**18.5**	**3290**	**3.5**	**482**	**6.5**	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**1280**	<5.0	**2870**	**4.3**	**194**	**9.3**	<2.0	<2.0	<0.5	**2.6**	<2.0	<100
	MS-17R-20	20	4/4/22	µg/m3		**1.1**	<2.0	<2.0	<2.0	**12.3**	**130**	<2.0	**30.8**	**2950**	**5.1**	**525**	**5.1**	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**1210**	<5.0	**2210**	**4.6**	**139**	**30.3**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**19.2**	--	--	--	--	**7.1**	**38.1**	--	--	**10.9**	--	**8.5**	**24.1**	--	--	--	--	--	--	--	--	**5.6**	--	**26.0**	--	**33.0**	--	--	--	--	--	--	--
	MS-17B-40	40	9/3/21	µg/m3		**4.2**	<2.0	<2.0	<2.0	<1.0	**122**	<2.0	**13.4**	**1830**	**7.5**	**587**	**2.6**	**3.2**	<5.0	<2.0	<2.0	<20.0	<2.0	<2.0	**2.5**	**234**	**46.0**	**1260**	**4.3**	**58.8**	**12.1**	**2.1**	<2.0	<0.5	**10.8**	**2.2**	<100
	MS-17R-40	40	4/4/22	µg/m3		**7.4**	<2.0	<2.0	<2.0	**17.4**	**162**	<2.0	**31.3**	**1570**	**11.4**	**596**	<1.0	**2.7**	**5.5**	<2.0	<2.0	<2.0	<2.0	<2.0	**2.3**	**454**	**14.8**	**1030**	**5.2**	**54.9**	**25.5**	<2.0	<2.0	<0.5	<5.0	**2.2**	<25.0
	RPD	--	--	%	**32.1**	**55.2**	--	--	--	--	**28.2**	--	**80.1**	**15.3**	**41.3**	**1.5**	--	--	--	--	--	--	--	--	**8.3**	**64.0**	--	**20.1**	--	**6.9**	--	--	--	--	--	--	--
MS-21 & MS-21R	MS-21-5R	5	10/18/21	µg/m3		<0.5	<2.0	<2.0	<2.0	**1.9**	**55**	<2.0	**12.4**	**2.3**	<1.0	**2.5**	<1.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**14.5**	<5.0	**8.1**	<4.0	<5.0	**29.5**	<2.0	<2.0	<0.5	<2.0	<2.0	<100
	MS-21R-5	5	4/4/22	µg/m3		<0.5	<2.0	<2.0	<2.0	**8.1**	**199**	<2.0	**24.0**	**10.1**	<1.0	**18.9**	<1.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**18.6**	<5.0	**9.8**	<2.0	<5.0	**74.1**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**99.7**	--	--	--	--	--	**113.4**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**86.1**	--	--	--	--	--	--
	MS-21-20	20	9/17/21	µg/m3		**0.6**	<2.0	**4.8**	<2.0	**22.9**	**787**	<2.0	**22.5**	**44.6**	<1.0	**132**	<1.0	<2.0	**2.6**	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	**30.1**	**4.8**	**16.3**	<4.0	**2.8**	**31.9**	<2.0	<2.0	<0.5	<2.0	<2.0	<1.0
	MS-21R-20	20	4/4/22	µg/m3		<0.5	<2.0	**5.2**	<2.0	**31.1**	**770**	<2.0	**44.1**	**69.4**	<1.0	**183**	<1.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**37.7**	<5.0	**21.3**	<2.0	<5.0	**82.9**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**35.2**	--	--	--	--	**30.4**	**2.2**	--	--	**43.5**	--	**32.4**	--	--	--	--	--	--	--	--	--	**22.4**	--	**26.6**	--	--	**88.9**	--	--	--	--	--	--
MS-23B	MS-23B-40	40	11/8/21	µg/m3		**3.6**	<2.0	**15.4**	**5.9**	**38.4**	**975**	**12.4**	**26.7**	**84.7**	<1.0	**263**	<1.0	<2.0	<5.0	<2.0	**13.2**	<20.0	<2.0	<2.0	<2.0	**35.9**	**13.3**	**20.5**	<4.0	<5.0	**75.3**	**15.1**	<2.0	<0.5	**3.8**	<2.0	<100
	MS-23B-40	40	4/4/22	µg/m3		**0.6**	<2.0	**12.0**	**5.5**	**54.7**	**1210**	**7.5**	**67.0**	**104**	<1.0	**271**	<1.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**46.3**	<5.0	**25.6**	<2.0	**5.5**	**108**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**30.4**	--	--	**24.8**	--	**35.0**	**21.5**	--	**86.0**	**20.5**	--	**3.0**	--	--	--	--	--	--	--	--	--	**25.3**	--	**22.1**	--	--	**35.7**	--	--	--	--	--	--
	MS-23B-100	100	11/8/21	µg/m3		**5.3**	<2.0	**17.8**	**2.1**	**444**	**1840**	**4.8**	**87.4**	**363**	**12.2**	**725**	<1.0	**2.9**	<5.0	<2.0	**2.0**	<20.0	<2.0	<2.0	**3.7**	**66.2**	**17.6**	**15.9**	<4.0	**18.8**	**329**	**3.3**	<2.0	<0.5	**8.3**	**2.4**	<100
	MS-23B-100	100	4/4/22	µg/m3		**1.1**	<2.0	**23.0**	**7.1**	**470**	**1790**	**13.6**	**192**	**341**	**10.1**	**651**	<1.0	<2.0	<5.0	<2.0	<2.0	**2.8**	<2.0	<2.0	<2.0	**66.0**	<5.0	**16.5**	<2.0	**15.6**	**386**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**16.5**	--	--	**25.5**	--	**5.7**	**2.8**	--	**74.9**	**6.3**	**18.8**	**10.8**	--	--	--	--	--	--	--	--	--	**0.3**	--	**3.7**	--	--	**15.9**	--	--	--	--	--	--
MS-23C	MS-23C-150	150	1/12/22	ug/m3		**8.6**	<1.0	**32.8**	<1.0	**1450**	**1230**	**5.0**	**96.8**	**259**	<1.0	**534**	<1.0	**4.3**	**4.6**	<1.0	**15**	**8.6**	<5.0	**1.3**	**3.6**	**58.7**	**29.6**	<1.0	<1.0	**16.4**	**340**	**3.7**	**1.4**	<1.0	**9.0**	**3.5**	<50
	MS-23C-150	150	4/4/22	ug/m3		**7.3**	<2.0	**77.4**	**3.0**	**2650**	**1900**	**17.2**	**243**	**362**	**6.1**	**736**	<1.0	**3.5**	**6.2**	<2.0	<2.0	**6.7**	<2.0	<2.0	<2.0	**109**	**24.0**	**4.4**	<2.0	**21.8**	**429**	<2.0	<2.0	**1.1**	<5.0	<2.0	<25.0
	RPD	--	--	%	**48.1**	**16.4**	--	**80.9**	--	**58.5**	**42.8**	--	**86.1**	**33.2**	--	**31.8**	--	--	--	--	--	--	--	--	--	**60.0**	--	--	--	--	**23.1**	--	--	--	--	--	--
	MS-23C-200	200	1/12/22	µg/m3		**13.8**	<1.0	**9.9**	<1.0	**4270**	**1130**	<1.0	**63.1**	**493**	**17.1**	**860**	<1.0	**5.4**	**8.3**	<1.0	**4.3**	**27.2**	<5.0	**1.6**	**4.9**	**196**	**25.1**	<1.0	<1.0	**42.3**	**94.6**	**3.5**	**1.2**	<1.0	**10.8**	**3.6**	<50
	MS-23C-200	200	4/4/22	µg/m3		**4.8**	<2.0	**59.4**	**3.1**	**4920**	**1370**	**13.7**	**144**	**451**	**14.0**	**899**	**2.1**	**2.1**	**8.8**	<2.0	<2.0	**22.0**	<2.0	<2.0	<2.0	**197**	**13.5**	**1.2**	<2.0	**41.5**	**119**	<2.0	<2.0	**2.4**	<5.0	<2.0	<25.0
	RPD	--	--	%	**26.2**	**96.8**	--	--	--	**14.1**	**19.2**	--	**78.1**	**8.9**	**19.9**	**4.4**	--	--	--	--	--	**21.1**	--	--	--	**0.5**	--	--	--	**1.9**	**22.8**	--	--	--	--	--	--

Table 7A
Summary of Temporal Variation Assessment in Soil Vapor

Location or Boring ID	Field Sample ID	Sample Depth in feet below ground surface	Sample Date	Units	Average RPD (Per Sample Set)	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chloroform	Dibromochloromethane	Dichlorodifluoromethane (Freon-12)	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Ethylbenzene	Freon-113	Isopropylbenzene	4-Isopropyltoluene	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene (PCE)	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane (Freon-11)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	tert-Butyl alcohol
Commercial/Industrial Screening Levels for Comparison																																					
DTSC-SL - Commercial Soil Vapor (default AF of 0.001[1]) [ug/m3]						420	--	--	--	--	--	580	--	--	--	310,000	35,000	--	--	--	--	12,000	--	--	3,900,000	2,000	1,300,000	4,400,000	--	--	5,300,000	--	--	160	--	--	--
EPA RSL - Commercial Soil Vapor (default AF of 0.001[1]) [ug/m3]						1,600	260,000	330	11,000	2,000	530	--	440,000	7,700	470	880,000	--	4,900	22,000,000	1,800,000	--	1,200,000	360	4,400,000	4,400,000	47,000	22,000,000	22,000,000	770	3,000	--	260,000	260,000	2,800	440,000	440,000	22,000,000
DTSC-SL - Commercial Soil Vapor (default AF of 0.03[2]) [ug/m3]						14	--	--	--	--	--	19	--	--	--	10,333	1,167	--	--	--	--	400	--	--	130,000	67	43,333	146,667	--	--	176,667	--	--	5	--	--	--
EPA RSL - Commercial Soil Vapor (default AF of 0.03[2]) [ug/m3]						53	8,667	11	367	67	18	--	14,667	257	16	29,333	--	163	733,333	60,000	--	40,000	12	146,667	146,667	1,567	733,333	733,333	26	100	--	8,667	8,667	93	14,667	14,667	733,333
Labortaory RL [ug/m3]						0.5	2.0	2.0	2.0	1.0	2.0	2.0	5.0	1.0	1.0	1.0	1.0	2.0	5.0	2.0	2.0	2.0	2.0	2.0	2.0	5.0	5.0	2.0	4.0	5.0	5.0	2.0	2.0	0.5	2.0	2.0	100.0
5x Laboratory RL [ug/m3]						2.5	10.0	10.0	10.0	5.0	10.0	10.0	25.0	5.0	5.0	5.0	5.0	10.0	25.0	10.0	10.0	10.0	10.0	10.0	10.0	25.0	25.0	10.0	20.0	25.0	25.0	10.0	10.0	2.5	10.0	10.0	500.0
AOI 17 - Maintenance Shop																																					
MS-26 & MS-26R	MS-26-5	5	10/18/21	µg/m3		<0.5	<2.0	<2.0	<2.0	**2.8**	**4.0**	<2.0	**16.2**	<1.0	<1.0	**1.1**	<1.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	**5.6**	**12.3**	<4.0	<5.0	**38.8**	<2.0	<2.0	<0.5	<2.0	<2.0	<100
	MS-26R-5	5	4/4/22	µg/m3		**1.2**	<2.0	<2.0	<2.0	**4.4**	**4.1**	<2.0	**34.3**	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<2.0	**2.9**	<2.0	<2.0	<2.0	<2.0	**7.5**	<5.0	**7.7**	<2.0	**5.8**	**45.2**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**29.8**	--	--	--	--	**44.4**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**15.2**	--	--	--	--	--	--
	MS-26-20	20	10/18/21	µg/m3		**1.8**	<2.0	**3.7**	<2.0	**81.9**	**114**	<2.0	**30**	**1.1**	<1.0	**39.8**	<1.0	<2.0	<5.0	<2.0	**3.2**	<2.0	<2.0	<2.0	<2.0	**11.6**	**10.1**	**7.8**	<4.0	<5.0	**89.2**	**2.6**	<2.0	<0.5	**2.9**	<2.0	<100
	MS-26R-20	20	4/4/22	µg/m3		**1.0**	<2.0	**3.6**	<2.0	**84.4**	**88.6**	<2.0	**50.3**	<1.0	<1.0	**32.2**	<1.0	<2.0	<5.0	<2.0	**6.9**	<2.0	<2.0	<2.0	<2.0	**9.8**	**5.0**	**4.8**	<2.0	<5.0	**77.2**	<2.0	<2.0	<0.5	**6.6**	**4.5**	<25.0
	RPD	--	--	%	**22.8**	--	--	--	--	**3.0**	**25.1**	--	**50.6**	--	--	**21.1**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**14.4**	--	--	--	--	--	--
MS-29	MS-29-5	5	2/11/22	µg/m3		**1.5**	<1.0	**3.4**	**1.7**	**3.1**	**8.6**	**2.7**	**5**	**1.1**	<1.0	**8.5**	<1.0	**3.2**	<2.0	<1.0	**10.2**	<1.0	<5.0	<1.0	<1.0	**5.7**	**7.4**	<1.0	<1.0	<1.0	**51.2**	**7.2**	**1.3**	<1.0	**12.1**	**4.1**	<50
	MS-29-5	5	4/4/22	µg/m3		<0.5	<2.0	<2.0	<2.0	**5.6**	**8.3**	<2.0	**13.6**	**2.5**	<1.0	**15.2**	<1.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**9.5**	<5.0	<2.0	<2.0	<5.0	**133**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**72.7**	--	--	--	--	--	--	--	--	--	--	**56.5**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**88.8**	--	--	--	--	--	--
	MS-29-20	20	2/11/22	µg/m3		**19**	<1.0	**2.8**	<1.0	**22.6**	**123**	<1.0	**8.9**	**50.4**	<1.0	**155**	<1.0	**9.0**	<2.0	<1.0	<1.0	<1.0	<5.0	**1.8**	<1.0	**10.3**	**44.5**	**3.7**	<1.0	**4.7**	**11,900***	**5.9**	**2**	<1.0	**36.3**	**9.1**	<50
	MS-29-20	20	4/4/22	µg/m3		**NO FLOW - NOT SAMPLED**																																	
	RPD	--	--	%	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MS-30	MS-30-5	5	2/11/22	µg/m3		<1.0	<1.0	**1.2**	<1.0	**6.5**	**3.1**	**1.1**	**8.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	**3.2**	<1.0	<1.0	<1.0	**1.1**	**14.4**	<1.0	<1.0	<1.0	<2.0	<1.0	<50
	MS-30-5	5	4/4/22	µg/m3		<0.5	<2.0	<2.0	<2.0	**5.9**	<2.0	<2.0	**17.3**	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**8.4**	<5.0	<2.0	<2.0	<5.0	**13.6**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**9.7**	--	--	--	--	**9.7**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MS-30-20	20	2/11/22	µg/m3		<1.0	<1.0	**3.9**	<1.0	**39.9**	**33.7**	<1.0	**21.9**	<1.0	<1.0	**24.5**	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	**9.0**	**2.2**	<1.0	<1.0	**1.4**	**59.8**	<1.0	<1.0	<1.0	<2.0	<1.0	<50
	MS-30-20	20	4/4/22	µg/m3		<0.5	<2.0	**3.5**	<2.0	**42.7**	**30.5**	<2.0	**44.1**	<1.0	<1.0	**28.6**	<1.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**10.9**	**3.8**	<2.0	<2.0	<5.0	**70.0**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**12.0**	--	--	--	--	**6.8**	**10.0**	--	--	--	--	**15.4**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**15.7**	--	--	--	--	--	--
SS-10 & SS-10R	SS-10-5	5	8/27/21	µg/m3		**1.3**	<2.0	<2.0	<2.0	<1.0	<2.0	<2.0	**9.1**	<1.0	<1.0	**2.3**	<1.0	**19.4**	<5.0	<2.0	**2.4**	<2.0	**5.5**	<2.0	<2.0	**66.2**	**7.6**	**33.3**	<4.0	<5.0	<5.0	**10.2**	**3.1**	<0.5	**108**	**54.5**	**138**
	SS-10R-5	5	4/4/22	µg/m3		**3.9**	<2.0	<2.0	<2.0	<1.0	**3.5**	<2.0	**14.8**	<1.0	<1.0	**4.1**	<1.0	**3.8**	<5.0	<2.0	**9.9**	<2.0	<2.0	<2.0	<2.0	**32.4**	**12.5**	**28.5**	<2.0	**13.1**	**7.8**	<2.0	<2.0	<0.5	**19.1**	**7.7**	<25.0
	RPD	--	--	%	**74.7**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**68.6**	--	**15.5**	--	--	--	--	--	--	**139.9**	--	--
	SS-10-20	20	9/1/21	µg/m3		**2.2**	<2.0	<2.0	<2.0	**1.5**	**17.5**	<2.0	**12.0**	**72.2**	<1.0	**85.6**	<1.0	**319**	**6.2**	**8.7**	<2.0	<20.0	<2.0	**4.2**	<2.0	**85.2**	**9.4**	**99.4**	<4.0	<5.0	**8.5**	**3.3**	**3.2**	<0.5	**816**	**159**	<100
	SS-10R-20	20	4/4/22	µg/m3		**1.9**	<2.0	<2.0	<2.0	**2.4**	**16.9**	<2.0	**16.9**	**58.9**	<1.0	**62.4**	<1.0	**15.2**	<5.0	<2.0	**5.1**	<2.0	<2.0	<2.0	**7.8**	**76.0**	**6.6**	**67.0**	<2.0	**6.5**	**9.3**	<2.0	<2.0	<0.5	**95.7**	**34.8**	<25.0
	RPD	--	--	%	**71.7**	--	--	--	--	--	**3.5**	--	--	**20.3**	--	**31.4**	--	**181.8**	--	--	--	--	--	--	--	**11.4**	--	**38.9**	--	--	--	--	--	--	**158.0**	**128.2**	--
	Average RPD (Per Analyte):			***%***	--	***56.1***	--	***37.0***	--	***21.7***	***31.5***	--	***70.6***	***22.7***	***21.6***	***20.6***	***24.1***	***181.8***	--	--	--	***21.1***	--	--	***8.3***	***35.7***	--	***21.5***	--	***21.8***	***53.9***	--	--	--	***149.0***	***128.2***	--

Notes:

Bold: Reported chemical concentration in micrograms per cubic meter (µg/m^3)

<: Not detected at or above the indicated Reporting Limit (RL)

-- : No published value or not applicable

* : Dilution required for this compound

DTSC-SL: Department of Toxic Substances Control-modified screening level (May 2022)

EPA RSL: United States Environmental Protection Agency Regional Screening Level (May 2023)

AF: Attenuation Factor (see Notes 1 and 2 for additional information)

RPD: Realtive Percent Difference between sample results were calculated for all detected analytes that were greater than five times (5x) the laboratory RL:

$$RPD = \frac{|D_1 - D_2|}{(D_1 + D_2)/2} \times 100$$

where D_1 = Original sample result and D_2 = Resample result in different season

Calculated commercial screening values for soil vapor using the default attenuation factors listed (for DTSC SL, the lower of the cancer or non-cancer level was used)

Typical Reporting Limit (RL) published by analytical laboratory (assuming no dilution necessary)

Concentration exceeds a commercial soil vapor screening level after application of a default AF 0.001

RPD (averaged over a sample pair or for a specific analyte) exceeds 50%

1 : Default AF of 0.001 for soil vapor in existing commercial settings is in accordance with the DTSC Final Vapor Intrusion Guidance document (October 2011)

2 : Default AF of 0.03 for soil vapor in accordance with the Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion from DTSC and California Water Resources Control Board (February 2020)

Table 8
RFI Groundwater Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Depth (feet)	Sample ID	Date	Units	EPA Method 8260																							
						1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone
	California Maximum Contaminant Level (MCL) [January 2023]					--	200	1	1,200	5	5	6	--	--	--	5	--	--	--	600	0.5	5	--	--	--	5	--	--	--	--
RFI Samples																													
17 (Maintenance Shop)	MS-23D	460	MS-23D-GW	09/15/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<10
Equipment Rinsate Blanks																													
--	--	--	EB-091522	09/15/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**8.4 J**	<1.0	<10
Trip Blanks																													
--	--	--	TB-091522	09/15/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<10
Field Blanks																													
--	--	--	FB-091522	09/15/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<10
Reagant Water Samples (Sparkletts Distilled Water)																													
--	--	--	SDW-1	05/26/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<10

NOTES:

8.4	**Bold** value is reported concentration above the laboratory Method Detection Limit (MDL).
J	Concentration is below the RL but above the MDL so the result represents an estimated value
<1.0	Denotes analyte not detected above the posted Reporting Limit (RL)
--	Not applicable or no published value
ug/L	Micrograms per liter
80*	80 ug/L represents the MCL for "total trihalomethanes" which includes bromodichloromethane, bromoform, chloroform, and dibromochloromethane.
EPA	United States Environmental Protection Agency

Table 8
RFI Groundwater Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Depth (feet)	Sample ID	Date	Units	EPA Method 8260																								
						4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether (DIPE)	Ethanol	Ethylbenzene	Ethyl-t-butyl ether (ETBE)	Isopropylbenzene	m,p-Xylene
	California Maximum Contaminant Level (MCL) [January 2023]					--	--	--	1	--	--	80*	80*	--	--	0.5	--	--	80*	--	6	--	80*	--	--	--	--	300	--	--	1,750
RFI Samples																														
17 (Maintenance Shop)	MS-23D	460	MS-23D-GW	09/15/22	µg/L	<1.0	<10	**10**	<0.50	<1.0	<2.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<5.0	<1.0	<10	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0
Equipment Rinsate Blanks																														
--	--	--	EB-091522	09/15/22	µg/L	<1.0	<10	<10	<0.50	<1.0	<2.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<5.0	<1.0	<10	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0
Trip Blanks																														
--	--	--	TB-091522	09/15/22	µg/L	<1.0	<10	<10	<0.50	<1.0	<2.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<5.0	<1.0	<10	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0
Field Blanks																														
--	--	--	FB-091522	09/15/22	µg/L	<1.0	<10	<10	<0.50	<1.0	<2.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<5.0	<1.0	<10	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0
Reagant Water Samples (Sparkletts Distilled Water)																														
--	--	--	SDW-1	05/26/22	µg/L	<1.0	<10	<20	<0.50	<1.0	<2.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<5.0	<1.0	<10	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0

NOTES:

8.4	**Bold** value is reported concentration above the laboratory Method Detection Limit (MDL).
J	Concentration is below the RL but above the MDL so the result represents an estimated value
<1.0	Denotes analyte not detected above the posted Reporting Limit (RL)
--	Not applicable or no published value
ug/L	Micrograms per liter
80*	80 ug/L represents the MCL for "total trihalomethanes" which includes bromodichloromethane, bromoform, chloroform, and dibromochloromethane.
EPA	United States Environmental Protection Agency

Table 8
RFI Groundwater Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Depth (feet)	Sample ID	Date	Units	EPA Method 8260																		
						Methylene Chloride	Methyl-t-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	N-Propylbenzene	o-Xylene	p-isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amyl-methyl ether (TAME)	tert-Butyl alcohol (TBA)	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane (Freon 11)	Vinyl acetate	Vinyl chloride
	California Maximum Contaminant Level (MCL) [January 2023]					5	13	--	--	--	1,750	--	--	100	--	--	--	5	150	10	--	5	150	--	0.5
RFI Samples																								
17 (Maintenance Shop)	MS-23D	460	MS-23D-GW	09/15/22	µg/L	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<10	<0.50
Equipment Rinsate Blanks																								
--	--	--	EB-091522	09/15/22	µg/L	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<10	<0.50
Trip Blanks																								
--	--	--	TB-091522	09/15/22	µg/L	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<10	<0.50
Field Blanks																								
--	--	--	FB-091522	09/15/22	µg/L	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<10	<0.50
Reagant Water Samples (Sparkletts Distilled Water)																								
--	--	--	SDW-1	05/26/22	µg/L	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<10	<0.50

NOTES:

8.4	**Bold** value is reported concentration above the laboratory Method Detection Limit (MDL).
J	Concentration is below the RL but above the MDL so the result represents an estimated value
<1.0	Denotes analyte not detected above the posted Reporting Limit (RL)
--	Not applicable or no published value
ug/L	Micrograms per liter
80*	80 ug/L represents the MCL for "total trihalomethanes" which includes bromodichloromethane, bromoform, chloroform, and dibromochloromethane.
EPA	United States Environmental Protection Agency

Table 9
RFI Soil Sample Field Quality Control Results - TPH

Sample Type: / Sample Date		Field Duplicates Results 8/23/2021					Field Duplicate Results 8/23/2021					Field Duplicate Results 8/24/2021					Field Duplicates Results 8/25/2021					Field Duplicate Results 8/26/2021				
Carbon Range	**Units**	**RL**	**PT2-3-0.5**	**RL**	**Duplicate PT2-103-0.5**	**RPD (%)**	**RL**	**SS-8-2.5**	**RL**	**Duplicate SS-108-2.5**	**RPD (%)**	**RL**	**MS-16-0.5**	**RL**	**Duplicate MS-116-0.5**	**RPD (%)**	**RL**	**SS-11-5**	**RL**	**Duplicate SS-111-5**	**RPD (%)**	**RL**	**F11-1-0.5**	**RL**	**Duplicate F11-101-0.5**	**RPD (%)**
C13-C22	mg/kg	4.9	<4.9	4.9	**7.8**	--	120	<120	4.9	<4.9	--	99	<99	100	<100	--	4.9	**8.2**	4.9	<4.9	--	4.8	**7.8**	4.9	**5.7**	--
C23-C32	mg/kg	4.9	**5.3**	4.9	**64**	--	120	<120	4.9	<4.9	--	99	**1600**	100	**910**	**55%**	4.9	**9.5**	4.9	**5.4**	--	4.8	**20**	4.9	**18**	--
C4-C12	mg/kg	0.095	<0.095	0.098	<0.098	--	0.085	<0.085	0.081	<0.081	--	0.10	<0.10	0.090	<0.090	--	0.10	<0.10	0.13	<0.13	--	--	--	--	--	--

Sample Type: / Sample Date		Field Duplicate Results 8/26/2021					Field Duplicate Results 8/26/2021					Field Duplicate Results 8/27/2021					Field Duplicate Results 8/27/2021					Field Duplicate Results 8/31/2021				
Carbon Range	**Units**	**RL**	**F11-10-0.5**	**RL**	**Duplicate F11-110-0.5**	**RPD (%)**	**RL**	**MS-13-2.5**	**RL**	**Duplicate MS-113-2.5**	**RPD (%)**	**RL**	**DT-1-2.5**	**RL**	**Duplicate DT-101-2.5**	**RPD (%)**	**RL**	**DT-4-10**	**RL**	**Duplicate DT-104-10**	**RPD (%)**	**RL**	**F11-5-0.5**	**RL**	**Duplicate F11-105-0.5**	**RPD (%)**
C13-C22	mg/kg	5.0	**15**	5.0	**9.6**	--	25	**20 J**	4.9	<4.9	--	5.0	<5.0	4.9	**7.9**	--	5.0	**6.2**	4.9	**6.8**	--	4.8	**11**	4.8	**11**	--
C23-C32	mg/kg	5.0	**62**	5.0	**29**	--	25	**170**	4.9	<4.9	--	5.0	**4.7 J**	4.9	**6.1**	--	5.0	**4.6 J**	4.9	**5.1**	--	4.8	**11**	4.8	**13**	--
C4-C12	mg/kg	--	--	--	--	--	0.086	<0.086	0.095	<0.095	--	0.095	<0.095	0.090	<0.090	--	0.10	<0.10	0.097	<0.097	--	--	--	--	--	--

Sample Type: / Sample Date		Field Duplicate Results 8/24/2021					Field Duplicate Results 8/30/2021					Field Duplicate Results 9/16/2021					Field Duplicate Results 9/2/2021				
Carbon Range	**Units**	**RL**	**SS-5-0.5**	**RL**	**Duplicate SS-105-0.5**	**RPD (%)**	**RL**	**T1-2-23-2.5**	**RL**	**Duplicate T1-2-123-2.5**	**RPD (%)**	**RL**	**T3-4-5SW-0.5**	**RL**	**Duplicate T3-4-105SW-0.5**	**RPD (%)**	**RL**	**T3-4-9-2.5**	**RL**	**Duplicate T3-4-109-2.5**	**RPD (%)**
C13-C22	mg/kg	97	<97	98	<98	--	5.0	**3.8 J**	5.0	**6.6**	--	5.0	<5.0	5.0	<5.0	--	4.9	<4.9	5.0	<5.0	--
C23-C32	mg/kg	97	**3000**	98	**1400**	**73%**	5.0	**8.1**	5.0	**6.9**	--	5.0	<5.0	5.0	<5.0	--	4.9	<4.9	5.0	<5.0	--
C4-C12	mg/kg	0.087	<0.087	0.085	<0.085	--	0.087	<0.087	0.086	<0.086	--	--	--	--	--	--	0.078	<0.078	0.086	<0.086	--

Notes:

TPH: Total Petroleum Hydrocarbons

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above RL

mg/kg: milligrams per kilogram

µg/l: micrograms per liter

RPD for duplicate sample pair exceeds 50%

Table 10
RFI Soil Sample Field Quality Control Results - VOCs

	Sample Type:	Field Duplicates Results					Field Duplicates Results				
	Sample Date:	8/26/2021					8/26/2021				
Parameter	**Units**	**RL**	**F11-1-0.5**	**RL**	**Duplicate F11-101-0.5**	**RPD (%)**	**RL**	**F11-10-0.5**	**RL**	**Duplicate F11-110-0.5**	**RPD (%)**
1,1,1,2-Tetrachloroethane	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,1,1-Trichloroethane	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,1,2,2-Tetrachloroethane	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	8.6	<8.6	10	<10	--	8.3	<8.3	9.1	<9.1	--
1,1,2-Trichloroethane	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,1-Dichloroethane	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,1-Dichloroethene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,1-Dichloropropene	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
1,2,3-Trichlorobenzene	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
1,2,3-Trichloropropane	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
1,2,4-Trichlorobenzene	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
1,2,4-Trimethylbenzene	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
1,2-Dibromo-3-chloropropane	ug/kg	8.6	<8.6	10	<10	--	8.3	<8.3	9.1	<9.1	--
1,2-Dibromoethane	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,2-Dichlorobenzene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,2-Dichloroethane	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,2-Dichloropropane	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,3,5-Trimethylbenzene	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
1,3-Dichlorobenzene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,3-Dichloropropane	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,4-Dichlorobenzene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
2,2-Dichloropropane	ug/kg	4.3	<4.3	5.1	<5.1	--	4.1	<4.1	4.6	<4.6	--
2-Butanone	ug/kg	17	**11 J**	21	**13 J**	--	17	**23**	18	**51**	--
2-Chlorotoluene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
2-Hexanone	ug/kg	17	**3.9 J**	21	**4.8 J**	--	17	**5.0 J**	18	**11 J**	--
4-Chlorotoluene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
4-Methyl-2-pentanone	ug/kg	17	<17	21	<21	--	17	**3.2 J**	18	<18	--
Acetone	ug/kg	17	**78**	21	**110**	--	17	**140**	18	**240**	**53%**
Benzene	ug/kg	0.86	**0.71 J**	1.0	**0.88 J**	--	0.83	**0.74 J**	0.91	**0.76 J**	--
Bromobenzene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Bromodichloromethane	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Bromoform	ug/kg	4.3	<4.3	5.1	<5.1	--	4.1	<4.1	4.6	<4.6	--
Bromomethane	ug/kg	17	<17	21	<21	--	17	<17	18	<18	--
Carbon disulfide	ug/kg	8.6	**0.56 J**	10	**0.56 J**	--	8.3	**0.41 J**	9.1	<9.1	--
Carbon tetrachloride	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Chlorobenzene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Chlorobromomethane	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
Chloroethane	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
Chloroform	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Chloromethane	ug/kg	17	<17	21	<21	--	17	<17	18	<18	--
cis-1,2-Dichloroethene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
cis-1,3-Dichloropropene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Dibromochloromethane	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
Dibromomethane	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Dichlorodifluoromethane	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
Di-isopropyl ether (DIPE)	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Ethanol	ug/kg	220	**79 J**	260	**84 J**	--	210	**140 J**	230	**120 J**	--
Ethylbenzene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Ethyl-t-butyl ether (ETBE)	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Isopropylbenzene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
m,p-Xylene	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
Methylene chloride	ug/kg	8.6	<8.6	10	<10	--	8.3	<8.3	9.1	<9.1	--
Methyl-t-Butyl Ether (MTBE)	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
Naphthalene	ug/kg	8.6	<8.6	10	<10	--	8.3	<8.3	9.1	<9.1	--
n-Butylbenzene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
N-Propylbenzene	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
o-Xylene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
p-Isopropyltoluene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
sec-Butylbenzene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Styrene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Tert-amyl-methyl ether (TAME)	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
tert-Butyl alcohol (TBA)	ug/kg	17	<17	21	<21	--	17	<17	18	<18	--
tert-Butylbenzene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Tetrachloroethene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Toluene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
trans-1,2-Dichloroethene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
trans-1,3-Dichloropropene	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
Trichloroethene	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
Trichlorofluoromethane	ug/kg	8.6	<8.6	10	<10	--	8.3	<8.3	9.1	<9.1	--
Vinyl chloride	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Vinylacetate	ug/kg	8.6	<8.6	10	<10	--	8.3	<8.3	9.1	<9.1	--

Notes:

RPD for duplicate sample pair exceeds 50%

VOCs: Volatile organic compounds

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above RL

ug/kg: micrograms per kilogram

J: The reported value was obtained from a measurement that was less than the RL but greater than or equal to the MDL (Method Detection Limit)

Table 10
RFI Soil Sample Field Quality Control Results - VOCs

Sample Type: / Sample Date:		Field Duplicates Results 8/31/2021					Field Duplicates Results 8/25/2021				
Parameter	**Units**	**RL**	**F11-5-0.5**	**RL**	**Duplicate F11-105-0.5**	**RPD (%)**	**RL**	**MS-11-10**	**RL**	**Duplicate MS-111-10**	**RPD (%)**
1,1,1,2-Tetrachloroethane	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,1,1-Trichloroethane	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,1,2,2-Tetrachloroethane	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	10	<8.8	8.8	<10	--	9.6	<9.6	12	<12	--
1,1,2-Trichloroethane	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,1-Dichloroethane	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,1-Dichloroethene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,1-Dichloropropene	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
1,2,3-Trichlorobenzene	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
1,2,3-Trichloropropane	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
1,2,4-Trichlorobenzene	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
1,2,4-Trimethylbenzene	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
1,2-Dibromo-3-chloropropane	ug/kg	10	<8.8	8.8	<10	--	9.6	<9.6	12	<12	--
1,2-Dibromoethane	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,2-Dichlorobenzene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,2-Dichloroethane	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,2-Dichloropropane	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,3,5-Trimethylbenzene	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
1,3-Dichlorobenzene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,3-Dichloropropane	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,4-Dichlorobenzene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
2,2-Dichloropropane	ug/kg	5.1	<4.4	4.4	<5.1	--	4.8	<4.8	5.8	<5.8	--
2-Butanone	ug/kg	21	<18	18	<21	--	19	<19	23	<23	--
2-Chlorotoluene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
2-Hexanone	ug/kg	21	<18	18	<21	--	19	<19	23	<23	--
4-Chlorotoluene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
4-Methyl-2-pentanone	ug/kg	21	<18	18	<21	--	19	<19	23	<23	--
Acetone	ug/kg	21	**40**	18	**40**	--	19	**14 J**	23	**14 J**	--
Benzene	ug/kg	1.0	**0.56 J**	0.88	**0.43 J**	--	0.96	<0.96	1.2	<1.2	--
Bromobenzene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Bromodichloromethane	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Bromoform	ug/kg	5.1	<4.4	4.4	<5.1	--	4.8	<4.8	5.8	<5.8	--
Bromomethane	ug/kg	21	<18	18	<21	--	19	<19	23	<23	--
Carbon disulfide	ug/kg	10	<8.8	8.8	<10	--	9.6	<9.6	12	<12	--
Carbon tetrachloride	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Chlorobenzene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Chlorobromomethane	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
Chloroethane	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
Chloroform	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Chloromethane	ug/kg	21	<18	18	<21	--	19	<19	23	<23	--
cis-1,2-Dichloroethene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
cis-1,3-Dichloropropene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Dibromochloromethane	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
Dibromomethane	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Dichlorodifluoromethane	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
Di-isopropyl ether (DIPE)	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Ethanol	ug/kg	260	<220	220	<260	--	240	<240	290	<290	--
Ethylbenzene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Ethyl-t-butyl ether (ETBE)	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Isopropylbenzene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
m,p-Xylene	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
Methylene chloride	ug/kg	10	<8.8	8.8	<10	--	9.6	<9.6	12	<12	--
Methyl-t-Butyl Ether (MTBE)	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
Naphthalene	ug/kg	10	<8.8	8.8	<10	--	9.6	<9.6	12	<12	--
n-Butylbenzene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
N-Propylbenzene	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
o-Xylene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
p-Isopropyltoluene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
sec-Butylbenzene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Styrene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Tert-amyl-methyl ether (TAME)	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
tert-Butyl alcohol (TBA)	ug/kg	21	**7.8 J**	18	<21	--	19	<19	23	<23	--
tert-Butylbenzene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Tetrachloroethene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Toluene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
trans-1,2-Dichloroethene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
trans-1,3-Dichloropropene	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
Trichloroethene	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
Trichlorofluoromethane	ug/kg	10	<8.8	8.8	<10	--	9.6	<9.6	12	<12	--
Vinyl chloride	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Vinylacetate	ug/kg	10	<8.8	8.8	<10	--	9.6	<9.6	12	<12	--

Notes:

RPD for duplicate sample pair exceeds 50%

VOCs: Volatile organic compounds

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above RL

ug/kg: micrograms per kilogram

J: The reported value was obtained from a measurement that was less than the RL but greater than or equal to the MDL (Method Detection Limit)

Table 10
RFI Soil Sample Field Quality Control Results - VOCs

	Sample Type:	Field Duplicates Results					Field Duplicates Results				
	Sample Date:	8/26/2021					8/24/2021				
Parameter	Units	RL	MS-13-2.5	RL	Duplicate MS-113-2.5	RPD (%)	RL	MS-16-0.5	RL	Duplicate MS-116-0.5	RPD (%)
1,1,1,2-Tetrachloroethane	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,1,1-Trichloroethane	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,1,2,2-Tetrachloroethane	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	8.9	<9.0	9.0	<8.9	--	8.1	<7.9	7.9	<8.1	--
1,1,2-Trichloroethane	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,1-Dichloroethane	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,1-Dichloroethene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,1-Dichloropropene	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
1,2,3-Trichlorobenzene	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
1,2,3-Trichloropropane	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
1,2,4-Trichlorobenzene	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
1,2,4-Trimethylbenzene	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
1,2-Dibromo-3-chloropropane	ug/kg	8.9	<9.0	9.0	<8.9	--	8.1	<7.9	7.9	<8.1	--
1,2-Dibromoethane	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,2-Dichlorobenzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,2-Dichloroethane	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,2-Dichloropropane	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,3,5-Trimethylbenzene	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
1,3-Dichlorobenzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,3-Dichloropropane	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,4-Dichlorobenzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
2,2-Dichloropropane	ug/kg	4.4	<4.5	4.5	<4.4	--	4.0	<4.0	4.0	<4.0	--
2-Butanone	ug/kg	18	<18	18	<18	--	16	**5.3 J**	16	<16	--
2-Chlorotoluene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
2-Hexanone	ug/kg	18	<18	18	<18	--	16	<16	16	<16	--
4-Chlorotoluene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
4-Methyl-2-pentanone	ug/kg	18	<18	18	<18	--	16	<16	16	<16	--
Acetone	ug/kg	18	**11 J**	18	<18	--	16	**33**	16	<16	--
Benzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Bromobenzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Bromodichloromethane	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Bromoform	ug/kg	4.4	<4.5	4.5	<4.4	--	4.0	<4.0	4.0	<4.0	--
Bromomethane	ug/kg	18	<18	18	<18	--	16	<16	16	<16	--
Carbon disulfide	ug/kg	8.9	<9.0	9.0	<8.9	--	8.1	<7.9	7.9	**0.45 J**	--
Carbon tetrachloride	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Chlorobenzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Chlorobromomethane	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
Chloroethane	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
Chloroform	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Chloromethane	ug/kg	18	<18	18	<18	--	16	<16	16	<16	--
cis-1,2-Dichloroethene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
cis-1,3-Dichloropropene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Dibromochloromethane	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
Dibromomethane	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Dichlorodifluoromethane	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
Di-isopropyl ether (DIPE)	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Ethanol	ug/kg	220	**100 J**	230	<220	--	200	<200	200	<200	--
Ethylbenzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Ethyl-t-butyl ether (ETBE)	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Isopropylbenzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
m,p-Xylene	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
Methylene chloride	ug/kg	8.9	<9.0	9.0	<8.9	--	8.1	<7.9	7.9	<8.1	--
Methyl-t-Butyl Ether (MTBE)	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
Naphthalene	ug/kg	8.9	<9.0	9.0	<8.9	--	8.1	<7.9	7.9	<8.1	--
n-Butylbenzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
N-Propylbenzene	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
o-Xylene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
p-Isopropyltoluene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
sec-Butylbenzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Styrene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Tert-amyl-methyl ether (TAME)	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
tert-Butyl alcohol (TBA)	ug/kg	18	<18	18	<18	--	16	<16	16	<16	--
tert-Butylbenzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Tetrachloroethene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Toluene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
trans-1,2-Dichloroethene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
trans-1,3-Dichloropropene	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
Trichloroethene	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
Trichlorofluoromethane	ug/kg	8.9	<9.0	9.0	<8.9	--	8.1	<7.9	7.9	<8.1	--
Vinyl chloride	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Vinylacetate	ug/kg	8.9	<9.0	9.0	<8.9	--	8.1	<7.9	7.9	<8.1	--

Notes:

RPD for duplicate sample pair exceeds 50%

VOCs: Volatile organic compounds

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above RL

ug/kg: micrograms per kilogram

J: The reported value was obtained from a measurement that was less than the RL but greater than or equal to the MDL (Method Detection Limit)

Table 10
RFI Soil Sample Field Quality Control Results - VOCs

	Sample Type:	Field Duplicates Results					Field Duplicates Results				
	Sample Date:	8/24/2021					10/14/2021				
Parameter	Units	RL	MS-17-10	RL	Duplicate MS-117-10	RPD (%)	RL	MS-23-5	RL	Duplicate MS-123-5	RPD (%)
1,1,1,2-Tetrachloroethane	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
1,1,1-Trichloroethane	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
1,1,2,2-Tetrachloroethane	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	7.8	<8.3	8.3	<7.8	--	8.6	<9.0	9.0	<8.6	--
1,1,2-Trichloroethane	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
1,1-Dichloroethane	ug/kg	0.78	**0.51 J**	0.83	**0.62 J**	--	0.86	<0.90	0.90	<0.86	--
1,1-Dichloroethene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
1,1-Dichloropropene	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
1,2,3-Trichlorobenzene	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
1,2,3-Trichloropropane	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
1,2,4-Trichlorobenzene	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
1,2,4-Trimethylbenzene	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
1,2-Dibromo-3-chloropropane	ug/kg	7.8	<8.3	8.3	<7.8	--	8.6	<9.0	9.0	<8.6	--
1,2-Dibromoethane	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
1,2-Dichlorobenzene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
1,2-Dichloroethane	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
1,2-Dichloropropane	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
1,3,5-Trimethylbenzene	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
1,3-Dichlorobenzene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
1,3-Dichloropropane	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
1,4-Dichlorobenzene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
2,2-Dichloropropane	ug/kg	3.9	<4.2	4.2	<3.9	--	4.3	<4.5	4.5	<4.3	--
2-Butanone	ug/kg	16	<17	17	<16	--	17	<18	18	<17	--
2-Chlorotoluene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
2-Hexanone	ug/kg	16	<17	17	<16	--	17	<18	18	<17	--
4-Chlorotoluene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
4-Methyl-2-pentanone	ug/kg	16	<17	17	<16	--	17	<18	18	<17	--
Acetone	ug/kg	16	<17	17	<16	--	17	<18	18	<17	--
Benzene	ug/kg	0.78	<0.83	0.83	**1.1**	--	0.86	<0.90	0.90	**0.24 J**	--
Bromobenzene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Bromodichloromethane	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Bromoform	ug/kg	3.9	<4.2	4.2	<3.9	--	4.3	<4.5	4.5	<4.3	--
Bromomethane	ug/kg	16	<17	17	<16	--	17	<18	18	<17	--
Carbon disulfide	ug/kg	7.8	<8.3	8.3	<7.8	--	8.6	<9.0	9.0	<8.6	--
Carbon tetrachloride	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Chlorobenzene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Chlorobromomethane	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
Chloroethane	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
Chloroform	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Chloromethane	ug/kg	16	<17	17	<16	--	17	<18	18	<17	--
cis-1,2-Dichloroethene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
cis-1,3-Dichloropropene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Dibromochloromethane	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
Dibromomethane	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Dichlorodifluoromethane	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
Di-isopropyl ether (DIPE)	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Ethanol	ug/kg	190	<210	210	<190	--	210	**70 J**	220	**130 J**	--
Ethylbenzene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Ethyl-t-butyl ether (ETBE)	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Isopropylbenzene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
m,p-Xylene	ug/kg	1.6	<1.7	1.7	**0.40 J**	--	1.7	<1.8	1.8	<1.7	--
Methylene chloride	ug/kg	7.8	<8.3	8.3	<7.8	--	8.6	<9.0	9.0	<8.6	--
Methyl-t-Butyl Ether (MTBE)	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
Naphthalene	ug/kg	7.8	<8.3	8.3	<7.8	--	8.6	<9.0	9.0	<8.6	--
n-Butylbenzene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
N-Propylbenzene	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
o-Xylene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
p-Isopropyltoluene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
sec-Butylbenzene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Styrene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Tert-amyl-methyl ether (TAME)	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
tert-Butyl alcohol (TBA)	ug/kg	16	<17	17	<16	--	17	<18	18	<17	--
tert-Butylbenzene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Tetrachloroethene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Toluene	ug/kg	0.78	<0.83	0.83	**0.89**	--	0.86	<0.90	0.90	<0.86	--
trans-1,2-Dichloroethene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
trans-1,3-Dichloropropene	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
Trichloroethene	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
Trichlorofluoromethane	ug/kg	7.8	<8.3	8.3	<7.8	--	8.6	<9.0	9.0	<8.6	--
Vinyl chloride	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Vinylacetate	ug/kg	7.8	<8.3	8.3	<7.8	--	8.6	<9.0	9.0	<8.6	--

Notes: RPD for duplicate sample pair exceeds 50%

VOCs: Volatile organic compounds

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above RL

ug/kg: micrograms per kilogram

J: The reported value was obtained from a measurement that was less than the RL but greater than or equal to the MDL (Method Detection Limit)

Table 10
RFI Soil Sample Field Quality Control Results - VOCs

Sample Type: / Sample Date:		Field Duplicates Results 10/15/2021					Field Duplicates Results 9/1/2021				
Parameter	**Units**	**RL**	**MS-27-20**	**RL**	**Duplicate MS-127-20**	**RPD (%)**	**RL**	**P-6-5**	**RL**	**Duplicate P-106-5**	**RPD (%)**
1,1,1,2-Tetrachloroethane	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,1,1-Trichloroethane	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,1,2,2-Tetrachloroethane	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	9.2	<9.8	9.8	<9.2	--	9.4	<9.2	9.2	<9.4	--
1,1,2-Trichloroethane	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,1-Dichloroethane	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,1-Dichloroethene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,1-Dichloropropene	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
1,2,3-Trichlorobenzene	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
1,2,3-Trichloropropane	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
1,2,4-Trichlorobenzene	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
1,2,4-Trimethylbenzene	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
1,2-Dibromo-3-chloropropane	ug/kg	9.2	<9.8	9.8	<9.2	--	9.4	<9.2	9.2	<9.4	--
1,2-Dibromoethane	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,2-Dichlorobenzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,2-Dichloroethane	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,2-Dichloropropane	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,3,5-Trimethylbenzene	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
1,3-Dichlorobenzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,3-Dichloropropane	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,4-Dichlorobenzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
2,2-Dichloropropane	ug/kg	4.6	<4.9	4.9	<4.6	--	4.7	<4.6	4.6	<4.7	--
2-Butanone	ug/kg	18	<20	20	<18	--	19	<18	18	<19	--
2-Chlorotoluene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
2-Hexanone	ug/kg	18	<20	20	<18	--	19	<18	18	<19	--
4-Chlorotoluene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
4-Methyl-2-pentanone	ug/kg	18	<20	20	<18	--	19	<18	18	<19	--
Acetone	ug/kg	18	<20	20	**15 J**	--	19	**15 J**	18	**16 J**	--
Benzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Bromobenzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Bromodichloromethane	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Bromoform	ug/kg	4.6	<4.9	4.9	<4.6	--	4.7	<4.6	4.6	<4.7	--
Bromomethane	ug/kg	18	<20	20	<18	--	19	<18	18	<19	--
Carbon disulfide	ug/kg	9.2	<9.8	9.8	<9.2	--	9.4	<9.2	9.2	<9.4	--
Carbon tetrachloride	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Chlorobenzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Chlorobromomethane	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
Chloroethane	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
Chloroform	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Chloromethane	ug/kg	18	<20	20	<18	--	19	<18	18	<19	--
cis-1,2-Dichloroethene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
cis-1,3-Dichloropropene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Dibromochloromethane	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
Dibromomethane	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Dichlorodifluoromethane	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
Di-isopropyl ether (DIPE)	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Ethanol	ug/kg	230	<250	250	<230	--	240	<230	230	**90 J**	--
Ethylbenzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Ethyl-t-butyl ether (ETBE)	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Isopropylbenzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
m,p-Xylene	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
Methylene chloride	ug/kg	9.2	<9.8	9.8	<9.2	--	9.4	<9.2	9.2	<9.4	--
Methyl-t-Butyl Ether (MTBE)	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
Naphthalene	ug/kg	9.2	<9.8	9.8	<9.2	--	9.4	<9.2	9.2	<9.4	--
n-Butylbenzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
N-Propylbenzene	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
o-Xylene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
p-Isopropyltoluene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
sec-Butylbenzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Styrene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Tert-amyl-methyl ether (TAME)	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
tert-Butyl alcohol (TBA)	ug/kg	18	<20	20	<18	--	19	<18	18	<19	--
tert-Butylbenzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Tetrachloroethene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Toluene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
trans-1,2-Dichloroethene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
trans-1,3-Dichloropropene	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
Trichloroethene	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
Trichlorofluoromethane	ug/kg	9.2	<9.8	9.8	<9.2	--	9.4	<9.2	9.2	<9.4	--
Vinyl chloride	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Vinylacetate	ug/kg	9.2	<9.8	9.8	<9.2	--	9.4	<9.2	9.2	<9.4	--

Notes:

RPD for duplicate sample pair exceeds 50%

VOCs: Volatile organic compounds

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above RL

ug/kg: micrograms per kilogram

J: The reported value was obtained from a measurement that was less than the RL but greater than or equal to the MDL (Method Detection Limit)

Table 10
RFI Soil Sample Field Quality Control Results - VOCs

Parameter	Units	Field Duplicates Results 8/23/2021 RL	SS-10-10	RL	Duplicate SS-110-10	RPD (%)	Field Duplicates Results 8/25/2021 RL	SS-11-5	RL	Duplicate SS-111-5	RPD (%)
1,1,1,2-Tetrachloroethane	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,1,1-Trichloroethane	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,1,2,2-Tetrachloroethane	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	8.9	<8.9	11	<11	--	9.4	<8.8	8.8	<9.4	--
1,1,2-Trichloroethane	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,1-Dichloroethane	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,1-Dichloroethene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,1-Dichloropropene	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
1,2,3-Trichlorobenzene	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
1,2,3-Trichloropropane	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
1,2,4-Trichlorobenzene	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
1,2,4-Trimethylbenzene	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
1,2-Dibromo-3-chloropropane	ug/kg	8.9	<8.9	11	<11	--	9.4	<8.8	8.8	<9.4	--
1,2-Dibromoethane	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,2-Dichlorobenzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,2-Dichloroethane	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,2-Dichloropropane	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,3,5-Trimethylbenzene	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
1,3-Dichlorobenzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,3-Dichloropropane	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,4-Dichlorobenzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
2,2-Dichloropropane	ug/kg	4.4	<4.4	5.5	<5.5	--	4.7	<4.4	4.4	<4.7	--
2-Butanone	ug/kg	18	<18	22	<22	--	19	<18	18	<19	--
2-Chlorotoluene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
2-Hexanone	ug/kg	18	<18	22	<22	--	19	<18	18	<19	--
4-Chlorotoluene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
4-Methyl-2-pentanone	ug/kg	18	<18	22	<22	--	19	<18	18	<19	--
Acetone	ug/kg	18	<18	22	**27**	--	19	<18	18	<19	--
Benzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Bromobenzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Bromodichloromethane	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Bromoform	ug/kg	4.4	<4.4	5.5	<5.5	--	4.7	<4.4	4.4	<4.7	--
Bromomethane	ug/kg	18	<18	22	<22	--	19	<18	18	<19	--
Carbon disulfide	ug/kg	8.9	<8.9	11	<11	--	9.4	**0.49 J**	8.8	<9.4	--
Carbon tetrachloride	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Chlorobenzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Chlorobromomethane	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
Chloroethane	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
Chloroform	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Chloromethane	ug/kg	18	<18	22	<22	--	19	<18	18	<19	--
cis-1,2-Dichloroethene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
cis-1,3-Dichloropropene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Dibromochloromethane	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
Dibromomethane	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Dichlorodifluoromethane	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
Di-isopropyl ether (DIPE)	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Ethanol	ug/kg	220	<220	280	**120 J**	--	230	<220	220	<230	--
Ethylbenzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Ethyl-t-butyl ether (ETBE)	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Isopropylbenzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
m,p-Xylene	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
Methylene chloride	ug/kg	8.9	<8.9	11	<11	--	9.4	<8.8	8.8	<9.4	--
Methyl-t-Butyl Ether (MTBE)	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
Naphthalene	ug/kg	8.9	<8.9	11	<11	--	9.4	<8.8	8.8	<9.4	--
n-Butylbenzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
N-Propylbenzene	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
o-Xylene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
p-Isopropyltoluene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
sec-Butylbenzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Styrene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Tert-amyl-methyl ether (TAME)	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
tert-Butyl alcohol (TBA)	ug/kg	18	<18	22	**10 J**	--	19	<18	18	<19	--
tert-Butylbenzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Tetrachloroethene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Toluene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
trans-1,2-Dichloroethene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
trans-1,3-Dichloropropene	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
Trichloroethene	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
Trichlorofluoromethane	ug/kg	8.9	<8.9	11	<11	--	9.4	<8.8	8.8	<9.4	--
Vinyl chloride	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Vinylacetate	ug/kg	8.9	<8.9	11	<11	--	9.4	<8.8	8.8	<9.4	--

Notes: RPD for duplicate sample pair exceeds 50%

VOCs: Volatile organic compounds

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above RL

ug/kg: micrograms per kilogram

J: The reported value was obtained from a measurement that was less than the RL but greater than or equal to the MDL (Method Detection Limit)

Table 10
RFI Soil Sample Field Quality Control Results - VOCs

	Sample Type:	Field Duplicates Results					Field Duplicates Results				
	Sample Date:	8/24/2021					8/23/2021				
Parameter	**Units**	**RL**	**SS-5-0.5**	**RL**	**Duplicate SS-105-0.5**	**RPD (%)**	**RL**	**SS-8-2.5**	**RL**	**Duplicate SS-108-2.5**	**RPD (%)**
1,1,1,2-Tetrachloroethane	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,1,1-Trichloroethane	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,1,2,2-Tetrachloroethane	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	8.2	<9.3	9.3	<8.2	--	8.0	<8.6	8.6	<8.0	--
1,1,2-Trichloroethane	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,1-Dichloroethane	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,1-Dichloroethene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,1-Dichloropropene	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
1,2,3-Trichlorobenzene	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
1,2,3-Trichloropropane	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
1,2,4-Trichlorobenzene	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
1,2,4-Trimethylbenzene	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
1,2-Dibromo-3-chloropropane	ug/kg	8.2	<9.3	9.3	<8.2	--	8.0	<8.6	8.6	<8.0	--
1,2-Dibromoethane	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,2-Dichlorobenzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,2-Dichloroethane	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,2-Dichloropropane	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,3,5-Trimethylbenzene	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
1,3-Dichlorobenzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,3-Dichloropropane	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,4-Dichlorobenzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
2,2-Dichloropropane	ug/kg	4.1	<4.7	4.7	<4.1	--	4.0	<4.3	4.3	<4.0	--
2-Butanone	ug/kg	16	**10 J**	19	**3.7 J**	--	16	<17	17	<16	--
2-Chlorotoluene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
2-Hexanone	ug/kg	16	<19	19	<16	--	16	<17	17	<16	--
4-Chlorotoluene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
4-Methyl-2-pentanone	ug/kg	16	<19	19	<16	--	16	<17	17	<16	--
Acetone	ug/kg	16	**55**	19	**21**	--	16	**21**	17	**24**	--
Benzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	**0.23 J**	0.86	<0.80	--
Bromobenzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Bromodichloromethane	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Bromoform	ug/kg	4.1	<4.7	4.7	<4.1	--	4.0	<4.3	4.3	<4.0	--
Bromomethane	ug/kg	16	<19	19	<16	--	16	<17	17	<16	--
Carbon disulfide	ug/kg	8.2	<9.3	9.3	<8.2	--	8.0	<8.6	8.6	<8.0	--
Carbon tetrachloride	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Chlorobenzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Chlorobromomethane	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
Chloroethane	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
Chloroform	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Chloromethane	ug/kg	16	<19	19	<16	--	16	<17	17	<16	--
cis-1,2-Dichloroethene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
cis-1,3-Dichloropropene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Dibromochloromethane	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
Dibromomethane	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Dichlorodifluoromethane	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
Di-isopropyl ether (DIPE)	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Ethanol	ug/kg	200	<230	230	<200	--	200	<210	210	<200	--
Ethylbenzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Ethyl-t-butyl ether (ETBE)	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Isopropylbenzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
m,p-Xylene	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
Methylene chloride	ug/kg	8.2	<9.3	9.3	<8.2	--	8.0	<8.6	8.6	<8.0	--
Methyl-t-Butyl Ether (MTBE)	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
Naphthalene	ug/kg	8.2	<9.3	9.3	<8.2	--	8.0	<8.6	8.6	<8.0	--
n-Butylbenzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
N-Propylbenzene	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
o-Xylene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
p-Isopropyltoluene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
sec-Butylbenzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Styrene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Tert-amyl-methyl ether (TAME)	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
tert-Butyl alcohol (TBA)	ug/kg	16	<19	19	<16	--	16	<17	17	<16	--
tert-Butylbenzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Tetrachloroethene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Toluene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
trans-1,2-Dichloroethene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
trans-1,3-Dichloropropene	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
Trichloroethene	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
Trichlorofluoromethane	ug/kg	8.2	<9.3	9.3	<8.2	--	8.0	<8.6	8.6	<8.0	--
Vinyl chloride	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Vinylacetate	ug/kg	8.2	<9.3	9.3	<8.2	--	8.0	<8.6	8.6	<8.0	--

Notes:

RPD for duplicate sample pair exceeds 50%

VOCs: Volatile organic compounds

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above RL

ug/kg: micrograms per kilogram

J: The reported value was obtained from a measurement that was less than the RL but greater than or equal to the MDL (Method Detection Limit)

Table 11
RFI Soil Sample Field Quality Control Results - SVOCs

Sample Type: / Sample Date		Field Duplicates Results 8/26/2021					Field Duplicate Results 8/31/2021					Field Duplicates Results 8/26/2021				
Carbon Range	**Units**	**RL**	**F11-1-0.5**	**RL**	**Duplicate F11-101-0.5**	**RPD (%)**	**RL**	**F11-5-0.5**	**RL**	**Duplicate F11-105-0.5**	**RPD (%)**	**RL**	**F11-10-0.5**	**RL**	**Duplicate F11-110-0.5**	**RPD (%)**
1,2,4-Trichlorobenzene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
1,2-Dichlorobenzene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
1,3-Dichlorobenzene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
1,4-Dichlorobenzene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
1-Methylnaphthalene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2,4,5-Trichlorophenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2,4,6-Trichlorophenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2,4-Dichlorophenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2,4-Dimethylphenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2,4-Dinitrophenol	mg/kg	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
2,4-Dinitrotoluene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2,6-Dichlorophenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2,6-Dinitrotoluene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2-Chloronaphthalene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2-Chlorophenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2-Methylnaphthalene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2-Methylphenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2-Nitroaniline	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2-Nitrophenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
3 & 4 Methylphenol	mg/kg	1.0	<1.0	0.98	<0.98	--	1.0	<1.0	0.99	<0.99	--	0.98	<0.98	0.98	<0.98	--
3,3'-Dichlorobenzidine	mg/kg	2.5	<2.5	2.5	<2.5	--	2.5	<2.5	2.5	<2.5	--	2.4	<2.4	2.5	<2.5	--
3-Nitroaniline	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
4,6-Dinitro-2-methylphenol	mg/kg	2.5	<2.5	2.5	<2.5	--	2.5	<2.5	2.5	<2.5	--	2.4	<2.4	2.5	<2.5	--
4-Bromophenyl-phenylether	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
4-Chloro-3-methylphenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
4-Chloroaniline	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
4-Chlorophenyl-phenylether	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
4-Nitroaniline	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
4-Nitrophenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Acenaphthene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Acenaphthylene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Aniline	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Anthracene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Azobenzene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Benzidine	mg/kg	5.0	<5.0	4.9	<4.9	--	5.0	<5.0	5.0	<5.0	--	4.9	<4.9	4.9	<4.9	--
Benzo(a)anthracene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Benzo(a)pyrene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Benzo(b)fluoranthene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Benzo(g,h,i)perylene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Benzo(k)fluoranthene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Benzoic acid	mg/kg	2.5	<2.5	2.5	<2.5	--	2.5	<2.5	2.5	<2.5	--	2.4	<2.4	2.5	<2.5	--
Benzyl alcohol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
bis (2-chloroisopropyl) ether	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
bis(2-Chloroethoxy)methane	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
bis(2-Chloroethyl)ether	mg/kg	2.5	<2.5	2.5	<2.5	--	2.5	<2.5	2.5	<2.5	--	2.4	<2.4	2.5	<2.5	--
bis(2-Ethylhexyl)phthalate	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Butyl benzyl phthalate	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Chrysene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Dibenz(a,h)anthracene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Dibenzofuran	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Diethylphthalate	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Dimethyl phthalate	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Di-N-Butyl phthalate	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--

Table 11
RFI Soil Sample Field Quality Control Results - SVOCs

Sample Type: / Sample Date		Field Duplicates Results 8/26/2021					Field Duplicate Results 8/31/2021					Field Duplicates Results 8/26/2021				
Carbon Range	**Units**	**RL**	**F11-1-0.5**	**RL**	**Duplicate F11-101-0.5**	**RPD (%)**	**RL**	**F11-5-0.5**	**RL**	**Duplicate F11-105-0.5**	**RPD (%)**	**RL**	**F11-10-0.5**	**RL**	**Duplicate F11-110-0.5**	**RPD (%)**
Di-N-Octyl phthalate	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Fluoranthene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Fluorene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Hexachloro-1,3-butadiene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Hexachlorobenzene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Hexachlorocyclopentadiene	mg/kg	1.5	<1.5	1.5	<1.5	--	1.5	<1.5	1.5	<1.5	--	1.5	<1.5	1.5	<1.5	--
Hexachloroethane	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Isophorone	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Naphthalene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Nitrobenzene	mg/kg	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
N-Nitrosodimethylamine	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
N-Nitroso-di-N-propylamine	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
N-Nitrosodiphenylamine	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Pentachlorophenol	mg/kg	2.5	<2.5	2.5	<2.5	--	2.5	<2.5	2.5	<2.5	--	2.4	<2.4	2.5	<2.5	--
Phenanthrene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Phenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Pyrene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Pyridine	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--

Notes:

SVOCs: Semi-volatile organic compounds

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above RL

mg/kg: milligrams per kilogram

Table 12
RFI Soil Sample Field Quality Control Results - Metals and pH

Sample Type:		Field Duplicates Results					Field Duplicates Results					Field Duplicates Results				
Sample Date:		8/18/2021					8/25/2021					8/24/2021				
Parameter	**Units**	**RL**	**F24-1-0.5**	**RL**	**Duplicate F24-101-0.5**	**RPD (%)**	**RL**	**FS-3-2.5**	**RL**	**Duplicate FS-103-2.5**	**RPD (%)**	**RL**	**MS-16-0.5**	**PQL**	**Duplicate MS-116-0.5**	**RPD (%)**
Antimony	mg/kg	2.08	<2.08	1.93	<1.93	--	2.11	<2.11	2.06	<2.06	--	2.01	<2.01	1.99	<1.99	--
Arsenic	mg/kg	1.04	**0.350 J**	0.966	<0.966	--	1.05	<1.05	1.03	**0.606 J**	--	1.01	<1.01	0.995	**0.376 J**	--
Barium	mg/kg	1.04	**78.1**	0.966	**63.8**	**20%**	1.05	**97.4**	1.03	**42.4**	**79%**	1.01	**56.3**	0.995	**56.5**	**0%**
Beryllium	mg/kg	1.04	<1.04	0.966	<0.966	--	1.05	<1.05	1.03	<1.03	--	1.01	<1.01	0.995	<0.995	--
Cadmium	mg/kg	1.04	<1.04	0.966	<0.966	--	1.05	<1.05	1.03	<1.03	--	1.01	**0.710 J**	0.995	**0.739 J**	--
Chromium	mg/kg	2.08	**11.8**	1.93	**8.92**	--	2.11	**3.50**	2.06	**5.73**	--	2.01	**3.94**	1.99	**5.09**	--
Cobalt	mg/kg	1.04	**3.30**	0.966	**2.98**	--	1.05	**3.14**	1.03	**2.71**	--	1.01	**3.41**	0.995	**3.55**	--
Copper	mg/kg	1.04	**16.9**	0.966	**14.2**	--	1.05	**3.90**	1.03	**5.13**	--	1.01	**4.92**	0.995	**5.89**	--
Lead	mg/kg	1.04	**2.72**	0.966	**2.21**	--	1.05	**3.28**	1.03	**3.58**	--	1.01	**1.97**	0.995	**2.08**	--
Mercury	mg/kg	0.0862	<0.0862	0.0820	**0.0136 J**	--	0.0847	<0.0847	0.08	<0.0794	--	0.0862	**0.0324 J B**	0.0820	**0.0182 JB**	--
Molybdenum	mg/kg	1.04	<1.04	0.966	<0.966	--	1.05	<1.05	1.03	<1.03	--	1.01	<1.01	0.995	<0.995	--
Nickel	mg/kg	1.04	**6.19**	0.966	**5.97**	**4%**	1.05	**4.08**	1.03	**4.18**	--	1.01	**18.0**	0.995	**17.7**	**2%**
Selenium	mg/kg	1.04	<1.04	0.966	<0.966	--	1.05	<1.05	1.03	<1.03	--	1.01	<1.01	0.995	<0.995	--
Silver	mg/kg	1.04	<1.04	0.966	<0.966	-	1.05	<1.05	1.03	<1.03	--	1.01	<1.01	0.995	<0.995	--
Thallium	mg/kg	1.04	<1.04	0.966	<0.966	--	1.05	<1.05	1.03	<1.03	--	1.01	<1.01	0.995	<0.995	--
Vanadium	mg/kg	2.08	**22.3**	1.93	**15.7**	**35%**	2.11	**13.7**	2.06	**10.2**	--	2.01	**11.6**	1.99	**13.5**	**15%**
Zinc	mg/kg	5.21	**49.2**	4.83	**45.1**	**9%**	5.26	**27.8**	5.15	**20.5**	**30%**	5.03	**37.8**	4.98	**42.0**	**11%**
pH	s.u.	--	**--**	--	**--**	**--**	--	**10.1**	--	**9.7**	**4%**	--	**--**	--	**--**	**--**

Sample Type:		Field Duplicates Results					Field Duplicates Results				
Sample Date:		8/25/2021					8/24/2021				
Parameter	**Units**	**RL**	**SS-11-5**	**RL**	**Duplicate SS-111-5**	**RPD (%)**	**RL**	**SS-5-0.5**	**RL**	**Duplicate SS-105-0.5**	**RPD (%)**
Antimony	mg/kg	2.03	<2.03	1.98	<1.98	--	2.07	<2.07	2.01	<2.01	--
Arsenic	mg/kg	1.02	**0.415 J**	0.990	<0.990	--	1.04	<1.04	1.01	**0.357 J**	--
Barium	mg/kg	1.02	**57.8**	0.990	**31.1**	**60%**	1.04	**44.8**	1.01	**50.9**	**13%**
Beryllium	mg/kg	1.02	<1.02	0.990	<0.990	--	1.04	<1.04	1.01	<1.01	--
Cadmium	mg/kg	1.02	<1.02	0.990	<0.990	--	1.04	**0.531 J**	1.01	**0.737 J**	--
Chromium	mg/kg	2.03	**4.73**	1.98	**2.26**	--	2.07	**3.58**	2.01	**4.31**	--
Cobalt	mg/kg	1.02	**4.29**	0.990	**1.64**	--	1.04	**2.72**	1.01	**3.45**	--
Copper	mg/kg	1.02	**5.65**	0.990	**2.12**	--	1.04	**4.08**	1.01	**5.81**	--
Lead	mg/kg	1.02	**4.24**	0.990	**2.56**	--	1.04	**1.49**	1.01	**1.91**	--
Mercury	mg/kg	0.0833	<0.0833	0.0862	<0.0862	--	0.0820	**0.0308 J B**	0.0862	**0.0267 J B**	--
Molybdenum	mg/kg	1.02	<1.02	0.990	<0.990	--	1.04	<1.04	1.01	<1.01	--
Nickel	mg/kg	1.02	**3.18**	0.990	**1.21**	--	1.04	**13.9**	1.01	**21.4**	**42%**
Selenium	mg/kg	1.02	<1.02	0.990	<0.990	--	1.04	<1.04	1.01	<1.01	--
Silver	mg/kg	1.02	<1.02	0.990	<0.990	--	1.04	<1.04	1.01	<1.01	--
Thallium	mg/kg	1.02	<1.02	0.990	<0.990	--	1.04	<1.04	1.01	<1.01	--
Vanadium	mg/kg	2.03	**11.8**	1.98	**6.31**	**--**	2.07	**10.0**	2.01	**13.1**	**--**
Zinc	mg/kg	5.08	**22.8**	4.95	**11.9**	**--**	5.18	**28.7**	5.03	**45.1**	**44%**
pH	s.u.	--	**--**	--	**--**	**--**	--	**--**	--	**--**	**--**

Notes:

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above PQL

RPD for duplicate sample pair exceeds 50%

mg/kg: milligrams per kilogram

mg/l: milligrams per liter

s.u.: standard units

J: The reported value was obtained from a measurement that was less than the RL but greater than or qual to the MDL (Method Detection Limit)

B: Compound was detected in the laboratory method blank and the sample

RLs noted when results were detected above the RL in the primary and/or duplicate sample

Table 13
RFI Soil Sample Field Quality Control Results - PCBs

Sample Type: / Sample Date		Field Duplicates Results 8/26/2021					Field Duplicate Results 8/26/2021					Field Duplicate Results 8/31/2021					Field Duplicates Results 8/25/2021					Field Duplicate Results 8/31/2021				
Carbon Range	**Units**	**RL**	**F11-1-0.5**	**RL**	**Duplicate F11-101-0.5**	**RPD**	**RL**	**F11-10-0.5**	**RL**	**Duplicate F11-110-0.5**	**RPD**	**RL**	**F11-5-0.5**	**RL**	**Duplicate F11-105-0.5**	**RPD**	**RL**	**F14-1-1**	**RL**	**Duplicate F14-101-1**	**RPD**	**RL**	**F21-T1-2-1**	**RL**	**Duplicate F21-T1-102-1**	**RPD**
Aroclor-1016	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1221	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1232	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1242	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1248	mg/kg	0.050	**0.24**	0.049	**0.18**	--	0.050	**0.050**	0.049	**0.055**	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1254	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	**0.12**	0.050	**0.17**	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1260	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	**0.055**	0.050	**0.063**	--	0.050	**0.027 J**	0.050	<0.050	--
Aroclor-1262	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1268	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--

Sample Type: / Sample Date		Field Duplicates Results 08/24/21					Field Duplicate Results 08/24/21					Field Duplicate Results 08/24/21					Field Duplicates Results 08/23/21					Field Duplicate Results 08/30/21				
Carbon Range	**Units**	**RL**	**F36-1-1**	**RL**	**Duplicate F36-101-1**	**RPD**	**RL**	**PT1-1-1**	**RL**	**Duplicate PT1-101-1**	**RPD**	**RL**	**PT1-4-1**	**RL**	**Duplicate PT1-104-1**	**RPD**	**RL**	**PT2-3-0.5**	**RL**	**Duplicate PT2-103-0.5**	**RPD**	**RL**	**T1-2-1-0**	**RL**	**Duplicate T1-2-101-0**	**RPD**
Aroclor-1016	mg/kg	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1221	mg/kg	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1232	mg/kg	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1242	mg/kg	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1248	mg/kg	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1254	mg/kg	0.050	<0.050	0.050	<0.050	--	0.050	**0.062**	0.050	**0.15**	--	0.050	**0.93**	0.049	**0.33**	95%	0.049	**0.070**	0.049	**0.10**	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1260	mg/kg	0.050	<0.050	0.050	<0.050	--	0.050	**0.036 J**	0.050	**0.078**	--	0.050	**0.33**	0.049	**0.19**	--	0.049	<0.049	0.049	<0.049	--	0.050	**0.027 J**	0.049	<0.049	--
Aroclor-1262	mg/kg	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1268	mg/kg	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--

Sample Type: / Sample Date		Field Duplicates Results 08/30/21					Field Duplicate Results 08/31/21					Field Duplicate Results 08/31/21					Field Duplicates Results 08/31/21					Field Duplicate Results 08/30/21				
Carbon Range	**Units**	**RL**	**T1-2-11-0**	**RL**	**Duplicate T1-2-111-0**	**RPD**	**RL**	**T1-2-13-1**	**RL**	**Duplicate T1-2-113-1**	**RPD**	**RL**	**T1-2-16-0**	**RL**	**Duplicate T1-2-116-0**	**RPD**	**RL**	**T1-2-18-1**	**RL**	**Duplicate T1-2-118-1**	**RPD**	**RL**	**T1-2-21-0**	**RL**	**Duplicate T1-2-121-0**	**RPD**
Aroclor-1016	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1221	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1232	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1242	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1248	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1254	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1260	mg/kg	0.050	**0.045 J**	0.049	<0.049	--	0.050	**0.029 J**	0.050	**0.045 J**	--	0.050	**0.058**	0.050	**0.063**	--	0.050	<0.050	0.050	**0.033 J**	--	0.050	**0.029 J**	0.049	**0.025 J**	--
Aroclor-1262	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1268	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--

Sample Type: / Sample Date		Field Duplicates Results 08/30/21					Field Duplicate Results 08/30/21					Field Duplicate Results 08/26/21					Field Duplicates Results 08/30/21					Field Duplicate Results 08/30/21				
Carbon Range	**Units**	**RL**	**T1-2-26-0**	**RL**	**Duplicate T1-2-126-0**	**RPD**	**RL**	**T1-2-28-1**	**RL**	**Duplicate T1-2-128-1**	**RPD**	**RL**	**T1-2-31-0**	**RL**	**Duplicate T1-2-131-0**	**RPD**	**RL**	**T1-2-4-1**	**RL**	**Duplicate T1-2-104-1**	**RPD**	**RL**	**T1-2-6-0**	**RL**	**Duplicate T1-2-106-0**	**RPD**
Aroclor-1016	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1221	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1232	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1242	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1248	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1254	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1260	mg/kg	0.050	**0.071**	0.049	**0.057**	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	**0.026 J**	0.050	<0.050	--	0.050	**0.038 J**	0.050	<0.050	--
Aroclor-1262	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1268	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--

Table 13
RFI Soil Sample Field Quality Control Results - PCBs

Sample Type: / Sample Date		Field Duplicates Results 08/30/21					Field Duplicate Results 09/02/21					Field Duplicate Results 09/01/21					Field Duplicates Results 09/01/21					Field Duplicate Results 09/02/21				
Carbon Range	**Units**	**RL**	**T1-2-8-1**	**RL**	**Duplicate T1-2-108-1**	**RPD**	**RL**	**T3-4-12-0**	**RL**	**Duplicate T3-4-112-0**	**RPD**	**RL**	**T3-4-14-1**	**RL**	**Duplicate T3-4-114-1**	**RPD**	**RL**	**T3-4-2-1**	**RL**	**Duplicate T3-4-102-1**	**RPD**	**RL**	**T3-4-5-0**	**RL**	**Duplicate T3-4-105-0**	**RPD**
Aroclor-1016	mg/kg	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1221	mg/kg	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1232	mg/kg	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1242	mg/kg	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1248	mg/kg	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1254	mg/kg	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	**0.61**	0.050	**0.24**	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1260	mg/kg	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	**0.12**	0.050	**0.052**	--
Aroclor-1262	mg/kg	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1268	mg/kg	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--

Sample Type: / Sample Date		Field Duplicates Results 09/02/21				
Carbon Range	**Units**	**RL**	**T3-4-8-1**	**RL**	**Duplicate T3-4-108-1**	**RPD**
Aroclor-1016	mg/kg	0.050	<0.050	0.050	<0.050	--
Aroclor-1221	mg/kg	0.050	<0.050	0.050	<0.050	--
Aroclor-1232	mg/kg	0.050	<0.050	0.050	<0.050	--
Aroclor-1242	mg/kg	0.050	<0.050	0.050	<0.050	--
Aroclor-1248	mg/kg	0.050	<0.050	0.050	<0.050	--
Aroclor-1254	mg/kg	0.050	<0.050	0.050	<0.050	--
Aroclor-1260	mg/kg	0.050	**0.047 J**	0.050	**0.087**	--
Aroclor-1262	mg/kg	0.050	<0.050	0.050	<0.050	--
Aroclor-1268	mg/kg	0.050	<0.050	0.050	<0.050	--

Notes:

SVOCs: Semi-volatile organic compounds

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

<: Not detected above RL

--: Not analyzed or not applicable

mg/kg: milligrams per kilogram

µg/l - micrograms per liter

J: The reported value was obtained from a measurement that was less than the PQL but greater than or qual to the MDL (Method Detection Limit)

RPD for duplicate sample pair exceeds 50%

Table 14
RFI Soil Vapor Sample Field Quality Control Results - VOCs

Sample Type: / Sample Date:		Field Duplicates Results 8/31/2021					Field Duplicates Results 9/3/2021				
Parameter	**Units**	**RL**	**P-2-10**	**RL**	**Duplicate P-2-10-REP**	**RPD (%)**	**RL**	**P-5-20**	**RL**	**Duplicate P-5-20-REP**	**RPD (%)**
Benzene	µg/m^3	0.5	<0.5	0.5	<0.5	--	0.5	**6.1**	0.5	**6.2**	**2%**
Bromobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Bromodichloromethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Bromoform	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
n-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
sec-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Carbon tetrachloride	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
Chlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Chloroform	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	**2.3**	--
2-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
4-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Dibromochloromethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,2-Dibromo-3-chloropropane	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
1,2-Dibromoethane (EDB)	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Dibromomethane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
1,2- Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,3-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,4-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Dichlorodifluoromethane(Freon-12)	µg/m^3	5.0	**5.2**	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
1,1-Dichloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
1,2-Dichloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
1,1-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
cis-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
trans-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
1,2-Dichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,3-Dichloropropane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
2,2-Dichloropropane	µg/m^3	8.0	<8.0	8.0	<8.0	--	8.0	<8.0	8.0	<8.0	--
1,1-Dichloropropene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
cis-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
trans-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Ethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	**13.1**	2.0	**13.4**	**2%**
Freon-113	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Hexachlorobutadiene	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
Isopropylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
4-Isopropyltoluene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Methylene chloride	µg/m^3	2.0	<2.0	2.0	<2.0	--	20.0	<20.0	20.0	<20.0	--
Naphthalene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
n-Propylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Styrene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,1,1,2-Tetrachloroethane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
1,1,2,2-Tetrachloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
Tetrachloroethene (PCE)	µg/m^3	5.0	**269**	5.0	**212**	**24%**	5.0	**111**	5.0	**115**	**4%**
Toluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	**69.0**	5.0	**68.9**	**0%**
1,2,3-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--	10.0	<10.0	10.0	<10.0	--
1,2,4-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--	10.0	<10.0	10.0	<10.0	--
1,1,1-Trichloroethane	µg/m^3	2.0	**8.1**	2.0	**6.4**	--	2.0	**2.4**	2.0	**2.4**	--
1,1,2-Trichloroethane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
Trichloroethene (TCE)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Trichlorofluoromethane(Freon-11)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
1,2,3-Trichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,2,4-Trimethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	**3.7**	2.0	**3.8**	--
1,3,5-Trimethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Vinyl chloride	µg/m^3	0.5	<0.5	0.5	<0.5	--	0.5	<0.5	0.5	<0.5	--
m,p-Xylene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	**61.5**	2.0	**64.8**	**5%**
o-Xylene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	**20.0**	2.0	**20.4**	**2%**
Methyl tert butyl ether(MTBE)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Ethyl-tert-butyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Di-isopropylether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-amyl methyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-Butyl alcohol	µg/m^3	100	<100	100	<100	--	100	<100	100	<100	--
n-Pentane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5	<5.0	--
n-Hexane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5	<5.0	--
n-Heptane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5	<5.0	--

Notes:
VOCs: Volatile organic compounds
RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)
--: Not analyzed or not applicable
<: Not detected above RL
µg/m^3: micrograms per cubic meter

Table 14
RFI Soil Vapor Sample Field Quality Control Results - VOCs

Sample Type: / Sample Date:		Field Duplicates Results 8/31/2021					Field Duplicates Results 9/1/2021				
Parameter	**Units**	**RL**	**MS-13-10**	**RL**	**Duplicate MS-13-10-REP**	**RPD (%)**	**RL**	**MS-16-20**	**RL**	**Duplicate MS-16-20-REP**	**RPD (%)**
Benzene	µg/m^3	0.5	**5.0**	0.5	**3.8**	**27%**	0.5	**0.6**	0.5	<0.5	--
Bromobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Bromodichloromethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Bromoform	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
n-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
sec-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Carbon tetrachloride	µg/m^3	1.0	**9.8**	1.0	**10.2**	**4%**	1.0	**12.5**	1.0	**11.2**	**11%**
Chlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Chloroform	µg/m^3	2.0	**114**	2.0	**107**	**6%**	2.0	**156**	2.0	**157**	**1%**
2-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
4-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Dibromochloromethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,2-Dibromo-3-chloropropane	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
1,2-Dibromoethane (EDB)	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Dibromomethane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
1,2- Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,3-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,4-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Dichlorodifluoromethane(Freon-12)	µg/m^3	5.0	**11.0**	5.0	**11.8**	--	5.0	**18.5**	5.0	**18.6**	**1%**
1,1-Dichloroethane	µg/m^3	1.0	**19.0**	1.0	**19.2**	**1%**	1.0	**1050**	1.0	**1060**	**1%**
1,2-Dichloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
1,1-Dichloroethene	µg/m^3	1.0	**66.2**	1.0	**61.6**	**7%**	1.0	**589**	1.0	**595**	**1%**
cis-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
trans-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
1,2-Dichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,3-Dichloropropane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
2,2-Dichloropropane	µg/m^3	8.0	<8.0	8.0	<8.0	--	8.0	<8.0	8.0	<8.0	--
1,1-Dichloropropene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
cis-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
trans-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Ethylbenzene	µg/m^3	2.0	**29.0**	2.0	**25.6**	**12%**	2.0	<2.0	2.0	<2.0	--
Freon-113	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Hexachlorobutadiene	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
Isopropylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
4-Isopropyltoluene	µg/m^3	2.0	**29.6**	2.0	**26.7**	**10%**	2.0	<2.0	2.0	<2.0	--
Methylene chloride	µg/m^3	20.0	<20.0	20.0	<20.0	--	20.0	<20.0	20.0	<20.0	--
Naphthalene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
n-Propylbenzene	µg/m^3	2.0	**3.3**	2.0	**3.5**	--	2.0	<2.0	2.0	<2.0	--
Styrene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,1,1,2-Tetrachloroethane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
1,1,2,2-Tetrachloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
Tetrachloroethene (PCE)	µg/m^3	5.0	**44.4**	5.0	**43.6**	**2%**	5.0	**373**	5.0	**387**	**4%**
Toluene	µg/m^3	5.0	**65.4**	5.0	**55.5**	**16%**	5.0	<5.0	5.0	<5.0	--
1,2,3-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--	10.0	<10.0	10.0	<10.0	--
1,2,4-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--	10.0	<10.0	10.0	<10.0	--
1,1,1-Trichloroethane	µg/m^3	2.0	**32.8**	2.0	**33.1**	**1%**	2.0	**772**	2.0	**789**	**2%**
1,1,2-Trichloroethane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
Trichloroethene (TCE)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	**27.6**	5.0	**27.1**	--
Trichlorofluoromethane(Freon-11)	µg/m^3	5.0	**22.5**	5.0	**21.0**	--	5.0	**16.6**	5.0	**16.9**	--
1,2,3-Trichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,2,4-Trimethylbenzene	µg/m^3	2.0	**26.5**	2.0	**22.2**	**18%**	2.0	<2.0	2.0	<2.0	--
1,3,5-Trimethylbenzene	µg/m^3	2.0	**8.9**	2.0	**8.1**	--	2.0	<2.0	2.0	<2.0	--
Vinyl chloride	µg/m^3	0.5	<0.5	0.5	<0.5	--	0.5	<0.5	0.5	<0.5	--
m,p-Xylene	µg/m^3	2.0	**70.9**	2.0	**62.0**	**13%**	2.0	**4.2**	2.0	**4.1**	--
o-Xylene	µg/m^3	2.0	**11.3**	2.0	**9.8**	--	2.0	<2.0	2.0	<2.0	--
Methyl tert butyl ether(MTBE)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Ethyl-tert-butyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Di-isopropylether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-amyl methyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-Butyl alcohol	µg/m^3	100	<100	100	<100	--	100	<100	100	<100	--
n-Pentane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
n-Hexane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
n-Heptane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--

Notes:
VOCs: Volatile organic compounds
RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)
--: Not analyzed or not applicable
<: Not detected above RL
µg/m^3: micrograms per cubic meter

Table 14
RFI Soil Vapor Sample Field Quality Control Results - VOCs

Sample Type: / Sample Date:		Field Duplicates Results 4/4/2022					Field Duplicates Results 10/18/2021				
Parameter	**Units**	**RL**	**MS-21R-5**	**RL**	**Duplicate MS-21R-5REP**	**RPD (%)**	**RL**	**MS-23-5**	**RL**	**Duplicate MS-23-5 REP**	**RPD (%)**
Benzene	µg/m^3	0.5	<0.5	0.5	<0.5	--	0.5	<0.5	0.5	<0.5	--
Bromobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Bromodichloromethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Bromoform	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
n-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
sec-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Carbon tetrachloride	µg/m^3	1.0	**8.1**	1.0	**7.3**	**10%**	1.0	**2.5**	1.0	**3.2**	--
Chlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Chloroform	µg/m^3	2.0	**199**	2.0	**193**	**3%**	2.0	**85.9**	2.0	**125**	**37%**
2-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
4-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Dibromochloromethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,2-Dibromo-3-chloropropane	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
1,2-Dibromoethane (EDB)	µg/m^3	0.5	<0.5	0.5	<0.5	--	2.0	<2.0	2.0	<2.0	--
Dibromomethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	4.0	<4.0	4.0	<4.0	--
1,2- Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,3-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,4-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Dichlorodifluoromethane(Freon-12)	µg/m^3	5.0	**24.0**	5.0	**25.2**	**5%**	5.0	**6.3**	5.0	**7.9**	--
1,1-Dichloroethane	µg/m^3	1.0	**10.1**	1.0	**9.7**	**4%**	1.0	**1.7**	1.0	**2.6**	--
1,2-Dichloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
1,1-Dichloroethene	µg/m^3	1.0	**18.9**	1.0	**17.8**	**6%**	1.0	**3.2**	1.0	**4.6**	--
cis-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
trans-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
1,2-Dichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,3-Dichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	4.0	<4.0	4.0	<4.0	--
2,2-Dichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	8.0	<8.0	8.0	<8.0	--
1,1-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	5.0	<5.0	5.0	<5.0	--
cis-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
trans-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Ethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Freon-113	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Hexachlorobutadiene	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
Isopropylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
4-Isopropyltoluene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Methylene chloride	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Naphthalene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
n-Propylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Styrene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	**2**	2.0	**3.1**	--
1,1,1,2-Tetrachloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	4.0	<4.0	4.0	<4.0	--
1,1,2,2-Tetrachloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
Tetrachloroethene (PCE)	µg/m^3	5.5	**18.6**	5.5	**20.1**	--	5.0	<5.0	5.0	**7.4**	--
Toluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	**11.6**	5.0	**14.7**	--
1,2,3-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--	10.0	<10.0	10.0	<10.0	--
1,2,4-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--	10.0	<10.0	10.0	<10.0	--
1,1,1-Trichloroethane	µg/m^3	2.0	**9.8**	2.0	**9.2**	--	2.0	**7.6**	2.0	**11.7**	--
1,1,2-Trichloroethane	µg/m^3	4.0	<2.0	4.0	<2.0	--	4.0	<4.0	4.0	<4.0	--
Trichloroethene (TCE)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Trichlorofluoromethane(Freon-11)	µg/m^3	5.0	**74.1**	5.0	**71.0**	**4%**	5.0	**12.2**	5.0	**17.9**	--
1,2,3-Trichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,2,4-Trimethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,3,5-Trimethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Vinyl chloride	µg/m^3	0.5	<0.5	0.5	<0.5	--	0.5	<0.5	0.5	<0.5	--
m,p-Xylene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	**3.1**	5.0	**3.4**	--
o-Xylene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Methyl tert butyl ether(MTBE)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Ethyl-tert-butyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Di-isopropylether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-amyl methyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-Butyl alcohol	µg/m^3	25.0	<25.0	25.0	<25.0	--	100	<100	100	<100	--
n-Pentane (Tracer Gas)	µg/m^3	50	<50	50	<50	--	5.0	<5.0	5.0	<5.0	--
n-Hexane (Tracer Gas)	µg/m^3	50	<50	50	<50	--	5.0	<5.0	5.0	<5.0	--
n-Heptane (Tracer Gas)	µg/m^3	50	<50	50	<50	--	5.0	<5.0	5.0	<5.0	--

Notes:

VOCs: Volatile organic compounds

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above RL

µg/m^3: micrograms per cubic meter

Table 14
RFI Soil Vapor Sample Field Quality Control Results - VOCs

Sample Type: / Sample Date:		Field Duplicates Results 11/8/2021					Field Duplicates Results 11/8/2021				
Parameter	**Units**	**RL**	**MS-23B-40**	**RL**	**Duplicate MS-23B-40-REP**	**RPD (%)**	**RL**	**MS-23B-100**	**RL**	**Duplicate MS-23B-100-REP**	**RPD (%)**
Benzene	µg/m^3	0.5	**3.6**	0.5	**4.0**	**11%**	0.5	**5.3**	0.5	**6.0**	**12%**
Bromobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Bromodichloromethane	µg/m^3	2.0	**15.4**	2.0	**14.3**	**7%**	2.0	**17.8**	2.0	**21.1**	**17%**
Bromoform	µg/m^3	2.0	**5.9**	2.0	**5.3**	--	2.0	**2.1**	2.0	<2.0	--
n-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
sec-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-Butylbenzene	µg/m^3	5.0	**60.1**	5.0	**59.7**	**1%**	5.0	<5.0	5.0	<5.0	--
Carbon tetrachloride	µg/m^3	1.0	**38.4**	1.0	**37.4**	**3%**	1.0	**444**	1.0	**436**	**2%**
Chlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Chloroform	µg/m^3	2.0	**975**	2.0	**909**	**7%**	2.0	**1840**	2.0	**1900**	**3%**
2-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
4-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Dibromochloromethane	µg/m^3	2.0	**12.4**	2.0	**12.8**	**3%**	2.0	**4.8**	2.0	**6.0**	--
1,2-Dibromo-3-chloropropane	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
1,2-Dibromoethane (EDB)	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Dibromomethane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
1,2- Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,3-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,4-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Dichlorodifluoromethane(Freon-12)	µg/m^3	5.0	**26.7**	5.0	**25.7**	**4%**	5.0	**87.4**	5.0	**87.1**	**0%**
1,1-Dichloroethane	µg/m^3	1.0	**84.7**	1.0	**81.6**	**4%**	1.0	**363**	1.0	**364**	**0%**
1,2-Dichloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	**12.2**	1.0	**12.7**	**4%**
1,1-Dichloroethene	µg/m^3	1.0	**263**	1.0	**252**	**4%**	1.0	**725**	1.0	**716**	**1%**
cis-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
trans-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
1,2-Dichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,3-Dichloropropane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
2,2-Dichloropropane	µg/m^3	8.0	<8.0	8.0	<8.0	--	8.0	<8.0	8.0	<8.0	--
1,1-Dichloropropene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
cis-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
trans-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Ethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	**2.9**	2.0	**3.8**	--
Freon-113	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Hexachlorobutadiene	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
Isopropylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
4-Isopropyltoluene	µg/m^3	2.0	**13.2**	2.0	**13.5**	**2%**	2.0	**2.0**	2.0	**2.6**	--
Methylene chloride	µg/m^3	20.0	<20.0	20.0	<20.0	--	20.0	<20.0	20.0	<20.0	--
Naphthalene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
n-Propylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Styrene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	**3.7**	2.0	**4.8**	--
1,1,1,2-Tetrachloroethane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
1,1,2,2-Tetrachloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
Tetrachloroethene (PCE)	µg/m^3	5.0	**35.9**	5.0	**33.6**	**7%**	5.0	**66.2**	5.0	**66.1**	**0%**
Toluene	µg/m^3	5.0	**13.3**	5.0	**15.1**	--	5.0	**17.6**	5.0	**20.5**	--
1,2,3-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--	10.0	<10.0	10.0	<10.0	--
1,2,4-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--	10.0	<10.0	10.0	<10.0	--
1,1,1-Trichloroethane	µg/m^3	2.0	**20.5**	2.0	**19.4**	**6%**	2.0	**15.9**	2.0	**16.4**	**3%**
1,1,2-Trichloroethane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
Trichloroethene (TCE)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	**18.8**	5.0	**19.4**	--
Trichlorofluoromethane(Freon-11)	µg/m^3	5.0	**75.3**	5.0	**74**	**2%**	5.0	**329**	5.0	**323**	**2%**
1,2,3-Trichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,2,4-Trimethylbenzene	µg/m^3	2.0	**15.1**	2.0	**15.8**	**5%**	2.0	**3.3**	2.0	**4.2**	--
1,3,5-Trimethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Vinyl chloride	µg/m^3	0.5	<0.5	0.5	<0.5	--	0.5	<0.5	0.5	<0.5	--
m,p-Xylene	µg/m^3	2.0	**3.8**	2.0	**4.5**	--	2.0	**8.3**	2.0	**11.1**	--
o-Xylene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	**2.4**	2.0	**3.2**	--
Methyl tert butyl ether(MTBE)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Ethyl-tert-butyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Di-isopropylether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-amyl methyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-Butyl alcohol	µg/m^3	100	<100	100	<100	--	100	<100	100	<100	--
n-Pentane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
n-Hexane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
n-Heptane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--

Notes:
VOCs: Volatile organic compounds
RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)
--: Not analyzed or not applicable
<: Not detected above RL
µg/m^3: micrograms per cubic meter

Table 14
RFI Soil Vapor Sample Field Quality Control Results - VOCs

Sample Type: / Sample Date:		Field Duplicates Results 10/7/2022					Field Duplicates Results 2/11/2022				
Parameter	**Units**	**RL**	**MS-23D-250**	**RL**	**Duplicate MS-23D-250 REP**	**RPD (%)**	**RL**	**MS-32-20**	**RL**	**Duplicate MS-32-20-REP**	**RPD (%)**
Benzene	µg/m^3	1.5	**2.6**	1.5	**2.8**	--	1.0	**6.2**	1.0	**5.9**	**5%**
Bromobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
Bromodichloromethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
Bromoform	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
n-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	1.5	<1.5	1.5	<1.5	--
sec-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	1.5	<1.5	1.5	<1.5	--
tert-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	1.5	<1.5	1.5	<1.5	--
Carbon tetrachloride	µg/m^3	1.0	**1690**	1.0	**1870**	**10%**	1.0	**56.4**	1.0	**59.8**	**6%**
Chlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
Chloroform	µg/m^3	2.0	**241**	2.0	**260**	**8%**	1.0	**38.2**	1.0	**38.6**	**1%**
2-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	1.5	<1.5	1.5	<1.5	--
4-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	1.5	<1.5	1.5	<1.5	--
Dibromochloromethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
1,2-Dibromo-3-chloropropane	µg/m^3	5.0	<5.0	5.0	<5.0	--	1.0	<1.0	1.0	<1.0	--
1,2-Dibromoethane (EDB)	µg/m^3	0.5	<0.5	0.5	<0.5	--	1.0	<1.0	1.0	<1.0	--
Dibromomethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
1,2- Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,3-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,4-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Dichlorodifluoromethane(Freon-12)	µg/m^3	5.0	**22.1**	5.0	**24.9**	--	2.0	**10.6**	2.0	**10.7**	**1%**
1,1-Dichloroethane	µg/m^3	1.0	**150**	1.0	**167**	**11%**	1.0	**7.3**	1.0	**7.7**	**5%**
1,2-Dichloroethane	µg/m^3	1.0	**5.9**	1.0	**6.1**	**3%**	1.0	<1.0	1.0	<1.0	--
1,1-Dichloroethene	µg/m^3	1.0	**321**	1.0	**359**	**11%**	1.0	**213**	1.0	**225**	**5%**
cis-1,2-Dichloroethene	µg/m^3	1.0	**1.0**	1.0	**1.0**	--	1.0	<1.0	1.0	<1.0	--
trans-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
1,2-Dichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
1,3-Dichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
2,2-Dichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,1-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.3	<1.3	1.3	<1.3	--
cis-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
trans-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
Ethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	**7.7**	1.0	**7.2**	**7%**
Freon-113	µg/m^3	5.0	**5.7**	5.0	**6.9**	--	2.0	<2.0	2.0	<2.0	--
Hexachlorobutadiene	µg/m^3	4.0	<4.0	4.0	<4.0	--	3.0	<3.0	3.0	<3.0	--
Isopropylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	**1.8**	1.0	**2.0**	--
4-Isopropyltoluene	µg/m^3	2.0	**3.1**	2.0	**3.7**	--	1.0	**18.9**	1.0	**16.9**	**11%**
Methylene chloride	µg/m^3	2.0	**16.5**	2.0	**18.8**	**13%**	1.0	<1.0	1.0	<1.0	--
Naphthalene	µg/m^3	2.0	<2.0	2.0	<2.0	--	5.0	<5.0	5.0	<5.0	--
n-Propylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
Styrene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	**4.2**	1.0	**3.9**	--
1,1,1,2-Tetrachloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
1,1,2,2-Tetrachloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	2.0	<2.0	2.0	<2.0	--
Tetrachloroethene (PCE)	µg/m^3	5.0	**51.5**	5.0	**55.4**	**7%**	1.0	**21.7**	1.0	**23.7**	**9%**
Toluene	µg/m^3	5.0	**5.8**	5.0	**6.3**	--	1.0	**99.8**	1.0	**87.4**	**13%**
1,2,3-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--	2.0	<2.0	2.0	<2.0	--
1,2,4-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--	2.0	<2.0	2.0	<2.0	--
1,1,1-Trichloroethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	**1.5**	1.0	**1.4**	--
1,1,2-Trichloroethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
Trichloroethene (TCE)	µg/m^3	5.0	**19.2**	5.0	**22.2**	--	1.0	**2.4**	1.0	**2.1**	--
Trichlorofluoromethane(Freon-11)	µg/m^3	5.0	**27.1**	5.0	**29.9**	**10%**	2.0	**11.4**	2.0	**12.1**	**6%**
1,2,3-Trichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
1,2,4-Trimethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	**2.9**	2.0	**3.2**	--
1,3,5-Trimethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	**1.5**	1.0	**1.6**	--
Vinyl chloride	µg/m^3	0.5	<0.5	0.5	<0.5	--	1.0	<1.0	1.0	<1.0	--
m,p-Xylene	µg/m^3	5.0	<5.0	5.0	<5.0	--	2.0	**31.9**	2.0	**29.5**	**8%**
o-Xylene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	**12.5**	1.0	**11.9**	**5%**
Methyl tert butyl ether(MTBE)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Ethyl-tert-butyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Di-isopropylether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-amyl methyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-Butyl alcohol	µg/m^3	25.0	<25.0	25.0	<25.0	--	50.0	<50.0	50.0	<50.0	--
n-Pentane (Tracer Gas)	µg/m^3	50.0	<50.0	50.0	<50.0	--	10.0	<10.0	10.0	<10.0	--
n-Hexane (Tracer Gas)	µg/m^3	50.0	<50.0	50.0	<50.0	--	10.0	<10.0	10.0	<10.0	--
n-Heptane (Tracer Gas)	µg/m^3	50.0	<50.0	50.0	<50.0	--	10.0	<10.0	10.0	<10.0	--

Notes:
VOCs: Volatile organic compounds
RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)
--: Not analyzed or not applicable
<: Not detected above RL
µg/m^3: micrograms per cubic meter

Table 14
RFI Soil Vapor Sample Field Quality Control Results - VOCs

Sample Type:		Field Duplicates Results				
Sample Date:		8/27/2021				
Parameter	**Units**	**RL**	**SS-5-5**	**RL**	**Duplicate SS-5-5-REP**	**RPD (%)**
Benzene	µg/m^3	0.5	<0.5	0.5	<0.5	--
Bromobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--
Bromodichloromethane	µg/m^3	2.0	<2.0	2.0	<2.0	--
Bromoform	µg/m^3	2.0	<2.0	2.0	<2.0	--
n-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--
sec-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--
tert-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--
Carbon tetrachloride	µg/m^3	1.0	<1.0	1.0	<1.0	--
Chlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--
Chloroform	µg/m^3	2.0	<2.0	2.0	<2.0	--
2-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--
4-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--
Dibromochloromethane	µg/m^3	2.0	<2.0	2.0	<2.0	--
1,2-Dibromo-3-chloropropane	µg/m^3	5.0	<5.0	5.0	<5.0	--
1,2-Dibromoethane (EDB)	µg/m^3	2.0	<2.0	2.0	<2.0	--
Dibromomethane	µg/m^3	4.0	<4.0	4.0	<4.0	--
1,2- Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--
1,3-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--
1,4-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--
Dichlorodifluoromethane(Freon-12)	µg/m^3	5.0	**5.3**	5.0	<5.0	--
1,1-Dichloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--
1,2-Dichloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--
1,1-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--
cis-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--
trans-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--
1,2-Dichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--
1,3-Dichloropropane	µg/m^3	4.0	<4.0	4.0	<4.0	--
2,2-Dichloropropane	µg/m^3	8.0	<8.0	8.0	<8.0	--
1,1-Dichloropropene	µg/m^3	5.0	<5.0	5.0	<5.0	--
cis-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--
trans-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--
Ethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--
Freon-113	µg/m^3	5.0	<5.0	5.0	<5.0	--
Hexachlorobutadiene	µg/m^3	4.0	<4.0	4.0	<4.0	--
Isopropylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--
4-Isopropyltoluene	µg/m^3	2.0	<2.0	2.0	<2.0	--
Methylene chloride	µg/m^3	2.0	<2.0	2.0	<2.0	--
Naphthalene	µg/m^3	2.0	<2.0	2.0	<2.0	--
n-Propylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--
Styrene	µg/m^3	2.0	<2.0	2.0	<2.0	--
1,1,1,2-Tetrachloroethane	µg/m^3	4.0	<4.0	4.0	<4.0	--
1,1,2,2-Tetrachloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--
Tetrachloroethene (PCE)	µg/m^3	5.0	**38.8**	5.0	**38.7**	**0%**
Toluene	µg/m^3	5.0	<5.0	5.0	<5.0	--
1,2,3-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--
1,2,4-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--
1,1,1-Trichloroethane	µg/m^3	2.0	**21.8**	2.0	**23.2**	**6%**
1,1,2-Trichloroethane	µg/m^3	4.0	<4.0	4.0	<4.0	--
Trichloroethene (TCE)	µg/m^3	5.0	<5.0	5.0	<5.0	--
Trichlorofluoromethane(Freon-11)	µg/m^3	5.0	<5.0	5.0	<5.0	--
1,2,3-Trichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--
1,2,4-Trimethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--
1,3,5-Trimethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--
Vinyl chloride	µg/m^3	0.5	<0.5	0.5	<0.5	--
m,p-Xylene	µg/m^3	2.0	**6.4**	2.0	**4.8**	--
o-Xylene	µg/m^3	2.0	**3.6**	2.0	**3.2**	--
Methyl tert butyl ether(MTBE)	µg/m^3	5.0	<5.0	5.0	<5.0	--
Ethyl-tert-butyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--
Di-isopropylether	µg/m^3	5.0	<5.0	5.0	<5.0	--
tert-amyl methyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--
tert-Butyl alcohol	µg/m^3	100	<100	100	<100	--
n-Pentane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--
n-Hexane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--
n-Heptane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--

Notes:
VOCs: Volatile organic compounds
RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)
--: Not analyzed or not applicable
<: Not detected above RL
µg/m^3: micrograms per cubic meter

TABLE 3- ARDENT LABORATORY RESULTS OF SOIL SAMPLES, COOLING TOWERS 1 AND 2, AOI 10

Rationale	Test Pit ID	Sample Date	Sample Depth (feet bgs)	PID Readings (ppm)	Title 22 Metals (mg/kg)																	
					Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess western extent of arsenic previously detected at Cooling Towers 1 and 2.	CT 1/2-1	10/9/2019	0.5	0	ND<1.0	**2.32**	**79.2**	ND<0.5	ND<0.5	**28.3**	ND<0.2	**6.42**	**10.9**	**1.83**	**0.014**	ND<5.0	**6.82**	ND<1.0	ND<1.0	**3.63**	**42.7**	**37.3**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess northern extent of arsenic previously detected at Cooling Towers 1 and 2	CT 1/2-2	10/9/2019	0.5	0	ND<1.0	**1.86**	**79.6**	ND<0.5	ND<0.5	**34**	ND<0.2	**5.94**	**16.2**	**7.41**	**0.013**	ND<0.5	**12.4**	ND<1.0	ND<1.0	**5.11**	**39.1**	**64.1**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT 1/2-3	10/9/2019	0.5	0	ND<1.0	**2.02**	**85.9**	ND<0.5	ND<0.5	**28.1**	ND<0.2	**6.82**	**11.9**	**2.56**	**0.013**	ND<0.5	**6.81**	ND<1.0	ND<1.0	**4.6**	**42.8**	**40.4**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT 1/2-4	10/9/2019	0.5	0	ND<1.0	**3.54**	**103**	ND<0.5	ND<0.5	**32.3**	ND<0.2	**7.98**	**12.8**	**2.79**	**0.016**	ND<0.5	**6.75**	ND<1.0	ND<1.0	**7.45**	**34.8**	**49.1**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess eastern extent of arsenic previously detected at Cooling Towers 1 and 2	CT 1/2-5	10/9/2019	0.5	0	ND<1.0	**6.71**	**111**	ND<0.5	**1.22**	**35.1**	ND<0.2	**8.45**	**12.1**	**3.52**	**0.014**	ND<0.5	**7.12**	ND<1.0	ND<1.0	**5.72**	**46.7**	**1190**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess southern extent of arsenic previously detected at Cooling Towers 1 and 2	CT 1/2-6	10/9/2019	0.5	0	ND<1.0	**1.58**	**113**	ND<0.5	ND<0.5	**29.5**	ND<0.2	**7.86**	**11**	**3.17**	**0.014**	ND<0.5	**6.42**	ND<1.0	ND<1.0	**7.67**	**44.9**	**45.4**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT 1/2-7	10/9/2019	0.5	0	ND<1.0	**1.99**	**88**	ND<0.5	ND<0.5	**26.7**	ND<0.2	**7.19**	**12**	**2.97**	**0.016**	ND<0.5	**7.89**	ND<1.0	ND<1.0	**5.78**	**41.1**	**44.4**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT 1/2-8	10/9/2019	0.5	0	ND<1.0	**0.95**	**93.7**	ND<0.5	ND<0.5	**29.5**	ND<0.2	**7.02**	**11.4**	**2.16**	**0.016**	ND<0.5	**6.79**	ND<1.0	ND<1.0	**4.8**	**45.2**	**41**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess medial concentration of arsenic previously detected Cooling Towers 1 and 2	CT 1/2-9	10/9/2019	0.5	0	ND<1.0	**0.81**	**83.9**	ND<0.5	ND<0.5	**27**	ND<0.2	**6.43**	**11.5**	**1.88**	ND<0.1	ND<0.5	**7.38**	ND<1.0	ND<1.0	**4.83**	**37.6**	**37.6**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT 1/2-10	10/9/2019	0.5	0	ND<1.0	**1.39**	**129**	ND<0.5	ND<0.5	**44.2**	ND<0.2	**9.83**	**18.1**	**3.34**	ND<0.1	ND<0.5	**10.2**	ND<1.0	ND<1.0	**6.54**	**53.3**	**59.1**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT 1/2-11	10/9/2019	0.5	0	ND<1.0	**1.20**	**121**	ND<0.5	ND<0.5	**36.3**	ND<0.2	**8.75**	**15**	**3.03**	ND<0.1	ND<0.5	**8.49**	ND<1.0	ND<1.0	**9.08**	**47.9**	**55.2**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Human Health		**EPA-RSLi**		NA	470	3.0	22,000	2,300	980	1,800,000	6.3	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
		DTSC-SLi		NA	NA	0.36	NA	210	7.3	170,000	6.2	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
		Background for Arsenic		NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions		**SCAQMD**		50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria		**TTLC**		NA	500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
		STLC		NA	15	5	100	0.75	1	560	5	80	25	5	0.2	350	20	1	5	7	24	250
		10x STLC		NA	150	50	1,000	7.5	10	5,600	50	800	250	50	2	3,500	200	10	50	70	240	2,500
		20x STLC		NA	NA	100	2,000	NA	20	NA	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

ppm - parts per million

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

PID - Photoionization Detector

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

Table source is from Ardent

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unfied School District (LAUSD) school sites, dated June 6, 2005.

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

TABLE 4- - ARDENT LABORATORY RESULTS OF SOIL SAMPLES, SLUDGE DRAINAGE AREA ASSOCIATED WITH COOLING TOWERS 1 AND 2, AOI 33

Rationale	Soil Boring ID	Sample Date	Sample Depth (feet bgs)	PID Readings (ppm)	Title 22 Metals (mg/kg)																	
					Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess concentrations of metals in soil along possible sludge drag out path located between Cooling Towers 1 and 2 and the Sludge Drainage Area.	SDA-1	10/15/2019	0.5	0	ND<1.0	ND<0.3	**136**	ND<0.5	ND<0.5	**28.3**	ND<0.2	**8.08**	**6.76**	**1.05**	**0.012**	ND<5.0	**4.11**	ND<1.0	ND<1.0	**2.17**	**39.3**	**40.3**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SDA-2	10/15/2019	0.5	0	ND<1.0	ND<0.3	**96.3**	ND<0.5	ND<0.5	**36.6**	ND<0.2	**7.56**	**11.7**	**2.19**	**0.014**	ND<5.0	**6.62**	ND<1.0	ND<1.0	**1.98**	**42.6**	**42.6**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SDA-3	10/15/2019	0.5	0	ND<1.0	**0.657**	**154**	ND<0.5	ND<0.5	**47.8**	ND<0.2	**11.5**	**17.3**	**4.37**	**0.017**	ND<5.0	**7.95**	ND<1.0	ND<1.0	**1.3**	**57.2**	**77.7**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately south of Sludge Drainage Area.	SDA-4	10/15/2019	0.5	0	ND<1.0	**0.357**	**127**	ND<0.5	ND<0.5	**45.1**	ND<0.2	**9.76**	**16.8**	**3.26**	**0.015**	ND<5.0	**10.1**	ND<1.0	ND<1.0	ND<1.0	**49.9**	**60.4**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SDA-5	10/15/2019	0.5	0	ND<1.0	**0.32**	**131**	ND<0.5	ND<0.5	**45.9**	ND<0.2	**10.7**	**19.3**	**3.15**	**0.019**	ND<5.0	**11.4**	ND<1.0	ND<1.0	**4.13**	**54.1**	**68.6**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately east of Sludge Drainage Area.	SDA-6	10/15/2019	0.5	0	ND<1.0	**0.719**	**145**	ND<0.5	ND<0.5	**47.6**	ND<0.2	**10.5**	**16.7**	**4.26**	**0.017**	ND<5.0	**8.96**	ND<1.0	ND<1.0	**7.07**	**55**	**70.2**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil within central portion of Sludge Drainage Area.	SDA-7	10/15/2019	0.5	0	ND<1.0	**0.423**	**118**	ND<0.5	ND<0.5	**42**	ND<0.2	**8.71**	**14.4**	**2.62**	**0.015**	ND<5.0	**8.06**	ND<1.0	ND<1.0	ND<1.0	**56.5**	**53.4**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SDA-8	10/15/2019	0.5	0	ND<1.0	**0.497**	**128**	ND<0.5	ND<0.5	**45**	ND<0.2	**9.41**	**17.3**	**3.06**	**0.017**	ND<5.0	**9.67**	ND<1.0	ND<1.0	**2.21**	**70.9**	**57.3**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SDA-9	10/15/2019	0.5	0	ND<1.0	**0.493**	**131**	ND<0.5	ND<0.5	**45.9**	ND<0.2	**9.81**	**17.8**	**3.33**	**0.019**	ND<5.0	**8.81**	ND<1.0	ND<1.0	**8.17**	**51.2**	**60**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SDA-10	10/15/2019	0.5	0	ND<1.0	**0.442**	**109**	ND<0.5	ND<0.5	**41**	ND<0.2	**8.71**	**15.2**	**3.39**	**0.013**	ND<5.0	**11.7**	ND<1.0	ND<1.0	ND<1.0	**45.1**	**54.7**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Human Health	**EPA-RSLi**		NA	470	3.0	22,000	2,300	980	1,800,000	6.3	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
	DTSC-SLi		NA	NA	0.36	NA	210	7.3	170,000	6.2	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
	Background for Arsenic		NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions	**SCAQMD**		50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria	**TTLC**		NA	500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
	STLC		NA	15	5	100	0.75	1	560	5	80	25	5	0.2	350	20	1	5	7	24	250
	10x STLC		NA	150	50	1,000	7.5	10	5,600	50	800	250	50	2	3,500	200	10	50	70	240	2,500
	20x STLC		NA	NA	100	2,000	NA	20	NA	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

mg/kg - milligrams per kilogram

ppm - parts per million

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

PID - Photoionization Detector

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

Table source is from Ardent

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unfied School District (LAUSD) school sites, dated June 6, 2005.

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

TABLE 5 - ARDENT LABORATORY RESULTS OF SOIL SAMPLES, COOLING TOWER 3, AOI 19

Rationale	Soil Boring ID	Sample Date	Sample Depth (feet bgs)	PID Readings (ppm)	Title 22 Metals (mg/kg)																	
					Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Soluble Lead WET (ug/l)	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess concentrations of metals in soil immediately west of Cooling Tower 3	CT3-1	10/14/2019	0.5	0	ND<1.0	**0.811**	**90.8**	ND<0.5	ND<0.5	**37.5**	ND<0.2	**6.14**	**6.31**	**1.86**	--	**0.013**	ND<5.0	**4.42**	ND<1.0	ND<1.0	ND<1.0	**32.7**	**29.2**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately north of Cooling Tower 3	CT3-2	10/14/2019	0.5	0	ND<1.0	**14.3**	**144**	ND<0.5	ND<0.5	**102**	ND<0.2	**9.04**	**221**	**56.9**	**0.086**	**0.03**	ND<5.0	**79.7**	ND<1.0	ND<1.0	ND<1.0	**107**	**115**
			1.5	--	--	**2.02**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	**1.06**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT3-3	10/14/2019	0.5	0	ND<1.0	ND<0.3	**75.7**	ND<0.5	ND<0.5	**25.7**	ND<0.2	**6.74**	**4.89**	**0.69**	--	**0.013**	ND<5.0	ND<2.5	ND<1.0	ND<1.0	ND<1.0	**28.8**	**25.8**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT3-4	10/14/2019	0.5	0	ND<1.0	**0.607**	**88.6**	ND<0.5	ND<0.5	**35.7**	ND<0.2	**7.25**	**9.41**	**2.01**	--	**0.015**	ND<5.0	**12.9**	ND<1.0	ND<1.0	ND<1.0	**33.9**	**37.1**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately east of Cooling Tower 3	CT3-5	10/14/2019	0.5	0	ND<1.0	**2.15**	**85.6**	ND<0.5	ND<0.5	**33.2**	ND<0.2	**6.9**	**6.79**	**2.44**	--	**0.015**	ND<5.0	**8.4**	ND<1.0	ND<1.0	ND<1.0	**39.2**	**31.6**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately south of Cooling Tower 3	CT3-6	10/14/2019	0.5	0	ND<1.0	**26.4**	**109**	ND<0.5	ND<0.5	**62.9**	ND<0.2	**7.96**	**48**	**3.31**	--	**0.018**	ND<5.0	**12.5**	ND<1.0	ND<1.0	ND<1.0	**36.4**	**47.9**
			1.5	--	--	**3.57**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	**2.35**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT3-7	10/14/2019	0.5	0	ND<1.0	**1.19**	**85**	ND<0.5	ND<0.5	**31**	ND<0.2	**6.35**	**37.9**	**1.48**	--	**0.015**	ND<5.0	**2.9**	ND<1.0	ND<1.0	ND<1.0	**33.5**	**28.2**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT3-8	10/14/2019	0.5	0	ND<1.0	**7.87**	**142**	ND<0.5	ND<0.5	**50**	ND<0.2	**10.5**	**20.4**	**3.88**	--	**0.018**	ND<5.0	**15.8**	ND<1.0	ND<1.0	ND<1.0	**53.1**	**60.1**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Human Health	**EPA-RSLi**			NA	470	3.0	22,000	2,300	980	1,800,000	6	350	47,000	800	NA	46	5,800	22,000	5,800	5,800	12	5,800	350,000
	DTSC-SLi			NA	NA	0.36	NA	210	7.3	170,000	6.2	NA	NA	320	NA	4.5	NA	3,100	NA	1,500	NA	1,000	NA
	Background for Arsenic			NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions	**SCAQMD**			50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria	**TTLC**			NA	500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	NA	20	3,500	2,000	100	500	700	2,400	5,000
	STLC			NA	15	5	100	0.75	1	560	5	80	25	5	5	0.2	350	20	1	5	7	24	250
	10x STLC			NA	150	50	1,000	7.5	10	5,600	50	800	250	50	NA	2	3,500	200	10	50	70	240	2,500
	20x STLC			NA	NA	100	2,000	NA	20	NA	100	NA	NA	100	NA	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

ppm - parts per million

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

PID - Photoionization Detector

PID - Photoionization Detector

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

Table source is from Ardent

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unfied School District (LAUSD) school sites, dated June 6, 2005.

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

Yellow highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health

Green highlighted cell indicates a concentration that exceeds a regulatory screening level for disposal criteria

TABLE 6- ARDENT LABORATORY RESULTS OF SOIL SAMPLES, COOLING TOWER 4, AOI 12

Rationale	Soil Boring ID	Sample Date	Sample Depth (feet bgs)	PID Readings (ppm)	Title 22 Metals (mg/kg)																	
					Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess concentrations of metals in soil immediately west of Cooling Tower 4	CT4-1	10/14/2019	0.5	0	ND<1.0	**0.353**	**92.4**	ND<0.5	ND<0.5	**35.2**	ND<0.2	**7.33**	**9.72**	**2.1**	**0.015**	ND<5.0	**5.94**	ND<1.0	ND<1.0	ND<1.0	**34**	**39.6**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately north of Cooling Tower 4	CT4-2	10/14/2019	0.5	0	ND<1.0	**5.93**	**64**	ND<0.5	ND<0.5	**41.2**	ND<0.2	**7.11**	**139**	**19.9**	**0.015**	ND<5.0	**21.9**	ND<1.0	ND<1.0	ND<1.0	**31.1**	**102**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT4-3	10/14/2019	0.5	0	ND<1.0	**2.41**	**70.1**	ND<0.5	ND<0.5	**31.9**	ND<0.2	**6.41**	**6.17**	**1.23**	**0.013**	ND<5.0	**6.28**	ND<1.0	ND<1.0	ND<1.0	**35.8**	**25.9**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT4-4	10/14/2019	0.5	0	ND<1.0	**1.79**	**114**	ND<0.5	ND<0.5	**42.9**	ND<0.2	**8.4**	**40.1**	**4.65**	**0.018**	ND<5.0	**13**	ND<1.0	ND<1.0	ND<1.0	**37.8**	**101**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately south of Cooling Tower 4	CT4-5	10/14/2019	0.5	0	ND<1.0	ND<0.3	**101**	ND<0.5	ND<0.5	**33.2**	ND<0.2	**7.5**	**8.31**	**2.11**	**0.013**	ND<5.0	**3.35**	ND<1.0	ND<1.0	ND<1.0	**33**	**34.5**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately east of Cooling Tower 4	CT4-6	10/14/2019	0.5	0	ND<1.0	**2.69**	**108**	ND<0.5	ND<0.5	**49.8**	ND<0.2	**8.23**	**53.3**	**12.2**	**0.015**	ND<5.0	**28**	ND<1.0	ND<1.0	ND<1.0	**41.3**	**71.8**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT4-7	10/14/2019	0.5	0	ND<1.0	**1.51**	**132**	ND<0.5	ND<0.5	**160**	ND<0.2	**4.89**	**32.3**	**12.9**	**0.015**	ND<5.0	**15.7**	ND<1.0	ND<1.0	ND<1.0	**146**	**105**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT4-8	10/14/2019	0.5	0	ND<1.0	**2.48**	**84.7**	ND<0.5	ND<0.5	**35.8**	ND<0.2	**7.02**	**12.9**	**3.19**	**0.018**	ND<5.0	**8.41**	ND<1.0	ND<1.0	ND<1.0	**37.5**	**42.9**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Human Health	**EPA-RSLi**			NA	470	3.0	22,000	2,300	980	1,800,000	6.3	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
	DTSC-SLi			NA	NA	0.36	NA	210	7.3	170,000	6.2	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
	Background for Arsenic			NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions	**SCAQMD**			50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria	**TTLC**			NA	500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
	STLC			NA	15	5	100	0.75	1	560	5	80	25	5	0.2	350	20	1	5	7	24	250
	10x STLC			NA	150	50	1,000	7.5	10	5,600	50	800	250	50	2	3,500	200	10	50	70	240	2,500
	20x STLC			NA	NA	100	2,000	NA	20	NA	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

PID - Photoionization Detector

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

Table source is from Ardent

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unified School District (LAUSD) school sites, dated June 6, 2005.

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

TABLE 7- ARDENT LABORATORY RESULTS OF SOIL SAMPLES, CHADWICK CHANNEL, AOI 11

Rationale	Composite Sample ID	Sample Date	Sample Depth (feet bgs)	TPHcc (mg/kg)			PCBs (mg/kg)		Title 22 Metals (mg/kg)																
				TPHg C_4 - C_{10}	TPHd C_{10} - C_{28}	TPHo C_{23} - C_{35}	Aroclor 1254	All Others	Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess soil within the Chadwick Channel	CC-1	10/8/2019	0.5	ND<10	11.7	69.1	0.19	ND<0.01	ND<1.0	1.25	89.5	ND<0.5	0.63	111	ND<0.2	6.97	57.2	36.8	0.05	ND<5.0	27.8	ND<1.0	ND<1.0	ND<1.0	55.8	211
	CC-2	10/8/2019	0.5	ND<10	883	3,760	0.12	ND<0.01	ND<1.0	2.05	132	ND<0.5	1.02	156	ND<0.2	6.3	88	46.7	0.05	ND<5.0	38.3	ND<1.0	ND<1.0	8.85	60.5	382
	CC-3	10/8/2019	0.5	ND<10	69.7	261	0.09	ND<0.01	ND<1.0	1.53	86.8	ND<0.5	1.75	75.4	ND<0.2	6.11	43	27	0.07	ND<5.0	27.4	ND<1.0	ND<1.0	ND<1.0	54	146
	CC-4	10/8/2019	0.5	ND<10	24.1	142	0.06	ND<0.01	ND<1.0	1.14	86.3	ND<0.5	ND<0.5	85.2	ND<0.2	5.8	40.8	19.8	0.04	ND<5.0	22.2	ND<1.0	ND<1.0	ND<1.0	62.7	134
	CC-5	10/8/2019	0.5	ND<10	130	525	0.05	ND<0.01	ND<1.0	1.18	98.6	ND<0.5	0.57	115	ND<0.2	6.58	59.8	31.8	0.03	ND<5.0	42.9	ND<1.0	ND<1.0	ND<1.0	63	218
	CC-6	10/8/2019	0.5	ND<10	113	590.8	0.04	ND<0.01	ND<1.0	2.47	130	ND<0.5	0.85	130	ND<0.2	7.28	102	45.3	0.05	ND<5.0	52.2	ND<1.0	ND<1.0	ND<1.0	73.7	315
	CC-7	10/8/2019	0.5	ND<10	395	1,730	0.03	ND<0.01	ND<1.0	1.22	77	ND<0.5	ND<0.5	64.6	ND<0.2	4.84	40.9	19.3	0.02	ND<5.0	32.4	ND<1.0	ND<1.0	ND<1.0	50.9	160
	CC-8	10/8/2019	0.5	ND<10	47.8	232	0.03	ND<0.01	ND<1.0	1.19	81.2	ND<0.5	ND<0.5	66	ND<0.2	6.46	34.6	23.6	0.03	ND<5.0	30.3	ND<1.0	ND<1.0	2.55	60.8	144
	CC-9	10/8/2019	0.5	ND<10	39.3	146	0.01	ND<0.01	ND<1.0	0.67	63.1	ND<0.5	ND<0.5	50.5	ND<0.2	5.65	23.7	10.7	0.02	ND<5.0	23.3	ND<1.0	ND<1.0	ND<1.0	50.2	103
	CC-10	10/8/2019	0.5	ND<10	84.7	478	0.03	ND<0.01	ND<1.0	0.88	81.8	ND<0.5	0.53	99.5	ND<0.2	6.15	52.8	26.5	0.04	ND<5.0	42.5	ND<1.0	ND<1.0	ND<1.0	60.6	222
Protection of Human Health		EPA-RSLi		2200	440.0	3,500,000	0.97	Various	470	3.0	22,000	2,300	980	1,800,000	6.3	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
		DTSC-SLi		NA	NA	NA	0.58	Various	NA	0.36	NA	210	7.3	170,000	6.2	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
		Background for Arsenic		NA	NA	NA	NA	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Protection of Environment		LARWQCB		100	10,000	50000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions		SCAQMD		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria		TTLC		NA	NA	NA	NA	NA	500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
		STLC		NA	NA	NA	NA	NA	15	5	100	0.75	1	560	5	80	25	5	0.2	350	20	1	5	7	24	250
		10x STLC		NA	NA	NA	NA	NA	150	50	1,000	7.5	10	5,600	50	800	250	50	2	3,500	200	10	50	70	240	2,500
		20x STLC		NA	NA	NA	NA	NA	NA	100	2,000	NA	20	NA	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

TPHcc - total petroleum hydrocarbons carbon chain C4-C35 analyzed in general accordance with EPA Method No. 8015 (modified)

TPHg - total petroleum hydrocarbons as gasoline

TPHd - total petroleum hydrocarbons as diesel fuel

TPHo - total petroleum hydrocarbons as oil

PCBs - Polychlorinated Biphenyls analyzed in general accordance with EPA Method No. 8082

Table source is from Ardent

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unfied School District (LAUSD) school sites, dated June 6, 2005.

LARWQCD - Los Angeles Regional Water District Control Board, Interim Site Assessment and Cleanup Guidebook, March 1996

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

Yellow highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health

TABLE 8 - ARDENT LABORATORY RESULTS OF SOIL SAMPLES, RAILROAD SPUR

Rationale	Multi-Increment Sample ID	Sample Date	Sample Depth (feet bgs)	PID Readings (ppm)	OCPs (mg/kg)		Title 22 Metals (mg/kg)															
					DDE	All Others	Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess concentrations of metals and pesticides in soil along railroad spur.	RR-1	10/9/2019	0.5	0	ND<0.001	ND<0.001-0.02	ND<1.0	**1.19**	**104**	ND<0.5	ND<0.5	**30.8**	**7.61**	**13.5**	**2.33**	**0.018**	ND<5.0	**8.86**	ND<1.0	ND<1.0	**7.1**	**72.6**	**47.4**
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RR-2	10/9/2019	0.5	0	0.001	ND<0.001-0.02	ND<1.0	**1.36**	**121**	ND<0.5	ND<0.5	**36.1**	**10.7**	**18.9**	**3.4**	**0.014**	ND<0.5	**26.5**	ND<1.0	ND<1.0	**8.13**	**39.6**	**73.2**
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RR-3	10/9/2019	0.5	0	0.020	ND<0.001-0.02	ND<1.0	**1.69**	**104**	ND<0.5	ND<0.5	**31.2**	**8.5**	**15.9**	**6.24**	**0.024**	ND<0.5	**24.8**	ND<1.0	ND<1.0	**6.68**	**51.9**	**44.7**
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RR-4	10/9/2019	0.5	0	0.014	ND<0.001-0.02	ND<1.0	**1.42**	**107**	ND<0.5	ND<0.5	**32.4**	**5.98**	**13.4**	**4.89**	**0.019**	ND<0.5	**7.77**	ND<1.0	ND<1.0	**7.64**	**48.9**	**52.2**
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Human Health		**EPA-RSLi**		NA	8.5	Various	470	3.0	22,000	2,300	980	1,800,000	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
		DTSC-SLi		NA	9.3	Various	NA	0.36	NA	210	7.3	170,000	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
		Background for Arsenic		NA	NA	Various	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions		**SCAQMD**		50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria		**TTLC**		NA	1	Various	500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
		STLC		NA	0.1	Various	15	5	100	0.75	1	560	80	25	5	0.2	350	20	1	5	7	24	250
		10x STLC		NA	1	Various	150	50	1,000	7.5	10	5,600	800	250	50	2	3,500	200	10	50	70	240	2,500
		20x STLC		NA	NA	Various	NA	100	2,000	NA	20	NA	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

ppm - parts per million

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

OCPs - Organo Chlorine Pesticides analyzed in general accordance with EPA Method No. 8081A

PID - Photoionization Detector

Table source is from Ardent

DDE - Dichlorodiphenyldichloroethylene

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unfied School District (LAUSD) school sites, dated June 6, 2005.

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

TABLE 9- ARDENT LABORATORY RESULTS OF SOIL SAMPLES, LANDFILL I, (CONSTRUCTION AND OPERATIONS WASTE), AOI 22

Rationale	Test Pit ID	Sample Date	Sample Depth (feet bgs)	PID Readings (ppm)	VOCs (mg/kg)	TPHcc (mg/kg)			Title 22 Metals (mg/kg)																				
						TPHg C_4 - C_{10}	TPHd C_{10} - C_{28}	TPHo C_{23} - C_{35}	Antimony	Arsenic	Soluble Arsenic WET (ug/l)	Soluble Arsenic TCLP (ug/l)	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Soluble Copper WET (ug/l)	Lead	Soluble Lead WET (ug/l)	Soluble Lead TCLP (ug/l)	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess soil within Landfill I	LFI-1	10/9/2019	3	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	25.1	--	--	178	ND<0.5	1.27	81.7	ND<0.2	9.85	832	68.3	111	10	0.057	0.06	ND<5.0	23.1	ND<1.0	ND<1.0	5.42	46.9	618
	LFI-2	10/9/2019	5	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	0.769	--	--	71.6	ND<0.5	ND	22.9	ND<0.2	5.69	9.08	--	1.53	--	--	0.01	ND<5.0	5.75	ND<1.0	ND<1.0	4.1	30.5	31.3
Sample collected from 2' thick layer of black stained soil.	LFI-3	10/9/2019	4	0	ND<0.005-0.02	ND<10	13.5	86.1	ND<1.0	227	18.5	0.046	302	ND<0.5	6.41	574	ND<0.2	13.2	3,220	--	769	67.1	0.328	0.20	ND<5.0	134	ND<1.0	ND<1.0	ND<1.0	175	1,420
Sample collected beneath observed layer of stained soil.	LFI-3	10/9/2019	7	0	ND<0.005-0.02	ND<10	37.1	212	ND<1.0	297	12.2	0.058	410	ND<0.5	5.82	700	ND<0.2	14.8	3,130	--	949	51.1	0.625	0.12	ND<5.0	139	ND<1.0	ND<1.0	ND<1.0	201	1,050
Assess soil within Landfill I.	LFI-4	10/9/2019	5	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	1.26	--	--	98.6	ND<0.5	ND	30.8	ND<0.2	8.21	13.5	--	2.55	--	--	0.02	ND<5.0	9.33	ND<1.0	ND<1.0	5.72	46	48.7
	LFI-5	10/9/2019	7	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	7.86	--	--	158	ND<0.5	ND	56.1	ND<0.2	10.1	111	--	20.3	--	--	0.02	ND<5.0	14.9	ND<1.0	ND<1.0	7.83	59	85.6
	LFI-6	10/9/2019	3	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	2.17	--	--	119	ND<0.5	ND	39	ND<0.2	10.5	29.8	--	6.75	--	--	0.01	ND<5.0	66.6	ND<1.0	ND<1.0	8.11	121	66
	LFI-7	10/9/2019	6	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	0.982	--	--	72.3	ND<0.5	ND	22.5	ND<0.2	6.11	8.22	--	1.43	--	--	0.01	ND<5.0	5.58	ND<1.0	ND<1.0	3.7	37.3	30.9
Protection of Human Health	**EPA-RSLi**		NA	Various	2,200	440	3,500,000	470	3.0	NA	NA	22,000	2,300	980	1,800,000	6	350	47,000	NA	800	NA	NA	46	5,800	22,000	5,800	5,800	12	5,800	350,000
	DTSC-SLi		NA	Various	NA	NA	NA	NA	0.36	NA	NA	NA	210	7.3	170,000	6.2	NA	NA	NA	320	NA	NA	4.5	NA	3,100	NA	1500	NA	1000	NA
	Background for Arsenic		NA	NA	NA	NA	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Protection of Environment	**LARWQCB**		NA	NA	1,000	10,000	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions	**SCAQMD**		50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria	**TTLC**		NA	NA	NA	NA	NA	500	500	NA	NA	10,000	75	100	2,500	500	8,000	2,500	NA	1,000	NA	NA	20	3,500	2,000	100	500	700	2,400	5,000
	STLC		NA	NA	NA	NA	NA	15	5	5	5	100	0.75	1	560	5	80	25	25	5	5	5	0.2	350	20	1	5	7	24	250
	10x STLC		NA	NA	NA	NA	NA	150	50	NA	NA	1,000	7.5	10	5,600	50	800	250	NA	50	NA	NA	2	3,500	200	10	50	70	240	2,500
	20x STLC		NA	NA	NA	NA	NA	NA	100	NA	NA	2,000	NA	20	NA	100	NA	NA	NA	100	NA	NA	400	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

ppm - parts per million

mg/kg - milligrams per kilogram

ug/L - micrograms per liter

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

PID - Photoionization Detector

TPHcc - total petroleum hydrocarbons carbon chain C4-C35 analyzed in general accordance with EPA Method No. 8015 (modified)

TPHg - total petroleum hydrocarbons as gasoline

TPHd - total petroleum hydrocarbons as diesel fuel

TPHo - total petroleum hydrocarbons as oil

VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B

Table source is from Ardent

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

LARWQCD - Los Angeles Regional Water District Control Board, Interim Site Assessment and Cleanup Guidebook, March 1996

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unified School District (LAUSD) school sites, dated June 6, 2005.

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

TCLP - Toxicity Characteristic Leeching Procedure

Yellow highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health

Green highlighted cell indicates a concentration that exceeds a regulatory screening level for disposal criteria

Blue highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health and for disposal criteria

TABLE 10 - ARDENT LABORATORY RESULTS OF SOIL SAMPLES, LANDFILL II (NORTHERN FILL), AOI 34

Rationale	Test Pit ID	Sample Date	Sample Depth (feet bgs)	PID Readings (ppm)	VOCs (mg/kg)	TPHcc (mg/kg)			Title 22 Metals (mg/kg)															
						TPHg C_4 - C_{10}	TPHd C_{10} - C_{28}	TPHo C_{23} - C_{35}	Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess soil in Landfill II.	**LFII-1**	10/10/2019	7	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.39**	**117**	ND<0.5	ND<0.5	**33.2**	ND<0.2	**9.42**	**16.1**	**3.19**	**0.016**	ND<5.0	**10.5**	ND<1.0	ND<1.0	**8.22**	**48**	**55.2**
	LFII-2	10/10/2019	6	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.45**	**130**	ND<0.5	ND<0.5	**36.1**	ND<0.2	**10.3**	**19.7**	**4.69**	**0.013**	ND<5.0	**12.3**	ND<1.0	ND<1.0	**7.33**	**50.3**	**68.3**
	LFII-3	10/10/2019	6	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**2.16**	**117**	ND<0.5	ND<0.5	**49.4**	ND<0.2	**10.2**	**36.3**	**15.9**	**0.017**	ND<5.0	**19.4**	ND<1.0	ND<1.0	**7.81**	**52.3**	**130**
	LFII-4	10/10/2019	4	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.4**	**82.2**	ND<0.5	ND<0.5	**26.5**	ND<0.2	**7.82**	**12.8**	**5.93**	**0.016**	ND<5.0	**8.71**	ND<1.0	ND<1.0	**6.3**	**38.3**	**59.9**
	LFII-5	10/10/2019	5	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.12**	**93.2**	ND<0.5	ND<0.5	**29.1**	ND<0.2	**8.38**	**13.1**	**3.78**	**0.014**	ND<5.0	**9.97**	ND<1.0	ND<1.0	**7.53**	**42.1**	**51.6**
	LFII-6	10/9/2019	4	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.16**	**76.8**	ND<0.5	ND<0.5	**24.3**	ND<0.2	**6.29**	**9**	**1.81**	ND<0.01	ND<5.0	**5.93**	ND<1.0	ND<1.0	**3.08**	**37**	**35.4**
	LFII-7	10/9/2019	3	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**0.961**	**67**	ND<0.5	ND<0.5	**23.5**	ND<0.2	**6.14**	**7.58**	**1.57**	ND<0.01	ND<5.0	**5.02**	ND<1.0	ND<1.0	**5.69**	**30.7**	**31.5**
	LFII-8	10/9/2019	6	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.35**	**63.2**	ND<0.5	ND<0.5	**23.1**	ND<0.2	**5.47**	**7.6**	**1.72**	ND<0.01	ND<5.0	**5.4**	ND<1.0	ND<1.0	**2.09**	**39.5**	**31.2**
	LFII-9	10/9/2019	2	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.53**	**93.7**	ND<0.5	ND<0.5	**27.3**	ND<0.2	**9.42**	**13.6**	**3.43**	ND<0.01	ND<5.0	**9.89**	ND<1.0	ND<1.0	**6.42**	**38.2**	**51.1**
	LFII-10	10/9/2019	5	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.55**	**71.7**	ND<0.5	ND<0.5	**27**	ND<0.2	**6.15**	**11.2**	**3.22**	ND<0.01	ND<5.0	**8.59**	ND<1.0	ND<1.0	**2.57**	**42.1**	**41.8**
Protection of Human Health		**EPA-RSLi**	NA	Various	2,200	440	3,500,000	470	3.0	22,000	2,300	980	1,800,000	6.3	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
		DTSC-SLi	NA	Various	NA	NA	NA	NA	0.36	NA	210	7.3	170,000	6.2	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
		Background for Arsenic	NA	NA	NA	NA	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Protection of Environment		**LARWQCB**	NA	NA	1,000	10,000	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions		**SCAQMD**	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria		**TTLC**	NA	Various	NA	NA	NA	500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
		STLC	NA	Various	NA	NA	NA	15	5	100	0.75	1	560	5	80	25	5	0.2	350	20	1	5	7	24	250
		10x STLC	NA	Various	NA	NA	NA	150	50	1,000	7.5	10	5,600	50	800	250	50	2	3,500	200	10	50	70	240	2,500
		20x STLC	NA	Various	NA	NA	NA	NA	100	2,000	NA	20	NA	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

ppm - parts per million

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

PID - Photoionization Detector

TPHcc - total petroleum hydrocarbons carbon chain C4-C35 analyzed in general accordance with EPA Method No. 8015 (modified)

TPHg - total petroleum hydrocarbons as gasoline

TPHd - total petroleum hydrocarbons as diesel fuel

TPHo - total petroleum hydrocarbons as oil

Table source is from Ardent

VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unfied School District (LAUSD) school sites, dated June 6, 2005.

LARWQCD - Los Angeles Regional Water District Control Board, Interim Site Assessment and Cleanup Guidebook, March 1996

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

TABLE 11 - ARDENT LABORATORY RESULTS OF SOIL GAS SAMPLES, FORMER HAZARDOUS WASTE STORAGE AREA, AOI 36

Rationale	Soil Gas Point ID	Sample Date	Sample Depth (feet bgs)	VOCs (ug/L)							
				Ethylbenzene	Styrene	PCE	Toluene	1,2,4 TMB	m,p-Xylene	o-Xylene	Other VOCs
Screening soil gas sample points.	**FHW-1**	10/17/2019	5	**0.010**	**0.015**	ND<0.008	**0.015**	**0.026**	**0.050**	**0.02**	ND<0.008-0.4000
	FHW-2	10/17/2019	5	**0.011**	**0.017**	**0.061**	**0.013**	**0.025**	**0.052**	**0.022**	ND<0.008-0.4000
	FHW-3	10/17/2019	5	**0.011**	**0.019**	**0.027**	**0.017**	**0.026**	**0.050**	**0.021**	ND<0.008-0.4000
	FHW-4	10/17/2019	5	**0.015**	**0.025**	**0.030**	**0.032**	**0.027**	**0.065**	**0.026**	ND<0.008-0.4000
Protection of Human Health		EPA-RSLi		0.163	146.6	1.5	733	8.6	14.6	14.6	Various
		DTSC-SLi		NA	130	0.067	430.6	NA	NA	NA	Various

Notes:

ID - identification

Table source is from Ardent

feet bgs - feet below the ground surface

ug/L - micrograms per liter

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B

PCE - Tetrachloroethene

1,2,4-TMB - 1,2,4-Trimethylbenzene

EPA-RSLi - Environmental Protection Agency, Region 9, Regional Screening Levels for industrial ambient air modified for soil gas using the approved EPA attenuation factor of 0.03 for residential land , dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

DTSC-SLi - California Department of Toxic Substances Control, Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA), Note 3, Screening Levels for industrial ambient air modified for soil gas using the EPA approved attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

Yellow highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health

TABLE 12 - ARDENT LABORATORY RESULTS OF SOIL GAS SAMPLES, EXISTING HAZARDOUS WASTE STORAGE AREA, AOI 14

Rationale	Soil Gas Point ID	Sample Date	Sample Depth (feet bgs)	VOCs (ug/L)									
				Ethylbenzene	Isopropyl-benzene	Styrene	PCE	Toluene	1,2,4 TMB	1,3,5 TMB	m,p-Xylene	o-Xylene	Other VOCs
Soil gas sample points adjacent to septic pits.	**EHW-1**	10/17/2019	5	**0.023**	**0.012**	**0.023**	ND<0.008	**0.029**	**0.044**	**0.010**	**0.114**	**0.045**	ND<0.008-0.4000
	EHW-2	10/17/2019	5	**0.022**	ND<0.008	**0.019**	**0.046**	**0.032**	**0.053**	**0.011**	**0.105**	**0.041**	ND<0.008-0.4000
Protection of Human Health		EPA-RSLi		0.163	NA	146.6	1.5	733.3	8.6	8.6	14.6	14.6	Various
		DTSC-SLi		NA	NA	130	0.067	430.3	NA	NA	NA	NA	Various

Notes:

ID - identification

Table source is from Ardent

feet bgs - feet below the ground surface

ug/L - micrograms per liter

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B

PCE - Tetrachloroethene

1,2,4-TMB - 1,2,4-Trimethylbenzene

1,3,4-TMB - 1,3,5-Trimethylbenzene

EPA-RSLi - Environmental Protection Agency, Region 9, Regional Screening Levels for industrial ambient air modified for soil gas using the approved EPA attenuation factor of 0.03 for residential land , dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

DTSC-SLi - California Department of Toxic Substances Control, Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA), Note 3, Screening Levels for industrial ambient air modified for soil gas using the EPA approved attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

TABLE 13- ARDENT LABORATORY RESULTS OF SOIL GAS SAMPLES, MAINTENANCE SHOP, AOI 17

Rationale	Soil Gas Point ID	Sample Date	Sample Depth (feet bgs)	VOCs (ug/L)																		
				Bromo-dichloro-methane	Bromoform	Chloroform	Dibromo-chloro-methane	1,1-DCA	1,1-DCE	Ethylbenzene	Isopropyl-benzene	Styrene	PCE	Toluene	1,1,1-TCA	TCE	1,2,4-TMB	1,3,5-TMB	Vinyl Chloride	m,p-Xylene	o-Xylene	Other VOCs
South of Maintenance Shop	**MS-1**	10/17/2019	5	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.008	**0.022**	**0.009**	**0.034**	**0.049**	**0.068**	**0.011**	ND<0.008	**0.019**	ND<0.008	ND<0.008	**0.086**	**0.030**	ND<0.008-0.400
West of Maintenance Shop	**MS-2**	10/17/2019	5	**0.010**	ND<0.008	**0.017**	ND<0.008	ND<0.008	**0.047**	**0.028**	**0.009**	**0.030**	**0.046**	**0.086**	**0.060**	ND<0.008	**0.028**	ND<0.008	ND<0.008	**0.114**	**0.039**	ND<0.008-0.400
	MS-2 (DUP)	10/17/2019	5	**0.010**	ND<0.008	**0.018**	ND<0.008	ND<0.008	**0.046**	**0.029**	**0.009**	**0.030**	**0.037**	**0.087**	**0.058**	ND<0.008	**0.029**	ND<0.008	ND<0.008	**0.115**	**0.039**	ND<0.008-0.400
	MS-3	10/17/2019	5	**0.020**	ND<0.008	**0.042**	**0.015**	ND<0.008	**0.157**	**0.031**	ND<0.008	ND<0.008	**0.155**	**0.045**	**0.164**	ND<0.008	**0.026**	ND<0.008	**0.014**	**0.158**	**0.055**	ND<0.008-0.400
	MS-4	10/17/2019	5	**0.027**	**0.009**	**0.049**	**0.018**	ND<0.008	**0.158**	**0.036**	**0.012**	**0.040**	**0.067**	**0.155**	**0.161**	ND<0.008	**0.028**	ND<0.008	**0.012**	**0.132**	**0.043**	ND<0.008-0.400
North of Maintenance Shop	**MS-5**	10/17/2019	5	**0.011**	ND<0.008	**0.023**	**0.008**	ND<0.008	**0.104**	**0.034**	**0.009**	**0.029**	**0.060**	**0.105**	**0.140**	ND<0.008	**0.015**	ND<0.008	ND<0.008	**0.136**	**0.043**	ND<0.008-0.400
East of Maintenance Shop	**MS-6**	10/17/2019	5	ND<0.008	ND<0.008	**0.021**	ND<0.008	**0.396**	**0.571**	**0.028**	ND<0.008	**0.022**	**0.661**	**0.094**	**1.77**	ND<0.008	**0.033**	**0.008**	**0.138**	**0.107**	**0.038**	ND<0.008-0.400
	MS-7	10/17/2019	5	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.008	**0.048**	**0.018**	ND<0.008	**0.022**	**0.075**	**0.058**	**0.133**	ND<0.008	**0.021**	ND<0.008	ND<0.008	**0.068**	**0.025**	ND<0.008-0.400
Sub-slab sample points within the Maintenance Shop	**MS-8SS**	10/17/2019	Sub Slab	ND<0.008	**0.015**	**0.014**	ND<0.008	ND<0.008	**0.122**	ND<0.008	ND<0.008	ND<0.008	**0.089**	ND<0.008	**0.214**	**0.008**	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.008-0.400
	MS-9SS	10/17/2019	Sub Slab	**0.015**	ND<0.008	**0.033**	**0.009**	ND<0.008	**0.055**	ND<0.008	ND<0.008	ND<0.008	**0.076**	ND<0.008	**0.22**	ND<0.008	ND<0.008	ND<0.008	**0.009**	ND<0.008	ND<0.008	ND<0.008-0.400
Protection of Human Health - Vapor Intrusion		EPA-RSLi		0.011	0.367	0.017	NA	0.256	29	0.163	60	147	1.50	733	733	0.100	8.7	8.7	0.093	14.7	14.7	Various
		DTSC-SLi		0.011	0.367	NA	NA	0.256	10.3	NA	NA	130	0.067	43	147	NA	NA	NA	0.0053	NA	NA	Various

Notes:
ID - identification
feet bgs - feet below the ground surface
VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B
ug/L - micrograms per liter
DUP - duplicate sample
ND - no detectable concentrations above the laboratory reporting limit
NA - not available / not applicable
1,1-DCA - 1,1-Dichloroethane
1,1-DCE - 1,1-Dichloroethene
PCE - Tetrachloroethene
1,1,1 -TCA - 1,1,1-Trichlorethane
TCE - Trichloroethene
1,2,4-TMB - 1,2,4-Trimethylbenzene
1,3,4-TMB - 1,3,5-Trimethylbenzene
EPA-RSLi - Environmental Protection Agency, Region 9, Regional Screening Levels for industrial ambient air modified for soil gas using the approved EPA attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.
DTSC-SLi - California Department of Toxic Substances Control, Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA), Note 3, Screening Levels for industrial ambient air modified for soil gas using the EPA approved attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.
Yellow highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health through vapor intrusion

Table source is from Ardent

TABLE 14 - ARDENT LABORATORY RESULTS OF SOIL GAS SAMPLES, SEPTIC SYSTEM ASSOCIATED WITH MAINTENANCE SHOP, AOI 37

Rationale	Soil Gas Point ID	Sample Date	Sample Depth (feet bgs)	VOCs (ug/L)														
				Chloroform	1,1-DCA	1,1-DCE	Ethylbenzene	Styrene	PCE	Toluene	1,1,1-TCA	TCE	1,2,4-TMB	1,3,5-TMB	Vinyl Chloride	m,p-Xylene	o-Xylene	Other VOCs
Screening soil gas sample points	**SS-1**	10/17/2019	5	**0.013**	**0.405**	**1.02**	**0.016**	**0.018**	**1.20**	**0.025**	**2.88**	**0.012**	**0.018**	ND<0.008	**0.160**	**0.067**	**0.025**	ND<0.008-0.4000
	SS-2	10/17/2019	5	ND<0.008	ND<0.008	**0.139**	**0.023**	**0.021**	**0.324**	**0.056**	**0.604**	ND<0.008	**0.049**	**0.011**	ND<0.008	**0.093**	**0.037**	ND<0.008-0.4000
	SS-3	10/17/2019	5	ND<0.008	ND<0.008	**0.171**	**0.030**	**0.008**	**0.341**	**0.125**	**0.631**	ND<0.008	**0.039**	**0.009**	ND<0.008	**0.103**	**0.041**	ND<0.008-0.4000
Protection of Human Health - Vapor Intrusion		EPA-RSLi		0.53	0.256	29	0.163	146.6	1.5	733.3	733.3	0.1	8.6	8.6	0.093	14.6	14.6	Various
		DTSC-SLi		NA	0.256	10.3	NA	130	0.067	430.3	146.67	NA	NA	NA	0.0053	NA	NA	Various

Notes:

ID - identification
feet bgs - feet below the ground surface
VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B
ug/L - micrograms per liter
DUP - duplicate sample
ND - no detectable concentrations above the laboratory reporting limit
NA - not available / not applicable
1,1-DCA - 1,1-Dichloroethane
1,1-DCE - 1,1-Dichloroethene
PCE - Tetrachloroethene
1,1,1 -TCA - 1,1,1-Trichloroethane
TCE - Trichloroethene
1,2,4-TMB - 1,2,4-Trimethylbenzene
1,3,5-TMB - 1,3,5-Trimethylbenzene

Table source is from Ardent

EPA-RSLi - Environmental Protection Agency, Region 9, Regional Screening Levels for industrial ambient air modified for soil gas using the approved EPA attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

DTSC-SLi - California Department of Toxic Substances Control, Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA), Note 3, Screening Levels for industrial ambient air modified for soil gas using the EPA approved attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

Yellow highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health

TABLE 15 - ARDENT LABORATORY RESULTS OF SOIL SAMPLES, FLUMES ASSOCIATED WITH COOLING TOWERS 1 - 4, AOI 38

Rationale	Soil Boring IDs	Sample Date	Sample Depth (feet bgs)	Title 22 Metals (mg/kg)																	
				Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess the concentration of metals in soil beneath Flumes associated with Cooling Towers 1 and 2	**F1/2-1**	10/7/19	0.5	ND<1.0	**0.578**	**55.4**	ND<0.5	ND<0.5	**25.1**	ND<0.5	**5.05**	**10.6**	**2.13**	ND<0.01	ND<5.0	**4.6**	ND<1.0	ND<1.0	ND<1.0	**35.2**	**30.70**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F1/2-2	10/7/19	0.5	ND<1.0	**0.895**	**101**	ND<0.5	ND<0.5	**32.2**	ND<0.5	**7.59**	**11.5**	**2.08**	ND<0.01	ND<5.0	**5.04**	ND<1.0	ND<1.0	**2.82**	**42.3**	**44.50**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F1/2-3	10/7/19	0.5	ND<1.0	**1.27**	**98.3**	ND<0.5	**0.503**	**41.4**	ND<0.5	**7.42**	**14.2**	**2.59**	ND<0.01	ND<5.0	**5.98**	ND<1.0	ND<1.0	**4**	**41.5**	**247.00**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F1/2-4	10/7/19	0.5	ND<1.0	**1.45**	**111**	ND<0.5	ND<0.5	**35.8**	ND<0.5	**8.24**	**13.4**	**2.25**	ND<0.01	ND<5.0	**5.18**	ND<1.0	ND<1.0	**5.86**	**44.1**	**114.00**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F1/2-5	10/7/19	0.5	ND<1.0	**1.44**	**123**	ND<0.5	ND<0.5	**46**	ND<0.5	**8.99**	**18.1**	**5.12**	ND<0.01	ND<5.0	**6.19**	ND<1.0	ND<1.0	ND<1.0	**51.1**	**177.00**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess the concentration of metals in soil beneath Flume associated with Cooling Tower 3	**F3-1**	10/7/19	0.5	ND<1.0	ND<0.30	**271**	ND<0.5	ND<0.5	**49.3**	ND<0.5	**16**	**17**	**2.89**	ND<0.01	ND<5.0	ND	ND<1.0	ND<1.0	**14.9**	**70.8**	**78.7**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2.43**	--	--
	F3-2	10/7/19	0.5	ND<1.0	ND<0.30	**131**	ND<0.5	ND<0.5	**28.3**	ND<0.5	**7.23**	**7.1**	**1.67**	ND<0.01	ND<5.0	**2.89**	ND<1.0	ND<1.0	**3.52**	**45.7**	**37.8**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F3-3	10/7/19	0.5	ND<1.0	ND<0.30	**97.6**	ND<0.5	ND<0.5	**16.4**	ND<0.5	**4.79**	**4.08**	**0.897**	ND<0.01	ND<5.0	**2.68**	ND<1.0	ND<1.0	ND<1.0	**25.6**	**25.6**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F3-4	10/7/19	0.5	ND<1.0	**0.515**	**127**	ND<0.5	ND<0.5	**30.8**	ND<0.5	**7.93**	**8.67**	**2.4**	ND<0.01	ND<5.0	**2.96**	ND<1.0	ND<1.0	**8.24**	**45.4**	**41.3**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess the concentration of metals in soil beneath Flume associated with Cooling Tower 4	**F4-1**	10/7/19	0.5	ND<1.0	0.357	**138**	ND<0.5	ND<0.5	**39.2**	ND<0.5	**10.8**	**11.9**	**3.25**	ND<0.01	ND<5.0	**4.27**	ND<1.0	ND<1.0	**9.26**	**53.3**	**56.5**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F4-2	10/7/19	0.5	ND<1.0	**0.46**	**90.7**	ND<0.5	ND<0.5	**27.3**	ND<0.5	**6.14**	**6.79**	**1.53**	ND<0.01	ND<5.0	**3.52**	ND<1.0	ND<1.0	**1.83**	**38.1**	**34.4**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F4-3	10/7/19	0.5	ND<1.0	**0.479**	**74.2**	ND<0.5	ND<0.5	**27.1**	ND<0.5	**6.19**	**7.14**	**1.68**	ND<0.01	ND<5.0	**4.3**	ND<1.0	ND<1.0	ND<1.0	**38**	**32.5**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F4-4	10/7/19	0.5	ND<1.0	**0.682**	**97.7**	ND<0.5	ND<0.5	**32.5**	ND<0.5	**7.29**	**10.1**	**2.68**	ND<0.01	ND<5.0	**5.39**	ND<1.0	ND<1.0	ND<1.0	**43.4**	**47.7**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Human Health		**EPA-RSLi**		470	3.0	22,000	2,300	980	1,800,000	6.3	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
		DTSC-SLi		NA	0.36	NA	210	7.3	170,000	6.2	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
		Background for Arsenic		NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria		**TTLC**		500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
		STLC		15	5	100	0.75	1	560	5	80	25	5	0.2	350	20	1	5	7	24	250
		10x STLC		150	50	1,000	7.5	10	5,600	50	800	250	50	2	3,500	200	10	50	70	240	2,500
		20x STLC		NA	100	2,000	NA	20	NA	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - Environmental Protection Agency, Region 9, Regional Screening Levels for industrial ambient air modified for soil gas using the approved EPA attenuation factor of 0.03 for residential land , dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

DTSC-SLi - California Department of Toxic Substances Control, Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA), Note 3, Screening Levels for industrial ambient air modified for soil gas using the EPA approved attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

Yellow highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health

Table source is from Ardent

TABLE 16 - ARDENT LABORATORY RESULTS OF SOIL SAMPLES, TRIBUTARY

Rationale	Soil Sample ID	Sample Date	Sample Depth (feet bgs)	TPHcc (mg/kg)			PCBs (mg/kg)		Title 22 Metals (mg/kg)																
				TPHg C_4 - C_{10}	TPHd C_{10} - C_{28}	TPHo C_{23} - C_{35}	Aroclor 1254	All Others	Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess concentrations of metals and petroleum hydrocarbons potentially flowing off-site	**TB-1**	10/9/19	0.5	ND<10	**58**	**445**	0.03	ND<0.01	ND<1.0	**1.51**	**159**	ND<0.5	**1.31**	**59.7**	ND<0.2	**7.18**	**66.4**	**75.4**	**0.067**	ND<5.0	**26.1**	ND<1.0	ND<1.0	**3.79**	**44.2**	**414**
Protection of Human Health	**EPA-RSLi**			420	600	33,000	0.97	Various	470	3.0	22,000	2,300	980	1,800,000	6	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
	DTSC-SLi			NA	NA	NA	0.58	Various	NA	0.36	NA	210	7.3	170000	6.2	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
	Background for Arsenic			NA	NA	NA	NA	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Protection of Environment	**LARWQCB**			100	10,000	50000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria	**TTLC**			NA	NA	NA	NA	NA	500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
	STLC			NA	NA	NA	NA	NA	15	5	100	0.75	1	560	5	80	25	5	0.2	350	20	1	5	7	24	250
	10x STLC			NA	NA	NA	NA	NA	150	50	1,000	7.5	10	5,600	50	800	250	50	2	3,500	200	10	50	70	240	2,500
	20x STLC			NA	NA	NA	NA	NA	NA	100	2,000	NA	20	NA	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

TPHcc - total petroleum hydrocarbons carbon chain C4-C35 analyzed in general accordance with EPA Method No. 8015 (modified)

TPHg - total petroleum hydrocarbons as gasoline

Table source is from Ardent

TPHd - total petroleum hydrocarbons as diesel fuel

TPHo - total petroleum hydrocarbons as oil

EPA-RSLi - Environmental Protection Agency, Region 9, Regional Screening Levels for industrial abient air modified for soil gas using the approved EPA attenuation factor of 0.03 for residential land , dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

DTSC-SLi - California Department of Toxic Substances Control, Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA), Note 3, Screening Levels for industrial ambient air modified for soil gas using the EPA approved attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

Table 17
ERM Summary of Metals in Soil, Construction and Operations Waste Area, AOI 22
Etiwanda Generating Station
Rancho Cucamonga, California

				Analyte	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
				Method	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			USEPA RSL Industrial Soil THQ1.0 May 2020		470	NA	220,000	2,300	980	1,800,000^	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
			CA DTSC Note 3 Soil C/I Combined June 2020		NS	12*	NS	230	780	NS	NS	NS	320	4.4	NS	11,000	NS	NS	NS	NS	NS
Location ID	Sample Date	Depth	Sample ID	Lab SDG																	
BSS-2-24	24 Jun 2020	2ft	BSS-2-24	570-31775-1	NA	< 0.258	NA	NA	NA	NA	NA	NA	**1.47**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-2-25	24 Jun 2020	2ft	BSS-2-25	570-31775-1	NA	**1.73**	NA	NA	NA	NA	NA	NA	**1.93**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-2-27	26 Jun 2020	2ft	BSS-2-27	570-32008-1	NA	**0.737 J**	NA	NA	NA	NA	NA	NA	**0.415 J**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-2-28	26 Jun 2020	2ft	BSS-2-28	570-32008-1	NA	**2.10**	NA	NA	NA	NA	NA	NA	**2.98**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-2-29	26 Jun 2020	2ft	BSS-2-29	570-32008-1	NA	**0.527 J**	NA	NA	NA	NA	NA	NA	**1.10**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-3-11	19 Jun 2020	3ft	BSS-3-11	570-31444-1	NA	**2.34**	NA	NA	NA	NA	NA	NA	**7.20 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-3-15	23 Jun 2020	3ft	BSS-3-15	570-31676-1	NA	**0.692 J**	NA	NA	NA	NA	NA	NA	**1.13**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-3-16	23 Jun 2020	3ft	BSS-3-16	570-31676-1	NA	**0.812**	NA	NA	NA	NA	NA	NA	**3.28**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-3-5	18 Jun 2020	3ft	BSS-3-5	570-31325-1	NA	**9.40**	NA	NA	NA	NA	NA	NA	**20.4**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-3-6	18 Jun 2020	3ft	BSS-3-6	570-31325-1	NA	< 0.270	NA	NA	NA	NA	NA	NA	**1.01**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-3-7	19 Jun 2020	3ft	BSS-3-7	570-31444-1	NA	< 0.260	NA	NA	NA	NA	NA	NA	**2.91 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-4.5-14	19 Jun 2020	4.5ft	BSS-4.5-14	570-31444-1	NA	**0.294 J**	NA	NA	NA	NA	NA	NA	**2.00 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-4-12	19 Jun 2020	4ft	BSS-4-12	570-31444-1	NA	**9.12**	NA	NA	NA	NA	NA	NA	**35.2 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-4-19	23 Jun 2020	4ft	BSS-4-19	570-31676-1	NA	**1.23**	NA	NA	NA	NA	NA	NA	**2.86**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-4-20	24 Jun 2020	4ft	BSS-4-20	570-31775-1	NA	**1.17**	NA	NA	NA	NA	NA	NA	**1.36**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-4-21	24 Jun 2020	4ft	BSS-4-21	570-31775-1	NA	**1.71**	NA	NA	NA	NA	NA	NA	**1.50**	NA	NA	NA	NA	NA	NA	NA	NA
	24 Jun 2020	4ft	BSS-4-21	570-31775-2	< 0.148	**2.52**	**125**	**0.563**	**0.521**	**19.4**	**8.32**	**13.4**	**1.75 B**	< 0.0133 H	< 0.131	**10.4**	< 0.299 L	< 0.0853	**0.423 J**	**39.2**	**44.2 B**
BSS-4-30	26 Jun 2020	4ft	BSS-4-30	570-32008-1	NA	**2.28**	NA	NA	NA	NA	NA	NA	**1.81**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-4-32	26 Jun 2020	4ft	BSS-4-32	570-32008-1	NA	**0.607 J**	NA	NA	NA	NA	NA	NA	**2.47**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-5-22	24 Jun 2020	5ft	BSS-5-22	570-31775-1	NA	**0.755 J**	NA	NA	NA	NA	NA	NA	**1.53**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-5-23	24 Jun 2020	5ft	BSS-5-23	570-31775-1	NA	**1.58**	NA	NA	NA	NA	NA	NA	**1.39**	NA	NA	NA	NA	NA	NA	NA	NA
	24 Jun 2020	5ft	BSS-5-23	570-31775-2	**0.453 JB**	**1.87**	**94.5**	**0.412**	**0.324 J**	**12.7**	**6.05**	**8.11**	**0.987 B**	< 0.0131 H	< 0.131	**7.04**	< 0.297 L	< 0.0849	< 0.150	**27.8**	**31.4 B**
BSS-5-26	26 Jun 2020	5ft	BSS-5-26	570-32008-1	NA	**3.19**	NA	NA	NA	NA	NA	NA	**0.753**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-5-33	30 Jun 2020	5ft	BSS-5-33	570-32191-1	NA	< 0.259	NA	NA	NA	NA	NA	NA	**1.20**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-5-34	30 Jun 2020	5ft	BSS-5-34	570-32191-1	NA	**11.9**	NA	NA	NA	NA	NA	NA	**18.7**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-5-35	30 Jun 2020	5ft	BSS-5-35	570-32191-1	NA	**0.520 J**	NA	NA	NA	NA	NA	NA	**0.404 J**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-6.5-31	30 Jun 2020	6.5ft	BSS-6.5-31	570-32191-1	NA	**1.32**	NA	NA	NA	NA	NA	NA	**7.70**	NA	NA	NA	NA	NA	NA	NA	NA
	30 Jun 2020	6.5ft	BSS-6.5-31	570-32191-2	< 0.145	**2.99**	**100**	**0.507**	**0.404 J**	**17.3**	**6.31**	**21.2**	**17.9 B**	< 0.0129 H	< 0.129	**17.2**	< 0.293 L	< 0.0836	**0.438 J**	**39.7**	**59.7 B**
BSS-6-17	23 Jun 2020	6ft	BSS-6-17	570-31676-1	NA	< 0.256	NA	NA	NA	NA	NA	NA	**1.34**	NA	NA	NA	NA	NA	NA	NA	NA
~~BSS-6-31~~	~~26 Jun 2020~~	~~6ft~~	~~BSS-6-31~~	~~570-32008-1~~	~~NA~~	~~**14.6**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~**3.67**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~
~~BSS-6-4~~	~~18 Jun 2020~~	~~6ft~~	~~BSS-6-4~~	~~570-31325-1~~	~~NA~~	~~**12.6**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~**4.90**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~
BSS-6-5	18 Jun 2020	6ft	BSS-6-5	570-31325-1	NA	**0.455 J**	NA	NA	NA	NA	NA	NA	**0.825**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-6-6	18 Jun 2020	6ft	BSS-6-6	570-31325-1	NA	**1.44**	NA	NA	NA	NA	NA	NA	**0.465 J**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-6-8	19 Jun 2020	6ft	BSS-6-8	570-31444-1	NA	**2.43**	NA	NA	NA	NA	NA	NA	**5.21 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-6-9	19 Jun 2020	6ft	BSS-6-9	570-31444-1	NA	< 0.250	NA	NA	NA	NA	NA	NA	**1.23 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-7-13	19 Jun 2020	7ft	BSS-7-13	570-31444-1	NA	**8.16**	NA	NA	NA	NA	NA	NA	**31.1 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-7-4	23 Jun 2020	7ft	BSS-7-4	570-31676-1	NA	**0.410 J**	NA	NA	NA	NA	NA	NA	**1.72**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-8.5-10	19 Jun 2020	8.5ft	BSS-8.5-10	570-31444-1	NA	< 0.267	NA	NA	NA	NA	NA	NA	**2.03 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-8.5-18	23 Jun 2020	8.5ft	BSS-8.5-18	570-31676-2	NA	< 0.253 L	NA	NA	NA	NA	NA	NA	**0.931**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-1.5-4	19 Jun 2020	1.5ft	ESS-1.5-4	570-31444-1	NA	< 0.260	NA	NA	NA	NA	NA	NA	**1.50 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-1.5-7	19 Jun 2020	1.5ft	ESS-1.5-7	570-31444-1	NA	**0.312 J**	NA	NA	NA	NA	NA	NA	**1.56 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-1.5-8	23 Jun 2020	1.5ft	ESS-1.5-8	570-31676-1	NA	< 0.264	NA	NA	NA	NA	NA	NA	**1.42**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-1.5-9	23 Jun 2020	1.5ft	ESS-1.5-9	570-31676-1	NA	**1.15**	NA	NA	NA	NA	NA	NA	**3.69**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-1-3	19 Jun 2020	1ft	ESS-1-3	570-31444-1	NA	**2.05**	NA	NA	NA	NA	NA	NA	**7.60 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-1-4	19 Jun 2020	1ft	ESS-1-4	570-31444-1	NA	**3.36**	NA	NA	NA	NA	NA	NA	**16.0 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-2-7	19 Jun 2020	2ft	ESS-2-7	570-31444-1	NA	**0.979**	NA	NA	NA	NA	NA	NA	**2.00 B**	NA	NA	NA	NA	NA	NA	NA	NA
~~ESS-3-1~~	~~18 Jun 2020~~	~~3ft~~	~~ESS-3-1~~	~~570-31325-1~~	~~NA~~	~~**31.5**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~**75.4**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~
ESS-3-3	19 Jun 2020	3ft	ESS-3-3	570-31444-1	NA	**1.40**	NA	NA	NA	NA	NA	NA	**2.76 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-4.5-6	19 Jun 2020	4.5ft	ESS-4.5-6	570-31444-1	NA	**0.479 J**	NA	NA	NA	NA	NA	NA	**1.42 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-4-5	19 Jun 2020	4ft	ESS-4-5	570-31444-1	NA	< 0.251	NA	NA	NA	NA	NA	NA	**1.92 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-5-6	19 Jun 2020	5ft	ESS-5-6	570-31444-1	NA	< 0.268	NA	NA	NA	NA	NA	NA	**2.65 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-6.5-5	19 Jun 2020	6.5ft	ESS-6.5-5	570-31444-1	NA	< 0.266	NA	NA	NA	NA	NA	NA	**2.38 B**	NA	NA	NA	NA	NA	NA	NA	NA
NSS-3-11	18 Jun 2020	3ft	NSS-3-11	570-31325-1	NA	**2.21**	NA	NA	NA	NA	NA	NA	**0.763**	NA	NA	NA	NA	NA	NA	NA	NA
NSS-3-12	18 Jun 2020	3ft	NSS-3-12	570-31325-1	NA	**1.72**	NA	NA	NA	NA	NA	NA	**1.78**	NA	NA	NA	NA	NA	NA	NA	NA
NSS-3-13	18 Jun 2020	3ft	NSS-3-13	570-31325-1	NA	**1.33**	NA	NA	NA	NA	NA	NA	**1.64**	NA	NA	NA	NA	NA	NA	NA	NA
NSS-3-7	18 Jun 2020	3ft	NSS-3-7	570-31325-1	NA	**0.652 J**	NA	NA	NA	NA	NA	NA	**1.20**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-1.5-3	23 Jun 2020	1.5ft	SSS-1.5-3	570-31676-1	NA	**2.05**	NA	NA	NA	NA	NA	NA	**4.93**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-1-14	30 Jun 2020	1ft	SSS-1-14	570-32191-1	NA	**0.304 J**	NA	NA	NA	NA	NA	NA	**3.81**	NA	NA	NA	NA	NA	NA	NA	NA
	30 Jun 2020	1ft	SSS-1-14	570-32191-2	**0.376 JB**	**1.68**	**83.5**	**0.506**	**0.352 J**	**9.80**	**6.06**	**6.52**	**4.20 B**	< 0.0137 H	< 0.133	**7.07**	< 0.302 L	< 0.0861	**0.262 J**	**27.7**	**33.4 B**
~~SSS-1-8~~	~~26 Jun 2020~~	~~1ft~~	~~SSS-1-8~~	~~570-32008-1~~	~~NA~~	~~**13.9**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~**28.9**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~
SSS-2-11	30 Jun 2020	2ft	SSS-2-11	570-32191-1	NA	**1.17**	NA	NA	NA	NA	NA	NA	**1.69**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-2-7	26 Jun 2020	2ft	SSS-2-7	570-32008-1	NA	**4.17**	NA	NA	NA	NA	NA	NA	**12.7**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-3-12	30 Jun 2020	3ft	SSS-3-12	570-32191-1	NA	**0.382 J**	NA	NA	NA	NA	NA	NA	**1.26**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-4.5-1	19 Jun 2020	4.5ft	SSS-4.5-1	570-31444-1	NA	< 0.260	NA	NA	NA	NA	NA	NA	**2.01 B**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-4-6	26 Jun 2020	4ft	SSS-4-6	570-32008-1	NA	**1.62**	NA	NA	NA	NA	NA	NA	**1.28**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-6-10	30 Jun 2020	6ft	SSS-6-10	570-32191-1	NA	**0.677 J**	NA	NA	NA	NA	NA	NA	**1.46**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-6-9	30 Jun 2020	6ft	SSS-6-9	570-32191-1	NA	**2.01**	NA	NA	NA	NA	NA	NA	**0.747**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-7-13	30 Jun 2020	7ft	SSS-7-13	570-32191-1	NA	**1.80**	NA	NA	NA	NA	NA	NA	**0.413 J**	NA	NA	NA	NA	NA	NA	NA	NA
WSS-1.5-5	24 Jun 2020	1.5ft	WSS-1.5-5	570-31775-1	NA	**0.427 J**	NA	NA	NA	NA	NA	NA	**3.90**	NA	NA	NA	NA	NA	NA	NA	NA
	24 Jun 2020	1.5ft	WSS-1.5-5	570-31775-2	**0.519 JB**	**0.837**	**83.6**	**0.393**	**0.412 J**	**10.4**	**5.61**	**7.70**	**3.37 B**	< 0.0140 H	< 0.131	**6.31**	< 0.299 L	< 0.0853	**0.684 J**	**24.2**	**37.0 B**

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Table 17
ERM Summary of Metals in Soil, Construction and Operations Waste Area, AOI 22
Etiwanda Generating Station
Rancho Cucamonga, California

Location ID	Sample Date	Depth	Sample ID	Lab SDG	Analyte	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
					Method	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B
					Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
					USEPA RSL Industrial Soil THQ1.0 May 2020	470	NA	220,000	2,300	980	1,800,000^	350	47,000	**800**	46	5,800	22,000	5,800	5,800	12	5,800	350,000
					CA DTSC Note 3 Soil C/I Combined June 2020	NS	**12***	NS	230	780	NS	NS	NS	**320**	4.4	NS	11,000	NS	NS	NS	NS	NS
WSS-1.5-6	24 Jun 2020	1.5ft	WSS-1.5-6	570-31775-1		NA	**0.897**	NA	NA	NA	NA	NA	NA	**2.66**	NA	NA	NA	NA	NA	NA	NA	NA
WSS-2-2	24 Jun 2020	2ft	WSS-2-2	570-31775-1		NA	**2.10**	NA	NA	NA	NA	NA	NA	**7.75**	NA	NA	NA	NA	NA	NA	NA	NA
WSS-2-3	24 Jun 2020	2ft	WSS-2-3	570-31775-1		NA	**1.31**	NA	NA	NA	NA	NA	NA	**1.57**	NA	NA	NA	NA	NA	NA	NA	NA
WSS-2-4	24 Jun 2020	2ft	WSS-2-4	570-31775-1		NA	**1.06**	NA	NA	NA	NA	NA	NA	**1.81**	NA	NA	NA	NA	NA	NA	NA	NA
WSS-2-5	26 Jun 2020	2ft	WSS-2-5	570-32008-1		NA	**1.38**	NA	NA	NA	NA	NA	NA	**1.67**	NA	NA	NA	NA	NA	NA	NA	NA
	26 Jun 2020	2ft	WSS-2-5	570-32008-2		**0.415 JB**	**0.435 J**	**92.9**	**0.467**	**0.411 J**	**14.0**	**6.58**	**10.4**	**1.78 B**	< 0.0133 H	< 0.134	**8.47**	< 0.305 L	< 0.0870	**0.605 J**	**29.6**	**35.1 B**
WSS-2-7	30 Jun 2020	2ft	WSS-2-7	570-32191-1		NA	< 0.260	NA	NA	NA	NA	NA	NA	**0.902**	NA	NA	NA	NA	NA	NA	NA	NA
WSS-3-6	30 Jun 2020	3ft	WSS-3-6	570-32191-1		NA	< 0.258	NA	NA	NA	NA	NA	NA	**0.425 J**	NA	NA	NA	NA	NA	NA	NA	NA
LFI-1-BS-1	07-May-20	5ft	LFI-1-BS-5-1	570-27652-1		**0.539 JB**	**2.75**	**79.0**	**0.281**	**0.193 J**	**9.40**	**5.03**	**13.0**	**2.23**	< 0.00597	< 0.133	**5.68**	**0.689 JB**	**0.120 JB**	< 0.153	**22.0**	**25.0**
~~LFI-1-ESS-4~~	~~07-May-20~~	~~2.5ft~~	~~LFI-1-ESS-2.5-4~~	~~570-27652-1~~		~~< 0.152~~	~~**122**~~	~~**305**~~	~~**0.548**~~	~~**1.45**~~	~~**363**~~	~~**5.02**~~	~~**1,770**~~	~~**321**~~	~~**0.107**~~	~~**2.77 B**~~	~~**26.9**~~	~~**0.611 JB**~~	~~**0.368 B**~~	~~< 0.155~~	~~**65.5**~~	~~**589**~~
LFI-1-NSS-1	07-May-20	2.5ft	LFI-1-NSS-2.5-1	570-27652-1		< 0.145	**1.57**	**83.0**	**0.302**	**0.203 J**	**8.35**	**4.73**	**14.1**	**1.91**	< 0.00568	< 0.129	**5.18**	< 0.293	**0.128 JB**	**0.238 J**	**21.6**	**26.9**
~~LFI-1-SSS-3~~	~~07-May-20~~	~~2.5ft~~	~~LFI-1-SSS-2.5-3~~	~~570-27652-1~~		~~< 0.151~~	~~**340**~~	~~**538**~~	~~**0.922**~~	~~**2.84**~~	~~**749**~~	~~**7.92**~~	~~**4,560**~~	~~**1,100**~~	~~**0.236**~~	~~**6.82 B**~~	~~**40.0**~~	~~**2.22 B**~~	~~**1.41 B**~~	~~< 0.154 L~~	~~**125**~~	~~**883**~~
LFI-1-WSS-2	07-May-20	2.5ft	LFI-1-WSS-2.5-2	570-27652-1		< 0.148	**1.07**	**76.1**	**0.266**	**0.196 J**	**8.59**	**4.31**	**12.3**	**1.58**	< 0.00559	< 0.131	**5.28**	**0.530 JB**	< 0.0849	**0.312 J**	**19.9**	**22.8**
LFI-3-BS-1	06-May-20	8ft	LFI-3-BS-8-1	570-27534-1		< 0.151	**0.659 J**	**50.8**	**0.225 J**	< 0.137	**5.74**	**3.26**	**4.25**	**1.27 B**	**0.0725 J**	< 0.134	**3.97**	< 0.305 L	< 0.0870	**0.661 J**	**15.5**	**19.3**
LFI-3-BS-2	06-May-20	8ft	LFI-3-BS-8-2	570-27534-1		**0.251 J**	**0.735 J**	**56.7**	**0.251 J**	< 0.138	**7.14**	**3.63**	**7.11**	**1.65 B**	**0.0581 J**	< 0.135	**4.76**	< 0.306 L	< 0.0874	**0.440 J**	**18.3**	**19.9**
LFI-3-BS-3	07-May-20	8ft	LFI-3-BS-8-3	570-27655-1		< 0.149	**1.48**	**78.2**	**0.338**	**0.196 J**	**11.0**	**4.27**	**13.5**	**2.37**	< 0.00559	**0.134 JB**	**8.29**	< 0.300 L	**0.109 JB**	**0.253 J**	**27.3**	**30.6**
LFI-3-BS-4	07-May-20	8ft	LFI-3-BS-8-4	570-27655-1		**0.167 JB**	**1.25**	**42.0**	**0.139 J**	< 0.136	**4.31**	**2.43**	**8.67**	**1.43**	< 0.00559	< 0.133	**3.17**	< 0.302 L	**0.113 JB**	**0.440 J**	**11.2**	**13.6**
LFI-3-BS-5	07-May-20	8ft	LFI-3-BS-8-5	570-27655-1		< 0.146	**1.25**	**44.4**	**0.162 J**	< 0.132	**4.87**	**2.59**	**9.42**	**1.90**	< 0.00597	< 0.129	**3.42**	< 0.294	**0.105 JB**	**0.415 J**	**12.3**	**14.4**
LFI-3-BS-6	07-May-20	8ft	LFI-3-BS-8-6	570-27655-1		< 0.150	**1.30**	**35.2**	< 0.138	< 0.136	**3.43**	**1.95**	**6.85**	**1.59**	< 0.00559	**0.148 JB**	**2.44**	< 0.302 L	**0.181 JB**	**0.284 J**	**8.72**	**10.9**
LFI-3-ESS-3	07-May-20	5ft	LFI-3-ESS-5-3	570-27655-1		< 0.145	**2.89**	**70.8**	**0.298**	**0.210 J**	**9.85**	**4.41**	**15.4**	**7.15**	**0.0103 J**	**0.335 B**	**7.80**	< 0.291	< 0.0832	**0.438 J**	**22.3**	**47.7**
LFI-3-NSS-4	07-May-20	5.5ft	LFI-3-NSS-5.5-4	570-27655-1		**0.721 JB**	**2.25**	**79.0**	**0.279**	**0.184 J**	**8.60**	**4.58**	**11.0**	**1.97**	< 0.00607	< 0.133	**5.15**	< 0.302 L	**0.0902 JB**	< 0.153	**20.6**	**23.4**
LFI-3-SSS-1	06-May-20	5ft	LFI-3-SSS-5-1	570-27534-1		< 0.150	**5.60**	**122**	**0.477**	**0.243 J**	**23.5**	**6.90**	**72.9**	**8.97 B**	**0.0389 J**	< 0.133	**10.8**	< 0.302 L	< 0.0861	< 0.153	**34.8**	**73.3**
~~LFI-3-WSS-2~~	~~06-May-20~~	~~5ft~~	~~LFI-3-WSS-5-2~~	~~570-27534-1~~		~~< 0.148~~	~~**379**~~	~~**318**~~	~~**1.21**~~	~~**9.64**~~	~~**808**~~	~~**19.8**~~	~~**6,460**~~	~~**1,360 B**~~	~~**0.338**~~	~~**10.7**~~	~~**85.4**~~	~~< 0.297 L~~	~~**1.97 B**~~	~~< 0.150 L~~	~~**132**~~	~~**2,710**~~

Notes:
Results in mg/kg.
< = Compound not detected. Reportable detection limit shown.
Bolded values indicate concentrations above the reportable detection limit.
Shaded values indicate concentrations above the standard.
** = Southern California background concentration of 12 mg/kg used.*
^ = Industrial RSL for Chromium III used in absence of Total Chromium Industrial RSL.
~~Strikethrough~~ indicates sample was over-excavated due to a screening level exceedance (refer to Table 4 for sample ID of resample).
Samples with two sets of results are the same sample analyzed on separate dates.

Qualifiers - Inorganic:
B = Compound was found in the blank and sample.
J = Result is less than the reporting limit, but greater than or equal to the method detection limit; concentration is an approximate value.
L = A negative instrument reading had an absolute value greater than the reporting limit.
H = Sample was prepped or analyzed beyond the specified holding time.

SW6010B analyses performed by Eurofins Calscience Environmental Laboratories, Inc.
SW7471A analyses performed by Eurofins Calscience Environmental Laboratories, Inc.
CA DTSC Note 3 Soil C/I Combined June 2020 = CA DTSC Note 3 C/I Soil Screening Level combined as minimum of Cancer/Noncancer Endpoint, updated June 2020
EPA RSL Industrial Soil THQ1.0 May 2020 = RSL Industrial Soil (TR=1E 06, HQ=1) May 2020

Abbreviations:
CA DTSC = California Department of Toxic Substances Control
C/I = Commercial/Industrial
ft = Feet
mg/kg = Milligrams per kilogram
NA = Not Applicable
NS = No Standard
RSL = Regional Screening Level
USEPA = U.S. Environmental Protection Agency

Table source is from ERM

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Table 18
ERM Summary of VOCs in Soil, Construction and Operations Waste Area, AOI 22
Etiwanda Generating Station
Rancho Cucamonga, California

Analyte	Location ID Sample Date Depth CA DTSC Note 3 Soil C/I Combined June 2020	BSS-5-23 6/24/2020 5 ft	BSS-8.5-18 6/23/2020 8.5 ft
SW8260B			
1,1,1,2-Tetrachloroethane	8,800	< 0.23	< 0.26
1,1,1-Trichloroethane	7,200,000	< 0.22	< 0.24
1,1,2,2-Tetrachloroethane	2,700	< 0.33	< 0.37
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)	NS	< 0.34	< 0.38 *
1,1,2-Trichloroethane	NS	< 0.34	< 0.38
1,1-Dichloroethane	16,000	< 0.20	< 0.23
1,1-Dichloroethene	350,000	< 0.34	< 0.37
1,1-Dichloropropene	NS	< 0.32	< 0.35
1,2,3-Trichlorobenzene	300,000	< 0.88	< 0.98
1,2,3-Trichloropropane	21	< 0.80	< 0.89
1,2,4-Trichlorobenzene	35,000	< 0.30	< 0.33
1,2,4-Trimethylbenzene	NS	< 0.57	< 0.63
1,2-Dibromo-3-chloropropane	57	< 1.7	< 1.9
1,2-Dichlorobenzene	NS	< 0.22	< 0.25
1,2-Dichloroethane	NS	< 0.30	< 0.34
1,2-Dichloropropane	NS	< 0.42	< 0.47
1,3,5-Trimethylbenzene	NS	< 0.53	< 0.59
1,3-Dichlorobenzene	NS	< 0.17	< 0.19
1,3-Dichloropropane	2,200,000	< 0.24	< 0.27
1,4-Dichlorobenzene	NS	< 0.22	< 0.24
2,2-Dichloropropane	NS	< 0.32	< 0.36
2-Butanone	NS	< 3.7	< 4.1
2-Hexanone	NS	< 1.7	< 1.9
4-Chlorotoluene	2,300,000	< 0.21	< 0.23
4-Isopropyltoluene	NS	< 0.61	< 0.68
4-Methyl-2-pentanone	NS	< 4.2	< 4.7
Acetone	NS	**18 J**	**19 J**
Benzene	1,400	**0.76 J**	**0.46 J**
Bromobenzene	NS	< 0.20	< 0.23
Bromodichloromethane	1,300	< 0.23	< 0.25
Bromoform	86,000	< 0.77	< 0.86
Carbon disulfide	NS	**0.43 J**	< 0.33
Carbon tetrachloride	2,900	< 0.27	< 0.30
Chlorobenzene	NS	< 0.22	< 0.24
Chlorobromomethane	NS	< 0.67	< 0.74
Chloroethane	NS	< 1.4	< 1.6
Chloroform	NS	< 0.23	< 0.26
cis-1,2-Dichloroethene	84,000	< 0.27	< 0.30
cis-1,3-Dichloropropene	NS	< 0.25	< 0.27
Dibromochloromethane	4,100	< 0.55	< 0.61
Dibromomethane	NS	< 0.75	< 0.83
Dichlorodifluoromethane (Freon 12)	NS	< 0.43	< 0.48
Ethylbenzene	NS	< 0.15	< 0.16
Ethylene dibromide	160	< 0.25	< 0.28
Isopropylbenzene (Cumene)	NS	< 0.53	< 0.59
m,p-Xylenes	NS	< 0.26	< 0.29
Methyl bromide	NS	< 9.1	< 10
Methyl chloride	NS	< 0.29	< 0.33
Methyl tert-butyl ether	NS	< 0.29	< 0.32
Methylene chloride	26,000	< 1.3	< 1.4
Naphthalene	6,500	< 0.79	< 0.88
n-Butylbenzene	18,000,000	< 0.15	< 0.17
n-Propylbenzene	NS	< 0.49	< 0.54
o-Chlorotoluene (2-chlorotoluene)	2,500,000	< 0.22	< 0.25
o-Xylene	NS	< 0.54	< 0.60
sec-Butylbenzene	12,000,000	< 0.56	< 0.62
Styrene	32,000,000	< 0.59	< 0.65
tert-Butylbenzene	12,000,000	< 0.15	< 0.16
Tetrachloroethene	2,700	< 0.20	< 0.23
Toluene	5,300,000	**0.53 J**	< 0.56
trans-1,2-Dichloroethene	600,000	< 0.49	< 0.55
trans-1,3-Dichloropropene	NS	< 0.59	< 0.65
Trichloroethene	NS	< 0.29	< 0.32
Trichlorofluoromethane (Freon 11)	5,400,000	< 0.36	< 0.40
Vinyl acetate	NS	< 4.6	< 5.1
Vinyl chloride	150	< 0.49	< 0.54

Notes:
Results in micrograms per kilogram.
< = Compound not detected. Reportable detection limit shown.
Bolded values indicate concentrations above the reportable detection limit.
** = LCS or LCSD is outside acceptance limits.*

Qualifiers:
J = Result is less than the reporting limit, but greater than or equal to the method detection limit; Concentration is an approximate value.

CA DTSC Note 3 Soil C/I Combined June 2019 = CA DTSC Note 3 C/I Soil Screening Level combined as minimum of Cancer/Noncancer Endpoint, updated June 2020.
All analyses performed by Eurofins Calscience Environmental Laboratories, Inc. (Calscience).

Abbreviations:
CA DTSC = California Department of Toxic Substances Control
C/I = Commercial/Industrial
ft = Feet
LCS =Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
VOC = Volatile organic compound
NS = No standard
Table source is from ERM

Table 19
ERM Summary of TPH in Soil, Construction and Operations Waste Area, AOI 22
Etiwanda Generating Station
Rancho Cucamonga, California

Analyte	Location ID Sample Date Sample Type Depth	BSS-5-23 24-Jun-20 N 5 ft	BSS-8.5-18 23-Jun-20 N 8.5 ft
Method SW8015B			
C11-C12-Total		< 3.6	< 3.5
C13-C14-Total		< 3.6	< 3.5
C15-C16-Total		< 3.6	< 3.5
C17-C18-Total		< 3.6	< 3.5
C17-C44-Total		< 3.8	< 3.7
C19-C20-Total		< 3.6	< 3.5
C21-C22-Total		< 3.6	< 3.5
C23-C24-Total		< 3.6	< 3.5
C25-C28-Total		< 3.6	< 3.5
C29-C32-Total		< 3.6	< 3.5
C33-C36-Total		< 3.6	< 3.5
C37-C40-Total		< 3.6	< 3.5
C41-C44-Total		< 3.6	< 3.5
C6		< 3.6	< 3.5
C6-C44-Total		< 3.6	< 3.5
C7		< 3.6	< 3.5
C-8		< 3.6	< 3.5
C9-C10-Total		< 3.6	< 3.5
Diesel Range Organics (C10-C28)		< 3.6	< 3.5
Diesel Range Organics (C13-C22)		< 3.6	< 3.5

Notes:
Results in mg/kg.
< = Compound not detected. Reportable detection limit shown.
Bolded values indicate concentrations above the reportable detection limit.

All analyses performed by Eurofins Calscience Environmental Laboratories, Inc.

Abbreviations:
ft = Feet
N = Normal environmental sample
TPH = Total petroleum hydrocarbon
Table source is ERM

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TABLE 20
Interim Data Gap Soil Sample Analytical Results - Total Petroleum Hydrocarbons (TPH)
Etiwanda Generating Station

Area of Concern	Feature Name	Boring ID	Depth in Feet Below Ground Surface	Sample Date	TPH as Gasoline EPA 8015B		TPH as Diesel EPA 8015B			
					TPH Gasoline C4-C12	Low Aromatic C6-C8	Medium Aromatic C9-C16	TPH Diesel C13-C22	High Aromatic C17-C32	TPH Motor Oil C23-C32
					milligrams per kilogram (mg/kg)		milligrams per kilogram (mg/kg)			
12a	Cooling Transformer and Switch Panel	HA16	0.5	10/29/20	<0.223	<0.223	<10.0	<10.0	<10.0	<10.0
		HA16	2.5	10/29/20	<0.200	<0.200	<10.0	<10.0	<10.0	<10.0
		HA17	0.5	10/29/20	<0.210	<0.210	<10.0	<10.0	<10.0	<10.0
		HA17	2.5	10/29/20	<0.201	<0.201	<10.0	<10.0	<10.0	<10.0
23	Auxiliary Transformer	HA12	0.5	10/29/20	<0.192	<0.192	<10.0	<10.0	<10.0	<10.0
		HA12	2.5	10/29/20	<0.228	<0.228	<10.0	<10.0	<10.0	<10.0
		HA13	0.5	10/29/20	<0.172	<0.172	<10.0	**63.0**	**72.0**	**6.8 J**
		HA13	2.5	10/29/20	<0.215	<0.215	<10.0	<10.0	<10.0	<10.0
		HA14	0.5	10/29/20	<0.206	<0.206	<10.0	<10.0	<10.0	<10.0
		HA14	2.5	10/29/20	<0.215	<0.215	<10.0	<10.0	<10.0	<10.0
		HA15	0.5	10/29/20	<0.223	<0.223	<10.0	<10.0	<10.0	<10.0
		HA15	2.5	10/29/20	<0.237	<0.237	<10.0	<10.0	<10.0	<10.0
23	Auxiliary Transformer	HA18	0.5	11/02/20	<0.191	<0.191	<10.0	**3.42 J**	**29.1**	**24.9**
		HA18	2.5	11/02/20	<0.204	<0.204	<10.0	<10.0	<10.0	<10.0
		HA19	0.5	11/02/20	<0.211	<0.211	<10.0	<10.0	<10.0	<10.0
		HA19	2.5	11/02/20	<0.213	<0.213	<10.0	<10.0	<10.0	<10.0
		HA20	0.5	11/02/20	<0.212	<0.212	<10.0	<10.0	<10.0	<10.0
		HA20	2.5	11/02/20	<0.198	<0.198	<10.0	<10.0	<10.0	<10.0
		HA21	0.5	11/02/20	<0.211	<0.211	<10.0	<10.0	<10.0	<10.0
		HA21	2.5	11/02/20	<0.210	<0.210	<10.0	<10.0	<10.0	<10.0
DTSC Screening Level (SL) Commercial NonCancer (June 2020)									18,000	
USEPA Regional Screening Level (RSL) Industrial (Nov 2020)						420	560		30,000	
Los Angeles RWQCB for non drinking water aquifers (May 1996)					1,000			10,000		50,000
San Francisco Bay RWQCB Tier 1 Env. Screening Levels (ESLs) (Jan 2019)					100			260		1,600
Residential Screening Levels for Information Purposes Only										
DTSC Screening Level (SL) Residential NonCancer (June 2020)									2,400	
USEPA RSL Residential (Nov 2020)						82	97		2,400	

Notes:

<: Not detected at or above the indicated Reporting Limit (RL)

J: The estimated value was less than the RL but greater than or equal to the Method Detection Limit

DTSC: Department of Toxic Substances Control

USEPA: United States Environmental Protection Agency

RWQCB: Regional Water Quality Control Board

Commercial/Industrial screening comparison data (Note: Tier 1 ESLs are not for commercial/industrial land use)

TABLE 21

Interim Data Gap Soil Sample Analytical Results Polychlorinated Biphenyls (PCBs)

Etiwanda Generating Station

Area of Concern	Feature Name	Boring ID	Depth in Feet Below Ground Surface	Sample Date	EPA 8082								
					Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
					micrograms per kilogram (µg/kg)								
12a	Cooling Transformer and Switch Panel	HA16	0.0	10/29/20	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	**30.8**	<20.0	<20.0
		HA16	0.5	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA16	1.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA17	0.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	**20.4**	<10.0	<10.0
		HA17	0.5	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA17	1.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
23	Auxiliary Transformer	HA12	0.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA12	0.5	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA12	1.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA13	0.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	**23.5**	**32.0**	<10.0	<10.0
		HA13	0.5	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA13	1.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA14	0.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA14	0.5	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	**411**	<10.0	<10.0	<10.0
		HA14	1.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	**41.3**	<10.0	<10.0	<10.0
		HA15	0.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	**43.6**	**32.0**	<10.0	<10.0
		HA15	0.5	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	**17.5**	**12.9**	<10.0	<10.0
		HA15	1.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
23	Auxiliary Transformer	HA18	0.0	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	**34.0**	<10.0	<10.0
		HA18	0.5	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA18	1.0	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	**41.3**	<10.0	<10.0	<10.0
		HA19	0.0	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	**172**	<10
		HA19	0.5	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	**20.2**	<10.0	<10.0	<10.0
		HA19	1.0	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA20	0.0	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	**19.3**	<10	<10
		HA20	0.5	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA20	1.0	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA21	0.0	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	**48.5**	<10.0	<10.0
		HA21	0.5	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA21	1.0	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DTSC Screening Level (SL) Commercial Cancer (June 2020)					17,000	530	490	580	580	590	600		
DTSC SL Commercial NonCancer (June 2020)					29,000					8,400			
USEPA Regional Screening Level (RSL) Industrial (Nov 2020)					27,000	830	720	950	940	970	990		
Residential Screening Levels for Information Purposes Only													
DTSC SL Residential Cancer (June 2020)					6,600	200	170	230	230	240	240		
DTSC SL Residential NonCancer (June 2020)					4,000					1,200			
USEPA RSL Residential (Nov 2020)					4,100	200	170	230	230	240	240		

Notes:

DTSC: Department of Toxic Substances Control

USEPA: United States Environmental Protection Agency

<: Not detected above Reporting Limit

Commercial/Industrial screening comparison data

TABLE 22
Interim Data Gap Soil Sample Analytical Results - pH
Etiwanda Generating Station

Area of Concern	Feature Name	Boring ID	Depth in Feet Below Ground Surface	Sample Date	pH EPA 9045C
					pH unit
24	Sulfuric Acid AST	HA1	0.5	10/28/20	**5.69**
		HA1	2.5	10/28/20	**6.20**
		HA2	0.5	10/28/20	**6.50**
		HA2	2.5	10/28/20	**8.70**
		HA3	0.5	10/28/20	**8.74**
		HA3	2.5	10/28/20	**9.12**
		HA4	0.5	10/28/20	**8.79**
		HA4	2.5	10/28/20	**8.92**
24	Sulfuric Acid AST	HA5	0.5	10/28/20	**9.43**
		HA5	2.5	10/28/20	**9.65**
		HA6	0.5	10/28/20	**8.11**
		HA6	2.5	10/28/20	**6.54**
		HA7	0.5	10/28/20	**7.20**
27	Sodium Hypochlorite Tank	HA8	0.5	10/28/20	**9.42**
		HA8	2.5	10/28/20	**10.1**
27	Sodium Hypochlorite Tank	HA9	0.5	10/29/20	**9.65**
		HA9	2.5	10/29/20	**9.90**
		HA10	0.5	10/29/20	**9.44**
		HA11	0.5	10/29/20	**9.60**
		HA11	2.5	10/29/20	**9.52**

Notes:
USEPA: United States Environmental Protection Agency

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13, and 15

Analyte / Sample ID:	Units	Commercial/Industrial RBSLs		Background	PFP-01-1.5	PFP-01-4.0	PFP-02-1.5	PFP-02-4.0	PFP-03-1.5	PFP-03-4.0	PFP-04-1.5	PFP-04-4.0	PFP-05-1.5	PFP-05-4.0	PFP-06-1.5
Boring:					PFP-01	PFP-01	PFP-02	PFP-02	PFP-03	PFP-03	PFP-04	PFP-04	PFP-05	PFP-05	PFP-06
Depth (ft bgs):		Cancer	Noncancer		1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5
Date Collected:					2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-05	2020-11-05	2020-11-05
Purgeable Total Petroleum Hydrocarbons (TPH)															
TPH-g	mg/kg	None	None	None	<0.054	<0.056	<0.069	<0.057	<0.055	<0.068	<0.053	<0.059	<0.053	<0.055	<0.049
Extractable Total Petroleum Hydrocarbons (TPH)															
C11-C12	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	<4.4	<4.0	<4.4
C13-C14	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	<4.4	<4.0	<4.4
C15-C16	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	<4.4	<4.0	<4.4
C17-C18	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	<4.4	<4.0	<4.4
C19-C20	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	5.3 J	<4.0	<4.4
C21-C22	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	5.8	<4.0	<4.4
C23-C24	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	5.9	<4.0	<4.4
C25-C28	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	15	<4.0	<4.4
C29-C32	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	18	<4.0	<4.4
C33-C36	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	9.8	<4.0	<4.4
C37-C40	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	6.2	<4.0	<4.4
C41-C44	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	<4.4	<4.0	<4.4
C6 as C6	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	<4.4	<4.0	<4.4
C6-C44	mg/kg	None	None	None	<4.0	<4.0	<4.6	6.0	8.3	<4.5	11	6.5	72	13	15
C7 as C7	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	<4.4	<4.0	<4.4
C8 as C8	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	<4.4	<4.0	<4.4
C9-C10	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	<4.4	<4.0	<4.4
TPH-d	mg/kg	None	None	None	<4.0	<4.0	<4.6	4.5 J	<4.2	<4.5	<4.2	<4.4	16	6.6	4.4 J
TPH-jf	mg/kg	None	None	None	<3.2	<3.2	<3.7	<3.3	<3.3	<3.6	<3.4	<3.5	9.3	<3.2	<3.6
TPH-mo	mg/kg	None	None	None	<12	<12	<14	<12	13 J	<13	13 J	<13	71	15 J	18 J
Volatile Organic Compounds (VOCs)															
Acetone	mg/kg	None	670,000	None	<0.010	<0.011	<0.013	0.016 J	0.011 J	0.019 J	<0.010	<0.011	<0.010	<0.011	<0.0095
Benzene	mg/kg	1.4	46	None	0.00046 J	<0.00028	<0.00035	0.00036 J	0.00039 J	0.0015	0.00043 J	<0.00030	<0.00027	0.00067 J	0.00044 J
Bromobenzene	mg/kg	None	1,800	None	<0.00022	<0.00023	<0.00028	<0.00023	<0.00023	<0.00028	<0.00021	<0.00024	<0.00021	<0.00023	<0.00020
Bromochloromethane	mg/kg	None	630	None	<0.00047	<0.00049	<0.00060	<0.00050	<0.00048	<0.00059	<0.00046	<0.00051	<0.00046	<0.00048	<0.00043
Bromodichloromethane	mg/kg	1.3	1,300	None	<0.00017	<0.00017	<0.00022	<0.00018	<0.00017	<0.00021	<0.00016	<0.00018	<0.00016	<0.00017	<0.00015
Bromoform	mg/kg	86	3,000	None	<0.0014	<0.0015	<0.0018	<0.0015	<0.0014	<0.0018	<0.0014	<0.0015	<0.0014	<0.0014	<0.0013
Bromomethane	mg/kg	None	30	None	<0.0070	<0.0072	<0.0089	<0.0073	<0.0071	<0.0087	<0.0068	<0.0075	<0.0068	<0.0071	<0.0063

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13, and 15

Analyte / Sample ID:	Units	Commercial/Industrial RBSLs		Background	PFP-01-1.5	PFP-01-4.0	PFP-02-1.5	PFP-02-4.0	PFP-03-1.5	PFP-03-4.0	PFP-04-1.5	PFP-04-4.0	PFP-05-1.5	PFP-05-4.0	PFP-06-1.5
Boring:					PFP-01	PFP-01	PFP-02	PFP-02	PFP-03	PFP-03	PFP-04	PFP-04	PFP-05	PFP-05	PFP-06
Depth (ft bgs):		Cancer	Noncancer		1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5
Date Collected:					2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-05	2020-11-05	2020-11-05
Butanone, 2-	mg/kg	None	190,000	None	<0.0048	<0.0050	<0.0061	<0.0050	<0.0049	<0.0060	<0.0046	<0.0052	<0.0047	<0.0049	<0.0044
Butylbenzene, n-	mg/kg	None	18,000	None	<0.00022	<0.00023	<0.00029	<0.00023	<0.00023	<0.00028	<0.00022	<0.00024	<0.00022	<0.00023	<0.00020
Butylbenzene, sec-	mg/kg	None	12,000	None	<0.00064	<0.00066	<0.00082	<0.00067	<0.00065	<0.00080	<0.00062	<0.00069	<0.00062	<0.00065	<0.00058
Butylbenzene, tert-	mg/kg	None	12,000	None	<0.00027	<0.00028	<0.00035	<0.00028	<0.00027	<0.00034	<0.00026	<0.00029	<0.00026	<0.00028	<0.00025
Carbon disulfide	mg/kg	None	3,500	None	<0.00043	<0.00044	<0.00054	<0.00045	<0.00043	<0.00053	<0.00041	<0.00046	<0.00041	<0.00043	<0.00039
Carbon tetrachloride	mg/kg	2.9	250	None	<0.00032	<0.00033	<0.00041	<0.00033	<0.00032	<0.00040	<0.00031	<0.00034	<0.00031	<0.00032	<0.00029
Chlorobenzene	mg/kg	None	1,300	None	<0.00028	<0.00029	<0.00036	<0.00030	<0.00029	<0.00036	<0.00028	<0.00031	<0.00028	<0.00029	<0.00026
Chloroethane	mg/kg	None	57,000	None	<0.0016	<0.0016	<0.0020	<0.0017	<0.0016	<0.0020	<0.0015	<0.0017	<0.0015	<0.0016	<0.0014
Chloroform	mg/kg	1.4	1,000	None	<0.00063	<0.00065	<0.00080	<0.00066	<0.00064	<0.00078	<0.00061	<0.00068	<0.00061	<0.00064	<0.00057
Chloromethane	mg/kg	None	460	None	<0.0016	<0.0017	<0.0021	<0.0017	<0.0017	<0.0020	<0.0016	<0.0018	<0.0016	<0.0017	<0.0015
Chlorotoluene, 2-	mg/kg	None	2,500	None	<0.00027	<0.00028	<0.00034	<0.00028	<0.00027	<0.00033	<0.00026	<0.00029	<0.00026	<0.00027	<0.00024
Chlorotoluene, 4-	mg/kg	None	2,300	None	<0.00026	<0.00027	<0.00033	<0.00027	<0.00026	<0.00032	<0.00025	<0.00028	<0.00025	<0.00026	<0.00023
Dibromochloromethane	mg/kg	4.1	2,500	None	<0.00029	<0.00030	<0.00037	<0.00030	<0.00029	<0.00036	<0.00028	<0.00031	<0.00028	<0.00030	<0.00026
Dibromochloropropane, 1,2-, 3-	mg/kg	0.057	25	None	<0.0072	<0.0074	<0.0092	<0.0076	<0.0073	<0.0090	<0.0070	<0.0078	<0.0070	<0.0073	<0.0065
Dibromoethane, 1,2-	mg/kg	0.16	30	None	<0.00022	<0.00023	<0.00028	<0.00023	<0.00022	<0.00027	<0.00021	<0.00024	<0.00021	<0.00022	<0.00020
Dibromomethane	mg/kg	None	99	None	<0.00032	<0.00034	<0.00041	<0.00034	<0.00033	<0.00041	<0.00031	<0.00035	<0.00031	<0.00033	<0.00029
Dichlorobenzene, 1,2-	mg/kg	None	9,300	None	<0.00027	<0.00028	<0.00034	<0.00028	<0.00027	<0.00033	<0.00026	<0.00029	<0.00026	<0.00027	<0.00024
Dichlorobenzene, 1,3-	mg/kg	None	None	None	<0.00027	<0.00028	<0.00034	<0.00028	<0.00027	<0.00033	<0.00026	<0.00029	<0.00026	<0.00027	<0.00024
Dichlorobenzene, 1,4-	mg/kg	11	25,000	None	<0.00033	<0.00034	<0.00042	<0.00034	<0.00033	<0.00041	<0.00032	<0.00035	<0.00032	<0.00033	<0.00030
Dichlorodifluoromethane	mg/kg	None	370	None	<0.00048	<0.00050	<0.00062	<0.00051	<0.00049	<0.00060	<0.00047	<0.00052	<0.00047	<0.00049	<0.00044
Dichloroethane, 1,1-	mg/kg	16	7,100	None	<0.00030	<0.00031	<0.00038	<0.00031	<0.00030	<0.00037	<0.00029	<0.00032	<0.00029	<0.00030	<0.00027
Dichloroethane, 1,2-	mg/kg	2.0	140	None	<0.00029	<0.00030	<0.00038	<0.00031	<0.00030	<0.00037	<0.00028	<0.00032	<0.00028	<0.00030	<0.00027
Dichloroethene, 1,1-	mg/kg	None	350	None	<0.00028	<0.00029	<0.00036	<0.00030	<0.00029	<0.00035	<0.00027	<0.00030	<0.00027	<0.00029	<0.00026
Dichloroethene, 1,2-, cis-	mg/kg	None	84	None	<0.00036	<0.00037	<0.00046	<0.00038	<0.00036	<0.00045	<0.00035	<0.00039	<0.00035	<0.00037	<0.00033
Dichloroethene, 1,2-, trans-	mg/kg	None	600	None	<0.00032	<0.00033	<0.00041	<0.00034	<0.00032	<0.00040	<0.00031	<0.00035	<0.00031	<0.00033	<0.00029
Dichloropropane, 1,2-	mg/kg	11	66	None	<0.00029	<0.00030	<0.00037	<0.00031	<0.00030	<0.00037	<0.00028	<0.00032	<0.00028	<0.00030	<0.00027
Dichloropropane, 1,3-	mg/kg	None	2,200	None	<0.00031	<0.00032	<0.00040	<0.00033	<0.00032	<0.00039	<0.00030	<0.00034	<0.00030	<0.00032	<0.00029
Dichloropropane, 2,2-	mg/kg	None	None	None	<0.00029	<0.00030	<0.00037	<0.00030	<0.00029	<0.00036	<0.00028	<0.00031	<0.00028	<0.00029	<0.00026
Dichloropropene, 1,1-	mg/kg	None	None	None	<0.00041	<0.00043	<0.00053	<0.00043	<0.00042	<0.00051	<0.00040	<0.00045	<0.00040	<0.00042	<0.00037
Dichloropropene, 1,3-, cis-	mg/kg	None	None	None	<0.00037	<0.00038	<0.00047	<0.00039	<0.00038	<0.00046	<0.00036	<0.00040	<0.00036	<0.00038	<0.00034
Dichloropropene, 1,3-, trans-	mg/kg	None	None	None	<0.00030	<0.00031	<0.00038	<0.00031	<0.00030	<0.00037	<0.00029	<0.00032	<0.00029	<0.00030	<0.00027

Table 23. PathFoward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13, and 15

Analyte / Sample ID / Boring / Depth (ft bgs) / Date Collected:	Units	Commercial/Industrial RBSLs		Background	PFP-01-1.5	PFP-01-4.0	PFP-02-1.5	PFP-02-4.0	PFP-03-1.5	PFP-03-4.0	PFP-04-1.5	PFP-04-4.0	PFP-05-1.5	PFP-05-4.0	PFP-06-1.5
					PFP-01	PFP-01	PFP-02	PFP-02	PFP-03	PFP-03	PFP-04	PFP-04	PFP-05	PFP-05	PFP-06
		Cancer	Noncancer		1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5
					2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-05	2020-11-05	2020-11-05
Ethylbenzene	mg/kg	25	20,000	None	<0.00022	<0.00023	<0.00028	<0.00023	<0.00022	<0.00027	<0.00021	<0.00024	<0.00021	<0.00022	<0.00020
Hexanone, 2-	mg/kg	None	1,300	None	<0.0033	<0.0034	<0.0042	<0.0034	<0.0033	<0.0041	<0.0032	<0.0035	<0.0032	<0.0033	<0.0030
Isopropylbenzene	mg/kg	None	9,900	None	<0.00064	<0.00066	<0.00082	<0.00067	<0.00065	<0.00080	<0.00062	<0.00069	<0.00062	<0.00065	<0.00058
Isopropyltoluene, p-	mg/kg	None	None	None	<0.00074	<0.00077	<0.00095	<0.00078	<0.00076	<0.00093	<0.00072	<0.00080	<0.00072	<0.00076	<0.00068
Methyl tert-butyl ether	mg/kg	210	64,000	None	<0.00020	<0.00021	<0.00026	<0.00021	<0.00020	<0.00025	<0.00019	<0.00022	<0.00019	<0.00020	<0.00018
Methylene chloride	mg/kg	26	2,500	None	<0.0033	<0.0034	<0.0042	<0.0035	<0.0034	<0.0041	<0.0032	<0.0036	<0.0032	<0.0034	<0.0030
Methylpentanone, 4-, 2-	mg/kg	None	140,000	None	<0.0031	<0.0032	<0.0040	<0.0032	<0.0031	<0.0039	<0.0030	<0.0033	<0.0030	<0.0031	<0.0028
Naphthalene	mg/kg	6.5	570	None	<0.0055	<0.0057	<0.0071	<0.0058	<0.0056	<0.0069	<0.0054	<0.0060	<0.0054	<0.0056	<0.0050
Propylbenzene, n-	mg/kg	None	24,000	None	<0.00064	<0.00066	<0.00082	<0.00067	<0.00065	<0.00080	<0.00062	<0.00069	<0.00062	<0.00065	<0.00058
Styrene	mg/kg	None	32,000	None	<0.00074	<0.00077	<0.00095	<0.00078	<0.00076	<0.00093	<0.00072	<0.00080	<0.00072	<0.00076	<0.00068
Tetrachloroethane, 1,1,1,2-	mg/kg	8.8	2,700	None	<0.00031	<0.00032	<0.00040	<0.00032	<0.00031	<0.00039	<0.00030	<0.00033	<0.00030	<0.00031	<0.00028
Tetrachloroethane, 1,1,2,2-	mg/kg	2.7	4,300	None	<0.00058	<0.00060	<0.00074	<0.00061	<0.00059	<0.00072	<0.00056	<0.00062	<0.00056	<0.00059	<0.00053
Tetrachloroethene	mg/kg	2.7	390	None	<0.00024	<0.00025	<0.00030	<0.00025	<0.00024	<0.00030	<0.00023	<0.00026	<0.00023	<0.00024	<0.00022
Toluene	mg/kg	None	5,300	None	<0.00064	<0.00066	<0.00082	<0.00067	<0.00065	<0.00080	<0.00062	<0.00069	<0.00062	<0.00065	<0.00058
Trichlorobenzene, 1,2,3-	mg/kg	None	300	None	<0.0011	<0.0011	<0.0014	<0.0011	<0.0011	<0.0013	<0.0010	<0.0011	<0.0010	<0.0011	<0.00097
Trichlorobenzene, 1,2,4-	mg/kg	35	260	None	<0.00044	<0.00045	<0.00056	<0.00046	<0.00044	<0.00054	<0.00042	<0.00047	<0.00042	<0.00044	<0.00040
Trichloroethane, 1,1,1-	mg/kg	None	7,200	None	<0.00025	<0.00026	<0.00032	<0.00026	<0.00025	<0.00031	<0.00024	<0.00027	<0.00024	<0.00025	<0.00023
Trichloroethane, 1,1,2-	mg/kg	5.0	6.3	None	<0.00049	<0.00051	<0.00063	<0.00052	<0.00050	<0.00062	<0.00048	<0.00053	<0.00048	<0.00050	<0.00045
Trichloroethene	mg/kg	6.0	19	None	<0.00041	<0.00042	<0.00053	<0.00043	<0.00042	<0.00051	<0.00040	<0.00044	<0.00040	<0.00042	<0.00037
Trichlorofluoromethane	mg/kg	None	5,400	None	<0.00029	<0.00030	<0.00037	<0.00030	<0.00029	<0.00036	<0.00028	<0.00031	<0.00028	<0.00030	<0.00026
Trichloropropane, 1,2,3-	mg/kg	0.021	21	None	<0.00045	<0.00046	<0.00057	<0.00047	<0.00045	<0.00056	<0.00043	<0.00048	<0.00043	<0.00045	<0.00040
Trichlorotrifluoroethane, 1,1,2-, 1,2,2-	mg/kg	None	28,000	None	<0.00049	<0.00051	<0.00063	<0.00052	<0.00050	<0.00061	<0.00048	<0.00053	<0.00048	<0.00050	<0.00045
Trimethylbenzene, 1,2,4-	mg/kg	None	1,800	None	<0.00064	<0.00066	<0.00082	<0.00067	<0.00065	<0.00080	<0.00062	<0.00069	<0.00062	<0.00065	<0.00058
Trimethylbenzene, 1,3,5-	mg/kg	None	1,500	None	<0.00064	<0.00066	<0.00082	<0.00067	<0.00065	<0.00080	<0.00062	<0.00069	<0.00062	<0.00065	<0.00058
Vinyl acetate	mg/kg	None	3,800	None	<0.0042	<0.0043	<0.0053	<0.0044	<0.0042	<0.0052	<0.0040	<0.0045	<0.0040	<0.0042	<0.0038
Vinyl chloride	mg/kg	0.15	370	None	<0.00040	<0.00042	<0.00051	<0.00042	<0.00041	<0.00050	<0.00039	<0.00043	<0.00039	<0.00041	<0.00037
Xylene, m,p-	mg/kg	None	2,400	None	<0.00050	<0.00052	<0.00064	<0.00053	<0.00051	<0.00063	<0.00049	<0.00054	<0.00049	<0.00051	<0.00046
Xylene, o-	mg/kg	None	2,800	None	<0.00064	<0.00066	<0.00082	<0.00067	<0.00065	<0.00080	<0.00062	<0.00069	<0.00062	<0.00065	<0.00058
Semi-Volatile Organic Compounds (SVOCs)															
Acenaphthene	mg/kg	None	23,000	None	<0.057	<0.057	<0.063	<0.056	<0.058	<0.066	<0.058	<0.058	<0.058	<0.060	<0.058
Acenaphthylene	mg/kg	None	None	None	<0.041	<0.041	<0.045	<0.040	<0.042	<0.048	<0.042	<0.042	<0.042	<0.043	<0.042

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13, and 15

Analyte / Sample ID:	Units	Commercial/Industrial RBSLs		Background	PFP-01-1.5	PFP-01-4.0	PFP-02-1.5	PFP-02-4.0	PFP-03-1.5	PFP-03-4.0	PFP-04-1.5	PFP-04-4.0	PFP-05-1.5	PFP-05-4.0	PFP-06-1.5
Boring:					PFP-01	PFP-01	PFP-02	PFP-02	PFP-03	PFP-03	PFP-04	PFP-04	PFP-05	PFP-05	PFP-06
Depth (ft bgs):		Cancer	Noncancer		1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5
Date Collected:					2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-05	2020-11-05	2020-11-05
Aniline	mg/kg	260	3,700	None	<0.042	<0.043	<0.047	<0.042	<0.043	<0.049	<0.043	<0.043	<0.043	<0.045	<0.043
Anthracene	mg/kg	None	130,000	None	<0.054	<0.054	<0.059	<0.053	<0.055	<0.062	<0.054	<0.055	<0.054	<0.056	<0.055
Azobenzene	mg/kg	26	None	None	<0.12	<0.12	<0.13	<0.11	<0.12	<0.13	<0.12	<0.12	<0.12	<0.12	<0.12
Benz(a)anthracene	mg/kg	12	None	None	<0.048	<0.049	<0.054	<0.048	<0.049	<0.056	<0.049	<0.049	<0.049	<0.051	<0.049
Benzidine	mg/kg	0.0030	1,600	None	<1.5	<1.5	<1.7	<1.5	<1.5	<1.7	<1.5	<1.5	<1.5	<1.6	<1.5
Benzo(a)pyrene	mg/kg	1.3	130	None	<0.081	<0.082	<0.090	<0.079	<0.082	<0.094	<0.082	<0.083	<0.082	<0.085	<0.082
Benzo(b)fluoranthene	mg/kg	13	None	None	<0.085	<0.085	<0.093	<0.083	<0.086	<0.098	<0.085	<0.086	<0.086	<0.089	<0.086
Benzo(g,h,i)perylene	mg/kg	None	None	None	<0.088	<0.089	<0.098	<0.087	<0.090	<0.10	<0.089	<0.090	<0.090	<0.093	<0.090
Benzo(k)fluoranthene	mg/kg	130	None	None	<0.049	<0.049	<0.054	<0.048	<0.050	<0.057	<0.049	<0.050	<0.050	<0.051	<0.050
Benzoic acid	mg/kg	None	2.1E+06	None	<1.7	<1.7	<1.9	<1.6	<1.7	<1.9	<1.7	<1.7	<1.7	<1.8	<1.7
Benzyl alcohol	mg/kg	None	53,000	None	<0.090	<0.091	<0.10	<0.088	<0.092	<0.10	<0.091	<0.092	<0.091	<0.095	<0.092
Bis(2-chloroethoxy)methane	mg/kg	None	1,600	None	<0.066	<0.066	<0.073	<0.064	<0.067	<0.076	<0.066	<0.067	<0.067	<0.069	<0.067
Bis(2-chloroethyl)ether	mg/kg	0.47	None	None	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11
Bis(2-chloroisopropyl)ether	mg/kg	None	16,000	None	<0.063	<0.064	<0.070	<0.062	<0.064	<0.073	<0.064	<0.065	<0.064	<0.067	<0.064
Bis(2-ethylhexyl)phthalate	mg/kg	110	11,000	None	<0.27	<0.27	<0.29	<0.26	<0.27	<0.31	<0.27	<0.27	<0.27	<0.28	<0.27
Bromophenyl phenyl ether, 4-	mg/kg	None	None	None	<0.062	<0.063	<0.069	<0.061	<0.063	<0.072	<0.063	<0.064	<0.063	<0.065	<0.063
Butyl benzyl phthlate	mg/kg	780	110,000	None	<0.23	<0.24	<0.26	<0.23	<0.24	<0.27	<0.24	<0.24	<0.24	<0.25	<0.24
Chloroaniline, 4-	mg/kg	7.4	2,100	None	<0.077	<0.077	<0.085	<0.075	<0.078	<0.089	<0.078	<0.078	<0.078	<0.081	<0.078
Chloromethylphenol, 4-, 3-	mg/kg	None	53,000	None	<0.089	<0.090	<0.099	<0.087	<0.091	<0.10	<0.090	<0.091	<0.090	<0.094	<0.091
Chloronaphthalene, beta-	mg/kg	None	27,000	None	<0.060	<0.061	<0.067	<0.059	<0.061	<0.070	<0.061	<0.061	<0.061	<0.063	<0.061
Chlorophenol, 2-	mg/kg	None	3,900	None	<0.10	<0.11	<0.12	<0.10	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11
Chlorophenyl phenyl ether, 4-	mg/kg	None	None	None	<0.075	<0.075	<0.082	<0.073	<0.076	<0.086	<0.075	<0.076	<0.076	<0.078	<0.076
Chrysene	mg/kg	1,300	None	None	<0.072	<0.072	<0.079	<0.070	<0.073	<0.083	<0.072	<0.073	<0.073	<0.075	<0.073
Dibenz(a,h)anthracene	mg/kg	0.31	None	None	<0.11	<0.11	<0.12	<0.11	<0.11	<0.13	<0.11	<0.11	<0.11	<0.12	<0.11
Dibenzofuran	mg/kg	None	650	None	<0.10	<0.10	<0.11	<0.098	<0.10	<0.12	<0.10	<0.10	<0.10	<0.10	<0.10
Dibutyl phthalate	mg/kg	None	53,000	None	<0.077	<0.078	<0.086	<0.076	<0.079	<0.089	<0.078	<0.079	<0.079	<0.081	<0.079
Dichlorobenzene, 1,2-	mg/kg	None	9,300	None	<0.079	<0.079	<0.087	<0.077	<0.080	<0.091	<0.079	<0.080	<0.080	<0.082	<0.080
Dichlorobenzene, 1,3-	mg/kg	None	None	None	<0.073	<0.074	<0.081	<0.072	<0.075	<0.085	<0.074	<0.075	<0.074	<0.077	<0.075
Dichlorobenzene, 1,4-	mg/kg	11	25,000	None	<0.075	<0.076	<0.083	<0.074	<0.076	<0.087	<0.076	<0.077	<0.076	<0.079	<0.076
Dichlorobenzidine, 3,3'-	mg/kg	1.2	None	None	<0.86	<0.87	<0.95	<0.85	<0.88	<1.0	<0.87	<0.88	<0.88	<0.91	<0.88
Dichlorophenol, 2,4-	mg/kg	None	1,600	None	<0.044	<0.045	<0.049	<0.043	<0.045	<0.051	<0.045	<0.045	<0.045	<0.046	<0.045

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13, and 15

Analyte / Sample ID	Units	Commercial/Industrial RBSLs		Background	PFP-01-1.5	PFP-01-4.0	PFP-02-1.5	PFP-02-4.0	PFP-03-1.5	PFP-03-4.0	PFP-04-1.5	PFP-04-4.0	PFP-05-1.5	PFP-05-4.0	PFP-06-1.5
Boring:					PFP-01	PFP-01	PFP-02	PFP-02	PFP-03	PFP-03	PFP-04	PFP-04	PFP-05	PFP-05	PFP-06
Depth (ft bgs):		Cancer	Noncancer		1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5
Date Collected:					2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-05	2020-11-05	2020-11-05
Dichlorophenol, 2,6-	mg/kg	None	None	None	<0.069	<0.069	<0.076	<0.068	<0.070	<0.080	<0.070	<0.070	<0.070	<0.072	<0.070
Diethyl phthalate	mg/kg	None	420,000	None	<0.065	<0.065	<0.072	<0.064	<0.066	<0.075	<0.065	<0.066	<0.066	<0.068	<0.066
Dimethyl phthalate	mg/kg	None	None	None	<0.067	<0.067	<0.074	<0.065	<0.068	<0.077	<0.067	<0.068	<0.068	<0.070	<0.068
Dimethylphenol, 2,4-	mg/kg	None	11,000	None	<0.048	<0.048	<0.053	<0.047	<0.049	<0.056	<0.049	<0.049	<0.049	<0.051	<0.049
Dinitromethylphenol, 4,6-, 2-	mg/kg	None	42	None	<1.0	<1.0	<1.1	<1.0	<1.0	<1.2	<1.0	<1.1	<1.0	<1.1	<1.0
Dinitrophenol, 2,4-	mg/kg	None	1,100	None	<1.7	<1.7	<1.9	<1.7	<1.7	<2.0	<1.7	<1.7	<1.7	<1.8	<1.7
Dinitrotoluene, 2,4-	mg/kg	4.7	1,000	None	<0.048	<0.048	<0.053	<0.047	<0.049	<0.056	<0.049	<0.049	<0.049	<0.051	<0.049
Dinitrotoluene, 2,6-	mg/kg	0.99	160	None	<0.062	<0.063	<0.069	<0.061	<0.063	<0.072	<0.063	<0.064	<0.063	<0.065	<0.063
Di-n-octyl phthalate	mg/kg	None	5,300	None	<0.38	<0.38	<0.42	<0.37	<0.39	<0.44	<0.38	<0.39	<0.39	<0.40	<0.39
Fluoranthene	mg/kg	None	18,000	None	<0.062	<0.062	<0.068	<0.061	<0.063	<0.071	<0.062	<0.063	<0.063	<0.065	<0.063
Fluorene	mg/kg	None	17,000	None	<0.071	<0.071	<0.078	<0.069	<0.072	<0.081	<0.071	<0.072	<0.072	<0.074	<0.072
Hexachlorobenzene	mg/kg	0.86	470	None	<0.097	<0.098	<0.11	<0.096	<0.099	<0.11	<0.098	<0.099	<0.099	<0.10	<0.099
Hexachlorobutadiene	mg/kg	5.3	160	None	<0.053	<0.053	<0.059	<0.052	<0.054	<0.061	<0.054	<0.054	<0.054	<0.056	<0.054
Hexachlorocyclopentadiene	mg/kg	None	7.5	None	<0.40	<0.40	<0.44	<0.39	<0.41	<0.46	<0.40	<0.41	<0.40	<0.42	<0.41
Hexachloroethane	mg/kg	8.0	460	None	<0.11	<0.12	<0.13	<0.11	<0.12	<0.13	<0.12	<0.12	<0.12	<0.12	<0.12
Indeno(1,2,3-c,d)pyrene	mg/kg	13	None	None	<0.096	<0.096	<0.11	<0.094	<0.097	<0.11	<0.097	<0.098	<0.097	<0.10	<0.098
Isophorone	mg/kg	1,600	110,000	None	<0.073	<0.073	<0.080	<0.071	<0.074	<0.084	<0.073	<0.074	<0.074	<0.076	<0.074
Methylnaphthalene, 1-	mg/kg	30	22,000	None	<0.038	<0.039	<0.043	<0.038	<0.039	<0.044	<0.039	<0.039	<0.039	<0.040	<0.039
Methylnaphthalene, 2-	mg/kg	None	1,300	None	<0.060	<0.061	<0.067	<0.059	<0.061	<0.070	<0.061	<0.062	<0.061	<0.064	<0.062
Methylphenol, 2-	mg/kg	None	26,000	None	<0.10	<0.10	<0.11	<0.098	<0.10	<0.12	<0.10	<0.10	<0.10	<0.10	<0.10
Methylphenol, 3,4-	mg/kg	None	None	None	<0.66	<0.67	<0.73	<0.65	<0.67	<0.77	<0.67	<0.68	<0.67	<0.70	<0.68
Naphthalene	mg/kg	6.5	570	None	<0.061	<0.061	<0.067	<0.060	<0.062	<0.070	0.14 J	0.91	<0.062	0.29 J	0.60
Nitroaniline, 2-	mg/kg	None	5,200	None	<0.069	<0.069	<0.076	<0.068	<0.070	<0.080	<0.070	<0.070	<0.070	<0.072	<0.070
Nitroaniline, 3-	mg/kg	None	None	None	<0.050	<0.050	<0.055	<0.049	<0.051	<0.058	<0.050	<0.051	<0.051	<0.052	<0.051
Nitroaniline, 4-	mg/kg	74	2,100	None	<0.047	<0.047	<0.052	<0.046	<0.048	<0.054	<0.047	<0.048	<0.048	<0.049	<0.048
Nitrobenzene	mg/kg	22	1,300	None	<0.046	<0.047	<0.051	<0.045	<0.047	<0.053	<0.047	<0.047	<0.047	<0.049	<0.047
Nitrophenol, 2-	mg/kg	None	None	None	<0.050	<0.050	<0.055	<0.049	<0.051	<0.058	<0.050	<0.051	<0.051	<0.052	<0.051
Nitrophenol, 4-	mg/kg	None	None	None	<0.065	<0.065	<0.072	<0.064	<0.066	<0.075	<0.066	<0.066	<0.066	<0.068	<0.066
Nitrosodimethylamine, N-	mg/kg	0.034	5.7	None	<0.081	<0.082	<0.090	<0.080	<0.083	<0.094	<0.082	<0.083	<0.082	<0.085	<0.083
Nitroso-di-N-propylamine, N-	mg/kg	0.21	None	None	<0.071	<0.071	<0.078	<0.069	<0.072	<0.082	<0.071	<0.072	<0.072	<0.074	<0.072
Nitrosodiphenylamine, N-	mg/kg	300	None	None	<0.041	<0.041	<0.045	<0.040	<0.042	<0.047	<0.041	<0.042	<0.042	<0.043	<0.042

Table 23. PathFoward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13, and 15

Analyte / Sample ID: / Boring: / Depth (ft bgs): / Date Collected:	Units	Commercial/Industrial RBSLs		Background	PFP-01-1.5	PFP-01-4.0	PFP-02-1.5	PFP-02-4.0	PFP-03-1.5	PFP-03-4.0	PFP-04-1.5	PFP-04-4.0	PFP-05-1.5	PFP-05-4.0	PFP-06-1.5
					PFP-01	PFP-01	PFP-02	PFP-02	PFP-03	PFP-03	PFP-04	PFP-04	PFP-05	PFP-05	PFP-06
		Cancer	Noncancer		1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5
					2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-05	2020-11-05	2020-11-05
Pentachlorophenol	mg/kg	2.0	1,500	None	<1.1	<1.1	<1.2	<1.0	<1.1	<1.2	<1.1	<1.1	<1.1	<1.1	<1.1
Phenanthrene	mg/kg	None	None	None	<0.065	<0.065	<0.071	<0.063	<0.066	<0.075	<0.065	<0.066	<0.065	<0.068	<0.066
Phenol	mg/kg	None	160,000	None	<0.10 U *	<0.10 U *	<0.11 U *	<0.099 U *	<0.10 U *	<0.12 U *	<0.10	<0.10	<0.10	<0.11	<0.10
Pyrene	mg/kg	None	13,000	None	<0.080	<0.080	<0.088	<0.078	<0.081	<0.092	<0.080	<0.081	<0.081	<0.084	<0.081
Pyridine	mg/kg	None	530	None	<0.087	<0.088	<0.096	<0.085	<0.089	<0.10	<0.088	<0.089	<0.088	<0.092	<0.089
Trichlorobenzene, 1,2,4-	mg/kg	35	260	None	<0.042	<0.042	<0.046	<0.041	<0.042	<0.048	<0.042	<0.042	<0.042	<0.044	<0.042
Trichlorophenol, 2,4,5-	mg/kg	None	53,000	None	<0.075	<0.075	<0.082	<0.073	<0.076	<0.086	<0.075	<0.076	<0.076	<0.078	<0.076
Trichlorophenol, 2,4,6-	mg/kg	21	530	None	<0.083	<0.084	<0.092	<0.081	<0.084	<0.096	<0.084	<0.085	<0.084	<0.087	<0.085
Low-Level Semivolatile Organic Compounds (SVOCs)															
Acenaphthene	mg/kg	None	23,000	None	<0.014	<0.014	0.016 J	<0.014	<0.014	<0.016	<0.014	<0.014	<0.014	<0.014	<0.014
Acenaphthylene	mg/kg	None	None	None	<0.010	<0.010	0.012 J	<0.010	<0.010	<0.012	<0.010	<0.010	<0.010	<0.010	<0.010
Anthracene	mg/kg	None	130,000	None	<0.0092	<0.0095	<0.010	<0.0092	<0.0095	<0.011	<0.0096	<0.0094	<0.0095	<0.0097	<0.0095
Benz(a)anthracene	mg/kg	12	None	None	<0.0083	<0.0086	<0.0093	<0.0083	<0.0086	<0.0097	<0.0087	<0.0085	<0.0086	<0.0087	<0.0086
Benzo(a)pyrene	mg/kg	1.3	130	None	<0.0085	<0.0087	<0.0095	<0.0084	<0.0088	<0.0099	<0.0088	<0.0086	<0.0087	<0.0089	<0.0087
Benzo(b)fluoranthene	mg/kg	13	None	None	<0.016	<0.016	<0.017	<0.015	<0.016	<0.018	<0.016	<0.016	<0.016	<0.016	<0.016
Benzo(g,h,i)perylene	mg/kg	None	None	None	<0.011	<0.011	<0.012	<0.011	<0.011	<0.013	<0.011	<0.011	<0.011	<0.012	<0.011
Benzo(k)fluoranthene	mg/kg	130	None	None	<0.0078	<0.0080	<0.0088	<0.0078	<0.0081	<0.0091	<0.0081	<0.0079	<0.0080	<0.0082	<0.0080
Chrysene	mg/kg	1,300	None	None	<0.0068	<0.0070	<0.0076	<0.0067	<0.0070	<0.0079	<0.0070	<0.0069	<0.0069	<0.0071	<0.0069
Dibenz(a,h)anthracene	mg/kg	0.31	None	None	<0.011	<0.012	<0.013	<0.011	<0.012	<0.013	<0.012	<0.012	<0.012	<0.012	<0.012
Fluoranthene	mg/kg	None	18,000	None	<0.0084	<0.0086	<0.0094	<0.0083	<0.0086	<0.0097	<0.0087	<0.0085	<0.0086	<0.0087	<0.0086
Fluorene	mg/kg	None	17,000	None	<0.010	<0.010	<0.011	<0.010	<0.010	<0.012	<0.010	<0.010	<0.010	<0.011	<0.010
Indeno(1,2,3-c,d)pyrene	mg/kg	13	None	None	<0.013	<0.013	<0.014	<0.012	<0.013	<0.015	<0.013	<0.013	<0.013	<0.013	<0.013
Methylnaphthalene, 1-	mg/kg	30	22,000	None	<0.011	<0.012	<0.013	<0.011	<0.012	<0.013	<0.012	<0.011	<0.012	<0.012	0.014 J
Methylnaphthalene, 2-	mg/kg	None	1,300	None	<0.011	<0.011	<0.012	<0.011	<0.011	<0.013	<0.011	<0.011	<0.011	0.012 J	0.017 J
Naphthalene	mg/kg	6.5	570	None	<0.0093	<0.0096	0.078	0.032	0.038	<0.011	0.24	0.11	0.17	0.35	0.46
Phenanthrene	mg/kg	None	None	None	<0.0072	<0.0074	0.012 J	<0.0072	<0.0075	<0.0084	<0.0075	<0.0074	<0.0074	<0.0076	<0.0074
Pyrene	mg/kg	None	13,000	None	<0.0090	<0.0093	<0.010	<0.0090	<0.0093	<0.010	<0.0094	<0.0092	<0.0093	<0.0094	<0.0092
Polychlorinated Biphenyls (PCBs)															
Aroclor-1016	mg/kg	17	29	None	<0.041	<0.042	<0.046	<0.041	<0.042	<0.048	<0.042	<0.042	<0.042	<0.043	<0.042
Aroclor-1221	mg/kg	0.53	None	None	<0.041	<0.042	<0.046	<0.041	<0.042	<0.048	<0.042	<0.042	<0.042	<0.043	<0.042
Aroclor-1232	mg/kg	0.49	None	None	<0.041	<0.042	<0.046	<0.041	<0.042	<0.048	<0.042	<0.042	<0.042	<0.043	<0.042

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13, and 15

Analyte / Sample ID	Units	Commercial/Industrial RBSLs		Background	PFP-01-1.5	PFP-01-4.0	PFP-02-1.5	PFP-02-4.0	PFP-03-1.5	PFP-03-4.0	PFP-04-1.5	PFP-04-4.0	PFP-05-1.5	PFP-05-4.0	PFP-06-1.5
Boring:					PFP-01	PFP-01	PFP-02	PFP-02	PFP-03	PFP-03	PFP-04	PFP-04	PFP-05	PFP-05	PFP-06
Depth (ft bgs):		Cancer	Noncancer		1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5
Date Collected:					2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-05	2020-11-05	2020-11-05
Aroclor-1242	mg/kg	0.58	None	None	<0.041	<0.042	<0.046	<0.041	<0.042	<0.048	<0.042	<0.042	<0.042	<0.043	<0.042
Aroclor-1248	mg/kg	0.58	None	None	<0.041	<0.042	<0.046	<0.041	<0.042	<0.048	<0.042	<0.042	<0.042	<0.043	<0.042
Aroclor-1254	mg/kg	0.59	8.4	None	<0.027	<0.027	<0.030	<0.027	<0.027	<0.031	<0.027	<0.028	<0.027	<0.028	<0.027
Aroclor-1260	mg/kg	0.60	None	None	<0.027	<0.027	<0.030	<0.027	<0.027	<0.031	<0.027	<0.028	<0.027	<0.028	<0.027
Aroclor-1262	mg/kg	None	None	None	<0.027	<0.027	<0.030	<0.027	<0.027	<0.031	<0.027	<0.028	<0.027	<0.028	<0.027
Aroclor-1268	mg/kg	None	None	None	<0.027	<0.027	<0.030	<0.027	<0.027	<0.031	<0.027	<0.028	<0.027	<0.028	<0.027
Metals															
Antimony	mg/kg	None	470	1.95	<0.16 U F1	<0.16	<0.18	<0.16	<0.16	<0.18	1.3 F1	0.40 J	1.6	0.20 J	<0.16
Arsenic	mg/kg	0.36	4.2	12	1.2	3.5	5.2	1.8	2.0	2.3	2.4	1.7	1.6	2.9	1.6
Barium	mg/kg	None	220,000	1,400	129	141	40	73	121	112	112	147	113	134	124
Beryllium	mg/kg	6,900	230	2.7	0.55	0.80	0.41	0.40	0.62	0.50	0.57	0.59	0.59	0.62	0.58
Cadmium	mg/kg	9,300	980	1.7	0.30 J	0.29 J	0.24 J	0.24 J	0.31 J	0.39 J	0.43 J	0.31 J	0.38 J	0.64	0.43 J
Chromium	mg/kg	None	None	1,579	12	14	15	9.2	12	13	11	8.4	9.1	18	10
Cobalt	mg/kg	1,900	350	46.9	12	10	7.9	7.4	8.9	8.2	8.1	7.9	7.2	9.3	7.7
Copper	mg/kg	None	47,000	96.4	7.0	5.9	13	7.3	6.8	7.6	7.2	4.8	4.2	13	4.4
Lead	mg/kg	None	320	97.1	0.91	<0.14 U L	3.3	0.69	22	1.5	2.5	<0.15	0.15 J	2.3	0.32 J
Mercury	mg/kg	None	4.4	0.90	0.026 J	0.031 J	0.024 J	0.020 J	0.020 J	0.031 J	<0.014	<0.015	<0.014	<0.015	<0.015
Molybdenum	mg/kg	None	5,800	9.6	<0.14	<0.14 U L	<0.16 U L	<0.14 U L	<0.14 U L	<0.16 U L	<0.15	<0.15	<0.15 U L	<0.14 U L	<0.15
Nickel	mg/kg	64,000	11,000	509	7.3	8.2	9.5	6.6	7.4	8.1	7.1	6.3	5.8	11	6.8
Selenium	mg/kg	None	5,800	0.43	<0.32	0.67 J	0.44 J	<0.32	<0.32	<0.37	<0.33	<0.33	<0.33 U L	<0.33	<0.33
Silver	mg/kg	None	5,800	8.3	0.13 J	<0.090	0.16 J	<0.091	<0.092	<0.11	0.12 J	<0.095	<0.094	<0.093	<0.095
Thallium	mg/kg	None	12	1.1	0.78 J	0.19 J	<0.18	<0.16	0.69 J	0.45 J	<0.17 U L	<0.17	<0.17	0.45 J B	<0.17
Vanadium	mg/kg	None	5,800	288	36	45	22	25	37	33	30	29	30	40	32
Zinc	mg/kg	None	350,000	236	38	34	32	29	38	38	56 F1	38	38	55	31
Other															
pH	SU	None	None	None	7.1	6.8	8.4	7.7	8.2	8.1	7.8	7.8	8.1	8.1	7.9
Temperature	°C	None	None	None	20	20	20	20	20	20	20	20	20	20	20

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13 and 15

Analyte / Sample ID:	Units	Commercial/Industrial RBSLs		Background	PFP-06-4.0	PFP-07-1.5	PFP-07-4.0	PFP-08-1.5	PFP-08-4.0	PFP-09-1.5	PFP-09-4.0	PFP-10-1.5	PFP-10-4.0	PFP-11-1.5	PFP-11-4.0
Boring:					PFP-06	PFP-07	PFP-07	PFP-08	PFP-08	PFP-09	PFP-09	PFP-10	PFP-10	PFP-11	PFP-11
Depth (ft bgs):		Cancer	Noncancer		4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0
Date Collected:					2020-11-05	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05
Purgeable Total Petroleum Hydrocarbons (TPH)															
TPH-g	mg/kg	None	None	None	<0.051	<0.055	<0.057	<0.053	<0.053	<0.058	<0.064	<0.051	<0.053	<0.049	<0.049
Extractable Total Petroleum Hydrocarbons (TPH)															
C11-C12	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C13-C14	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C15-C16	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C17-C18	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C19-C20	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C21-C22	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C23-C24	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C25-C28	mg/kg	None	None	None	<3.9	5.9	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C29-C32	mg/kg	None	None	None	<3.9	5.0 J	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C33-C36	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C37-C40	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C41-C44	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C6 as C6	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C6-C44	mg/kg	None	None	None	6.4	15	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	15
C7 as C7	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C8 as C8	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C9-C10	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
TPH-d	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	6.7
TPH-jf	mg/kg	None	None	None	<3.2	<3.5	<3.3	<3.2	<3.1	<3.6	<3.6	<3.4	<3.2	<3.1	<3.1
TPH-mo	mg/kg	None	None	None	<12	21 J	<12	<12	<12	<13	<13	<13	<12	<12	18 J
Volatile Organic Compounds (VOCs)															
Acetone	mg/kg	None	670,000	None	<0.0098	0.013 J	0.015 J	<0.010	0.012 J	0.016 J	0.019 J	<0.0097	<0.010	<0.0094	<0.0095
Benzene	mg/kg	1.4	46	None	<0.00026	<0.00028	0.00034 J	0.00059 J	0.00032 J	0.00059 J	0.00081 J	0.00041 J	0.00028 J	<0.00025	<0.00025
Bromobenzene	mg/kg	None	1,800	None	<0.00021	<0.00022	<0.00023	<0.00022	<0.00021	<0.00024	<0.00026	<0.00021	<0.00022	<0.00020	<0.00020
Bromochloromethane	mg/kg	None	630	None	<0.00044	<0.00048	<0.00049	<0.00046	<0.00046	<0.00050	<0.00055	<0.00044	<0.00046	<0.00042	<0.00043
Bromodichloromethane	mg/kg	1.3	1,300	None	<0.00016	<0.00017	<0.00018	<0.00016	<0.00016	<0.00018	<0.00020	<0.00016	<0.00017	<0.00015	<0.00015
Bromoform	mg/kg	86	3,000	None	<0.0013	<0.0014	<0.0015	<0.0014	<0.0014	<0.0015	<0.0016	<0.0013	<0.0014	<0.0013	<0.0013
Bromomethane	mg/kg	None	30	None	<0.0065	<0.0071	<0.0073	<0.0068	<0.0068	<0.0074	<0.0082	<0.0065	<0.0068	<0.0063	<0.0063

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13 and 15

Analyte / Sample ID:	Units	Commercial/Industrial RBSLs		Background	PFP-06-4.0	PFP-07-1.5	PFP-07-4.0	PFP-08-1.5	PFP-08-4.0	PFP-09-1.5	PFP-09-4.0	PFP-10-1.5	PFP-10-4.0	PFP-11-1.5	PFP-11-4.0
Boring:					PFP-06	PFP-07	PFP-07	PFP-08	PFP-08	PFP-09	PFP-09	PFP-10	PFP-10	PFP-11	PFP-11
Depth (ft bgs):		Cancer	Noncancer		4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0
Date Collected:					2020-11-05	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05
Butanone, 2-	mg/kg	None	190,000	None	<0.0045	<0.0048	<0.0050	<0.0047	<0.0046	<0.0051	<0.0056	<0.0045	<0.0047	<0.0043	<0.0043
Butylbenzene, n-	mg/kg	None	18,000	None	<0.00021	<0.00023	<0.00023	<0.00022	<0.00022	<0.00024	<0.00026	<0.00021	<0.00022	<0.00020	<0.00020
Butylbenzene, sec-	mg/kg	None	12,000	None	<0.00060	<0.00064	<0.00066	<0.00062	<0.00062	<0.00068	<0.00075	<0.00059	<0.00062	<0.00057	<0.00058
Butylbenzene, tert-	mg/kg	None	12,000	None	<0.00025	<0.00027	<0.00028	<0.00026	<0.00026	<0.00029	<0.00032	<0.00025	<0.00026	<0.00024	<0.00024
Carbon disulfide	mg/kg	None	3,500	None	<0.00040	<0.00043	<0.00044	<0.00041	<0.00041	<0.00045	<0.00050	<0.00040	<0.00042	<0.00038	<0.00038
Carbon tetrachloride	mg/kg	2.9	250	None	<0.00030	<0.00032	<0.00033	<0.00031	<0.00031	<0.00034	<0.00037	<0.00030	<0.00031	<0.00029	<0.00029
Chlorobenzene	mg/kg	None	1,300	None	<0.00027	<0.00029	<0.00030	<0.00028	<0.00028	<0.00030	<0.00033	<0.00027	<0.00028	<0.00026	<0.00026
Chloroethane	mg/kg	None	57,000	None	<0.0015	<0.0016	<0.0017	<0.0016	<0.0015	<0.0017	<0.0019	<0.0015	<0.0016	<0.0014	<0.0014
Chloroform	mg/kg	1.4	1,000	None	<0.00059	<0.00063	<0.00065	<0.00061	<0.00061	<0.00066	<0.00073	<0.00058	<0.00061	<0.00056	<0.00057
Chloromethane	mg/kg	None	460	None	<0.0015	<0.0017	<0.0017	<0.0016	<0.0016	<0.0017	<0.0019	<0.0015	<0.0016	<0.0015	<0.0015
Chlorotoluene, 2-	mg/kg	None	2,500	None	<0.00025	<0.00027	<0.00028	<0.00026	<0.00026	<0.00028	<0.00031	<0.00025	<0.00026	<0.00024	<0.00024
Chlorotoluene, 4-	mg/kg	None	2,300	None	<0.00024	<0.00026	<0.00027	<0.00025	<0.00025	<0.00027	<0.00030	<0.00024	<0.00025	<0.00023	<0.00023
Dibromochloromethane	mg/kg	4.1	2,500	None	<0.00027	<0.00029	<0.00030	<0.00028	<0.00028	<0.00031	<0.00034	<0.00027	<0.00028	<0.00026	<0.00026
Dibromochloropropane, 1,2-, 3-	mg/kg	0.057	25	None	<0.0067	<0.0073	<0.0075	<0.0070	<0.0070	<0.0076	<0.0084	<0.0067	<0.0070	<0.0065	<0.0065
Dibromoethane, 1,2-	mg/kg	0.16	30	None	<0.00020	<0.00022	<0.00023	<0.00021	<0.00021	<0.00023	<0.00026	<0.00020	<0.00021	<0.00020	<0.00020
Dibromomethane	mg/kg	None	99	None	<0.00030	<0.00033	<0.00034	<0.00032	<0.00031	<0.00034	<0.00038	<0.00030	<0.00032	<0.00029	<0.00029
Dichlorobenzene, 1,2-	mg/kg	None	9,300	None	<0.00025	<0.00027	<0.00028	<0.00026	<0.00026	<0.00028	<0.00031	<0.00025	<0.00026	<0.00024	<0.00024
Dichlorobenzene, 1,3-	mg/kg	None	None	None	<0.00025	<0.00027	<0.00028	<0.00026	<0.00026	<0.00028	<0.00031	<0.00025	<0.00026	<0.00024	<0.00024
Dichlorobenzene, 1,4-	mg/kg	11	25,000	None	<0.00030	<0.00033	<0.00034	<0.00032	<0.00032	<0.00035	<0.00038	<0.00030	<0.00032	<0.00029	<0.00030
Dichlorodifluoromethane	mg/kg	None	370	None	<0.00045	<0.00049	<0.00050	<0.00047	<0.00047	<0.00051	<0.00056	<0.00045	<0.00047	<0.00043	<0.00044
Dichloroethane, 1,1-	mg/kg	16	7,100	None	<0.00028	<0.00030	<0.00031	<0.00029	<0.00029	<0.00032	<0.00035	<0.00028	<0.00029	<0.00027	<0.00027
Dichloroethane, 1,2-	mg/kg	2.0	140	None	<0.00027	<0.00030	<0.00031	<0.00029	<0.00028	<0.00031	<0.00034	<0.00027	<0.00029	<0.00026	<0.00027
Dichloroethene, 1,1-	mg/kg	None	350	None	<0.00026	<0.00028	<0.00029	<0.00027	<0.00027	<0.00030	<0.00033	<0.00026	<0.00028	<0.00025	<0.00026
Dichloroethene, 1,2-, cis-	mg/kg	None	84	None	<0.00034	<0.00036	<0.00037	<0.00035	<0.00035	<0.00038	<0.00042	<0.00033	<0.00035	<0.00032	<0.00032
Dichloroethene, 1,2-, trans-	mg/kg	None	600	None	<0.00030	<0.00032	<0.00033	<0.00031	<0.00031	<0.00034	<0.00037	<0.00030	<0.00031	<0.00029	<0.00029
Dichloropropane, 1,2-	mg/kg	11	66	None	<0.00027	<0.00030	<0.00031	<0.00029	<0.00028	<0.00031	<0.00034	<0.00027	<0.00029	<0.00026	<0.00027
Dichloropropane, 1,3-	mg/kg	None	2,200	None	<0.00029	<0.00032	<0.00033	<0.00031	<0.00030	<0.00033	<0.00037	<0.00029	<0.00031	<0.00028	<0.00028
Dichloropropane, 2,2-	mg/kg	None	None	None	<0.00027	<0.00029	<0.00030	<0.00028	<0.00028	<0.00031	<0.00034	<0.00027	<0.00028	<0.00026	<0.00026
Dichloropropene, 1,1-	mg/kg	None	None	None	<0.00039	<0.00042	<0.00043	<0.00040	<0.00040	<0.00044	<0.00048	<0.00038	<0.00040	<0.00037	<0.00037
Dichloropropene, 1,3-, cis-	mg/kg	None	None	None	<0.00035	<0.00037	<0.00039	<0.00036	<0.00036	<0.00039	<0.00043	<0.00035	<0.00036	<0.00033	<0.00034
Dichloropropene, 1,3-, trans-	mg/kg	None	None	None	<0.00028	<0.00030	<0.00031	<0.00029	<0.00029	<0.00032	<0.00035	<0.00028	<0.00029	<0.00027	<0.00027

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13 and 15

Analyte	Units	Commercial/Industrial RBSLs		Background	PFP-06-4.0	PFP-07-1.5	PFP-07-4.0	PFP-08-1.5	PFP-08-4.0	PFP-09-1.5	PFP-09-4.0	PFP-10-1.5	PFP-10-4.0	PFP-11-1.5	PFP-11-4.0
Sample ID:					PFP-06-4.0	PFP-07-1.5	PFP-07-4.0	PFP-08-1.5	PFP-08-4.0	PFP-09-1.5	PFP-09-4.0	PFP-10-1.5	PFP-10-4.0	PFP-11-1.5	PFP-11-4.0
Boring:					PFP-06	PFP-07	PFP-07	PFP-08	PFP-08	PFP-09	PFP-09	PFP-10	PFP-10	PFP-11	PFP-11
Depth (ft bgs):		Cancer	Noncancer		4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0
Date Collected:					2020-11-05	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05
Ethylbenzene	mg/kg	25	20,000	None	<0.00021	<0.00022	<0.00023	<0.00021	<0.00021	<0.00023	<0.00026	<0.00020	<0.00021	<0.00020	<0.00020
Hexanone, 2-	mg/kg	None	1,300	None	<0.0031	<0.0033	<0.0034	<0.0032	<0.0032	<0.0035	<0.0038	<0.0030	<0.0032	<0.0029	<0.0030
Isopropylbenzene	mg/kg	None	9,900	None	<0.00060	<0.00064	<0.00066	<0.00062	<0.00062	<0.00068	<0.00075	<0.00059	<0.00062	<0.00057	<0.00058
Isopropyltoluene, p-	mg/kg	None	None	None	<0.00070	<0.00075	<0.00078	<0.00072	<0.00072	<0.00079	<0.00087	<0.00069	<0.00073	<0.00067	<0.00067
Methyl tert-butyl ether	mg/kg	210	64,000	None	<0.00019	<0.00020	<0.00021	<0.00019	<0.00019	<0.00021	<0.00023	<0.00019	<0.00020	<0.00018	<0.00018
Methylene chloride	mg/kg	26	2,500	None	<0.0031	<0.0034	<0.0035	<0.0032	<0.0032	<0.0035	<0.0039	<0.0031	<0.0032	<0.0030	<0.0030
Methylpentanone, 4-, 2-	mg/kg	None	140,000	None	<0.0029	<0.0031	<0.0032	<0.0030	<0.0030	<0.0033	<0.0036	<0.0029	<0.0030	<0.0028	<0.0028
Naphthalene	mg/kg	6.5	570	None	<0.0052	<0.0056	<0.0058	<0.0054	<0.0054	<0.0059	<0.0065	<0.0052	<0.0054	<0.0050	<0.0050
Propylbenzene, n-	mg/kg	None	24,000	None	<0.00060	<0.00064	<0.00066	<0.00062	<0.00062	<0.00068	<0.00075	<0.00059	<0.00062	<0.00057	<0.00058
Styrene	mg/kg	None	32,000	None	<0.00070	<0.00075	<0.00078	<0.00072	<0.00072	<0.00079	<0.00087	<0.00069	<0.00073	<0.00067	<0.00067
Tetrachloroethane, 1,1,1,2-	mg/kg	8.8	2,700	None	<0.00029	<0.00031	<0.00032	<0.00030	<0.00030	<0.00033	<0.00036	<0.00029	<0.00030	<0.00028	<0.00028
Tetrachloroethane, 1,1,2,2-	mg/kg	2.7	4,300	None	<0.00054	<0.00058	<0.00060	<0.00056	<0.00056	<0.00061	<0.00068	<0.00054	<0.00057	<0.00052	<0.00052
Tetrachloroethene	mg/kg	2.7	390	None	<0.00022	<0.00024	<0.00025	<0.00023	<0.00023	<0.00025	<0.00028	<0.00022	<0.00023	<0.00021	<0.00021
Toluene	mg/kg	None	5,300	None	<0.00060	<0.00064	<0.00066	<0.00062	<0.00062	<0.00068	<0.00075	<0.00059	<0.00062	<0.00057	<0.00058
Trichlorobenzene, 1,2,3-	mg/kg	None	300	None	<0.00099	<0.0011	<0.0011	<0.0010	<0.0010	<0.0011	<0.0012	<0.00099	<0.0010	<0.00095	<0.00096
Trichlorobenzene, 1,2,4-	mg/kg	35	260	None	<0.00041	<0.00044	<0.00045	<0.00043	<0.00042	<0.00046	<0.00051	<0.00041	<0.00043	<0.00039	<0.00039
Trichloroethane, 1,1,1-	mg/kg	None	7,200	None	<0.00023	<0.00025	<0.00026	<0.00024	<0.00024	<0.00026	<0.00029	<0.00023	<0.00024	<0.00022	<0.00022
Trichloroethane, 1,1,2-	mg/kg	5.0	6.3	None	<0.00046	<0.00050	<0.00051	<0.00048	<0.00048	<0.00052	<0.00058	<0.00046	<0.00048	<0.00044	<0.00045
Trichloroethene	mg/kg	6.0	19	None	<0.00038	<0.00041	<0.00043	<0.00040	<0.00040	<0.00044	<0.00048	<0.00038	<0.00040	<0.00037	<0.00037
Trichlorofluoromethane	mg/kg	None	5,400	None	<0.00027	<0.00029	<0.00030	<0.00028	<0.00028	<0.00031	<0.00034	<0.00027	<0.00028	<0.00026	<0.00026
Trichloropropane, 1,2,3-	mg/kg	0.021	21	None	<0.00042	<0.00045	<0.00046	<0.00043	<0.00043	<0.00047	<0.00052	<0.00042	<0.00044	<0.00040	<0.00040
Trichlorotrifluoroethane, 1,1,2-, 1,2,2-	mg/kg	None	28,000	None	<0.00046	<0.00050	<0.00051	<0.00048	<0.00048	<0.00052	<0.00058	<0.00046	<0.00048	<0.00044	<0.00044
Trimethylbenzene, 1,2,4-	mg/kg	None	1,800	None	<0.00060	<0.00064	<0.00066	<0.00062	<0.00062	<0.00068	<0.00075	<0.00059	<0.00062	<0.00057	<0.00058
Trimethylbenzene, 1,3,5-	mg/kg	None	1,500	None	<0.00060	<0.00064	<0.00066	<0.00062	<0.00062	<0.00068	<0.00075	<0.00059	<0.00062	<0.00057	<0.00058
Vinyl acetate	mg/kg	None	3,800	None	<0.0039	<0.0042	<0.0043	<0.0041	<0.0040	<0.0044	<0.0049	<0.0039	<0.0041	<0.0037	<0.0038
Vinyl chloride	mg/kg	0.15	370	None	<0.00038	<0.00041	<0.00042	<0.00039	<0.00039	<0.00043	<0.00047	<0.00037	<0.00039	<0.00036	<0.00036
Xylene, m,p-	mg/kg	None	2,400	None	<0.00047	<0.00051	<0.00052	<0.00049	<0.00049	<0.00053	<0.00059	<0.00047	<0.00049	<0.00045	<0.00046
Xylene, o-	mg/kg	None	2,800	None	<0.00060	<0.00064	<0.00066	<0.00062	<0.00062	<0.00068	<0.00075	<0.00059	<0.00062	<0.00057	<0.00058
Semi-Volatile Organic Compounds (SVOCs)															
Acenaphthene	mg/kg	None	23,000	None	<0.058	<0.058	<0.059	<0.058	<0.057	<0.062	<0.063	<0.057	<0.058	<0.057	<0.057
Acenaphthylene	mg/kg	None	None	None	<0.042	<0.042	<0.042	<0.042	<0.041	<0.044	<0.045	<0.041	<0.042	<0.041	<0.041

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13 and 15

Analyte / Sample ID:	Units	Commercial/Industrial RBSLs		Background	PFP-06-4.0	PFP-07-1.5	PFP-07-4.0	PFP-08-1.5	PFP-08-4.0	PFP-09-1.5	PFP-09-4.0	PFP-10-1.5	PFP-10-4.0	PFP-11-1.5	PFP-11-4.0
Boring:					PFP-06	PFP-07	PFP-07	PFP-08	PFP-08	PFP-09	PFP-09	PFP-10	PFP-10	PFP-11	PFP-11
Depth (ft bgs):		Cancer	Noncancer		4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0
Date Collected:					2020-11-05	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05
Aniline	mg/kg	260	3,700	None	<0.043	<0.043	<0.044	<0.043	<0.043	<0.046	<0.047	<0.042	<0.043	<0.042	<0.043
Anthracene	mg/kg	None	130,000	None	<0.054	<0.055	<0.055	<0.054	<0.054	<0.058	<0.059	<0.053	<0.055	<0.054	<0.054
Azobenzene	mg/kg	26	None	None	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.13	<0.11	<0.12	<0.11	<0.12
Benz(a)anthracene	mg/kg	12	None	None	<0.049	<0.050	<0.050	<0.049	<0.049	<0.052	<0.053	0.25 J	<0.049	<0.048	<0.049
Benzidine	mg/kg	0.0030	1,600	None	<1.5	<1.5	<1.6	<1.5	<1.5	<1.6	<1.7	<1.5	<1.5	<1.5	<1.5
Benzo(a)pyrene	mg/kg	1.3	130	None	<0.082	<0.083	<0.084	<0.082	<0.081	<0.087	<0.089	0.20 J	<0.083	<0.081	<0.081
Benzo(b)fluoranthene	mg/kg	13	None	None	<0.085	<0.086	<0.087	<0.086	<0.085	<0.091	<0.093	0.19 J	<0.086	<0.084	<0.085
Benzo(g,h,i)perylene	mg/kg	None	None	None	<0.089	<0.090	<0.091	<0.090	<0.089	<0.095	<0.098	0.13 J	<0.090	<0.088	<0.089
Benzo(k)fluoranthene	mg/kg	130	None	None	<0.049	<0.050	<0.051	<0.050	<0.049	<0.053	<0.054	0.21 J	<0.050	<0.049	<0.049
Benzoic acid	mg/kg	None	2.1E+06	None	<1.7	<1.7	<1.7	<1.7	<1.7	<1.8	<1.9	<1.7	<1.7	<1.7	<1.7
Benzyl alcohol	mg/kg	None	53,000	None	<0.091	<0.092	<0.093	<0.091	<0.090	<0.097	<0.10	<0.090	<0.092	<0.090	<0.091
Bis(2-chloroethoxy)methane	mg/kg	None	1,600	None	<0.066	<0.067	<0.068	<0.067	<0.066	<0.071	<0.073	<0.065	<0.067	<0.066	<0.066
Bis(2-chloroethyl)ether	mg/kg	0.47	None	None	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	<0.12	<0.11	<0.11	<0.11	<0.11
Bis(2-chloroisopropyl)ether	mg/kg	None	16,000	None	<0.064	<0.065	<0.065	<0.064	<0.064	<0.068	<0.070	<0.063	<0.065	<0.063	<0.064
Bis(2-ethylhexyl)phthalate	mg/kg	110	11,000	None	<0.27	<0.27	<0.27	<0.27	<0.27	<0.29	<0.29	<0.26	<0.27	<0.27	<0.27
Bromophenyl phenyl ether, 4-	mg/kg	None	None	None	<0.063	<0.064	<0.064	<0.063	<0.063	<0.067	<0.069	<0.062	<0.064	<0.062	<0.063
Butyl benzyl phthlate	mg/kg	780	110,000	None	<0.24	<0.24	<0.24	<0.24	<0.24	<0.25	<0.26	<0.23	<0.24	<0.23	<0.24
Chloroaniline, 4-	mg/kg	7.4	2,100	None	<0.078	<0.079	<0.079	<0.078	<0.077	<0.083	<0.085	<0.077	<0.078	<0.077	<0.077
Chloromethylphenol, 4-, 3-	mg/kg	None	53,000	None	<0.090	<0.091	<0.092	<0.090	<0.089	<0.096	<0.098	<0.089	<0.091	<0.089	<0.090
Chloronaphthalene, beta-	mg/kg	None	27,000	None	<0.061	<0.062	<0.062	<0.061	<0.060	<0.065	<0.067	<0.060	<0.061	<0.060	<0.061
Chlorophenol, 2-	mg/kg	None	3,900	None	<0.11	<0.11	<0.11	<0.11	<0.10	<0.11	<0.12	<0.10	<0.11	<0.10	<0.11
Chlorophenyl phenyl ether, 4-	mg/kg	None	None	None	<0.075	<0.076	<0.077	<0.076	<0.075	<0.080	<0.082	<0.074	<0.076	<0.075	<0.075
Chrysene	mg/kg	1,300	None	None	<0.072	<0.073	<0.074	<0.073	<0.072	<0.077	<0.079	0.23 J	<0.073	<0.072	<0.072
Dibenz(a,h)anthracene	mg/kg	0.31	None	None	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	<0.12	<0.11	<0.11	<0.11	<0.11
Dibenzofuran	mg/kg	None	650	None	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.11	<0.10	<0.10	<0.10	<0.10
Dibutyl phthalate	mg/kg	None	53,000	None	<0.078	<0.079	<0.080	<0.078	<0.078	<0.083	<0.085	<0.077	<0.079	<0.077	<0.078
Dichlorobenzene, 1,2-	mg/kg	None	9,300	None	<0.079	<0.080	<0.081	<0.080	<0.079	<0.085	<0.087	<0.078	<0.080	<0.078	<0.079
Dichlorobenzene, 1,3-	mg/kg	None	None	None	<0.074	<0.075	<0.076	<0.074	<0.074	<0.079	<0.081	<0.073	<0.075	<0.073	<0.074
Dichlorobenzene, 1,4-	mg/kg	11	25,000	None	<0.076	<0.077	<0.078	<0.076	<0.075	<0.081	<0.083	<0.075	<0.077	<0.075	<0.076
Dichlorobenzidine, 3,3'-	mg/kg	1.2	None	None	<0.87	<0.88	<0.89	<0.88	<0.87	<0.93	<0.95	<0.86	<0.88	<0.86	<0.87
Dichlorophenol, 2,4-	mg/kg	None	1,600	None	<0.045	<0.045	<0.046	<0.045	<0.044	<0.048	<0.049	<0.044	<0.045	<0.044	<0.045

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13 and 15

Analyte	Units	Commercial/Industrial RBSLs		Background	PFP-06-4.0	PFP-07-1.5	PFP-07-4.0	PFP-08-1.5	PFP-08-4.0	PFP-09-1.5	PFP-09-4.0	PFP-10-1.5	PFP-10-4.0	PFP-11-1.5	PFP-11-4.0
Sample ID:					PFP-06-4.0	PFP-07-1.5	PFP-07-4.0	PFP-08-1.5	PFP-08-4.0	PFP-09-1.5	PFP-09-4.0	PFP-10-1.5	PFP-10-4.0	PFP-11-1.5	PFP-11-4.0
Boring:					PFP-06	PFP-07	PFP-07	PFP-08	PFP-08	PFP-09	PFP-09	PFP-10	PFP-10	PFP-11	PFP-11
Depth (ft bgs):		Cancer	Noncancer		4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0
Date Collected:					2020-11-05	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05
Dichlorophenol, 2,6-	mg/kg	None	None	None	<0.070	<0.070	<0.071	<0.070	<0.069	<0.074	<0.076	<0.069	<0.070	<0.069	<0.069
Diethyl phthalate	mg/kg	None	420,000	None	<0.065	<0.066	<0.067	<0.066	<0.065	<0.070	<0.072	<0.065	<0.066	<0.065	<0.065
Dimethyl phthalate	mg/kg	None	None	None	<0.067	<0.068	<0.069	<0.068	<0.067	<0.072	<0.074	<0.067	<0.068	<0.067	<0.067
Dimethylphenol, 2,4-	mg/kg	None	11,000	None	<0.049	<0.049	<0.050	<0.049	<0.048	<0.052	<0.053	<0.048	<0.049	<0.048	<0.048
Dinitromethylphenol, 4,6-, 2-	mg/kg	None	42	None	<1.0	<1.1	<1.1	<1.0	<1.0	<1.1	<1.1	<1.0	<1.1	<1.0	<1.0
Dinitrophenol, 2,4-	mg/kg	None	1,100	None	<1.7	<1.7	<1.7	<1.7	<1.7	<1.8	<1.9	<1.7	<1.7	<1.7	<1.7
Dinitrotoluene, 2,4-	mg/kg	4.7	1,000	None	<0.049	<0.049	<0.050	<0.049	<0.048	<0.052	<0.053	<0.048	<0.049	<0.048	<0.048
Dinitrotoluene, 2,6-	mg/kg	0.99	160	None	<0.063	<0.064	<0.064	<0.063	<0.062	<0.067	<0.069	<0.062	<0.063	<0.062	<0.063
Di-n-octyl phthalate	mg/kg	None	5,300	None	<0.39	<0.39	<0.39	<0.39	<0.38	<0.41	<0.42	<0.38	<0.39	<0.38	<0.38
Fluoranthene	mg/kg	None	18,000	None	<0.063	<0.063	<0.064	<0.063	<0.062	<0.067	<0.068	0.085 J	<0.063	<0.062	<0.062
Fluorene	mg/kg	None	17,000	None	<0.071	<0.072	<0.073	<0.072	<0.071	<0.076	<0.078	<0.070	<0.072	<0.071	<0.071
Hexachlorobenzene	mg/kg	0.86	470	None	<0.098	<0.10	<0.10	<0.099	<0.098	<0.10	<0.11	<0.097	<0.099	<0.097	<0.098
Hexachlorobutadiene	mg/kg	5.3	160	None	<0.054	<0.054	<0.055	<0.054	<0.053	<0.057	<0.059	<0.053	<0.054	<0.053	<0.053
Hexachlorocyclopentadiene	mg/kg	None	7.5	None	<0.40	<0.41	<0.41	<0.40	<0.40	<0.43	<0.44	<0.40	<0.41	<0.40	<0.40
Hexachloroethane	mg/kg	8.0	460	None	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.13	<0.11	<0.12	<0.11	<0.12
Indeno(1,2,3-c,d)pyrene	mg/kg	13	None	None	<0.097	<0.098	<0.099	<0.097	<0.096	<0.10	<0.11	0.12 J	<0.098	<0.096	<0.096
Isophorone	mg/kg	1,600	110,000	None	<0.073	<0.074	<0.075	<0.074	<0.073	<0.078	<0.080	<0.072	<0.074	<0.073	<0.073
Methylnaphthalene, 1-	mg/kg	30	22,000	None	<0.039	<0.039	<0.040	<0.039	<0.039	<0.041	<0.042	<0.038	<0.039	<0.038	<0.039
Methylnaphthalene, 2-	mg/kg	None	1,300	None	<0.061	<0.062	<0.062	<0.061	<0.061	<0.065	<0.067	<0.060	<0.062	<0.060	<0.061
Methylphenol, 2-	mg/kg	None	26,000	None	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.11	<0.10	<0.10	<0.10	<0.10
Methylphenol, 3,4-	mg/kg	None	None	None	<0.67	<0.68	<0.69	<0.67	<0.67	<0.72	<0.73	<0.66	<0.68	<0.66	<0.67
Naphthalene	mg/kg	6.5	570	None	0.64	<0.062	<0.063	0.26 J	0.38 J	<0.066	<0.067	<0.061	<0.062	0.53	0.18 J
Nitroaniline, 2-	mg/kg	None	5,200	None	<0.070	<0.071	<0.071	<0.070	<0.069	<0.074	<0.076	<0.069	<0.070	<0.069	<0.069
Nitroaniline, 3-	mg/kg	None	None	None	<0.050	<0.051	<0.052	<0.051	<0.050	<0.054	<0.055	<0.050	<0.051	<0.050	<0.050
Nitroaniline, 4-	mg/kg	74	2,100	None	<0.047	<0.048	<0.048	<0.047	<0.047	<0.050	<0.052	<0.047	<0.048	<0.047	<0.047
Nitrobenzene	mg/kg	22	1,300	None	<0.047	<0.047	<0.048	<0.047	<0.046	<0.050	<0.051	<0.046	<0.047	<0.046	<0.047
Nitrophenol, 2-	mg/kg	None	None	None	<0.050	<0.051	<0.051	<0.051	<0.050	<0.054	<0.055	<0.050	<0.051	<0.050	<0.050
Nitrophenol, 4-	mg/kg	None	None	None	<0.066	<0.066	<0.067	<0.066	<0.065	<0.070	<0.072	<0.065	<0.066	<0.065	<0.065
Nitrosodimethylamine, N-	mg/kg	0.034	5.7	None	<0.082	<0.083	<0.084	<0.082	<0.081	<0.088	<0.090	<0.081	<0.083	<0.081	<0.082
Nitroso-di-N-propylamine, N-	mg/kg	0.21	None	None	<0.071	<0.072	<0.073	<0.072	<0.071	<0.076	<0.078	<0.070	<0.072	<0.071	<0.071
Nitrosodiphenylamine, N-	mg/kg	300	None	None	<0.042	<0.042	<0.042	<0.042	<0.041	<0.044	<0.045	<0.041	<0.042	<0.041	<0.041

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13 and 15

Analyte / Sample ID: / Boring: / Depth (ft bgs): / Date Collected:	Units	Commercial/Industrial RBSLs		Background	PFP-06-4.0 PFP-06 4.0 2020-11-05	PFP-07-1.5 PFP-07 1.5 2020-11-04	PFP-07-4.0 PFP-07 4.0 2020-11-04	PFP-08-1.5 PFP-08 1.5 2020-11-05	PFP-08-4.0 PFP-08 4.0 2020-11-05	PFP-09-1.5 PFP-09 1.5 2020-11-04	PFP-09-4.0 PFP-09 4.0 2020-11-04	PFP-10-1.5 PFP-10 1.5 2020-11-04	PFP-10-4.0 PFP-10 4.0 2020-11-04	PFP-11-1.5 PFP-11 1.5 2020-11-05	PFP-11-4.0 PFP-11 4.0 2020-11-05
		Cancer	Noncancer												
Pentachlorophenol	mg/kg	2.0	1,500	None	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.1	<1.1	<1.1	<1.1
Phenanthrene	mg/kg	None	None	None	<0.065	<0.066	<0.067	<0.065	<0.065	<0.070	<0.071	<0.064	<0.066	<0.065	<0.065
Phenol	mg/kg	None	160,000	None	<0.10	<0.10 U *	<0.10 U *	<0.10	<0.10	<0.11 U *	<0.11 U *	<0.10 U *	<0.10 U *	<0.10	<0.10
Pyrene	mg/kg	None	13,000	None	<0.080	<0.081	<0.082	<0.081	<0.080	<0.086	<0.088	0.12 J	<0.081	<0.080	<0.080
Pyridine	mg/kg	None	530	None	<0.088	<0.089	<0.090	<0.088	<0.087	<0.094	<0.096	<0.087	<0.089	<0.087	<0.088
Trichlorobenzene, 1,2,4-	mg/kg	35	260	None	<0.042	<0.042	<0.043	<0.042	<0.042	<0.045	<0.046	<0.041	<0.042	<0.042	<0.042
Trichlorophenol, 2,4,5-	mg/kg	None	53,000	None	<0.075	<0.076	<0.077	<0.076	<0.075	<0.080	<0.082	<0.074	<0.076	<0.075	<0.075
Trichlorophenol, 2,4,6-	mg/kg	21	530	None	<0.084	<0.085	<0.086	<0.084	<0.083	<0.090	<0.092	<0.083	<0.085	<0.083	<0.084
Low-Level Semivolatile Organic Compounds (SVOCs)															
Acenaphthene	mg/kg	None	23,000	None	<0.014	<0.014	<0.014	<0.014	<0.014	<0.015	<0.015	<0.013	<0.014	<0.014	<0.014
Acenaphthylene	mg/kg	None	None	None	<0.010	<0.010	<0.010	<0.010	<0.010	<0.011	<0.011	<0.0099	<0.010	<0.010	0.011 J
Anthracene	mg/kg	None	130,000	None	<0.0092	<0.0095	<0.0096	<0.0094	<0.0093	<0.010	<0.010	<0.0091	<0.0095	<0.0093	<0.0094
Benz(a)anthracene	mg/kg	12	None	None	<0.0083	<0.0086	<0.0087	<0.0085	<0.0084	<0.0091	<0.0092	0.13	<0.0086	<0.0084	<0.0085
Benzo(a)pyrene	mg/kg	1.3	130	None	<0.0084	<0.0087	<0.0089	<0.0086	<0.0086	<0.0092	<0.0093	0.12	<0.0087	<0.0085	<0.0086
Benzo(b)fluoranthene	mg/kg	13	None	None	<0.015	<0.016	<0.016	<0.016	<0.016	<0.017	<0.017	0.12	<0.016	<0.016	<0.016
Benzo(g,h,i)perylene	mg/kg	None	None	None	<0.011	<0.011	<0.012	<0.011	<0.011	<0.012	<0.012	0.062	<0.011	<0.011	<0.011
Benzo(k)fluoranthene	mg/kg	130	None	None	<0.0078	<0.0080	<0.0082	<0.0079	<0.0079	<0.0085	<0.0086	0.10	<0.0080	<0.0078	<0.0079
Chrysene	mg/kg	1,300	None	None	<0.0067	<0.0069	<0.0071	<0.0069	<0.0068	<0.0073	<0.0074	0.13	<0.0069	<0.0068	<0.0069
Dibenz(a,h)anthracene	mg/kg	0.31	None	None	<0.011	<0.012	<0.012	<0.012	<0.012	<0.012	<0.013	0.017 J	<0.012	<0.012	<0.012
Fluoranthene	mg/kg	None	18,000	None	<0.0083	<0.0086	<0.0087	0.011 J	<0.0085	<0.0091	<0.0092	0.041	<0.0086	<0.0084	<0.0085
Fluorene	mg/kg	None	17,000	None	<0.010	0.012 J	<0.011	<0.010	<0.010	<0.011	<0.011	<0.010	<0.010	<0.010	<0.010
Indeno(1,2,3-c,d)pyrene	mg/kg	13	None	None	<0.012	<0.013	<0.013	<0.013	<0.013	<0.014	<0.014	0.055	<0.013	<0.013	<0.013
Methylnaphthalene, 1-	mg/kg	30	22,000	None	<0.011	<0.012	<0.012	<0.011	<0.011	<0.012	<0.012	<0.011	<0.012	<0.011	0.011 J
Methylnaphthalene, 2-	mg/kg	None	1,300	None	<0.011	<0.011	<0.011	<0.011	<0.011	<0.012	<0.012	<0.011	<0.011	<0.011	0.012 J
Naphthalene	mg/kg	6.5	570	None	0.070	0.041	<0.0097	0.057	0.073	0.032	<0.010	0.014 J	0.027	<0.0094	0.38
Phenanthrene	mg/kg	None	None	None	<0.0072	<0.0074	<0.0076	0.010 J	<0.0073	<0.0079	<0.0079	<0.0072	<0.0074	<0.0073	0.012 J
Pyrene	mg/kg	None	13,000	None	<0.0090	<0.0092	<0.0094	0.013 J	<0.0091	<0.0098	<0.0099	0.050	<0.0092	<0.0091	<0.0092
Polychlorinated Biphenyls (PCBs)															
Aroclor-1016	mg/kg	17	29	None	<0.042	<0.042	<0.043	<0.042	<0.042	<0.045	<0.045	<0.042	<0.043	<0.042	<0.042
Aroclor-1221	mg/kg	0.53	None	None	<0.042	<0.042	<0.043	<0.042	<0.042	<0.045	<0.045	<0.042	<0.043	<0.042	<0.042
Aroclor-1232	mg/kg	0.49	None	None	<0.042	<0.042	<0.043	<0.042	<0.042	<0.045	<0.045	<0.042	<0.043	<0.042	<0.042

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13 and 15

Analyte / Sample ID:	Units	Commercial/Industrial RBSLs		Background	PFP-06-4.0	PFP-07-1.5	PFP-07-4.0	PFP-08-1.5	PFP-08-4.0	PFP-09-1.5	PFP-09-4.0	PFP-10-1.5	PFP-10-4.0	PFP-11-1.5	PFP-11-4.0
Boring:					PFP-06	PFP-07	PFP-07	PFP-08	PFP-08	PFP-09	PFP-09	PFP-10	PFP-10	PFP-11	PFP-11
Depth (ft bgs):		Cancer	Noncancer		4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0
Date Collected:					2020-11-05	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05
Aroclor-1242	mg/kg	0.58	None	None	<0.042	<0.042	<0.043	<0.042	<0.042	<0.045	<0.045	<0.042	<0.043	<0.042	<0.042
Aroclor-1248	mg/kg	0.58	None	None	<0.042	<0.042	<0.043	<0.042	<0.042	<0.045	<0.045	<0.042	<0.043	<0.042	<0.042
Aroclor-1254	mg/kg	0.59	8.4	None	<0.027	<0.027	<0.028	<0.027	<0.027	<0.029	<0.029	<0.027	<0.028	<0.027	<0.027
Aroclor-1260	mg/kg	0.60	None	None	<0.027	<0.027	<0.028	<0.027	<0.027	<0.029	<0.029	<0.027	<0.028	<0.027	<0.027
Aroclor-1262	mg/kg	None	None	None	<0.027	<0.027	<0.028	<0.027	<0.027	0.072	<0.029	<0.027	<0.028	<0.027	<0.027
Aroclor-1268	mg/kg	None	None	None	<0.027	<0.027	<0.028	<0.027	<0.027	0.039 J	<0.029	<0.027	<0.028	<0.027	<0.027
Metals															
Antimony	mg/kg	None	470	1.95	<0.16	<0.17	<0.16	<0.17	<0.16	0.44 J	<0.17	0.55 J	<0.17	0.21 J	<0.16
Arsenic	mg/kg	0.36	4.2	12	1.4	0.87	0.77 J	1.8	1.9	2.2	1.9	2.3	2.0	3.1	1.8
Barium	mg/kg	None	220,000	1,400	154	159	155	152	137	134	130	131	129	134	132
Beryllium	mg/kg	6,900	230	2.7	0.52	0.67	0.66	0.57	0.58	0.53	0.48	0.55	0.53	0.58	0.50
Cadmium	mg/kg	9,300	980	1.7	0.39 J	0.37 J	0.37 J	0.42 J	0.46 J	0.29 J	0.31 J	0.40 J	0.31 J	0.37 J	0.32 J
Chromium	mg/kg	None	None	1,579	7.0	12	10	11	10	9.7	12	11	11	11	11
Cobalt	mg/kg	1,900	350	46.9	9.5	15	9.1	7.8	8.1	8.7	8.2	8.8	8.6	11	7.3
Copper	mg/kg	None	47,000	96.4	4.1	7.8	6.2	7.0	9.8	6.8	8.0	7.0	6.3	8.7	7.9
Lead	mg/kg	None	320	97.1	<0.14 U L	17	<0.14	0.38 J	0.29 J	9.0	2.6	<0.14	0.26 J	0.76	2.3
Mercury	mg/kg	None	4.4	0.90	<0.015	0.024 J	0.063 J	<0.014	<0.015	0.021 J	0.035 J	0.031 J	0.027 J	<0.015	<0.015
Molybdenum	mg/kg	None	5,800	9.6	<0.14 U L	<0.15 U L	<0.14 U L	<0.15 U L	<0.14 U L	<0.15 U L	<0.15 U L	<0.14 U L	<0.15 U L	<0.14	<0.14 U L
Nickel	mg/kg	64,000	11,000	509	8.1	7.9	7.6	7.8	7.3	7.6	8.6	7.8	7.8	8.1	7.1
Selenium	mg/kg	None	5,800	0.43	<0.32	<0.33	<0.32	<0.33	<0.33	<0.35	<0.35	<0.32	<0.33	<0.32	<0.31
Silver	mg/kg	None	5,800	8.3	<0.091	0.21 J	<0.092	<0.095	<0.093	<0.10	<0.099	<0.090 U L	<0.095	0.16 J	<0.089
Thallium	mg/kg	None	12	1.1	0.72 J B	<0.17	<0.16	<0.17	<0.17	<0.18	0.18 J	0.31 J	<0.17	0.66 J B	<0.16
Vanadium	mg/kg	None	5,800	288	28	40	37	35	34	34	34	37	35	33	31
Zinc	mg/kg	None	350,000	236	33	44	39	38	42	38	39	39	36	40	39
Other															
pH	SU	None	None	None	7.5	7.9	7.5	8.3	8.0	8.1	8.0	8.0	8.0	8.7	8.1
Temperature	°C	None	None	None	20	20	20	20	20	20	20	20	20	20	19

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13 and 15

Notes:

(1) Less-than sign (<) indicates analyte was not detected above indicated laboratory reporting limit. En-dash (–) indicates sample was not analyzed for compound.

(2) Abbreviations:
- ft bgs – feet below ground surface
- mg/kg – milligrams per kilogram
- °C – degrees Celsius
- TPH-g – total petroleum hydrocarbons in the gasoline range
- TPH-jf – total petroleum hydrocarbons in the Jet A range
- TPH-d – total petroleum hydrocarbons in the diesel range
- TPH-mo – total petroleum hydrocarbons in the motor oil range

(3) Data qualifiers:
- B – Compound was found in the blank and sample.
- F1 – MS and/or MSD recovery exceeds control limits.
- J – Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
- L – A negative instrument reading had an absolute value greater than the reporting limit.
- * – LCS or LCSD is outside acceptance limits.

(4) Sampling results are compared to Department of Toxic Substances Control (DTSC)-recommended human health risk-based screening levels for commercial/industrial soil (DTSC 2020, USEPA 2020).

(5) Highlighting key:
- – Detected concentration exceeds one or more screening levels.
- – Detected concentration exceeds one or more screening levels, but is consistent with background/ambient conditions.

(6) Background/ambient concentrations are from:
- Bradford, G.R., Chang, A.C., Page, A.L., Bakhtar, D., Frampton, J.A., and Wright, H. 1996. Background Concentrations of Trace and Major Elements in California Soils. Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California. March.
- DTSC. 2018.Determination of a Southern California Regional Background Arsenic Concentration in Soil. January 31.

Table source is from PathForward

Table 24. PathForward Soil Gas Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13, and 15

Analyte	Units	Commercial/Industrial RBSLs		PFP-01-SG	PFP-02-SG	PFP-03-SG	PFP-07-SG	PFP-09-SG	PFP-10-SG	PFP-10-SG REP
Sample ID:				PFP-01-SG	PFP-02-SG	PFP-03-SG	PFP-07-SG	PFP-09-SG	PFP-10-SG	PFP-10-SG REP
Boring:				PFP-01	PFP-02	PFP-03	PFP-07	PFP-09	PFP-10	PFP-10
Depth (ft bgs):		Cancer	Noncancer	5.0	5.0	5.0	5.0	4.5	4.5	SG REP
Date Collected:				2020-11-08	2020-11-08	2020-11-08	2020-11-08	2020-11-08	2020-11-08	2020-11-08
Volatile Organic Compounds (VOCs)										
Benzene	µg/m³	14	430	<20	<20	<20	<20	<20	<20	<20
Bromobenzene	µg/m³	None	8,700	<100	<100	<100	<100	<100	<100	<100
Bromochloromethane	µg/m³	None	6,000	<100	<100	<100	<100	<100	<100	<100
Bromodichloromethane	µg/m³	11	12,000	<100	<100	<100	<100	<100	<100	<100
Bromoform	µg/m³	370	12,000	<100	<100	<100	<100	<100	<100	<100
Bromomethane	µg/m³	None	730	<100	<100	<100	<100	<100	<100	<100
Butylbenzene, n-	µg/m³	None	29,000	<100	<100	<100	<100	<100	<100	<100
Butylbenzene, sec-	µg/m³	None	60,000	<100	<100	<100	<100	<100	<100	<100
Butylbenzene, tert-	µg/m³	None	60,000	<100	<100	<100	<100	<100	<100	<100
Carbon tetrachloride	µg/m³	67	6,000	<20	<20	<20	<20	<20	<20	<20
Chlorobenzene	µg/m³	None	7,300	<20	<20	<20	<20	<20	<20	<20
Chloroethane	µg/m³	None	1.5E+06	<100	<100	<100	<100	<100	<100	<100
Chloroform	µg/m³	18	14,000	<20	<20	<20	<20	<20	<20	<20
Chloromethane	µg/m³	None	13,000	<100	<100	<100	<100	<100	<100	<100
Chlorotoluene, 2-	µg/m³	None	12,000	<100	<100	<100	<100	<100	<100	<100
Chlorotoluene, 4-	µg/m³	None	12,000	<100	<100	<100	<100	<100	<100	<100
Dibromochloromethane	µg/m³	19	12,000	<100	<100	<100	<100	<100	<100	<100
Dibromochloropropane, 1,2-, 3-	µg/m³	0.067	29	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Dibromoethane, 1,2-	µg/m³	0.67	120	<100	<100	<100	<100	<100	<100	<100
Dibromomethane	µg/m³	None	600	<100	<100	<100	<100	<100	<100	<100
Dichlorobenzene, 1,2-	µg/m³	None	29,000	<100	<100	<100	<100	<100	<100	<100
Dichlorobenzene, 1,3-	µg/m³	None	None	<100	<100	<100	<100	<100	<100	<100
Dichlorobenzene, 1,4-	µg/m³	37	120,000	<100	<100	<100	<100	<100	<100	<100
Dichlorodifluoromethane	µg/m³	None	15,000	<100	<100	<100	<100	<100	<100	<100
Dichloroethane, 1,1-	µg/m³	260	120,000	<100	<100	<100	<100	<100	<100	<100
Dichloroethane, 1,2-	µg/m³	16	1,000	<20	<20	<20	<20	<20	<20	<20
Dichloroethene, 1,1-	µg/m³	None	10,000	<100	<100	<100	<100	<100	160	150
Dichloroethene, 1,2-, cis-	µg/m³	None	1,200	<100	<100	<100	<100	<100	<100	<100
Dichloroethene, 1,2-, trans-	µg/m³	None	12,000	<100	<100	<100	<100	<100	<100	<100
Dichloropropane, 1,2-	µg/m³	110	600	<100	<100	<100	<100	<100	<100	<100
Dichloropropane, 1,3-	µg/m³	None	12,000	<100	<100	<100	<100	<100	<100	<100

Table 24. PathForward Soil Gas Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13, and 15

Analyte / Sample ID / Boring / Depth (ft bgs) / Date Collected:	Units	Commercial/Industrial RBSLs		PFP-01-SG	PFP-02-SG	PFP-03-SG	PFP-07-SG	PFP-09-SG	PFP-10-SG	PFP-10-SG REP
				PFP-01	PFP-02	PFP-03	PFP-07	PFP-09	PFP-10	PFP-10
		Cancer	Noncancer	5.0	5.0	5.0	5.0	4.5	4.5	SG REP
				2020-11-08	2020-11-08	2020-11-08	2020-11-08	2020-11-08	2020-11-08	2020-11-08
Dichloropropane, 2,2-	µg/m³	None	None	<100	<100	<100	<100	<100	<100	<100
Dichloropropene, 1,1-	µg/m³	None	None	<100	<100	<100	<100	<100	<100	<100
Dichloropropene, 1,3-, cis-	µg/m³	None	None	<100	<100	<100	<100	<100	<100	<100
Dichloropropene, 1,3-, trans-	µg/m³	None	None	<100	<100	<100	<100	<100	<100	<100
Difluoroethane, 1,1-	µg/m³	None	6.0E+06	<100	<100	<100	200	<100	<100	<100
Ethylbenzene	µg/m³	160	150,000	<100	<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	µg/m³	19	600	<100	<100	<100	<100	<100	<100	<100
Isopropylbenzene	µg/m³	None	60,000	<100	<100	<100	<100	<100	<100	<100
Isopropyltoluene, p-	µg/m³	None	None	<100	<100	<100	<100	<100	<100	<100
Methyl tert-butyl ether	µg/m³	1,600	430,000	<100	<100	<100	<100	<100	<100	<100
Methylene chloride	µg/m³	400	60,000	<100	<100	<100	<100	<100	<100	<100
Naphthalene	µg/m³	12	430	<20	<20	<20	<20	<20	<20	<20
Propylbenzene, n-	µg/m³	None	150,000	<100	<100	<100	<100	<100	<100	<100
Styrene	µg/m³	None	130,000	<100	<100	<100	<100	<100	<100	<100
Tetrachloroethane, 1,1,1,2-	µg/m³	57	18,000	<100	<100	<100	<100	<100	<100	<100
Tetrachloroethane, 1,1,2,2-	µg/m³	7.0	12,000	<100	<100	<100	<100	<100	<100	<100
Tetrachloroethene	µg/m³	67	6,000	40	130	20	<20	46	41	36
Toluene	µg/m³	None	43,000	<200	<200	<200	<200	<200	<200	<200
Trichlorobenzene, 1,2,3-	µg/m³	None	470	<100	<100	<100	<100	<100	<100	<100
Trichlorobenzene, 1,2,4-	µg/m³	57	290	<100	<100	<100	<100	<100	<100	<100
Trichloroethane, 1,1,1-	µg/m³	None	150,000	<100	<100	<100	<100	<100	<100	<100
Trichloroethane, 1,1,2-	µg/m³	26	29	<100	<100	<100	<100	<100	<100	<100
Trichloroethene	µg/m³	100	290	<20	<20	<20	<20	<20	<20	<20
Trichlorofluoromethane	µg/m³	None	180,000	<100	<100	<100	<100	<100	<100	<100
Trichloropropane, 1,2,3-	µg/m³	0.053	43	<100	<100	<100	<100	<100	<100	<100
Trichlorotrifluoroethane, 1,1,2-, 1,2,2-	µg/m³	None	730,000	<100	<100	<100	<100	<100	<100	<100
Trimethylbenzene, 1,2,4-	µg/m³	None	8,700	<100	<100	<100	<100	<100	<100	<100
Trimethylbenzene, 1,3,5-	µg/m³	None	8,700	<100	<100	<100	<100	<100	<100	<100
Vinyl chloride	µg/m³	5.3	15,000	<10	<10	<10	<10	<10	<10	<10
Xylene, m,p-	µg/m³	None	15,000	<100	<100	<100	<100	<100	<100	<100
Xylene, o-	µg/m³	None	15,000	<100	<100	<100	<100	<100	<100	<100

Table 24. PathForward Soil Gas Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13, and 15

Notes:

(1) Soil gas sampling results for VOCs reported in micrograms per cubic meter (µg/m³). Less-than sign (<) indicates analyte was not detected above indicated laboratory reporting limit.

(2) Soil gas sampling results are compared to DTSC-recommended soil gas risk-based screening levels which incorporate the following components.
- DTSC-recommended indoor air risk-based screening levels for commercial/industrial land use (DTSC 2020, USEPA 2020); and
- DTSC-recommended sub-slab soil gas-to-indoor air attenuation factor of 0.03 (DTSC and SWRCB 2020).

The attenuation factor does not account for bioattenuation of petroleum compounds.

Screening levels are based on cancer (CA) or noncancer (NC) health effects.

Detected concentrations that exceed screening levels are highlighted.

Table source is PathForward

Table 1. Soil Analytical Results - Arsenic
8996 Etiwanda Avenue, Rancho Cucamonga, California

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Arsenic
			Method Analysis	USEPA Method 6010B
			Unit	mg/kg
			HERO HHRA Note No. 3 – DTSC-SL	0.36
			Typical Range for California Soil[1]	0.6 - 11.0
CT3-2	CT3-2-0.5'^	0.5	10/14/2019	**14.3**
	CT3-2-2	2	9/9/2021	<2.44
	CT3-2-N-2	2	9/9/2021	<2.46
	CT3-2-E-2	2	9/9/2021	**5.34**
	CT3-2-W-2	2	9/9/2021	**4.34**
	CT3-2-S-2	2	11/30/2021	<2.59
CT3-6	CT3-6-0.5^	0.5	10/14/2019	**26.4**
	CT3-6-2	2	9/9/2021	<2.54
	CT3-6-S-2	2	9/9/2021	<2.40
	CT3-6-E-2	2	9/9/2021	<2.58
	CT3-6-W-2	2	9/9/2021	<2.51
	CT3-6-N-2	2	11/30/2021	<2.48

Notes:

bgs = below ground surface

USEPA = United States Environmental Protection Agency.

mg/kg = milligrams per kilogram

HERO HHRA Note No. 3 – DTSC-SL = California Department of Toxic Substances Control Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note Number 3 Modified Screening Levels, June 2020

[1] = Bradford, G.R., Chang, A.C., Page, A.L., Bakhtar, D., Frampton, J.A., and Wright, H., 1996, Background Concentrations of Trace and Major Elements in California Soils, Kearney Foundation of Soil Sciences Special Report, Division of Agriculture and Natural Resources, University of California.

^ = Sample collected by Ardent Environmental Group, Inc., 2019

Shading indicates concentration exceeds DTSC-SL and typical range for California soil.

Bold values denote concentrations exceeding the method reporting limit (MRL).

<X = Analyte not detected above the MRL shown (X)

Table 1
Summary of Units 3/4/5 Former Transformer Areas - Characterization Sampling Results
8996 Etiwanda Avenue, Rancho Cucamonga, CA

Location/ Boring ID	Sample ID	Sample Depth (feet bgs)	Sample Type	TPH Medium Aromatic (C9-C16)	TPH Diesel (C13-C22)	TPH (C6-C44)	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
		Units		milligrams per kilogram (mg/kg)											
Unit 3 Transformer Area															
T3-4-5	T3-4-5-0	0	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.12	<0.050	<0.050
	T3-4-105-0	*0*	*Soil*	--	--	--	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*0.052*	*<0.050*	*<0.050*
	T3-4-5-0.5	0.5	Soil	900	6,300	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.064	<0.050	<0.050
	T3-4-5-1	1	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.048 J	<0.050	<0.050
	T3-4-5-2.5	2.5	Soil	6.6	170	--	--	--	--	--	--	--	--	--	--
T3-4-5NW	T-3-4-5NW-0.5	0.5	Soil	30	330	--	--	--	--	--	--	--	--	--	--
T3-4-5SW	T-3-4-5SW-0.5	0.5	Soil	<5.0	<5.0	--	--	--	--	--	--	--	--	--	--
	T-3-4-105SW-0.5	*0.5*	*Soil*	*<5.0*	*<5.0*	--	--	--	--	--	--	--	--	--	--
T3-4-6	T3-4-6-0	0	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-6-0.5	0.5	Soil	<4.9	<4.9	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-6-1	1	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-6-2.5	2.5	Soil	<4.9	<4.9	--	--	--	--	--	--	--	--	--	--
T3-4-7	T3-4-7-0	0	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.17	<0.050	<0.050
	T3-4-7-0.5	0.5	Soil	<5.0	<5.0	--	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	T3-4-7-1	1	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-7-2.5	2.5	Soil	<5.0	<5.0	--	--	--	--	--	--	--	--	--	--
T3-4-8	T3-4-8-0	0	Soil	--	--	--	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	0.069	<0.049	<0.049
	T3-4-8-0.5	0.5	Soil	<4.9	93	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.11	<0.050	<0.050
	T3-4-8-1	1	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.047 J	<0.050	<0.050
	T3-4-108-1	*1*	*Soil*	--	--	--	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*0.087*	*<0.050*	*<0.050*
	T3-4-8-2.5	2.5	Soil	<5.0	4.5 J	--	--	--	--	--	--	--	--	--	--
Unit-3-GSU-1	Unit-3-GSU-1	0	Concrete	--	--	12,000	<0.049	<0.049	<0.049	0.260	<0.049	<0.049	<0.049	<0.049	<0.049
Unit-3-GSU-2	Unit-3-GSU-2	0	Concrete	--	--	2,900	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
Unit 4 Transformer Area															
T3-4-1	T3-4-1-0	0	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	0.21	0.15	<0.050	<0.050
	T3-4-1-0.5	0.5	Soil	<5.0	<5.0	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-1-1	1	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	0.062	0.076	<0.050	<0.050
	T3-4-1-2.5	2.5	Soil	<5.0	<5.0	--	--	--	--	--	--	--	--	--	--
T3-4-2	T3-4-2-0	0	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	1.7	<0.050	<0.050	<0.050
	T3-4-2-0.5	0.5	Soil	<5.0	110	--	<0.050	<0.050	<0.050	<0.050	<0.050	0.10	0.13	<0.050	<0.050
	T3-4-2-1	1	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	0.61	<0.050	<0.050	<0.050
	T3-4-102-1	*1*	*Soil*	--	--	--	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*0.24*	*<0.050*	*<0.050*	*<0.050*
	T3-4-2-2.5	2.5	Soil	<5.0	<5.0	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
T3-4-2NE	T3-4-2NE-0	0	Soil	--	--	--	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	0.043 J	<0.049	<0.049
	T3-4-2NE-1	1	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
T3-4-2NW	T3-4-2NW-0	0	Soil	--	--	--	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	T3-4-2NW-1	1	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
T3-4-3	T3-4-3-0	0	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.038 J	<0.050	<0.050
	T3-4-3-0.5	0.5	Soil	<4.9	30	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.038 J	<0.050	<0.050
	T3-4-3-1	1	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.029 J	<0.050	<0.050
	T3-4-3-2.5	2.5	Soil	<4.9	14	--	--	--	--	--	--	--	--	--	--
T3-4-4	T3-4-4-0	0	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-4-0.5	0.5	Soil	190	3,000	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.027 J	<0.050	<0.050
	T3-4-4-1	1	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-4-2.5	2.5	Soil	<5.0	6.1	--	--	--	--	--	--	--	--	--	--
T3-4-4SE	T3-4-4SE-0.5	0.5	Soil	10	180	--	--	--	--	--	--	--	--	--	--
T3-4-4SW	T3-4-4SW-0.5	0.5	Soil	<5.0	24	--	--	--	--	--	--	--	--	--	--
Unit-4-GSU	Unit-4-GSU	0	Concrete	--	--	7.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Unit-4-TC-1	Unit-4-TC-1	0	Concrete	--	--	11,000	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Unit-4-TC-2	Unit-4-TC-2	0	Concrete	--	--	46,000	<0.050	<0.050	<0.050	<0.050	<0.050	0.086	0.075	<0.050	<0.050
Unit 5 Transformer Area															
PT1-1	PT1-1-0	0	Soil	--	--	--	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	PT1-1-0.5	0.5	Soil	<4.9	4.3 J	--	<0.050	<0.050	<0.050	<0.050	<0.050	0.051	0.032 J	<0.050	<0.050
	PT1-1-1	1	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	0.062	0.036 J	<0.050	<0.050
	PT1-101-1	*1*	*Soil*	--	--	--	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*0.15*	*0.078*	*<0.050*	*<0.050*
	PT1-1-2.5	2.5	Soil	<4.9	<4.9	--	--	--	--	--	--	--	--	--	--
PT1-2	PT1-2-0	0	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	PT1-2-0.5	0.5	Soil	<4.9	100	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.029 J	<0.050	<0.050
	PT1-2-1	1	Soil	--	--	--	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	PT1-2-2.5	2.5	Soil	6.9	43	--	--	--	--	--	--	--	--	--	--
PT1-3	PT1-3-0	0	Soil	--	--	--	<0.049	<0.049	<0.049	<0.049	<0.049	1.4	0.50	<0.049	<0.049
	PT1-3-0.5	0.5	Soil	<9.8	18	--	<0.050	<0.050	<0.050	<0.050	<0.050	1.8	0.65	<0.050	<0.050
	PT1-3-1	1	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	6.9	1.5	<0.050	<0.050
	PT1-3-2.5	2.5	Soil	<4.9	11	--	<0.050	<0.050	<0.050	<0.050	<0.050	0.067	0.035 J	<0.050	<0.050
PT1-3E	PTI-3E-0	0	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	0.23	<0.050	<0.050	<0.050
	PTI-3E-0.5	0.5	Soil	--	--	--	<0.049	<0.049	<0.049	<0.049	<0.049	0.11	<0.049	<0.049	<0.049
	PTI-3E-1	1	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
PT1-3S	PTI-3S-0	0	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	0.059	<0.050	<0.050	<0.050
	PTI-3S-0.5	0.5	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	0.029 J	<0.050	<0.050	<0.050
	PTI-3S-1	1	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	0.048 J	<0.050	<0.050	<0.050
PT1-4	PT1-4-0	0	Soil	--	--	--	<0.049	<0.049	<0.049	<0.049	<0.049	0.21	0.17	<0.049	<0.049
	PT1-4-0.5	0.5	Soil	<4.9	9.0	--	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	0.12	<0.049	<0.049
	PT1-4-1	1	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	0.93	0.33	<0.050	<0.050
	PT1-104-1	*1*	*Soil*	--	--	--	*<0.049*	*<0.049*	*<0.049*	*<0.049*	*<0.049*	*0.33*	*0.19*	*<0.049*	*<0.049*
	PT1-4-2.5	2.5	Soil	<4.9	<4.9	--	<0.050	<0.050	<0.050	<0.050	<0.050	0.030 J	<0.050	<0.050	<0.050
PT1-4E	PTI-4E-0	0	Soil	--	--	--	<0.049	<0.049	<0.049	<0.049	<0.049	0.081	<0.049	<0.049	<0.049
	PTI-4E-0.5	0.5	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	0.46	<0.050	<0.050	<0.050
	PTI-4E-1	1	Soil	--	--	--	<0.049	<0.049	<0.049	<0.049	<0.049	0.18	<0.049	<0.049	<0.049

Table 1
Summary of Units 3/4/5 Former Transformer Areas - Characterization Sampling Results
8996 Etiwanda Avenue, Rancho Cucamonga, CA

Location/ Boring ID	Sample ID	Sample Depth (feet bgs)	Sample Type	TPH Medium Aromatic (C9-C16)	TPH Diesel (C13-C22)	TPH (C6-C44)	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
			Units	milligrams per kilogram (mg/kg)											
Unit 3 Transformer Area															
PT1-4N	PTI-4N-0	0	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	0.031 J	<0.050	<0.050	<0.050
	PTI-4N-0.5	0.5	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	0.027 J	<0.050	<0.050	<0.050
	PTI-4N-1	1	Soil	--	--	--	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
RPT1-5	RPT1-5-2.5	2.5	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
RPT1-6	RPT1-6-3.5	3.5	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
RPT1-7	RPT1-7-SF	0	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	RPT1-7-0.5	0.5	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	RPT1-7-1	1	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
RPT1-8	RPT1-8-2.5	2.5	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
RPT1-9	RPT1-9-2.5	2.5	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
RPT1-10	RPT1-10-SF	0	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	RPT1-10-0.5	0.5	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	RPT1-10-1	1	Soil	--	--	--	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Unit-5-T(E)	Unit-5-T(E)	0	Concrete	--	--	180	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Unit-5-T(W)	Unit-5-T(W)	0	Concrete	--	--	960	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Notes:
TPH = Total petroleum hydrocarbons
Shaded cells indicate sample results from Northgate Environmental Management, Inc. Draft RCRA Facility Investigation, October 14, 2021.
-- = Not analyzed
Italics = Duplicate sample

Table 2
Summary of Units 3/4/5 Former Transformer Areas - Confirmation Sampling Results
8996 Etiwanda Avenue, Rancho Cucamonga, CA

Location/ Boring ID	Sample ID	Sample Depth (feet bgs)	Sample Description	TPH (C6-C44)	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
			Units										
Unit 3 Former Transformer Excavation Area													
Unit 3 Excavation Area	T3-4-S1	2.5	Sidewall (north)	10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-S2	2.5	Sidewall (east)	21	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-S3	2.5	Sidewall (south)	21	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-S3-DUP	*2.5*	*Sidewall (south)*	*12*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*
	T3-4-S4	2.5	Sidewall (west)	20	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-B1	2.5	Bottom	16	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Unit 4 Former Transformer Excavation Area													
Unit 4 Excavation Area	T3-4-S5	2.5	Sidewall (north)	12	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-S6	2.5	Sidewall (east)	460	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-S7	2.5	Sidewall (south)	14	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-S7-DUP	*2.5*	*Sidewall (south)*	*10*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*
	T3-4-S8	2.5	Sidewall (west)	25	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-B2	2.5	Bottom	9.8	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Unit 5 Former Transformer Excavation Area													
Unit 5 Excavation Area	RPT1-S1	2.5	Sidewall (north)	9.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	RPT1-S2	2.5	Sidewall (east)	13	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	RPT1-S2-DUP	*2.5*	*Sidewall (east)*	*8.5*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*
	RPT1-S3	2.5	Sidewall (south)	210	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	RPT1-S4	2.5	Sidewall (west)	18	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	RPT1-B1	2.5	Bottom	<4.8	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Notes:
TPH = Total petroleum hydrocarbons
-- = Not analyzed
Italics = Duplicate sample

Table 1
Summary of PCBs in Soil; Discrete Characterization Sample Results (June-November 2022)
8996 Etiwanda Avenue, Rancho Cucamonga, CA

Sample ID	Date Sampled	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268	Total PCBs
Analytical Method		USEPA 8082									
Unit		milligrams per kilogram (mg/kg)									
Target Characterization Level		No cleanup level established									**0.58**
UNIT 2 LT											
UNIT-2-LT-15B	9/15/2022	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
UNIT-2-LT-15C	9/15/2022	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Unit-2-LT-20D	9/16/2022	<0.10	<0.10	<0.10	<0.10	<0.10	0.57	<0.10	<0.10	<0.10	0.57
Unit-2-LT-20N	11/3/2022	<0.055	<0.055	<0.055	<0.055	<0.055	<0.06	0.38	<0.055	<0.055	0.38
Unit-2-LT-25C	9/29/2022	<0.10	<0.10	<0.10	<0.10	<0.10	0.77	0.45	<0.10	<0.10	**1.2**
Unit-2-LT-25E	9/30/2022	<0.052	<0.052	<0.052	<0.052	<0.052	0.064	<0.052	<0.052	<0.052	0.064
Unit-2-LT-25F	10/27/2022	<0.110	<0.110	<0.110	<0.110	<0.110	0.46	0.42	<0.110	0.160	**1.04**
Unit-2-LT-25G	11/3/2022	<0.600	<0.600	<0.600	<0.600	<0.600	1.30	1.90	<0.600	<0.600	**3.2**
Unit-2-LT-30A	9/29/2022	<0.10	<0.10	<0.10	<0.10	<0.10	750	<0.10	<0.10	<0.10	**750**
Unit-2-LT-30C	9/30/2022	<0.052	<0.052	<0.052	<0.052	0.082	1.4	0.93	<0.052	<0.052	**2.4**
Unit-2-LT-30F	10/12/2022	<0.050	<0.050	<0.050	<0.050	<0.050	0.10	0.11	<0.050	<0.050	0.21
Unit-2-LT-30H	10/27/2022	<0.055	<0.055	<0.055	<0.055	<0.055	0.40	0.49	<0.055	0.200	**1.09**
Unit-2-LT-30I	10/27/2022	<0.060	<0.060	<0.060	<0.060	<0.060	<0.06	1.90	<0.060	<0.060	**1.9**
Unit-2-LT-30J	11/3/2022	<0.610	<0.610	<0.610	<0.610	<0.610	0.71	1.60	<0.610	<0.610	**2.31**
Unit-2-LT-35A	9/30/2022	<0.053	<0.053	<0.053	<0.053	<0.053	0.77	0.38	<0.053	<0.053	**1.2**
Unit-2-LT-35D	10/12/2022	<0.051	<0.051	<0.051	<0.051	<0.051	1.00	0.31	<0.051	<0.051	**1.3**
Unit-2-LT-35E	10/12/2022	<0.052	<0.052	<0.052	<0.052	<0.052	3.50	1.40	<0.052	<0.052	**4.9**
Unit-2-LT-35F	10/27/2022	<0.074	<0.074	<0.074	<0.074	<0.074	0.55	0.82	<0.074	0.350	**1.72**
Unit-2-LT-35G	10/27/2022	<0.056	<0.056	<0.056	<0.056	<0.056	0.53	0.49	<0.056	<0.056	**1.02**
Unit-2-LT-35H	10/27/2022	<0.066	<0.066	<0.066	<0.066	<0.066	2.80	3.50	<0.066	<0.066	**6.3**
Unit-2-LT-35I	11/3/2022	<0.610	<0.610	<0.610	<0.610	<0.610	0.67	1.50	<0.610	<0.610	**2.17**
Unit-2-LT-40B	10/12/2022	<0.052	<0.052	<0.052	<0.052	<0.052	0.23	0.19	<0.052	<0.052	0.42
Unit-2-LT-40B-DUP	*10/12/2022*	*<0.051*	*<0.051*	*<0.051*	*<0.051*	*<0.051*	*0.22*	*0.14*	*<0.051*	*<0.051*	*0.36*
Unit-2-LT-40C	10/12/2022	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055
Unit-2-LT-40C-DUP	*10/12/2022*	*<0.055*	*<0.055*	*<0.055*	*<0.055*	*<0.055*	*<0.055*	*<0.055*	*<0.055*	*<0.055*	*<0.055*
Unit-2-LT-40E	10/21/2022	<0.057	<0.057	<0.057	<0.057	<0.057	3.10	1.60	<0.057	<0.057	**4.7**
Unit-2-LT-40F	10/27/2022	<0.060	<0.060	<0.060	<0.060	<0.060	0.46	0.84	<0.060	0.310	**1.61**
Unit-2-LT-40G	10/27/2022	<0.056	<0.056	<0.056	<0.056	<0.056	2.50	2.10	<0.056	<0.056	**4.6**
Unit-2-LT-40I	11/3/2022	<0.063	<0.063	<0.063	<0.063	<0.063	0.21	0.25	<0.063	<0.063	0.46
Unit-2-LT-45A	10/12/2022	<0.051	<0.051	<0.051	<0.051	<0.051	0.12	0.14	<0.051	<0.051	0.26
Unit-2-LT-45C	10/21/2022	<0.055	<0.055	<0.055	<0.055	<0.055	<0.06	<0.06	<0.055	<0.055	<0.055
Unit-2-LT-45E	10/27/2022	<0.055	<0.055	<0.055	<0.055	<0.055	0.58	1.10	<0.055	0.580	**2.26**
Unit-2-LT-45F	10/27/2022	<0.055	<0.055	<0.055	<0.055	<0.055	1.70	1.90	<0.055	<0.055	**3.6**
Unit-2-LT-45H	11/3/2022	<0.300	<0.300	<0.300	<0.300	<0.300	0.88	1.40	<0.300	<0.300	**2.28**
Unit-2-LT-50A	10/21/2022	<0.052	<0.052	<0.052	<0.052	<0.052	0.22	0.16	<0.052	<0.052	0.38
Unit-2-LT-50C	10/27/2022	<0.053	<0.053	<0.053	<0.053	<0.053	<0.05	0.08	<0.053	<0.053	0.08
Unit-2-LT-50H	11/3/2022	<0.280	<0.280	<0.280	<0.280	<0.280	0.66	1.10	<0.280	<0.280	**1.76**
Unit-2-LT-55B	10/27/2022	<0.056	<0.056	<0.056	<0.056	<0.056	<0.06	0.19	<0.056	<0.056	0.19
Unit-2-LT-55B-DUP	*10/27/2022*	*<0.054*	*<0.054*	*<0.054*	*<0.054*	*<0.054*	*<0.05*	*0.12*	*<0.054*	*<0.054*	*0.12*

Note:
USEPA = United States Environmental Protection Agency
USEPA TSCA = USEPA Toxic Substances Control Act
Bolding indicates detection exceeds Target Characterization Level
Italics indicate duplicate sample

ATTACHMENT 2

ProUCL Output

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.13/2/2023 9:19:49 PM
From File	Final ProUCL Input_a.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

2-Butanone

General Statistics

Total Number of Observations	61	Number of Distinct Observations	33
		Number of Missing Observations	560
Number of Detects	26	Number of Non-Detects	35
Number of Distinct Detects	21	Number of Distinct Non-Detects	15
Minimum Detect	0.0036	Minimum Non-Detect	0.0043
Maximum Detect	0.051	Maximum Non-Detect	0.021
Variance Detects	9.5532E-5	Percent Non-Detects	57.38%
Mean Detects	0.0118	SD Detects	0.00977
Median Detects	0.0098	CV Detects	0.825
Skewness Detects	2.839	Kurtosis Detects	10.15
Mean of Logged Detects	-4.654	SD of Logged Detects	0.637

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.706	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.92	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.22	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.17	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.00856	KM Standard Error of Mean	0.00105
KM SD	0.00738	95% KM (BCA) UCL	0.0103
95% KM (t) UCL	0.0103	95% KM (Percentile Bootstrap) UCL	0.0104
95% KM (z) UCL	0.0103	95% KM Bootstrap t UCL	0.0109
90% KM Chebyshev UCL	0.0117	95% KM Chebyshev UCL	0.0131
97.5% KM Chebyshev UCL	0.0151	99% KM Chebyshev UCL	0.019

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.576	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.754	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.125	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.173	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	2.452	k star (bias corrected MLE)	2.195
Theta hat (MLE)	0.00483	Theta star (bias corrected MLE)	0.0054
nu hat (MLE)	127.5	nu star (bias corrected)	114.1
Mean (detects)	0.0118		

Gamma ROS Statistics using Imputed Non-Detects

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	0.0036				Mean	0.011	
60					Maximum	0.051				Median	0.01	
61					SD	0.00644				CV	0.583	
62					k hat (MLE)	5.212				k star (bias corrected MLE)	4.966	
63					Theta hat (MLE)	0.00212				Theta star (bias corrected MLE)	0.00222	
64					nu hat (MLE)	635.8				nu star (bias corrected)	605.9	
65					Adjusted Level of Significance (β)	0.0461						
66					Approximate Chi Square Value (605.91, α)	549.8				Adjusted Chi Square Value (605.91, β)	548.5	
67					95% Gamma Approximate UCL (use when n>=50)	0.0122				95% Gamma Adjusted UCL (use when n<50)	0.0122	
68												
69	**Estimates of Gamma Parameters using KM Estimates**											
70					Mean (KM)	0.00856				SD (KM)	0.00738	
71					Variance (KM)	5.4453E-5				SE of Mean (KM)	0.00105	
72					k hat (KM)	1.347				k star (KM)	1.292	
73					nu hat (KM)	164.4				nu star (KM)	157.6	
74					theta hat (KM)	0.00636				theta star (KM)	0.00663	
75					80% gamma percentile (KM)	0.0135				90% gamma percentile (KM)	0.0185	
76					95% gamma percentile (KM)	0.0235				99% gamma percentile (KM)	0.0348	
77												
78	**Gamma Kaplan-Meier (KM) Statistics**											
79					Approximate Chi Square Value (157.60, α)	129.6				Adjusted Chi Square Value (157.60, β)	129	
80					95% Gamma Approximate KM-UCL (use when n>=50)	0.0104				95% Gamma Adjusted KM-UCL (use when n<50)	0.0105	
81												
82	**Lognormal GOF Test on Detected Observations Only**											
83					Shapiro Wilk Test Statistic	0.963				**Shapiro Wilk GOF Test**		
84					5% Shapiro Wilk Critical Value	0.92				Detected Data appear Lognormal at 5% Significance Level		
85					Lilliefors Test Statistic	0.111				**Lilliefors GOF Test**		
86					5% Lilliefors Critical Value	0.17				Detected Data appear Lognormal at 5% Significance Level		
87	**Detected Data appear Lognormal at 5% Significance Level**											
88												
89	**Lognormal ROS Statistics Using Imputed Non-Detects**											
90					Mean in Original Scale	0.00834				Mean in Log Scale	-5.011	
91					SD in Original Scale	0.00737				SD in Log Scale	0.626	
92					95% t UCL (assumes normality of ROS data)	0.00991				95% Percentile Bootstrap UCL	0.0101	
93					95% BCA Bootstrap UCL	0.0104				95% Bootstrap t UCL	0.0107	
94					95% H-UCL (Log ROS)	0.00949						
95												
96	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
97					KM Mean (logged)	-4.983				KM Geo Mean	0.00686	
98					KM SD (logged)	0.617				95% Critical H Value (KM-Log)	1.941	
99					KM Standard Error of Mean (logged)	0.0979				95% H-UCL (KM -Log)	0.00968	
100					KM SD (logged)	0.617				95% Critical H Value (KM-Log)	1.941	
101					KM Standard Error of Mean (logged)	0.0979						
102												
103	**DL/2 Statistics**											
104	**DL/2 Normal**									**DL/2 Log-Transformed**		
105					Mean in Original Scale	0.00887				Mean in Log Scale	-4.944	
106					SD in Original Scale	0.00718				SD in Log Scale	0.664	

107	95% t UCL (Assumes normality)					0.0104	95% H-Stat UCL					0.0105
108	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
109												
110	**Nonparametric Distribution Free UCL Statistics**											
111	**Detected Data appear Gamma Distributed at 5% Significance Level**											
112												
113	**Suggested UCL to Use**											
114	95% KM Approximate Gamma UCL					0.0104	95% GROS Approximate Gamma UCL					0.0122
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												
121	**Acetone**											
122												
123	**General Statistics**											
124	Total Number of Observations					61	Number of Distinct Observations					39
125							Number of Missing Observations					560
126	Number of Detects					51	Number of Non-Detects					10
127	Number of Distinct Detects					35	Number of Distinct Non-Detects					7
128	Minimum Detect					0.011	Minimum Non-Detect					0.0094
129	Maximum Detect					0.24	Maximum Non-Detect					0.018
130	Variance Detects					0.00185	Percent Non-Detects					16.39%
131	Mean Detects					0.0445	SD Detects					0.043
132	Median Detects					0.027	CV Detects					0.967
133	Skewness Detects					2.571	Kurtosis Detects					8.175
134	Mean of Logged Detects					-3.42	SD of Logged Detects					0.744
135												
136	**Normal GOF Test on Detects Only**											
137	Shapiro Wilk Test Statistic					0.713	**Normal GOF Test on Detected Observations Only**					
138	5% Shapiro Wilk P Value					2.401E-12	Detected Data Not Normal at 5% Significance Level					
139	Lilliefors Test Statistic					0.25	**Lilliefors GOF Test**					
140	5% Lilliefors Critical Value					0.123	Detected Data Not Normal at 5% Significance Level					
141	**Detected Data Not Normal at 5% Significance Level**											
142												
143	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
144	KM Mean					0.0388	KM Standard Error of Mean					0.0053
145	KM SD					0.041	95% KM (BCA) UCL					0.048
146	95% KM (t) UCL					0.0477	95% KM (Percentile Bootstrap) UCL					0.0481
147	95% KM (z) UCL					0.0475	95% KM Bootstrap t UCL					0.0513
148	90% KM Chebyshev UCL					0.0547	95% KM Chebyshev UCL					0.0619
149	97.5% KM Chebyshev UCL					0.0719	99% KM Chebyshev UCL					0.0916
150												
151	**Gamma GOF Tests on Detected Observations Only**											
152	A-D Test Statistic					1.745	**Anderson-Darling GOF Test**					
153	5% A-D Critical Value					0.765	Detected Data Not Gamma Distributed at 5% Significance Level					
154	K-S Test Statistic					0.16	**Kolmogorov-Smirnov GOF**					
155	5% K-S Critical Value					0.126	Detected Data Not Gamma Distributed at 5% Significance Level					
156	**Detected Data Not Gamma Distributed at 5% Significance Level**											
157												
158	**Gamma Statistics on Detected Data Only**											
159	k hat (MLE)					1.773	k star (bias corrected MLE)					1.682

160					Theta hat (MLE)	0.0251				Theta star (bias corrected MLE)		0.0265
161					nu hat (MLE)	180.8				nu star (bias corrected)		171.5
162					Mean (detects)	0.0445						
163												
164	**Gamma ROS Statistics using Imputed Non-Detects**											
165	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
166	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)											
167	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
168	This is especially true when the sample size is small.											
169	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
170					Minimum	0.01				Mean		0.0388
171					Maximum	0.24				Median		0.024
172					SD	0.0413				CV		1.064
173					k hat (MLE)	1.511				k star (bias corrected MLE)		1.447
174					Theta hat (MLE)	0.0257				Theta star (bias corrected MLE)		0.0268
175					nu hat (MLE)	184.3				nu star (bias corrected)		176.6
176					Adjusted Level of Significance (β)	0.0461						
177					Approximate Chi Square Value (176.58, α)	146.8				Adjusted Chi Square Value (176.58, β)		146.2
178					95% Gamma Approximate UCL (use when n>=50)	0.0467				95% Gamma Adjusted UCL (use when n<50)		0.0469
179												
180	**Estimates of Gamma Parameters using KM Estimates**											
181					Mean (KM)	0.0388				SD (KM)		0.041
182					Variance (KM)	0.00168				SE of Mean (KM)		0.0053
183					k hat (KM)	0.895				k star (KM)		0.862
184					nu hat (KM)	109.2				nu star (KM)		105.2
185					theta hat (KM)	0.0433				theta star (KM)		0.045
186					80% gamma percentile (KM)	0.0631				90% gamma percentile (KM)		0.0927
187					95% gamma percentile (KM)	0.123				99% gamma percentile (KM)		0.193
188												
189	**Gamma Kaplan-Meier (KM) Statistics**											
190					Approximate Chi Square Value (105.19, α)	82.52				Adjusted Chi Square Value (105.19, β)		82.03
191					95% Gamma Approximate KM-UCL (use when n>=50)	0.0495				95% Gamma Adjusted KM-UCL (use when n<50)		0.0498
192												
193	**Lognormal GOF Test on Detected Observations Only**											
194					Shapiro Wilk Approximate Test Statistic	0.945				**Shapiro Wilk GOF Test**		
195					5% Shapiro Wilk P Value	0.0306				Detected Data Not Lognormal at 5% Significance Level		
196					Lilliefors Test Statistic	0.112				**Lilliefors GOF Test**		
197					5% Lilliefors Critical Value	0.123				Detected Data appear Lognormal at 5% Significance Level		
198	**Detected Data appear Approximate Lognormal at 5% Significance Level**											
199												
200	**Lognormal ROS Statistics Using Imputed Non-Detects**											
201					Mean in Original Scale	0.0383				Mean in Log Scale		-3.681
202					SD in Original Scale	0.0417				SD in Log Scale		0.908
203					95% t UCL (assumes normality of ROS data)	0.0472				95% Percentile Bootstrap UCL		0.0473
204					95% BCA Bootstrap UCL	0.0495				95% Bootstrap t UCL		0.0504
205					95% H-UCL (Log ROS)	0.0492						
206												
207	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
208					KM Mean (logged)	-3.618				KM Geo Mean		0.0268
209					KM SD (logged)	0.81				95% Critical H Value (KM-Log)		2.097
210					KM Standard Error of Mean (logged)	0.105				95% H-UCL (KM -Log)		0.0464
211					KM SD (logged)	0.81				95% Critical H Value (KM-Log)		2.097
212					KM Standard Error of Mean (logged)	0.105						

213												
214	**DL/2 Statistics**											
215	**DL/2 Normal**						**DL/2 Log-Transformed**					
216					Mean in Original Scale	0.0381				Mean in Log Scale	-3.709	
217					SD in Original Scale	0.0419				SD in Log Scale	0.95	
218					95% t UCL (Assumes normality)	0.0471				95% H-Stat UCL	0.0505	
219	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
220												
221	**Nonparametric Distribution Free UCL Statistics**											
222	**Detected Data appear Approximate Lognormal Distributed at 5% Significance Level**											
223												
224	**Suggested UCL to Use**											
225					KM H-UCL	0.0464						
226												
227	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
228	Recommendations are based upon data size, data distribution, and skewness.											
229	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
230	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
231												
232	**Aroclor-1254**											
233												
234	**General Statistics**											
235					Total Number of Observations	285				Number of Distinct Observations	62	
236										Number of Missing Observations	375	
237					Number of Detects	60				Number of Non-Detects	225	
238					Number of Distinct Detects	51				Number of Distinct Non-Detects	14	
239					Minimum Detect	0.0175				Minimum Non-Detect	0.01	
240					Maximum Detect	750				Maximum Non-Detect	0.2	
241					Variance Detects	9363				Percent Non-Detects	78.95%	
242					Mean Detects	12.98				SD Detects	96.76	
243					Median Detects	0.16				CV Detects	7.452	
244					Skewness Detects	7.745				Kurtosis Detects	59.99	
245					Mean of Logged Detects	-1.605				SD of Logged Detects	1.829	
246												
247	**Normal GOF Test on Detects Only**											
248					Shapiro Wilk Test Statistic	0.135	**Normal GOF Test on Detected Observations Only**					
249					5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level					
250					Lilliefors Test Statistic	0.522	**Lilliefors GOF Test**					
251					5% Lilliefors Critical Value	0.114	Detected Data Not Normal at 5% Significance Level					
252	**Detected Data Not Normal at 5% Significance Level**											
253												
254	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
255					KM Mean	2.746				KM Standard Error of Mean	2.649	
256					KM SD	44.34				95% KM (BCA) UCL	8.028	
257					95% KM (t) UCL	7.117				95% KM (Percentile Bootstrap) UCL	8.01	
258					95% KM (z) UCL	7.103				95% KM Bootstrap t UCL	369	
259					90% KM Chebyshev UCL	10.69				95% KM Chebyshev UCL	14.29	
260					97.5% KM Chebyshev UCL	19.29				99% KM Chebyshev UCL	29.1	
261												
262	**Gamma GOF Tests on Detected Observations Only**											
263					A-D Test Statistic	13.55	**Anderson-Darling GOF Test**					
264					5% A-D Critical Value	0.934	Detected Data Not Gamma Distributed at 5% Significance Level					
265					K-S Test Statistic	0.368	**Kolmogorov-Smirnov GOF**					

266	5% K-S Critical Value				0.129	Detected Data Not Gamma Distributed at 5% Significance Level						
267	**Detected Data Not Gamma Distributed at 5% Significance Level**											
268												
269	**Gamma Statistics on Detected Data Only**											
270	k hat (MLE)				0.18	k star (bias corrected MLE)						0.182
271	Theta hat (MLE)				72.33	Theta star (bias corrected MLE)						71.48
272	nu hat (MLE)				21.54	nu star (bias corrected)						21.8
273	Mean (detects)				12.98							
274												
275	**Gamma ROS Statistics using Imputed Non-Detects**											
276	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
277	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)											
278	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
279	This is especially true when the sample size is small.											
280	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
281	Minimum				0.01	Mean						2.741
282	Maximum				750	Median						0.01
283	SD				44.42	CV						16.2
284	k hat (MLE)				0.154	k star (bias corrected MLE)						0.154
285	Theta hat (MLE)				17.83	Theta star (bias corrected MLE)						17.75
286	nu hat (MLE)				87.62	nu star (bias corrected)						88.03
287	Adjusted Level of Significance (β)				0.0492							
288	Approximate Chi Square Value (88.03, α)				67.4	Adjusted Chi Square Value (88.03, β)						67.31
289	95% Gamma Approximate UCL (use when n>=50)				3.581	95% Gamma Adjusted UCL (use when n<50)						3.585
290												
291	**Estimates of Gamma Parameters using KM Estimates**											
292	Mean (KM)				2.746	SD (KM)						44.34
293	Variance (KM)				1966	SE of Mean (KM)						2.649
294	k hat (KM)				0.00384	k star (KM)						0.00613
295	nu hat (KM)				2.186	nu star (KM)						3.497
296	theta hat (KM)				716	theta star (KM)						447.7
297	80% gamma percentile (KM)				4.023E-14	90% gamma percentile (KM)						8.7746E-6
298	95% gamma percentile (KM)				0.059	99% gamma percentile (KM)						55.29
299												
300	**Gamma Kaplan-Meier (KM) Statistics**											
301	Approximate Chi Square Value (3.50, α)				0.534	Adjusted Chi Square Value (3.50, β)						0.528
302	95% Gamma Approximate KM-UCL (use when n>=50)				18	95% Gamma Adjusted KM-UCL (use when n<50)						18.18
303												
304	**Lognormal GOF Test on Detected Observations Only**											
305	Shapiro Wilk Approximate Test Statistic				0.885	**Shapiro Wilk GOF Test**						
306	5% Shapiro Wilk P Value				5.2708E-6	Detected Data Not Lognormal at 5% Significance Level						
307	Lilliefors Test Statistic				0.105	**Lilliefors GOF Test**						
308	5% Lilliefors Critical Value				0.114	Detected Data appear Lognormal at 5% Significance Level						
309	**Detected Data appear Approximate Lognormal at 5% Significance Level**											
310												
311	**Lognormal ROS Statistics Using Imputed Non-Detects**											
312	Mean in Original Scale				2.74	Mean in Log Scale						-5.471
313	SD in Original Scale				44.42	SD in Log Scale						2.941
314	95% t UCL (assumes normality of ROS data)				7.082	95% Percentile Bootstrap UCL						8
315	95% BCA Bootstrap UCL				10.69	95% Bootstrap t UCL						383.2
316	95% H-UCL (Log ROS)				0.666							
317												
318	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											

319				KM Mean (logged)	-3.721					KM Geo Mean	0.0242	
320				KM SD (logged)	1.447					95% Critical H Value (KM-Log)	2.543	
321				KM Standard Error of Mean (logged)	0.106					95% H-UCL (KM -Log)	0.0859	
322				KM SD (logged)	1.447					95% Critical H Value (KM-Log)	2.543	
323				KM Standard Error of Mean (logged)	0.106							
324												
325	**DL/2 Statistics**											
326	**DL/2 Normal**						**DL/2 Log-Transformed**					
327				Mean in Original Scale	2.752					Mean in Log Scale	-3.391	
328				SD in Original Scale	44.42					SD in Log Scale	1.325	
329				95% t UCL (Assumes normality)	7.094					95% H-Stat UCL	0.098	
330	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
331												
332	**Nonparametric Distribution Free UCL Statistics**											
333	**Detected Data appear Approximate Lognormal Distributed at 5% Significance Level**											
334												
335	**Suggested UCL to Use**											
336				KM H-UCL	0.0859							
337												
338	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
339	Recommendations are based upon data size, data distribution, and skewness.											
340	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
341	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
342												
343	**Aroclor-1260**											
344												
345	**General Statistics**											
346				Total Number of Observations	284					Number of Distinct Observations	73	
347										Number of Missing Observations	376	
348				Number of Detects	115					Number of Non-Detects	169	
349				Number of Distinct Detects	70					Number of Distinct Non-Detects	11	
350				Minimum Detect	0.0129					Minimum Non-Detect	0.01	
351				Maximum Detect	3.5					Maximum Non-Detect	0.2	
352				Variance Detects	0.316					Percent Non-Detects	59.51%	
353				Mean Detects	0.285					SD Detects	0.562	
354				Median Detects	0.063					CV Detects	1.967	
355				Skewness Detects	3.1					Kurtosis Detects	10.92	
356				Mean of Logged Detects	-2.346					SD of Logged Detects	1.3	
357												
358	**Normal GOF Test on Detects Only**											
359				Shapiro Wilk Test Statistic	0.526		**Normal GOF Test on Detected Observations Only**					
360				5% Shapiro Wilk P Value	0		Detected Data Not Normal at 5% Significance Level					
361				Lilliefors Test Statistic	0.359		**Lilliefors GOF Test**					
362				5% Lilliefors Critical Value	0.0829		Detected Data Not Normal at 5% Significance Level					
363	**Detected Data Not Normal at 5% Significance Level**											
364												
365	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
366				KM Mean	0.128					KM Standard Error of Mean	0.0226	
367				KM SD	0.379					95% KM (BCA) UCL	0.17	
368				95% KM (t) UCL	0.165					95% KM (Percentile Bootstrap) UCL	0.167	
369				95% KM (z) UCL	0.165					95% KM Bootstrap t UCL	0.178	
370				90% KM Chebyshev UCL	0.196					95% KM Chebyshev UCL	0.227	
371				97.5% KM Chebyshev UCL	0.269					99% KM Chebyshev UCL	0.353	

372												
373	**Gamma GOF Tests on Detected Observations Only**											
374					A-D Test Statistic	12.12	**Anderson-Darling GOF Test**					
375					5% A-D Critical Value	0.812	Detected Data Not Gamma Distributed at 5% Significance Level					
376					K-S Test Statistic	0.274	**Kolmogorov-Smirnov GOF**					
377					5% K-S Critical Value	0.0901	Detected Data Not Gamma Distributed at 5% Significance Level					
378	**Detected Data Not Gamma Distributed at 5% Significance Level**											
379												
380	**Gamma Statistics on Detected Data Only**											
381					k hat (MLE)	0.57				k star (bias corrected MLE)	0.561	
382					Theta hat (MLE)	0.501				Theta star (bias corrected MLE)	0.509	
383					nu hat (MLE)	131.1				nu star (bias corrected)	129	
384					Mean (detects)	0.285						
385												
386	**Gamma ROS Statistics using Imputed Non-Detects**											
387	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
388	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)											
389	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
390	This is especially true when the sample size is small.											
391	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
392					Minimum	0.01				Mean	0.122	
393					Maximum	3.5				Median	0.01	
394					SD	0.381				CV	3.126	
395					k hat (MLE)	0.417				k star (bias corrected MLE)	0.415	
396					Theta hat (MLE)	0.292				Theta star (bias corrected MLE)	0.294	
397					nu hat (MLE)	237				nu star (bias corrected)	235.8	
398					Adjusted Level of Significance (β)	0.0492						
399					Approximate Chi Square Value (235.84, α)	201.3				Adjusted Chi Square Value (235.84, β)	201.1	
400					95% Gamma Approximate UCL (use when n>=50)	0.143				95% Gamma Adjusted UCL (use when n<50)	0.143	
401												
402	**Estimates of Gamma Parameters using KM Estimates**											
403					Mean (KM)	0.128				SD (KM)	0.379	
404					Variance (KM)	0.144				SE of Mean (KM)	0.0226	
405					k hat (KM)	0.114				k star (KM)	0.116	
406					nu hat (KM)	64.98				nu star (KM)	65.63	
407					theta hat (KM)	1.12				theta star (KM)	1.109	
408					80% gamma percentile (KM)	0.108				90% gamma percentile (KM)	0.359	
409					95% gamma percentile (KM)	0.735				99% gamma percentile (KM)	1.892	
410												
411	**Gamma Kaplan-Meier (KM) Statistics**											
412					Approximate Chi Square Value (65.63, α)	47.99				Adjusted Chi Square Value (65.63, β)	47.91	
413					95% Gamma Approximate KM-UCL (use when n>=50)	0.175				95% Gamma Adjusted KM-UCL (use when n<50)	0.176	
414												
415	**Lognormal GOF Test on Detected Observations Only**											
416					Shapiro Wilk Approximate Test Statistic	0.853	**Shapiro Wilk GOF Test**					
417					5% Shapiro Wilk P Value	0	Detected Data Not Lognormal at 5% Significance Level					
418					Lilliefors Test Statistic	0.189	**Lilliefors GOF Test**					
419					5% Lilliefors Critical Value	0.0829	Detected Data Not Lognormal at 5% Significance Level					
420	**Detected Data Not Lognormal at 5% Significance Level**											
421												
422	**Lognormal ROS Statistics Using Imputed Non-Detects**											
423					Mean in Original Scale	0.125				Mean in Log Scale	-3.759	
424					SD in Original Scale	0.381				SD in Log Scale	1.701	

425				95% t UCL (assumes normality of ROS data)		0.162				95% Percentile Bootstrap UCL		0.166
426				95% BCA Bootstrap UCL		0.168				95% Bootstrap t UCL		0.174
427				95% H-UCL (Log ROS)		0.131						
428												
429	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
430				KM Mean (logged)		-3.356				KM Geo Mean		0.0349
431				KM SD (logged)		1.261				95% Critical H Value (KM-Log)		2.364
432				KM Standard Error of Mean (logged)		0.0868				95% H-UCL (KM -Log)		0.0922
433				KM SD (logged)		1.261				95% Critical H Value (KM-Log)		2.364
434				KM Standard Error of Mean (logged)		0.0868						
435												
436	**DL/2 Statistics**											
437	**DL/2 Normal**						**DL/2 Log-Transformed**					
438				Mean in Original Scale		0.129				Mean in Log Scale		-3.28
439				SD in Original Scale		0.379				SD in Log Scale		1.216
440				95% t UCL (Assumes normality)		0.166				95% H-Stat UCL		0.0932
441	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
442												
443	**Nonparametric Distribution Free UCL Statistics**											
444	**Data do not follow a Discernible Distribution at 5% Significance Level**											
445												
446	**Suggested UCL to Use**											
447				95% KM (Chebyshev) UCL		0.227						
448												
449	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
450	Recommendations are based upon data size, data distribution, and skewness.											
451	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
452	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
453												
454	**Arsenic**											
455												
456	**General Statistics**											
457				Total Number of Observations		211				Number of Distinct Observations		151
458										Number of Missing Observations		410
459				Number of Detects		146				Number of Non-Detects		65
460				Number of Distinct Detects		127				Number of Distinct Non-Detects		27
461				Minimum Detect		0.304				Minimum Non-Detect		0.258
462				Maximum Detect		11.6				Maximum Non-Detect		2.59
463				Variance Detects		7.161				Percent Non-Detects		30.81%
464				Mean Detects		2.76				SD Detects		2.676
465				Median Detects		1.83				CV Detects		0.97
466				Skewness Detects		1.714				Kurtosis Detects		2.523
467				Mean of Logged Detects		0.587				SD of Logged Detects		0.956
468												
469	**Normal GOF Test on Detects Only**											
470				Shapiro Wilk Test Statistic		0.781	**Normal GOF Test on Detected Observations Only**					
471				5% Shapiro Wilk P Value		0	Detected Data Not Normal at 5% Significance Level					
472				Lilliefors Test Statistic		0.186	**Lilliefors GOF Test**					
473				5% Lilliefors Critical Value		0.0737	Detected Data Not Normal at 5% Significance Level					
474	**Detected Data Not Normal at 5% Significance Level**											
475												
476	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
477				KM Mean		2.065				KM Standard Error of Mean		0.17

478					KM SD	2.458				95% KM (BCA) UCL		2.344
479					95% KM (t) UCL	2.346				95% KM (Percentile Bootstrap) UCL		2.344
480					95% KM (z) UCL	2.345				95% KM Bootstrap t UCL		2.37
481					90% KM Chebyshev UCL	2.576				95% KM Chebyshev UCL		2.807
482					97.5% KM Chebyshev UCL	3.129				99% KM Chebyshev UCL		3.76
483												
484					**Gamma GOF Tests on Detected Observations Only**							
485					A-D Test Statistic	1.427	**Anderson-Darling GOF Test**					
486					5% A-D Critical Value	0.775	Detected Data Not Gamma Distributed at 5% Significance Level					
487					K-S Test Statistic	0.0788	**Kolmogorov-Smirnov GOF**					
488					5% K-S Critical Value	0.0794	Detected data appear Gamma Distributed at 5% Significance Level					
489					**Detected data follow Appr. Gamma Distribution at 5% Significance Level**							
490												
491					**Gamma Statistics on Detected Data Only**							
492					k hat (MLE)	1.308				k star (bias corrected MLE)		1.286
493					Theta hat (MLE)	2.11				Theta star (bias corrected MLE)		2.146
494					nu hat (MLE)	382				nu star (bias corrected)		375.5
495					Mean (detects)	2.76						
496												
497					**Gamma ROS Statistics using Imputed Non-Detects**							
498					GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs							
499					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)							
500					For such situations, GROS method may yield incorrect values of UCLs and BTVs							
501					This is especially true when the sample size is small.							
502					For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates							
503					Minimum	0.01				Mean		1.963
504					Maximum	11.6				Median		1.06
505					SD	2.528				CV		1.288
506					k hat (MLE)	0.513				k star (bias corrected MLE)		0.509
507					Theta hat (MLE)	3.827				Theta star (bias corrected MLE)		3.858
508					nu hat (MLE)	216.5				nu star (bias corrected)		214.8
509					Adjusted Level of Significance (β)	0.0489						
510					Approximate Chi Square Value (214.77, α)	181.9				Adjusted Chi Square Value (214.77, β)		181.6
511					95% Gamma Approximate UCL (use when n>=50)	2.319				95% Gamma Adjusted UCL (use when n<50)		2.322
512												
513					**Estimates of Gamma Parameters using KM Estimates**							
514					Mean (KM)	2.065				SD (KM)		2.458
515					Variance (KM)	6.041				SE of Mean (KM)		0.17
516					k hat (KM)	0.706				k star (KM)		0.699
517					nu hat (KM)	297.8				nu star (KM)		294.9
518					theta hat (KM)	2.926				theta star (KM)		2.955
519					80% gamma percentile (KM)	3.394				90% gamma percentile (KM)		5.185
520					95% gamma percentile (KM)	7.032				99% gamma percentile (KM)		11.44
521												
522					**Gamma Kaplan-Meier (KM) Statistics**							
523					Approximate Chi Square Value (294.94, α)	256.2				Adjusted Chi Square Value (294.94, β)		255.9
524					95% Gamma Approximate KM-UCL (use when n>=50)	2.378				95% Gamma Adjusted KM-UCL (use when n<50)		2.38
525												
526					**Lognormal GOF Test on Detected Observations Only**							
527					Shapiro Wilk Approximate Test Statistic	0.953	**Shapiro Wilk GOF Test**					
528					5% Shapiro Wilk P Value	3.3902E-4	Detected Data Not Lognormal at 5% Significance Level					
529					Lilliefors Test Statistic	0.0566	**Lilliefors GOF Test**					
530					5% Lilliefors Critical Value	0.0737	Detected Data appear Lognormal at 5% Significance Level					

	A	B	C	D	E	F	G	H	I	J	K	L
531	**Detected Data appear Approximate Lognormal at 5% Significance Level**											
532												
533	**Lognormal ROS Statistics Using Imputed Non-Detects**											
534					Mean in Original Scale	2.054			Mean in Log Scale	0.125		
535					SD in Original Scale	2.467			SD in Log Scale	1.106		
536				95% t UCL (assumes normality of ROS data)		2.335			95% Percentile Bootstrap UCL	2.327		
537					95% BCA Bootstrap UCL	2.348			95% Bootstrap t UCL	2.365		
538					95% H-UCL (Log ROS)	2.478						
539												
540	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
541					KM Mean (logged)	0.147			KM Geo Mean	1.159		
542					KM SD (logged)	1.07			95% Critical H Value (KM-Log)	2.205		
543					KM Standard Error of Mean (logged)	0.0772			95% H-UCL (KM -Log)	2.416		
544					KM SD (logged)	1.07			95% Critical H Value (KM-Log)	2.205		
545					KM Standard Error of Mean (logged)	0.0772						
546												
547	**DL/2 Statistics**											
548					**DL/2 Normal**				**DL/2 Log-Transformed**			
549					Mean in Original Scale	2.074			Mean in Log Scale	0.163		
550					SD in Original Scale	2.456			SD in Log Scale	1.072		
551					95% t UCL (Assumes normality)	2.353			95% H-Stat UCL	2.46		
552	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
553												
554	**Nonparametric Distribution Free UCL Statistics**											
555	**Detected Data appear Approximate Gamma Distributed at 5% Significance Level**											
556												
557	**Suggested UCL to Use**											
558					95% KM Approximate Gamma UCL	2.378			95% GROS Approximate Gamma UCL	2.319		
559												
560	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
561	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
562												
563	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
564	Recommendations are based upon data size, data distribution, and skewness.											
565	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
566	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
567												
568												
569	**Barium**											
570												
571	**General Statistics**											
572					Total Number of Observations	88			Number of Distinct Observations	74		
573									Number of Missing Observations	533		
574					Minimum	37.4			Mean	98.95		
575					Maximum	271			Median	96.9		
576					SD	35.81			Std. Error of Mean	3.817		
577					Coefficient of Variation	0.362			Skewness	1.156		
578												
579	**Normal GOF Test**											
580					Shapiro Wilk Test Statistic	0.936			**Shapiro Wilk GOF Test**			
581					5% Shapiro Wilk P Value	3.0770E-4			Data Not Normal at 5% Significance Level			
582					Lilliefors Test Statistic	0.0641			**Lilliefors GOF Test**			
583					5% Lilliefors Critical Value	0.0946			Data appear Normal at 5% Significance Level			

584	**Data appear Approximate Normal at 5% Significance Level**											
585												
586	**Assuming Normal Distribution**											
587	**95% Normal UCL**						**95% UCLs (Adjusted for Skewness)**					
588	95% Student's-t UCL				105.3		95% Adjusted-CLT UCL (Chen-1995)					105.7
589							95% Modified-t UCL (Johnson-1978)					105.4
590												
591	**Gamma GOF Test**											
592	A-D Test Statistic				0.589		**Anderson-Darling Gamma GOF Test**					
593	5% A-D Critical Value				0.753		Detected data appear Gamma Distributed at 5% Significance Level					
594	K-S Test Statistic				0.0712		**Kolmogorov-Smirnov Gamma GOF Test**					
595	5% K-S Critical Value				0.0954		Detected data appear Gamma Distributed at 5% Significance Level					
596	**Detected data appear Gamma Distributed at 5% Significance Level**											
597												
598	**Gamma Statistics**											
599	k hat (MLE)				7.826		k star (bias corrected MLE)					7.567
600	Theta hat (MLE)				12.64		Theta star (bias corrected MLE)					13.08
601	nu hat (MLE)				1377		nu star (bias corrected)					1332
602	MLE Mean (bias corrected)				98.95		MLE Sd (bias corrected)					35.97
603							Approximate Chi Square Value (0.05)					1248
604	Adjusted Level of Significance				0.0473		Adjusted Chi Square Value					1247
605												
606	**Assuming Gamma Distribution**											
607	95% Approximate Gamma UCL (use when n>=50))				105.6		95% Adjusted Gamma UCL (use when n<50)					105.7
608												
609	**Lognormal GOF Test**											
610	Shapiro Wilk Test Statistic				0.96		**Shapiro Wilk Lognormal GOF Test**					
611	5% Shapiro Wilk P Value				0.0362		Data Not Lognormal at 5% Significance Level					
612	Lilliefors Test Statistic				0.094		**Lilliefors Lognormal GOF Test**					
613	5% Lilliefors Critical Value				0.0946		Data appear Lognormal at 5% Significance Level					
614	**Data appear Approximate Lognormal at 5% Significance Level**											
615												
616	**Lognormal Statistics**											
617	Minimum of Logged Data				3.622		Mean of logged Data					4.529
618	Maximum of Logged Data				5.602		SD of logged Data					0.373
619												
620	**Assuming Lognormal Distribution**											
621	95% H-UCL				106.7		90% Chebyshev (MVUE) UCL					111.5
622	95% Chebyshev (MVUE) UCL				117		97.5% Chebyshev (MVUE) UCL					124.7
623	99% Chebyshev (MVUE) UCL				139.7							
624												
625	**Nonparametric Distribution Free UCL Statistics**											
626	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
627												
628	**Nonparametric Distribution Free UCLs**											
629	95% CLT UCL				105.2		95% Jackknife UCL					105.3
630	95% Standard Bootstrap UCL				105.1		95% Bootstrap-t UCL					105.5
631	95% Hall's Bootstrap UCL				106.3		95% Percentile Bootstrap UCL					105
632	95% BCA Bootstrap UCL				106							
633	90% Chebyshev(Mean, Sd) UCL				110.4		95% Chebyshev(Mean, Sd) UCL					115.6
634	97.5% Chebyshev(Mean, Sd) UCL				122.8		99% Chebyshev(Mean, Sd) UCL					136.9
635												
636	**Suggested UCL to Use**											

637					95% Student's-t UCL	105.3						
638												
639	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
640	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
641												
642	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
643	Recommendations are based upon data size, data distribution, and skewness.											
644	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
645	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
646												
647	**Benzene**											
648												
649	**General Statistics**											
650					Total Number of Observations	61				Number of Distinct Observations	44	
651										Number of Missing Observations	560	
652					Number of Detects	38				Number of Non-Detects	23	
653					Number of Distinct Detects	29				Number of Distinct Non-Detects	19	
654					Minimum Detect	2.3000E-4				Minimum Non-Detect	2.5000E-4	
655					Maximum Detect	9.0000E-4				Maximum Non-Detect	9.4000E-4	
656					Variance Detects	3.7277E-8				Percent Non-Detects	37.7%	
657					Mean Detects	4.7868E-4				SD Detects	1.9307E-4	
658					Median Detects	4.3000E-4				CV Detects	0.403	
659					Skewness Detects	0.603				Kurtosis Detects	-0.716	
660					Mean of Logged Detects	-7.723				SD of Logged Detects	0.402	
661												
662	**Normal GOF Test on Detects Only**											
663					Shapiro Wilk Test Statistic	0.915				**Shapiro Wilk GOF Test**		
664					5% Shapiro Wilk Critical Value	0.938				Detected Data Not Normal at 5% Significance Level		
665					Lilliefors Test Statistic	0.158				**Lilliefors GOF Test**		
666					5% Lilliefors Critical Value	0.142				Detected Data Not Normal at 5% Significance Level		
667	**Detected Data Not Normal at 5% Significance Level**											
668												
669	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
670					KM Mean	4.4953E-4				KM Standard Error of Mean	2.8504E-5	
671					KM SD	1.8754E-4				95% KM (BCA) UCL	4.9446E-4	
672					95% KM (t) UCL	4.9715E-4				95% KM (Percentile Bootstrap) UCL	4.9604E-4	
673					95% KM (z) UCL	4.9641E-4				95% KM Bootstrap t UCL	4.9801E-4	
674					90% KM Chebyshev UCL	5.3504E-4				95% KM Chebyshev UCL	5.7377E-4	
675					97.5% KM Chebyshev UCL	6.2754E-4				99% KM Chebyshev UCL	7.3314E-4	
676												
677	**Gamma GOF Tests on Detected Observations Only**											
678					A-D Test Statistic	0.645				**Anderson-Darling GOF Test**		
679					5% A-D Critical Value	0.75				Detected data appear Gamma Distributed at 5% Significance Level		
680					K-S Test Statistic	0.111				**Kolmogorov-Smirnov GOF**		
681					5% K-S Critical Value	0.143				Detected data appear Gamma Distributed at 5% Significance Level		
682	**Detected data appear Gamma Distributed at 5% Significance Level**											
683												
684	**Gamma Statistics on Detected Data Only**											
685					k hat (MLE)	6.531				k star (bias corrected MLE)	6.033	
686					Theta hat (MLE)	7.3295E-5				Theta star (bias corrected MLE)	7.9346E-5	
687					nu hat (MLE)	496.3				nu star (bias corrected)	458.5	
688					Mean (detects)	4.7868E-4						
689												

690	**Gamma ROS Statistics using Imputed Non-Detects**											
691	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
692	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)											
693	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
694	This is especially true when the sample size is small.											
695	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
696					Minimum	2.3000E-4				Mean	0.00407	
697					Maximum	0.01				Median	6.9000E-4	
698					SD	0.00466				CV	1.144	
699					k hat (MLE)	0.593				k star (bias corrected MLE)	0.575	
700					Theta hat (MLE)	0.00686				Theta star (bias corrected MLE)	0.00707	
701					nu hat (MLE)	72.39				nu star (bias corrected)	70.17	
702					Adjusted Level of Significance (β)	0.0461						
703					Approximate Chi Square Value (70.17, α)	51.88				Adjusted Chi Square Value (70.17, β)	51.5	
704					95% Gamma Approximate UCL (use when n>=50)	0.0055				95% Gamma Adjusted UCL (use when n<50)	0.00554	
705												
706	**Estimates of Gamma Parameters using KM Estimates**											
707					Mean (KM)	4.4953E-4				SD (KM)	1.8754E-4	
708					Variance (KM)	3.5172E-8				SE of Mean (KM)	2.8504E-5	
709					k hat (KM)	5.745				k star (KM)	5.474	
710					nu hat (KM)	700.9				nu star (KM)	667.8	
711					theta hat (KM)	7.8243E-5				theta star (KM)	8.2125E-5	
712					80% gamma percentile (KM)	5.9824E-4				90% gamma percentile (KM)	7.0659E-4	
713					95% gamma percentile (KM)	8.0497E-4				99% gamma percentile (KM)	0.00101	
714												
715	**Gamma Kaplan-Meier (KM) Statistics**											
716					Approximate Chi Square Value (667.79, α)	608.8				Adjusted Chi Square Value (667.79, β)	607.5	
717					95% Gamma Approximate KM-UCL (use when n>=50)	4.9305E-4				95% Gamma Adjusted KM-UCL (use when n<50)	4.9415E-4	
718												
719	**Lognormal GOF Test on Detected Observations Only**											
720					Shapiro Wilk Test Statistic	0.942				**Shapiro Wilk GOF Test**		
721					5% Shapiro Wilk Critical Value	0.938				Detected Data appear Lognormal at 5% Significance Level		
722					Lilliefors Test Statistic	0.0962				**Lilliefors GOF Test**		
723					5% Lilliefors Critical Value	0.142				Detected Data appear Lognormal at 5% Significance Level		
724	**Detected Data appear Lognormal at 5% Significance Level**											
725												
726	**Lognormal ROS Statistics Using Imputed Non-Detects**											
727					Mean in Original Scale	4.3970E-4				Mean in Log Scale	-7.794	
728					SD in Original Scale	1.6658E-4				SD in Log Scale	0.358	
729					95% t UCL (assumes normality of ROS data)	4.7533E-4				95% Percentile Bootstrap UCL	4.7430E-4	
730					95% BCA Bootstrap UCL	4.7764E-4				95% Bootstrap t UCL	4.7981E-4	
731					95% H-UCL (Log ROS)	4.7709E-4						
732												
733	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
734					KM Mean (logged)	-7.791				KM Geo Mean	4.1338E-4	
735					KM SD (logged)	0.407				95% Critical H Value (KM-Log)	1.806	
736					KM Standard Error of Mean (logged)	0.0627				95% H-UCL (KM -Log)	4.9382E-4	
737					KM SD (logged)	0.407				95% Critical H Value (KM-Log)	1.806	
738					KM Standard Error of Mean (logged)	0.0627						
739												
740	**DL/2 Statistics**											
741	**DL/2 Normal**									**DL/2 Log-Transformed**		
742					Mean in Original Scale	4.3984E-4				Mean in Log Scale	-7.812	

743					SD in Original Scale	1.7416E-4				SD in Log Scale		0.426
744					95% t UCL (Assumes normality)	4.7709E-4				95% H-Stat UCL		4.9024E-4
745	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
746												
747	**Nonparametric Distribution Free UCL Statistics**											
748	**Detected Data appear Gamma Distributed at 5% Significance Level**											
749												
750	**Suggested UCL to Use**											
751					95% KM Approximate Gamma UCL	4.9305E-4				95% GROS Approximate Gamma UCL		0.0055
752												
753	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
754	Recommendations are based upon data size, data distribution, and skewness.											
755	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
756	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
757												
758	**Beryllium**											
759												
760	**General Statistics**											
761					Total Number of Observations	88				Number of Distinct Observations		23
762										Number of Missing Observations		533
763					Number of Detects	16				Number of Non-Detects		72
764					Number of Distinct Detects	13				Number of Distinct Non-Detects		10
765					Minimum Detect	0.216				Minimum Non-Detect		0.5
766					Maximum Detect	0.67				Maximum Non-Detect		1.04
767					Variance Detects	0.0156				Percent Non-Detects		81.82%
768					Mean Detects	0.504				SD Detects		0.125
769					Median Detects	0.55				CV Detects		0.248
770					Skewness Detects	-1.211				Kurtosis Detects		0.916
771					Mean of Logged Detects	-0.723				SD of Logged Detects		0.31
772												
773	**Normal GOF Test on Detects Only**											
774					Shapiro Wilk Test Statistic	0.875				**Shapiro Wilk GOF Test**		
775					5% Shapiro Wilk Critical Value	0.887				Detected Data Not Normal at 5% Significance Level		
776					Lilliefors Test Statistic	0.206				**Lilliefors GOF Test**		
777					5% Lilliefors Critical Value	0.213				Detected Data appear Normal at 5% Significance Level		
778	**Detected Data appear Approximate Normal at 5% Significance Level**											
779												
780	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
781					KM Mean	0.388				KM Standard Error of Mean		0.0376
782					KM SD	0.121				95% KM (BCA) UCL		0.452
783					95% KM (t) UCL	0.451				95% KM (Percentile Bootstrap) UCL		0.454
784					95% KM (z) UCL	0.45				95% KM Bootstrap t UCL		0.471
785					90% KM Chebyshev UCL	0.501				95% KM Chebyshev UCL		0.552
786					97.5% KM Chebyshev UCL	0.623				99% KM Chebyshev UCL		0.762
787												
788	**Gamma GOF Tests on Detected Observations Only**											
789					A-D Test Statistic	1.227				**Anderson-Darling GOF Test**		
790					5% A-D Critical Value	0.738				Detected Data Not Gamma Distributed at 5% Significance Level		
791					K-S Test Statistic	0.233				**Kolmogorov-Smirnov GOF**		
792					5% K-S Critical Value	0.215				Detected Data Not Gamma Distributed at 5% Significance Level		
793	**Detected Data Not Gamma Distributed at 5% Significance Level**											
794												
795	**Gamma Statistics on Detected Data Only**											

796					k hat (MLE)	13.13				k star (bias corrected MLE)		10.71
797					Theta hat (MLE)	0.0384				Theta star (bias corrected MLE)		0.0471
798					nu hat (MLE)	420.3				nu star (bias corrected)		342.8
799					Mean (detects)	0.504						
800												
801					**Gamma ROS Statistics using Imputed Non-Detects**							
802					GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs							
803					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)							
804					For such situations, GROS method may yield incorrect values of UCLs and BTVs							
805					This is especially true when the sample size is small.							
806					For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates							
807					Minimum	0.17				Mean		0.384
808					Maximum	0.67				Median		0.376
809					SD	0.104				CV		0.271
810					k hat (MLE)	13.55				k star (bias corrected MLE)		13.09
811					Theta hat (MLE)	0.0284				Theta star (bias corrected MLE)		0.0293
812					nu hat (MLE)	2384				nu star (bias corrected)		2304
813					Adjusted Level of Significance (β)	0.0473						
814					Approximate Chi Square Value (N/A, α)	2194				Adjusted Chi Square Value (N/A, β)		2192
815					95% Gamma Approximate UCL (use when n>=50)	0.404				95% Gamma Adjusted UCL (use when n<50)		0.404
816												
817					**Estimates of Gamma Parameters using KM Estimates**							
818					Mean (KM)	0.388				SD (KM)		0.121
819					Variance (KM)	0.0145				SE of Mean (KM)		0.0376
820					k hat (KM)	10.36				k star (KM)		10.02
821					nu hat (KM)	1824				nu star (KM)		1763
822					theta hat (KM)	0.0374				theta star (KM)		0.0387
823					80% gamma percentile (KM)	0.486				90% gamma percentile (KM)		0.551
824					95% gamma percentile (KM)	0.609				99% gamma percentile (KM)		0.728
825												
826					**Gamma Kaplan-Meier (KM) Statistics**							
827					Approximate Chi Square Value (N/A, α)	1667				Adjusted Chi Square Value (N/A, β)		1665
828					95% Gamma Approximate KM-UCL (use when n>=50)	0.411				95% Gamma Adjusted KM-UCL (use when n<50)		0.411
829												
830					**Lognormal GOF Test on Detected Observations Only**							
831					Shapiro Wilk Test Statistic	0.788				**Shapiro Wilk GOF Test**		
832					5% Shapiro Wilk Critical Value	0.887				Detected Data Not Lognormal at 5% Significance Level		
833					Lilliefors Test Statistic	0.241				**Lilliefors GOF Test**		
834					5% Lilliefors Critical Value	0.213				Detected Data Not Lognormal at 5% Significance Level		
835					**Detected Data Not Lognormal at 5% Significance Level**							
836												
837					**Lognormal ROS Statistics Using Imputed Non-Detects**							
838					Mean in Original Scale	0.375				Mean in Log Scale		-1.019
839					SD in Original Scale	0.104				SD in Log Scale		0.278
840					95% t UCL (assumes normality of ROS data)	0.393				95% Percentile Bootstrap UCL		0.394
841					95% BCA Bootstrap UCL	0.394				95% Bootstrap t UCL		0.394
842					95% H-UCL (Log ROS)	0.395						
843												
844					**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**							
845					KM Mean (logged)	-0.999				KM Geo Mean		0.368
846					KM SD (logged)	0.331				95% Critical H Value (KM-Log)		1.756
847					KM Standard Error of Mean (logged)	0.114				95% H-UCL (KM -Log)		0.414
848					KM SD (logged)	0.331				95% Critical H Value (KM-Log)		1.756

849	KM Standard Error of Mean (logged)					0.114						
850												
851	**DL/2 Statistics**											
852	**DL/2 Normal**						**DL/2 Log-Transformed**					
853	Mean in Original Scale					0.359	Mean in Log Scale					-1.092
854	SD in Original Scale					0.136	SD in Log Scale					0.364
855	95% t UCL (Assumes normality)					0.383	95% H-Stat UCL					0.384
856	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
857												
858	**Nonparametric Distribution Free UCL Statistics**											
859	**Detected Data appear Approximate Normal Distributed at 5% Significance Level**											
860												
861	**Suggested UCL to Use**											
862	95% KM (t) UCL					0.451						
863												
864	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
865	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
866												
867	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
868	Recommendations are based upon data size, data distribution, and skewness.											
869	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
870	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
871												
872	**Cadmium**											
873												
874	**General Statistics**											
875	Total Number of Observations					88	Number of Distinct Observations					31
876							Number of Missing Observations					533
877	Number of Detects					22	Number of Non-Detects					66
878	Number of Distinct Detects					20	Number of Distinct Non-Detects					12
879	Minimum Detect					0.24	Minimum Non-Detect					0.5
880	Maximum Detect					1.31	Maximum Non-Detect					1.04
881	Variance Detects					0.0861	Percent Non-Detects					75%
882	Mean Detects					0.537	SD Detects					0.293
883	Median Detects					0.416	CV Detects					0.546
884	Skewness Detects					1.61	Kurtosis Detects					1.909
885	Mean of Logged Detects					-0.733	SD of Logged Detects					0.46
886												
887	**Normal GOF Test on Detects Only**											
888	Shapiro Wilk Test Statistic					0.787	**Shapiro Wilk GOF Test**					
889	5% Shapiro Wilk Critical Value					0.911	Detected Data Not Normal at 5% Significance Level					
890	Lilliefors Test Statistic					0.279	**Lilliefors GOF Test**					
891	5% Lilliefors Critical Value					0.184	Detected Data Not Normal at 5% Significance Level					
892	**Detected Data Not Normal at 5% Significance Level**											
893												
894	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
895	KM Mean					0.414	KM Standard Error of Mean					0.0235
896	KM SD					0.174	95% KM (BCA) UCL					0.452
897	95% KM (t) UCL					0.453	95% KM (Percentile Bootstrap) UCL					0.453
898	95% KM (z) UCL					0.453	95% KM Bootstrap t UCL					0.46
899	90% KM Chebyshev UCL					0.485	95% KM Chebyshev UCL					0.517
900	97.5% KM Chebyshev UCL					0.561	99% KM Chebyshev UCL					0.648
901												

	A	B	C	D	E	F	G	H	I	J	K	L
902	**Gamma GOF Tests on Detected Observations Only**											
903					A-D Test Statistic	1.168	**Anderson-Darling GOF Test**					
904					5% A-D Critical Value	0.747	Detected Data Not Gamma Distributed at 5% Significance Level					
905					K-S Test Statistic	0.255	**Kolmogorov-Smirnov GOF**					
906					5% K-S Critical Value	0.186	Detected Data Not Gamma Distributed at 5% Significance Level					
907	**Detected Data Not Gamma Distributed at 5% Significance Level**											
908												
909	**Gamma Statistics on Detected Data Only**											
910					k hat (MLE)	4.619			k star (bias corrected MLE)			4.019
911					Theta hat (MLE)	0.116			Theta star (bias corrected MLE)			0.134
912					nu hat (MLE)	203.2			nu star (bias corrected)			176.8
913					Mean (detects)	0.537						
914												
915	**Gamma ROS Statistics using Imputed Non-Detects**											
916	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
917	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)											
918	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
919	This is especially true when the sample size is small.											
920	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
921					Minimum	0.0936			Mean			0.412
922					Maximum	1.31			Median			0.379
923					SD	0.197			CV			0.478
924					k hat (MLE)	5.357			k star (bias corrected MLE)			5.182
925					Theta hat (MLE)	0.0769			Theta star (bias corrected MLE)			0.0795
926					nu hat (MLE)	942.9			nu star (bias corrected)			912.1
927					Adjusted Level of Significance (β)	0.0473						
928					Approximate Chi Square Value (912.06, α)	843			Adjusted Chi Square Value (912.06, β)			841.9
929					95% Gamma Approximate UCL (use when n>=50)	0.446			95% Gamma Adjusted UCL (use when n<50)			0.447
930												
931	**Estimates of Gamma Parameters using KM Estimates**											
932					Mean (KM)	0.414			SD (KM)			0.174
933					Variance (KM)	0.0303			SE of Mean (KM)			0.0235
934					k hat (KM)	5.669			k star (KM)			5.483
935					nu hat (KM)	997.7			nu star (KM)			965.1
936					theta hat (KM)	0.0731			theta star (KM)			0.0755
937					80% gamma percentile (KM)	0.551			90% gamma percentile (KM)			0.651
938					95% gamma percentile (KM)	0.741			99% gamma percentile (KM)			0.932
939												
940	**Gamma Kaplan-Meier (KM) Statistics**											
941					Approximate Chi Square Value (965.07, α)	894			Adjusted Chi Square Value (965.07, β)			892.8
942					95% Gamma Approximate KM-UCL (use when n>=50)	0.447			95% Gamma Adjusted KM-UCL (use when n<50)			0.448
943												
944	**Lognormal GOF Test on Detected Observations Only**											
945					Shapiro Wilk Test Statistic	0.911	**Shapiro Wilk GOF Test**					
946					5% Shapiro Wilk Critical Value	0.911	Detected Data appear Lognormal at 5% Significance Level					
947					Lilliefors Test Statistic	0.231	**Lilliefors GOF Test**					
948					5% Lilliefors Critical Value	0.184	Detected Data Not Lognormal at 5% Significance Level					
949	**Detected Data appear Approximate Lognormal at 5% Significance Level**											
950												
951	**Lognormal ROS Statistics Using Imputed Non-Detects**											
952					Mean in Original Scale	0.424			Mean in Log Scale			-0.923
953					SD in Original Scale	0.18			SD in Log Scale			0.344
954					95% t UCL (assumes normality of ROS data)	0.456			95% Percentile Bootstrap UCL			0.458

955				95% BCA Bootstrap UCL	0.46					95% Bootstrap t UCL	0.463	
956				95% H-UCL (Log ROS)	0.45							
957												
958	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
959				KM Mean (logged)	-0.938					KM Geo Mean	0.392	
960				KM SD (logged)	0.305					95% Critical H Value (KM-Log)	1.745	
961				KM Standard Error of Mean (logged)	0.0513					95% H-UCL (KM -Log)	0.434	
962				KM SD (logged)	0.305					95% Critical H Value (KM-Log)	1.745	
963				KM Standard Error of Mean (logged)	0.0513							
964												
965	**DL/2 Statistics**											
966	**DL/2 Normal**						**DL/2 Log-Transformed**					
967				Mean in Original Scale	0.373					Mean in Log Scale	-1.082	
968				SD in Original Scale	0.198					SD in Log Scale	0.405	
969				95% t UCL (Assumes normality)	0.408					95% H-Stat UCL	0.398	
970	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
971												
972	**Nonparametric Distribution Free UCL Statistics**											
973	**Detected Data appear Approximate Lognormal Distributed at 5% Significance Level**											
974												
975	**Suggested UCL to Use**											
976				KM Student's t	0.432					KM H-UCL	0.434	
977												
978	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
979	Recommendations are based upon data size, data distribution, and skewness.											
980	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
981	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
982												
983												
984	**Chromium**											
985												
986	**General Statistics**											
987				Total Number of Observations	88					Number of Distinct Observations	76	
988										Number of Missing Observations	533	
989				Minimum	2.01					Mean	25.37	
990				Maximum	160					Median	27.2	
991				SD	21.42					Std. Error of Mean	2.283	
992				Coefficient of Variation	0.844					Skewness	2.865	
993												
994	**Normal GOF Test**											
995				Shapiro Wilk Test Statistic	0.779		**Shapiro Wilk GOF Test**					
996				5% Shapiro Wilk P Value	0		Data Not Normal at 5% Significance Level					
997				Lilliefors Test Statistic	0.138		**Lilliefors GOF Test**					
998				5% Lilliefors Critical Value	0.0946		Data Not Normal at 5% Significance Level					
999	**Data Not Normal at 5% Significance Level**											
1000												
1001	**Assuming Normal Distribution**											
1002	**95% Normal UCL**						**95% UCLs (Adjusted for Skewness)**					
1003				95% Student's-t UCL	29.17					95% Adjusted-CLT UCL (Chen-1995)	29.87	
1004										95% Modified-t UCL (Johnson-1978)	29.28	
1005												
1006	**Gamma GOF Test**											
1007				A-D Test Statistic	2.323		**Anderson-Darling Gamma GOF Test**					

1008	5% A-D Critical Value					0.771	Data Not Gamma Distributed at 5% Significance Level					
1009	K-S Test Statistic					0.166	**Kolmogorov-Smirnov Gamma GOF Test**					
1010	5% K-S Critical Value					0.0971	Data Not Gamma Distributed at 5% Significance Level					
1011	**Data Not Gamma Distributed at 5% Significance Level**											
1012												
1013	**Gamma Statistics**											
1014	k hat (MLE)					1.496	k star (bias corrected MLE)					1.453
1015	Theta hat (MLE)					16.96	Theta star (bias corrected MLE)					17.46
1016	nu hat (MLE)					263.3	nu star (bias corrected)					255.7
1017	MLE Mean (bias corrected)					25.37	MLE Sd (bias corrected)					21.05
1018							Approximate Chi Square Value (0.05)					219.7
1019	Adjusted Level of Significance					0.0473	Adjusted Chi Square Value					219.1
1020												
1021	**Assuming Gamma Distribution**											
1022	95% Approximate Gamma UCL (use when n>=50))					29.53	95% Adjusted Gamma UCL (use when n<50)					29.6
1023												
1024	**Lognormal GOF Test**											
1025	Shapiro Wilk Test Statistic					0.907	**Shapiro Wilk Lognormal GOF Test**					
1026	5% Shapiro Wilk P Value					6.1363E-7	Data Not Lognormal at 5% Significance Level					
1027	Lilliefors Test Statistic					0.205	**Lilliefors Lognormal GOF Test**					
1028	5% Lilliefors Critical Value					0.0946	Data Not Lognormal at 5% Significance Level					
1029	**Data Not Lognormal at 5% Significance Level**											
1030												
1031	**Lognormal Statistics**											
1032	Minimum of Logged Data					0.698	Mean of logged Data					2.864
1033	Maximum of Logged Data					5.075	SD of logged Data					0.95
1034												
1035	**Assuming Lognormal Distribution**											
1036	95% H-UCL					34.43	90% Chebyshev (MVUE) UCL					37.12
1037	95% Chebyshev (MVUE) UCL					41.56	97.5% Chebyshev (MVUE) UCL					47.72
1038	99% Chebyshev (MVUE) UCL					59.81						
1039												
1040	**Nonparametric Distribution Free UCL Statistics**											
1041	**Data do not follow a Discernible Distribution (0.05)**											
1042												
1043	**Nonparametric Distribution Free UCLs**											
1044	95% CLT UCL					29.13	95% Jackknife UCL					29.17
1045	95% Standard Bootstrap UCL					29.11	95% Bootstrap-t UCL					30.02
1046	95% Hall's Bootstrap UCL					31.52	95% Percentile Bootstrap UCL					29.22
1047	95% BCA Bootstrap UCL					29.84						
1048	90% Chebyshev(Mean, Sd) UCL					32.22	95% Chebyshev(Mean, Sd) UCL					35.32
1049	97.5% Chebyshev(Mean, Sd) UCL					39.63	99% Chebyshev(Mean, Sd) UCL					48.09
1050												
1051	**Suggested UCL to Use**											
1052	95% Chebyshev (Mean, Sd) UCL					35.32						
1053												
1054	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1055	Recommendations are based upon data size, data distribution, and skewness.											
1056	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1057	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
1058												
1059												
1060	**Cobalt**											

1061												
1062	**General Statistics**											
1063					Total Number of Observations	88				Number of Distinct Observations		83
1064										Number of Missing Observations		533
1065					Minimum	0.812				Mean		6.785
1066					Maximum	16				Median		7.145
1067					SD	2.851				Std. Error of Mean		0.304
1068					Coefficient of Variation	0.42				Skewness		0.409
1069												
1070	**Normal GOF Test**											
1071					Shapiro Wilk Test Statistic	0.962	**Shapiro Wilk GOF Test**					
1072					5% Shapiro Wilk P Value	0.05	Data Not Normal at 5% Significance Level					
1073					Lilliefors Test Statistic	0.0877	**Lilliefors GOF Test**					
1074					5% Lilliefors Critical Value	0.0946	Data appear Normal at 5% Significance Level					
1075	**Data appear Approximate Normal at 5% Significance Level**											
1076												
1077	**Assuming Normal Distribution**											
1078					**95% Normal UCL**					**95% UCLs (Adjusted for Skewness)**		
1079					95% Student's-t UCL	7.291				95% Adjusted-CLT UCL (Chen-1995)		7.3
1080										95% Modified-t UCL (Johnson-1978)		7.293
1081												
1082	**Gamma GOF Test**											
1083					A-D Test Statistic	1.684	**Anderson-Darling Gamma GOF Test**					
1084					5% A-D Critical Value	0.755	Data Not Gamma Distributed at 5% Significance Level					
1085					K-S Test Statistic	0.133	**Kolmogorov-Smirnov Gamma GOF Test**					
1086					5% K-S Critical Value	0.0956	Data Not Gamma Distributed at 5% Significance Level					
1087	**Data Not Gamma Distributed at 5% Significance Level**											
1088												
1089	**Gamma Statistics**											
1090					k hat (MLE)	4.906				k star (bias corrected MLE)		4.746
1091					Theta hat (MLE)	1.383				Theta star (bias corrected MLE)		1.43
1092					nu hat (MLE)	863.4				nu star (bias corrected)		835.3
1093					MLE Mean (bias corrected)	6.785				MLE Sd (bias corrected)		3.115
1094										Approximate Chi Square Value (0.05)		769.2
1095					Adjusted Level of Significance	0.0473				Adjusted Chi Square Value		768.2
1096												
1097	**Assuming Gamma Distribution**											
1098					95% Approximate Gamma UCL (use when n>=50))	7.368				95% Adjusted Gamma UCL (use when n<50)		7.378
1099												
1100	**Lognormal GOF Test**											
1101					Shapiro Wilk Test Statistic	0.924	**Shapiro Wilk Lognormal GOF Test**					
1102					5% Shapiro Wilk P Value	2.4498E-5	Data Not Lognormal at 5% Significance Level					
1103					Lilliefors Test Statistic	0.164	**Lilliefors Lognormal GOF Test**					
1104					5% Lilliefors Critical Value	0.0946	Data Not Lognormal at 5% Significance Level					
1105	**Data Not Lognormal at 5% Significance Level**											
1106												
1107	**Lognormal Statistics**											
1108					Minimum of Logged Data	-0.208				Mean of logged Data		1.809
1109					Maximum of Logged Data	2.773				SD of logged Data		0.499
1110												
1111	**Assuming Lognormal Distribution**											
1112					95% H-UCL	7.636				90% Chebyshev (MVUE) UCL		8.069
1113					95% Chebyshev (MVUE) UCL	8.596				97.5% Chebyshev (MVUE) UCL		9.327

1114					99% Chebyshev (MVUE) UCL	10.76						
1115												
1116						**Nonparametric Distribution Free UCL Statistics**							
1117						**Data appear to follow a Discernible Distribution at 5% Significance Level**							
1118												
1119						**Nonparametric Distribution Free UCLs**							
1120					95% CLT UCL	7.285				95% Jackknife UCL	7.291	
1121					95% Standard Bootstrap UCL	7.281				95% Bootstrap-t UCL	7.301	
1122					95% Hall's Bootstrap UCL	7.301				95% Percentile Bootstrap UCL	7.277	
1123					95% BCA Bootstrap UCL	7.276						
1124					90% Chebyshev(Mean, Sd) UCL	7.697				95% Chebyshev(Mean, Sd) UCL	8.11	
1125					97.5% Chebyshev(Mean, Sd) UCL	8.684				99% Chebyshev(Mean, Sd) UCL	9.81	
1126												
1127						**Suggested UCL to Use**							
1128					95% Student's-t UCL	7.291						
1129												
1130						When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test						
1131						When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL						
1132												
1133						Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.						
1134						Recommendations are based upon data size, data distribution, and skewness.						
1135						These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).						
1136						However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.						
1137												
1138												
1139	**Copper**											
1140												
1141						**General Statistics**							
1142					Total Number of Observations	88				Number of Distinct Observations	78	
1143										Number of Missing Observations	533	
1144					Minimum	2.48				Mean	13.16	
1145					Maximum	139				Median	9.565	
1146					SD	16.91				Std. Error of Mean	1.802	
1147					Coefficient of Variation	1.285				Skewness	5.429	
1148												
1149						**Normal GOF Test**						
1150					Shapiro Wilk Test Statistic	0.497				**Shapiro Wilk GOF Test**		
1151					5% Shapiro Wilk P Value	0				Data Not Normal at 5% Significance Level		
1152					Lilliefors Test Statistic	0.294				**Lilliefors GOF Test**		
1153					5% Lilliefors Critical Value	0.0946				Data Not Normal at 5% Significance Level		
1154						**Data Not Normal at 5% Significance Level**						
1155												
1156						**Assuming Normal Distribution**						
1157						**95% Normal UCL**					**95% UCLs (Adjusted for Skewness)**	
1158					95% Student's-t UCL	16.16				95% Adjusted-CLT UCL (Chen-1995)	17.24	
1159										95% Modified-t UCL (Johnson-1978)	16.33	
1160												
1161						**Gamma GOF Test**						
1162					A-D Test Statistic	3.147				**Anderson-Darling Gamma GOF Test**		
1163					5% A-D Critical Value	0.769				Data Not Gamma Distributed at 5% Significance Level		
1164					K-S Test Statistic	0.154				**Kolmogorov-Smirnov Gamma GOF Test**		
1165					5% K-S Critical Value	0.0969				Data Not Gamma Distributed at 5% Significance Level		
1166						**Data Not Gamma Distributed at 5% Significance Level**						

	A	B	C	D	E	F	G	H	I	J	K	L
1167												
1168	**Gamma Statistics**											
1169	k hat (MLE)					1.703	k star (bias corrected MLE)					1.652
1170	Theta hat (MLE)					7.728	Theta star (bias corrected MLE)					7.964
1171	nu hat (MLE)					299.7	nu star (bias corrected)					290.8
1172	MLE Mean (bias corrected)					13.16	MLE Sd (bias corrected)					10.24
1173							Approximate Chi Square Value (0.05)					252.3
1174	Adjusted Level of Significance					0.0473	Adjusted Chi Square Value					251.7
1175												
1176	**Assuming Gamma Distribution**											
1177	95% Approximate Gamma UCL (use when n>=50))					15.17	95% Adjusted Gamma UCL (use when n<50)					15.2
1178												
1179	**Lognormal GOF Test**											
1180	Shapiro Wilk Test Statistic					0.951	**Shapiro Wilk Lognormal GOF Test**					
1181	5% Shapiro Wilk P Value					0.0069	Data Not Lognormal at 5% Significance Level					
1182	Lilliefors Test Statistic					0.0942	**Lilliefors Lognormal GOF Test**					
1183	5% Lilliefors Critical Value					0.0946	Data appear Lognormal at 5% Significance Level					
1184	**Data appear Approximate Lognormal at 5% Significance Level**											
1185												
1186	**Lognormal Statistics**											
1187	Minimum of Logged Data					0.908	Mean of logged Data					2.256
1188	Maximum of Logged Data					4.934	SD of logged Data					0.715
1189												
1190	**Assuming Lognormal Distribution**											
1191	95% H-UCL					14.38	90% Chebyshev (MVUE) UCL					15.38
1192	95% Chebyshev (MVUE) UCL					16.78	97.5% Chebyshev (MVUE) UCL					18.74
1193	99% Chebyshev (MVUE) UCL					22.57						
1194												
1195	**Nonparametric Distribution Free UCL Statistics**											
1196	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
1197												
1198	**Nonparametric Distribution Free UCLs**											
1199	95% CLT UCL					16.12	95% Jackknife UCL					16.16
1200	95% Standard Bootstrap UCL					16.06	95% Bootstrap-t UCL					18.69
1201	95% Hall's Bootstrap UCL					28.58	95% Percentile Bootstrap UCL					16.41
1202	95% BCA Bootstrap UCL					17.69						
1203	90% Chebyshev(Mean, Sd) UCL					18.57	95% Chebyshev(Mean, Sd) UCL					21.02
1204	97.5% Chebyshev(Mean, Sd) UCL					24.41	99% Chebyshev(Mean, Sd) UCL					31.09
1205												
1206	**Suggested UCL to Use**											
1207	95% H-UCL					14.38						
1208												
1209	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1210	Recommendations are based upon data size, data distribution, and skewness.											
1211	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1212	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
1213												
1214	**ProUCL computes and outputs H-statistic based UCLs for historical reasons only.**											
1215	**H-statistic often results in unstable (both high and low) values of UCL95 as shown in examples in the Technical Guide.**											
1216	**It is therefore recommended to avoid the use of H-statistic based 95% UCLs.**											
1217	**Use of nonparametric methods are preferred to compute UCL95 for skewed data sets which do not follow a gamma distribution.**											
1218												
1219	**Ethanol**											

1220												
1221	**General Statistics**											
1222					Total Number of Observations	50				Number of Distinct Observations	22	
1223										Number of Missing Observations	142	
1224					Number of Detects	17				Number of Non-Detects	33	
1225					Number of Distinct Detects	14				Number of Distinct Non-Detects	8	
1226					Minimum Detect	0.059				Minimum Non-Detect	0.17	
1227					Maximum Detect	0.15				Maximum Non-Detect	0.26	
1228					Variance Detects	8.6832E-4				Percent Non-Detects	66%	
1229					Mean Detects	0.0982				SD Detects	0.0295	
1230					Median Detects	0.095				CV Detects	0.3	
1231					Skewness Detects	0.342				Kurtosis Detects	-1.198	
1232					Mean of Logged Detects	-2.363				SD of Logged Detects	0.303	
1233												
1234	**Normal GOF Test on Detects Only**											
1235					Shapiro Wilk Test Statistic	0.93				**Shapiro Wilk GOF Test**		
1236					5% Shapiro Wilk Critical Value	0.892				Detected Data appear Normal at 5% Significance Level		
1237					Lilliefors Test Statistic	0.156				**Lilliefors GOF Test**		
1238					5% Lilliefors Critical Value	0.207				Detected Data appear Normal at 5% Significance Level		
1239	**Detected Data appear Normal at 5% Significance Level**											
1240												
1241	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
1242					KM Mean	0.0982				KM Standard Error of Mean	0.00715	
1243					KM SD	0.0286				95% KM (BCA) UCL	0.11	
1244					95% KM (t) UCL	0.11				95% KM (Percentile Bootstrap) UCL	0.11	
1245					95% KM (z) UCL	0.11				95% KM Bootstrap t UCL	0.112	
1246					90% KM Chebyshev UCL	0.12				95% KM Chebyshev UCL	0.129	
1247					97.5% KM Chebyshev UCL	0.143				99% KM Chebyshev UCL	0.169	
1248												
1249	**Gamma GOF Tests on Detected Observations Only**											
1250					A-D Test Statistic	0.4				**Anderson-Darling GOF Test**		
1251					5% A-D Critical Value	0.739				Detected data appear Gamma Distributed at 5% Significance Level		
1252					K-S Test Statistic	0.143				**Kolmogorov-Smirnov GOF**		
1253					5% K-S Critical Value	0.209				Detected data appear Gamma Distributed at 5% Significance Level		
1254	**Detected data appear Gamma Distributed at 5% Significance Level**											
1255												
1256	**Gamma Statistics on Detected Data Only**											
1257					k hat (MLE)	11.84				k star (bias corrected MLE)	9.791	
1258					Theta hat (MLE)	0.0083				Theta star (bias corrected MLE)	0.01	
1259					nu hat (MLE)	402.6				nu star (bias corrected)	332.9	
1260					Mean (detects)	0.0982						
1261												
1262	**Gamma ROS Statistics using Imputed Non-Detects**											
1263	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
1264	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)											
1265	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
1266	This is especially true when the sample size is small.											
1267	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
1268					Minimum	0.0578				Mean	0.0977	
1269					Maximum	0.15				Median	0.0959	
1270					SD	0.0251				CV	0.257	
1271					k hat (MLE)	15.42				k star (bias corrected MLE)	14.51	
1272					Theta hat (MLE)	0.00634				Theta star (bias corrected MLE)	0.00673	

1273					nu hat (MLE)	1542				nu star (bias corrected)		1451
1274					Adjusted Level of Significance (β)	0.0452						
1275					Approximate Chi Square Value (N/A, α)	1363				Adjusted Chi Square Value (N/A, β)		1361
1276					95% Gamma Approximate UCL (use when n>=50)	0.104				95% Gamma Adjusted UCL (use when n<50)		0.104
1277												
1278	**Estimates of Gamma Parameters using KM Estimates**											
1279					Mean (KM)	0.0982				SD (KM)		0.0286
1280					Variance (KM)	8.1724E-4				SE of Mean (KM)		0.00715
1281					k hat (KM)	11.81				k star (KM)		11.11
1282					nu hat (KM)	1181				nu star (KM)		1111
1283					theta hat (KM)	0.00832				theta star (KM)		0.00884
1284					80% gamma percentile (KM)	0.122				90% gamma percentile (KM)		0.137
1285					95% gamma percentile (KM)	0.151				99% gamma percentile (KM)		0.179
1286												
1287	**Gamma Kaplan-Meier (KM) Statistics**											
1288					Approximate Chi Square Value (N/A, α)	1035				Adjusted Chi Square Value (N/A, β)		1033
1289					95% Gamma Approximate KM-UCL (use when n>=50)	0.105				95% Gamma Adjusted KM-UCL (use when n<50)		0.106
1290												
1291	**Lognormal GOF Test on Detected Observations Only**											
1292					Shapiro Wilk Test Statistic	0.942				**Shapiro Wilk GOF Test**		
1293					5% Shapiro Wilk Critical Value	0.892				Detected Data appear Lognormal at 5% Significance Level		
1294					Lilliefors Test Statistic	0.142				**Lilliefors GOF Test**		
1295					5% Lilliefors Critical Value	0.207				Detected Data appear Lognormal at 5% Significance Level		
1296	**Detected Data appear Lognormal at 5% Significance Level**											
1297												
1298	**Lognormal ROS Statistics Using Imputed Non-Detects**											
1299					Mean in Original Scale	0.0972				Mean in Log Scale		-2.363
1300					SD in Original Scale	0.0251				SD in Log Scale		0.258
1301					95% t UCL (assumes normality of ROS data)	0.103				95% Percentile Bootstrap UCL		0.103
1302					95% BCA Bootstrap UCL	0.104				95% Bootstrap t UCL		0.103
1303					95% H-UCL (Log ROS)	0.104						
1304												
1305	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
1306					KM Mean (logged)	-2.363				KM Geo Mean		0.0941
1307					KM SD (logged)	0.294				95% Critical H Value (KM-Log)		1.81
1308					KM Standard Error of Mean (logged)	0.0735				95% H-UCL (KM -Log)		0.106
1309					KM SD (logged)	0.294				95% Critical H Value (KM-Log)		1.81
1310					KM Standard Error of Mean (logged)	0.0735						
1311												
1312	**DL/2 Statistics**											
1313	**DL/2 Normal**									**DL/2 Log-Transformed**		
1314					Mean in Original Scale	0.105				Mean in Log Scale		-2.276
1315					SD in Original Scale	0.0187				SD in Log Scale		0.194
1316					95% t UCL (Assumes normality)	0.109				95% H-Stat UCL		0.11
1317	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
1318												
1319	**Nonparametric Distribution Free UCL Statistics**											
1320	**Detected Data appear Normal Distributed at 5% Significance Level**											
1321												
1322	**Suggested UCL to Use**											
1323					95% KM (t) UCL	0.11						
1324												
1325	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											

1326	Recommendations are based upon data size, data distribution, and skewness.											
1327	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1328	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
1329												
1330	**Lead**											
1331												
1332	**General Statistics**											
1333						Total Number of Observations	111				Number of Distinct Observations	105	
1334											Number of Missing Observations	510	
1335						Number of Detects	110				Number of Non-Detects	1	
1336						Number of Distinct Detects	104				Number of Distinct Non-Detects	1	
1337						Minimum Detect	0.15				Minimum Non-Detect	0.14	
1338						Maximum Detect	75.4				Maximum Non-Detect	0.14	
1339						Variance Detects	67.3				Percent Non-Detects	0.901%	
1340						Mean Detects	4.491				SD Detects	8.203	
1341						Median Detects	2.67				CV Detects	1.827	
1342						Skewness Detects	6.578				Kurtosis Detects	52.59	
1343						Mean of Logged Detects	1.006				SD of Logged Detects	0.879	
1344													
1345	**Normal GOF Test on Detects Only**											
1346						Shapiro Wilk Test Statistic	0.402				**Normal GOF Test on Detected Observations Only**		
1347						5% Shapiro Wilk P Value	0				Detected Data Not Normal at 5% Significance Level		
1348						Lilliefors Test Statistic	0.347				**Lilliefors GOF Test**		
1349						5% Lilliefors Critical Value	0.0848				Detected Data Not Normal at 5% Significance Level		
1350	**Detected Data Not Normal at 5% Significance Level**											
1351													
1352	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
1353						KM Mean	4.452				KM Standard Error of Mean	0.776	
1354						KM SD	8.14				95% KM (BCA) UCL	5.84	
1355						95% KM (t) UCL	5.739				95% KM (Percentile Bootstrap) UCL	5.839	
1356						95% KM (z) UCL	5.729				95% KM Bootstrap t UCL	7.075	
1357						90% KM Chebyshev UCL	6.78				95% KM Chebyshev UCL	7.835	
1358						97.5% KM Chebyshev UCL	9.299				99% KM Chebyshev UCL	12.17	
1359													
1360	**Gamma GOF Tests on Detected Observations Only**											
1361						A-D Test Statistic	7.435				**Anderson-Darling GOF Test**		
1362						5% A-D Critical Value	0.779				Detected Data Not Gamma Distributed at 5% Significance Level		
1363						K-S Test Statistic	0.232				**Kolmogorov-Smirnov GOF**		
1364						5% K-S Critical Value	0.0892				Detected Data Not Gamma Distributed at 5% Significance Level		
1365	**Detected Data Not Gamma Distributed at 5% Significance Level**											
1366													
1367	**Gamma Statistics on Detected Data Only**											
1368						k hat (MLE)	1.146				k star (bias corrected MLE)	1.121	
1369						Theta hat (MLE)	3.918				Theta star (bias corrected MLE)	4.006	
1370						nu hat (MLE)	252.2				nu star (bias corrected)	246.6	
1371						Mean (detects)	4.491						
1372													
1373	**Gamma ROS Statistics using Imputed Non-Detects**											
1374	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
1375	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)											
1376	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
1377	This is especially true when the sample size is small.											
1378	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											

	A	B	C	D	E	F	G	H	I	J	K	L
1379					Minimum	0.01					Mean	4.451
1380					Maximum	75.4					Median	2.66
1381					SD	8.177					CV	1.837
1382					k hat (MLE)	1.066					k star (bias corrected MLE)	1.043
1383					Theta hat (MLE)	4.175					Theta star (bias corrected MLE)	4.266
1384					nu hat (MLE)	236.7					nu star (bias corrected)	231.6
1385					Adjusted Level of Significance (β)	0.0478						
1386					Approximate Chi Square Value (231.61, α)	197.4					Adjusted Chi Square Value (231.61, β)	197
1387					95% Gamma Approximate UCL (use when n>=50)	5.223					95% Gamma Adjusted UCL (use when n<50)	5.234
1388												
1389					**Estimates of Gamma Parameters using KM Estimates**							
1390					Mean (KM)	4.452					SD (KM)	8.14
1391					Variance (KM)	66.25					SE of Mean (KM)	0.776
1392					k hat (KM)	0.299					k star (KM)	0.297
1393					nu hat (KM)	66.41					nu star (KM)	65.95
1394					theta hat (KM)	14.88					theta star (KM)	14.99
1395					80% gamma percentile (KM)	6.811					90% gamma percentile (KM)	13.15
1396					95% gamma percentile (KM)	20.43					99% gamma percentile (KM)	39.38
1397												
1398					**Gamma Kaplan-Meier (KM) Statistics**							
1399					Approximate Chi Square Value (65.95, α)	48.26					Adjusted Chi Square Value (65.95, β)	48.07
1400					95% Gamma Approximate KM-UCL (use when n>=50)	6.083					95% Gamma Adjusted KM-UCL (use when n<50)	6.109
1401												
1402					**Lognormal GOF Test on Detected Observations Only**							
1403					Shapiro Wilk Approximate Test Statistic	0.94					**Shapiro Wilk GOF Test**	
1404					5% Shapiro Wilk P Value	9.7713E-5					Detected Data Not Lognormal at 5% Significance Level	
1405					Lilliefors Test Statistic	0.143					**Lilliefors GOF Test**	
1406					5% Lilliefors Critical Value	0.0848					Detected Data Not Lognormal at 5% Significance Level	
1407					**Detected Data Not Lognormal at 5% Significance Level**							
1408												
1409					**Lognormal ROS Statistics Using Imputed Non-Detects**							
1410					Mean in Original Scale	4.453					Mean in Log Scale	0.985
1411					SD in Original Scale	8.176					SD in Log Scale	0.902
1412					95% t UCL (assumes normality of ROS data)	5.74					95% Percentile Bootstrap UCL	5.781
1413					95% BCA Bootstrap UCL	6.416					95% Bootstrap t UCL	7.101
1414					95% H-UCL (Log ROS)	4.831						
1415												
1416					**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**							
1417					KM Mean (logged)	0.979					KM Geo Mean	2.663
1418					KM SD (logged)	0.915					95% Critical H Value (KM-Log)	2.138
1419					KM Standard Error of Mean (logged)	0.0872					95% H-UCL (KM -Log)	4.876
1420					KM SD (logged)	0.915					95% Critical H Value (KM-Log)	2.138
1421					KM Standard Error of Mean (logged)	0.0872						
1422												
1423					**DL/2 Statistics**							
1424					**DL/2 Normal**						**DL/2 Log-Transformed**	
1425					Mean in Original Scale	4.451					Mean in Log Scale	0.973
1426					SD in Original Scale	8.177					SD in Log Scale	0.941
1427					95% t UCL (Assumes normality)	5.739					95% H-Stat UCL	5.003
1428					**DL/2 is not a recommended method, provided for comparisons and historical reasons**							
1429												
1430					**Nonparametric Distribution Free UCL Statistics**							
1431					**Data do not follow a Discernible Distribution at 5% Significance Level**							

1432											
1433	**Suggested UCL to Use**										
1434				95% KM (Chebyshev) UCL		7.835					
1435											
1436	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.										
1437	Recommendations are based upon data size, data distribution, and skewness.										
1438	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).										
1439	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.										
1440											
1441	**Mercury**										
1442											
1443	**General Statistics**										
1444				Total Number of Observations		88			Number of Distinct Observations		37
1445									Number of Missing Observations		533
1446				Number of Detects		53			Number of Non-Detects		35
1447				Number of Distinct Detects		27			Number of Distinct Non-Detects		12
1448				Minimum Detect		0.012			Minimum Non-Detect		0.01
1449				Maximum Detect		0.222			Maximum Non-Detect		0.1
1450				Variance Detects		0.00103			Percent Non-Detects		39.77%
1451				Mean Detects		0.0269			SD Detects		0.0321
1452				Median Detects		0.017			CV Detects		1.191
1453				Skewness Detects		4.799			Kurtosis Detects		27.07
1454				Mean of Logged Detects		-3.871			SD of Logged Detects		0.587
1455											
1456	**Normal GOF Test on Detects Only**										
1457				Shapiro Wilk Test Statistic		0.456			**Normal GOF Test on Detected Observations Only**		
1458				5% Shapiro Wilk P Value		0			Detected Data Not Normal at 5% Significance Level		
1459				Lilliefors Test Statistic		0.321			**Lilliefors GOF Test**		
1460				5% Lilliefors Critical Value		0.121			Detected Data Not Normal at 5% Significance Level		
1461	**Detected Data Not Normal at 5% Significance Level**										
1462											
1463	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**										
1464				KM Mean		0.0216			KM Standard Error of Mean		0.00287
1465				KM SD		0.0261			95% KM (BCA) UCL		0.0272
1466				95% KM (t) UCL		0.0263			95% KM (Percentile Bootstrap) UCL		0.0267
1467				95% KM (z) UCL		0.0263			95% KM Bootstrap t UCL		0.0307
1468				90% KM Chebyshev UCL		0.0302			95% KM Chebyshev UCL		0.0341
1469				97.5% KM Chebyshev UCL		0.0395			99% KM Chebyshev UCL		0.0501
1470											
1471	**Gamma GOF Tests on Detected Observations Only**										
1472				A-D Test Statistic		6.067			**Anderson-Darling GOF Test**		
1473				5% A-D Critical Value		0.762			Detected Data Not Gamma Distributed at 5% Significance Level		
1474				K-S Test Statistic		0.245			**Kolmogorov-Smirnov GOF**		
1475				5% K-S Critical Value		0.124			Detected Data Not Gamma Distributed at 5% Significance Level		
1476	**Detected Data Not Gamma Distributed at 5% Significance Level**										
1477											
1478	**Gamma Statistics on Detected Data Only**										
1479				k hat (MLE)		2.105			k star (bias corrected MLE)		1.998
1480				Theta hat (MLE)		0.0128			Theta star (bias corrected MLE)		0.0135
1481				nu hat (MLE)		223.1			nu star (bias corrected)		211.8
1482				Mean (detects)		0.0269					
1483											
1484	**Gamma ROS Statistics using Imputed Non-Detects**										

	A	B	C	D	E	F	G	H	I	J	K	L
1485	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
1486	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)											
1487	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
1488	This is especially true when the sample size is small.											
1489	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
1490					Minimum	0.01				Mean	0.0208	
1491					Maximum	0.222				Median	0.0145	
1492					SD	0.0261				CV	1.251	
1493					k hat (MLE)	2.133				k star (bias corrected MLE)	2.068	
1494					Theta hat (MLE)	0.00977				Theta star (bias corrected MLE)	0.0101	
1495					nu hat (MLE)	375.4				nu star (bias corrected)	364	
1496					Adjusted Level of Significance (β)	0.0473						
1497					Approximate Chi Square Value (363.97, α)	320.8				Adjusted Chi Square Value (363.97, β)	320.1	
1498					95% Gamma Approximate UCL (use when n>=50)	0.0236				95% Gamma Adjusted UCL (use when n<50)	0.0237	
1499												
1500	**Estimates of Gamma Parameters using KM Estimates**											
1501					Mean (KM)	0.0216				SD (KM)	0.0261	
1502					Variance (KM)	6.8209E-4				SE of Mean (KM)	0.00287	
1503					k hat (KM)	0.681				k star (KM)	0.666	
1504					nu hat (KM)	119.9				nu star (KM)	117.2	
1505					theta hat (KM)	0.0316				theta star (KM)	0.0324	
1506					80% gamma percentile (KM)	0.0355				90% gamma percentile (KM)	0.0548	
1507					95% gamma percentile (KM)	0.0747				99% gamma percentile (KM)	0.123	
1508												
1509	**Gamma Kaplan-Meier (KM) Statistics**											
1510					Approximate Chi Square Value (117.17, α)	93.18				Adjusted Chi Square Value (117.17, β)	92.82	
1511					95% Gamma Approximate KM-UCL (use when n>=50)	0.0271				95% Gamma Adjusted KM-UCL (use when n<50)	0.0272	
1512												
1513	**Lognormal GOF Test on Detected Observations Only**											
1514					Shapiro Wilk Approximate Test Statistic	0.763				**Shapiro Wilk GOF Test**		
1515					5% Shapiro Wilk P Value	6.880E-11				Detected Data Not Lognormal at 5% Significance Level		
1516					Lilliefors Test Statistic	0.204				**Lilliefors GOF Test**		
1517					5% Lilliefors Critical Value	0.121				Detected Data Not Lognormal at 5% Significance Level		
1518	**Detected Data Not Lognormal at 5% Significance Level**											
1519												
1520	**Lognormal ROS Statistics Using Imputed Non-Detects**											
1521					Mean in Original Scale	0.0201				Mean in Log Scale	-4.227	
1522					SD in Original Scale	0.0264				SD in Log Scale	0.709	
1523					95% t UCL (assumes normality of ROS data)	0.0247				95% Percentile Bootstrap UCL	0.0251	
1524					95% BCA Bootstrap UCL	0.0265				95% Bootstrap t UCL	0.0292	
1525					95% H-UCL (Log ROS)	0.0219						
1526												
1527	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
1528					KM Mean (logged)	-4.083				KM Geo Mean	0.0169	
1529					KM SD (logged)	0.57				95% Critical H Value (KM-Log)	1.891	
1530					KM Standard Error of Mean (logged)	0.0651				95% H-UCL (KM -Log)	0.0223	
1531					KM SD (logged)	0.57				95% Critical H Value (KM-Log)	1.891	
1532					KM Standard Error of Mean (logged)	0.0651						
1533												
1534	**DL/2 Statistics**											
1535	**DL/2 Normal**						**DL/2 Log-Transformed**					
1536					Mean in Original Scale	0.0241				Mean in Log Scale	-4.089	
1537					SD in Original Scale	0.0276				SD in Log Scale	0.821	

	A	B	C	D	E	F	G	H	I	J	K	L
1538				95% t UCL (Assumes normality)		0.029					95% H-Stat UCL	0.0282
1539	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
1540												
1541	**Nonparametric Distribution Free UCL Statistics**											
1542	**Data do not follow a Discernible Distribution at 5% Significance Level**											
1543												
1544	**Suggested UCL to Use**											
1545				95% KM (Chebyshev) UCL		0.0341						
1546												
1547	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1548	Recommendations are based upon data size, data distribution, and skewness.											
1549	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1550	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
1551												
1552	**Nickel**											
1553												
1554	**General Statistics**											
1555				Total Number of Observations		88				Number of Distinct Observations		84
1556										Number of Missing Observations		533
1557				Number of Detects		86				Number of Non-Detects		2
1558				Number of Distinct Detects		82				Number of Distinct Non-Detects		2
1559				Minimum Detect		0.93				Minimum Non-Detect		1
1560				Maximum Detect		28				Maximum Non-Detect		2.5
1561				Variance Detects		30.86				Percent Non-Detects		2.273%
1562				Mean Detects		8.284				SD Detects		5.555
1563				Median Detects		7.085				CV Detects		0.671
1564				Skewness Detects		1.777				Kurtosis Detects		3.531
1565				Mean of Logged Detects		1.921				SD of Logged Detects		0.635
1566												
1567	**Normal GOF Test on Detects Only**											
1568				Shapiro Wilk Test Statistic		0.828	**Normal GOF Test on Detected Observations Only**					
1569				5% Shapiro Wilk P Value		2.331E-14	Detected Data Not Normal at 5% Significance Level					
1570				Lilliefors Test Statistic		0.195	**Lilliefors GOF Test**					
1571				5% Lilliefors Critical Value		0.0957	Detected Data Not Normal at 5% Significance Level					
1572	**Detected Data Not Normal at 5% Significance Level**											
1573												
1574	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
1575				KM Mean		8.125				KM Standard Error of Mean		0.596
1576				KM SD		5.56				95% KM (BCA) UCL		9.085
1577				95% KM (t) UCL		9.116				95% KM (Percentile Bootstrap) UCL		9.15
1578				95% KM (z) UCL		9.105				95% KM Bootstrap t UCL		9.305
1579				90% KM Chebyshev UCL		9.913				95% KM Chebyshev UCL		10.72
1580				97.5% KM Chebyshev UCL		11.85				99% KM Chebyshev UCL		14.06
1581												
1582	**Gamma GOF Tests on Detected Observations Only**											
1583				A-D Test Statistic		0.833	**Anderson-Darling GOF Test**					
1584				5% A-D Critical Value		0.76	Detected Data Not Gamma Distributed at 5% Significance Level					
1585				K-S Test Statistic		0.113	**Kolmogorov-Smirnov GOF**					
1586				5% K-S Critical Value		0.0973	Detected Data Not Gamma Distributed at 5% Significance Level					
1587	**Detected Data Not Gamma Distributed at 5% Significance Level**											
1588												
1589	**Gamma Statistics on Detected Data Only**											
1590				k hat (MLE)		2.744				k star (bias corrected MLE)		2.656

1591					Theta hat (MLE)	3.019					Theta star (bias corrected MLE)	3.119
1592					nu hat (MLE)	472					nu star (bias corrected)	456.9
1593					Mean (detects)	8.284						
1594												
1595					**Gamma ROS Statistics using Imputed Non-Detects**							
1596					GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs							
1597					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)							
1598					For such situations, GROS method may yield incorrect values of UCLs and BTVs							
1599					This is especially true when the sample size is small.							
1600					For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates							
1601					Minimum	0.0133					Mean	8.104
1602					Maximum	28					Median	6.945
1603					SD	5.619					CV	0.693
1604					k hat (MLE)	2.012					k star (bias corrected MLE)	1.951
1605					Theta hat (MLE)	4.027					Theta star (bias corrected MLE)	4.153
1606					nu hat (MLE)	354.2					nu star (bias corrected)	343.4
1607					Adjusted Level of Significance (β)	0.0473						
1608					Approximate Chi Square Value (343.45, α)	301.5					Adjusted Chi Square Value (343.45, β)	300.9
1609					95% Gamma Approximate UCL (use when n>=50)	9.231					95% Gamma Adjusted UCL (use when n<50)	9.251
1610												
1611					**Estimates of Gamma Parameters using KM Estimates**							
1612					Mean (KM)	8.125					SD (KM)	5.56
1613					Variance (KM)	30.91					SE of Mean (KM)	0.596
1614					k hat (KM)	2.135					k star (KM)	2.07
1615					nu hat (KM)	375.8					nu star (KM)	364.4
1616					theta hat (KM)	3.805					theta star (KM)	3.924
1617					80% gamma percentile (KM)	12.11					90% gamma percentile (KM)	15.67
1618					95% gamma percentile (KM)	19.06					99% gamma percentile (KM)	26.56
1619												
1620					**Gamma Kaplan-Meier (KM) Statistics**							
1621					Approximate Chi Square Value (364.36, α)	321.1					Adjusted Chi Square Value (364.36, β)	320.5
1622					95% Gamma Approximate KM-UCL (use when n>=50)	9.219					95% Gamma Adjusted KM-UCL (use when n<50)	9.238
1623												
1624					**Lognormal GOF Test on Detected Observations Only**							
1625					Shapiro Wilk Approximate Test Statistic	0.981					**Shapiro Wilk GOF Test**	
1626					5% Shapiro Wilk P Value	0.627					Detected Data appear Lognormal at 5% Significance Level	
1627					Lilliefors Test Statistic	0.0874					**Lilliefors GOF Test**	
1628					5% Lilliefors Critical Value	0.0957					Detected Data appear Lognormal at 5% Significance Level	
1629					**Detected Data appear Lognormal at 5% Significance Level**							
1630												
1631					**Lognormal ROS Statistics Using Imputed Non-Detects**							
1632					Mean in Original Scale	8.135					Mean in Log Scale	1.89
1633					SD in Original Scale	5.579					SD in Log Scale	0.661
1634					95% t UCL (assumes normality of ROS data)	9.124					95% Percentile Bootstrap UCL	9.134
1635					95% BCA Bootstrap UCL	9.313					95% Bootstrap t UCL	9.277
1636					95% H-UCL (Log ROS)	9.467						
1637												
1638					**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**							
1639					KM Mean (logged)	1.881					KM Geo Mean	6.561
1640					KM SD (logged)	0.679					95% Critical H Value (KM-Log)	1.987
1641					KM Standard Error of Mean (logged)	0.073					95% H-UCL (KM -Log)	9.548
1642					KM SD (logged)	0.679					95% Critical H Value (KM-Log)	1.987
1643					KM Standard Error of Mean (logged)	0.073						

1644												
1645	**DL/2 Statistics**											
1646	**DL/2 Normal**						**DL/2 Log-Transformed**					
1647					Mean in Original Scale	8.116				Mean in Log Scale	1.872	
1648					SD in Original Scale	5.602				SD in Log Scale	0.709	
1649					95% t UCL (Assumes normality)	9.109				95% H-Stat UCL	9.746	
1650	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
1651												
1652	**Nonparametric Distribution Free UCL Statistics**											
1653	**Detected Data appear Lognormal Distributed at 5% Significance Level**											
1654												
1655	**Suggested UCL to Use**											
1656					KM H-UCL	9.548						
1657												
1658	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1659	Recommendations are based upon data size, data distribution, and skewness.											
1660	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1661	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
1662												
1663	**Thallium**											
1664												
1665	**General Statistics**											
1666					Total Number of Observations	89				Number of Distinct Observations	49	
1667										Number of Missing Observations	532	
1668					Number of Detects	36				Number of Non-Detects	53	
1669					Number of Distinct Detects	36				Number of Distinct Non-Detects	13	
1670					Minimum Detect	0.262				Minimum Non-Detect	0.17	
1671					Maximum Detect	14.9				Maximum Non-Detect	1.04	
1672					Variance Detects	10.58				Percent Non-Detects	59.55%	
1673					Mean Detects	4.425				SD Detects	3.253	
1674					Median Detects	4.065				CV Detects	0.735	
1675					Skewness Detects	0.945				Kurtosis Detects	1.444	
1676					Mean of Logged Detects	1.11				SD of Logged Detects	1.024	
1677												
1678	**Normal GOF Test on Detects Only**											
1679					Shapiro Wilk Test Statistic	0.927	**Shapiro Wilk GOF Test**					
1680					5% Shapiro Wilk Critical Value	0.935	Detected Data Not Normal at 5% Significance Level					
1681					Lilliefors Test Statistic	0.1	**Lilliefors GOF Test**					
1682					5% Lilliefors Critical Value	0.145	Detected Data appear Normal at 5% Significance Level					
1683	**Detected Data appear Approximate Normal at 5% Significance Level**											
1684												
1685	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
1686					KM Mean	1.987				KM Standard Error of Mean	0.311	
1687					KM SD	2.869				95% KM (BCA) UCL	2.499	
1688					95% KM (t) UCL	2.503				95% KM (Percentile Bootstrap) UCL	2.496	
1689					95% KM (z) UCL	2.497				95% KM Bootstrap t UCL	2.603	
1690					90% KM Chebyshev UCL	2.918				95% KM Chebyshev UCL	3.34	
1691					97.5% KM Chebyshev UCL	3.926				99% KM Chebyshev UCL	5.076	
1692												
1693	**Gamma GOF Tests on Detected Observations Only**											
1694					A-D Test Statistic	0.592	**Anderson-Darling GOF Test**					
1695					5% A-D Critical Value	0.767	Detected data appear Gamma Distributed at 5% Significance Level					
1696					K-S Test Statistic	0.117	**Kolmogorov-Smirnov GOF**					

	A	B	C	D	E	F	G	H	I	J	K	L
1697					5% K-S Critical Value	0.15	Detected data appear Gamma Distributed at 5% Significance Level					
1698	**Detected data appear Gamma Distributed at 5% Significance Level**											
1699												
1700	**Gamma Statistics on Detected Data Only**											
1701					k hat (MLE)	1.468					k star (bias corrected MLE)	1.365
1702					Theta hat (MLE)	3.013					Theta star (bias corrected MLE)	3.243
1703					nu hat (MLE)	105.7					nu star (bias corrected)	98.25
1704					Mean (detects)	4.425						
1705												
1706	**Gamma ROS Statistics using Imputed Non-Detects**											
1707	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
1708	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)											
1709	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
1710	This is especially true when the sample size is small.											
1711	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
1712					Minimum	0.01					Mean	1.906
1713					Maximum	14.9					Median	0.348
1714					SD	2.944					CV	1.545
1715					k hat (MLE)	0.3					k star (bias corrected MLE)	0.297
1716					Theta hat (MLE)	6.36					Theta star (bias corrected MLE)	6.416
1717					nu hat (MLE)	53.33					nu star (bias corrected)	52.87
1718					Adjusted Level of Significance (β)	0.0473						
1719					Approximate Chi Square Value (52.87, α)	37.16					Adjusted Chi Square Value (52.87, β)	36.95
1720					95% Gamma Approximate UCL (use when n>=50)	2.711					95% Gamma Adjusted UCL (use when n<50)	2.727
1721												
1722	**Estimates of Gamma Parameters using KM Estimates**											
1723					Mean (KM)	1.987					SD (KM)	2.869
1724					Variance (KM)	8.229					SE of Mean (KM)	0.311
1725					k hat (KM)	0.48					k star (KM)	0.471
1726					nu hat (KM)	85.37					nu star (KM)	83.83
1727					theta hat (KM)	4.142					theta star (KM)	4.219
1728					80% gamma percentile (KM)	3.253					90% gamma percentile (KM)	5.441
1729					95% gamma percentile (KM)	7.796					99% gamma percentile (KM)	13.62
1730												
1731	**Gamma Kaplan-Meier (KM) Statistics**											
1732					Approximate Chi Square Value (83.83, α)	63.73					Adjusted Chi Square Value (83.83, β)	63.44
1733					95% Gamma Approximate KM-UCL (use when n>=50)	2.613					95% Gamma Adjusted KM-UCL (use when n<50)	2.625
1734												
1735	**Lognormal GOF Test on Detected Observations Only**											
1736					Shapiro Wilk Test Statistic	0.907	**Shapiro Wilk GOF Test**					
1737					5% Shapiro Wilk Critical Value	0.935	Detected Data Not Lognormal at 5% Significance Level					
1738					Lilliefors Test Statistic	0.169	**Lilliefors GOF Test**					
1739					5% Lilliefors Critical Value	0.145	Detected Data Not Lognormal at 5% Significance Level					
1740	**Detected Data Not Lognormal at 5% Significance Level**											
1741												
1742	**Lognormal ROS Statistics Using Imputed Non-Detects**											
1743					Mean in Original Scale	2.04					Mean in Log Scale	-0.247
1744					SD in Original Scale	2.859					SD in Log Scale	1.446
1745					95% t UCL (assumes normality of ROS data)	2.544					95% Percentile Bootstrap UCL	2.556
1746					95% BCA Bootstrap UCL	2.629					95% Bootstrap t UCL	2.603
1747					95% H-UCL (Log ROS)	3.377						
1748												
1749	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											

1750					KM Mean (logged)	-0.332					KM Geo Mean	0.717
1751					KM SD (logged)	1.43					95% Critical H Value (KM-Log)	2.696
1752					KM Standard Error of Mean (logged)	0.182					95% H-UCL (KM -Log)	3.009
1753					KM SD (logged)	1.43					95% Critical H Value (KM-Log)	2.696
1754					KM Standard Error of Mean (logged)	0.182						
1755												
1756						**DL/2 Statistics**						
1757					**DL/2 Normal**						**DL/2 Log-Transformed**	
1758					Mean in Original Scale	2.052					Mean in Log Scale	-0.11
1759					SD in Original Scale	2.844					SD in Log Scale	1.286
1760					95% t UCL (Assumes normality)	2.554					95% H-Stat UCL	2.899
1761						**DL/2 is not a recommended method, provided for comparisons and historical reasons**						
1762												
1763						**Nonparametric Distribution Free UCL Statistics**						
1764						**Detected Data appear Approximate Normal Distributed at 5% Significance Level**						
1765												
1766						**Suggested UCL to Use**						
1767					95% KM (t) UCL	2.503						
1768												
1769						When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test						
1770						When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL						
1771												
1772						Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.						
1773						Recommendations are based upon data size, data distribution, and skewness.						
1774						These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).						
1775						However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.						
1776												
1777	**TPH Diesel C13-C22**											
1778												
1779						**General Statistics**						
1780					Total Number of Observations	114					Number of Distinct Observations	62
1781											Number of Missing Observations	507
1782					Number of Detects	55					Number of Non-Detects	59
1783					Number of Distinct Detects	52					Number of Distinct Non-Detects	15
1784					Minimum Detect	3.42					Minimum Non-Detect	3.9
1785					Maximum Detect	790					Maximum Non-Detect	100
1786					Variance Detects	19112					Percent Non-Detects	51.75%
1787					Mean Detects	67.51					SD Detects	138.2
1788					Median Detects	15					CV Detects	2.048
1789					Skewness Detects	3.776					Kurtosis Detects	15.66
1790					Mean of Logged Detects	3.095					SD of Logged Detects	1.415
1791												
1792						**Normal GOF Test on Detects Only**						
1793					Shapiro Wilk Test Statistic	0.498					**Normal GOF Test on Detected Observations Only**	
1794					5% Shapiro Wilk P Value	0					Detected Data Not Normal at 5% Significance Level	
1795					Lilliefors Test Statistic	0.321					**Lilliefors GOF Test**	
1796					5% Lilliefors Critical Value	0.119					Detected Data Not Normal at 5% Significance Level	
1797						**Detected Data Not Normal at 5% Significance Level**						
1798												
1799						**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**						
1800					KM Mean	34.95					KM Standard Error of Mean	9.49
1801					KM SD	100.3					95% KM (BCA) UCL	51.51
1802					95% KM (t) UCL	50.69					95% KM (Percentile Bootstrap) UCL	51.07

1803					95% KM (z) UCL	50.56				95% KM Bootstrap t UCL		64.5
1804					90% KM Chebyshev UCL	63.42				95% KM Chebyshev UCL		76.32
1805					97.5% KM Chebyshev UCL	94.22				99% KM Chebyshev UCL		129.4
1806												
1807	**Gamma GOF Tests on Detected Observations Only**											
1808					A-D Test Statistic	3.303	**Anderson-Darling GOF Test**					
1809					5% A-D Critical Value	0.81	Detected Data Not Gamma Distributed at 5% Significance Level					
1810					K-S Test Statistic	0.192	**Kolmogorov-Smirnov GOF**					
1811					5% K-S Critical Value	0.126	Detected Data Not Gamma Distributed at 5% Significance Level					
1812	**Detected Data Not Gamma Distributed at 5% Significance Level**											
1813												
1814	**Gamma Statistics on Detected Data Only**											
1815					k hat (MLE)	0.559				k star (bias corrected MLE)		0.541
1816					Theta hat (MLE)	120.8				Theta star (bias corrected MLE)		124.9
1817					nu hat (MLE)	61.5				nu star (bias corrected)		59.47
1818					Mean (detects)	67.51						
1819												
1820	**Gamma ROS Statistics using Imputed Non-Detects**											
1821	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
1822	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)											
1823	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
1824	This is especially true when the sample size is small.											
1825	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
1826					Minimum	0.01				Mean		32.58
1827					Maximum	790				Median		0.01
1828					SD	101.4				CV		3.112
1829					k hat (MLE)	0.172				k star (bias corrected MLE)		0.173
1830					Theta hat (MLE)	189.2				Theta star (bias corrected MLE)		187.8
1831					nu hat (MLE)	39.26				nu star (bias corrected)		39.56
1832					Adjusted Level of Significance (β)	0.0479						
1833					Approximate Chi Square Value (39.56, α)	26.15				Adjusted Chi Square Value (39.56, β)		26.01
1834					95% Gamma Approximate UCL (use when n>=50)	49.28				95% Gamma Adjusted UCL (use when n<50)		49.55
1835												
1836	**Estimates of Gamma Parameters using KM Estimates**											
1837					Mean (KM)	34.95				SD (KM)		100.3
1838					Variance (KM)	10062				SE of Mean (KM)		9.49
1839					k hat (KM)	0.121				k star (KM)		0.124
1840					nu hat (KM)	27.68				nu star (KM)		28.29
1841					theta hat (KM)	287.9				theta star (KM)		281.7
1842					80% gamma percentile (KM)	31.8				90% gamma percentile (KM)		99.9
1843					95% gamma percentile (KM)	198.6				99% gamma percentile (KM)		497.3
1844												
1845	**Gamma Kaplan-Meier (KM) Statistics**											
1846					Approximate Chi Square Value (28.29, α)	17.15				Adjusted Chi Square Value (28.29, β)		17.04
1847					95% Gamma Approximate KM-UCL (use when n>=50)	57.64				95% Gamma Adjusted KM-UCL (use when n<50)		58.02
1848												
1849	**Lognormal GOF Test on Detected Observations Only**											
1850					Shapiro Wilk Approximate Test Statistic	0.906	**Shapiro Wilk GOF Test**					
1851					5% Shapiro Wilk P Value	2.2209E-4	Detected Data Not Lognormal at 5% Significance Level					
1852					Lilliefors Test Statistic	0.162	**Lilliefors GOF Test**					
1853					5% Lilliefors Critical Value	0.119	Detected Data Not Lognormal at 5% Significance Level					
1854	**Detected Data Not Lognormal at 5% Significance Level**											
1855												

1856	**Lognormal ROS Statistics Using Imputed Non-Detects**											
1857					Mean in Original Scale	33.66				Mean in Log Scale		1.639
1858					SD in Original Scale	101.1				SD in Log Scale		1.879
1859				95% t UCL (assumes normality of ROS data)		49.36				95% Percentile Bootstrap UCL		50.18
1860					95% BCA Bootstrap UCL	55.88				95% Bootstrap t UCL		61.04
1861					95% H-UCL (Log ROS)	52.73						
1862												
1863	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
1864					KM Mean (logged)	2.212				KM Geo Mean		9.137
1865					KM SD (logged)	1.318				95% Critical H Value (KM-Log)		2.535
1866					KM Standard Error of Mean (logged)	0.127				95% H-UCL (KM -Log)		29.81
1867					KM SD (logged)	1.318				95% Critical H Value (KM-Log)		2.535
1868					KM Standard Error of Mean (logged)	0.127						
1869												
1870	**DL/2 Statistics**											
1871	**DL/2 Normal**									**DL/2 Log-Transformed**		
1872					Mean in Original Scale	35.67				Mean in Log Scale		2.11
1873					SD in Original Scale	100.8				SD in Log Scale		1.479
1874					95% t UCL (Assumes normality)	51.32				95% H-Stat UCL		35.88
1875	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
1876												
1877	**Nonparametric Distribution Free UCL Statistics**											
1878	**Data do not follow a Discernible Distribution at 5% Significance Level**											
1879												
1880	**Suggested UCL to Use**											
1881					95% KM (Chebyshev) UCL	76.32						
1882												
1883	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1884	Recommendations are based upon data size, data distribution, and skewness.											
1885	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1886	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
1887												
1888	**TPH Motor Oil C23-C32**											
1889												
1890	**General Statistics**											
1891					Total Number of Observations	114				Number of Distinct Observations		64
1892										Number of Missing Observations		507
1893					Number of Detects	80				Number of Non-Detects		34
1894					Number of Distinct Detects	61				Number of Distinct Non-Detects		8
1895					Minimum Detect	4.4				Minimum Non-Detect		4.8
1896					Maximum Detect	3200				Maximum Non-Detect		50
1897					Variance Detects	384032				Percent Non-Detects		29.82%
1898					Mean Detects	242.5				SD Detects		619.7
1899					Median Detects	21				CV Detects		2.555
1900					Skewness Detects	3.487				Kurtosis Detects		12.2
1901					Mean of Logged Detects	3.601				SD of Logged Detects		1.773
1902												
1903	**Normal GOF Test on Detects Only**											
1904					Shapiro Wilk Test Statistic	0.439				**Normal GOF Test on Detected Observations Only**		
1905					5% Shapiro Wilk P Value	0				Detected Data Not Normal at 5% Significance Level		
1906					Lilliefors Test Statistic	0.375				**Lilliefors GOF Test**		
1907					5% Lilliefors Critical Value	0.0991				Detected Data Not Normal at 5% Significance Level		
1908	**Detected Data Not Normal at 5% Significance Level**											

	A	B	C	D	E	F	G	H	I	J	K	L
1909												
1910	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
1911	KM Mean					171.8	KM Standard Error of Mean					49.69
1912	KM SD					527.2	95% KM (BCA) UCL					260.5
1913	95% KM (t) UCL					254.2	95% KM (Percentile Bootstrap) UCL					258.1
1914	95% KM (z) UCL					253.5	95% KM Bootstrap t UCL					295
1915	90% KM Chebyshev UCL					320.8	95% KM Chebyshev UCL					388.3
1916	97.5% KM Chebyshev UCL					482	99% KM Chebyshev UCL					666.1
1917												
1918	**Gamma GOF Tests on Detected Observations Only**											
1919	A-D Test Statistic					8.02	**Anderson-Darling GOF Test**					
1920	5% A-D Critical Value					0.852	Detected Data Not Gamma Distributed at 5% Significance Level					
1921	K-S Test Statistic					0.264	**Kolmogorov-Smirnov GOF**					
1922	5% K-S Critical Value					0.108	Detected Data Not Gamma Distributed at 5% Significance Level					
1923	**Detected Data Not Gamma Distributed at 5% Significance Level**											
1924												
1925	**Gamma Statistics on Detected Data Only**											
1926	k hat (MLE)					0.355	k star (bias corrected MLE)					0.35
1927	Theta hat (MLE)					683	Theta star (bias corrected MLE)					692.8
1928	nu hat (MLE)					56.81	nu star (bias corrected)					56.01
1929	Mean (detects)					242.5						
1930												
1931	**Gamma ROS Statistics using Imputed Non-Detects**											
1932	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
1933	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)											
1934	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
1935	This is especially true when the sample size is small.											
1936	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
1937	Minimum					0.01	Mean					170.2
1938	Maximum					3200	Median					11
1939	SD					530	CV					3.114
1940	k hat (MLE)					0.187	k star (bias corrected MLE)					0.188
1941	Theta hat (MLE)					911.3	Theta star (bias corrected MLE)					906.8
1942	nu hat (MLE)					42.58	nu star (bias corrected)					42.79
1943	Adjusted Level of Significance (β)					0.0479						
1944	Approximate Chi Square Value (42.79, α)					28.79	Adjusted Chi Square Value (42.79, β)					28.64
1945	95% Gamma Approximate UCL (use when n>=50)					252.9	95% Gamma Adjusted UCL (use when n<50)					254.2
1946												
1947	**Estimates of Gamma Parameters using KM Estimates**											
1948	Mean (KM)					171.8	SD (KM)					527.2
1949	Variance (KM)					277904	SE of Mean (KM)					49.69
1950	k hat (KM)					0.106	k star (KM)					0.109
1951	nu hat (KM)					24.2	nu star (KM)					24.9
1952	theta hat (KM)					1618	theta star (KM)					1573
1953	80% gamma percentile (KM)					134.5	90% gamma percentile (KM)					472.7
1954	95% gamma percentile (KM)					990.3	99% gamma percentile (KM)					2610
1955												
1956	**Gamma Kaplan-Meier (KM) Statistics**											
1957	Approximate Chi Square Value (24.90, α)					14.54	Adjusted Chi Square Value (24.90, β)					14.43
1958	95% Gamma Approximate KM-UCL (use when n>=50)					294.2	95% Gamma Adjusted KM-UCL (use when n<50)					296.3
1959												
1960	**Lognormal GOF Test on Detected Observations Only**											
1961	Shapiro Wilk Approximate Test Statistic					0.881	**Shapiro Wilk GOF Test**					

	A	B	C	D	E	F	G	H	I	J	K	L
1962					5% Shapiro Wilk P Value	1.5433E-8	Detected Data Not Lognormal at 5% Significance Level					
1963					Lilliefors Test Statistic	0.138	**Lilliefors GOF Test**					
1964					5% Lilliefors Critical Value	0.0991	Detected Data Not Lognormal at 5% Significance Level					
1965	**Detected Data Not Lognormal at 5% Significance Level**											
1966												
1967	**Lognormal ROS Statistics Using Imputed Non-Detects**											
1968					Mean in Original Scale	170.9				Mean in Log Scale		2.668
1969					SD in Original Scale	529.8				SD in Log Scale		2.138
1970				95% t UCL (assumes normality of ROS data)		253.2				95% Percentile Bootstrap UCL		258.2
1971					95% BCA Bootstrap UCL	285.2				95% Bootstrap t UCL		288.4
1972					95% H-UCL (Log ROS)	286.3						
1973												
1974	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
1975					KM Mean (logged)	3.012				KM Geo Mean		20.33
1976					KM SD (logged)	1.737				95% Critical H Value (KM-Log)		3.006
1977					KM Standard Error of Mean (logged)	0.164				95% H-UCL (KM -Log)		150.1
1978					KM SD (logged)	1.737				95% Critical H Value (KM-Log)		3.006
1979					KM Standard Error of Mean (logged)	0.164						
1980												
1981	**DL/2 Statistics**											
1982				**DL/2 Normal**			**DL/2 Log-Transformed**					
1983					Mean in Original Scale	171.5				Mean in Log Scale		2.916
1984					SD in Original Scale	529.6				SD in Log Scale		1.842
1985					95% t UCL (Assumes normality)	253.8				95% H-Stat UCL		173.5
1986	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
1987												
1988	**Nonparametric Distribution Free UCL Statistics**											
1989	**Data do not follow a Discernible Distribution at 5% Significance Level**											
1990												
1991	**Suggested UCL to Use**											
1992					95% KM (Chebyshev) UCL	388.3						
1993												
1994	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1995	Recommendations are based upon data size, data distribution, and skewness.											
1996	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1997	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
1998												
1999												
2000	**Vanadium**											
2001												
2002	**General Statistics**											
2003					Total Number of Observations	88				Number of Distinct Observations		82
2004										Number of Missing Observations		533
2005					Minimum	6.08				Mean		34.76
2006					Maximum	146				Median		35.9
2007					SD	19.13				Std. Error of Mean		2.039
2008					Coefficient of Variation	0.55				Skewness		2.176
2009												
2010	**Normal GOF Test**											
2011					Shapiro Wilk Test Statistic	0.848	**Shapiro Wilk GOF Test**					
2012					5% Shapiro Wilk P Value	9.147E-13	Data Not Normal at 5% Significance Level					
2013					Lilliefors Test Statistic	0.113	**Lilliefors GOF Test**					
2014					5% Lilliefors Critical Value	0.0946	Data Not Normal at 5% Significance Level					

2015	**Data Not Normal at 5% Significance Level**											
2016												
2017	**Assuming Normal Distribution**											
2018	**95% Normal UCL**						**95% UCLs (Adjusted for Skewness)**					
2019	95% Student's-t UCL				38.15		95% Adjusted-CLT UCL (Chen-1995)					38.62
2020							95% Modified-t UCL (Johnson-1978)					38.23
2021												
2022	**Gamma GOF Test**											
2023	A-D Test Statistic				2.476		**Anderson-Darling Gamma GOF Test**					
2024	5% A-D Critical Value				0.758		Data Not Gamma Distributed at 5% Significance Level					
2025	K-S Test Statistic				0.153		**Kolmogorov-Smirnov Gamma GOF Test**					
2026	5% K-S Critical Value				0.0958		Data Not Gamma Distributed at 5% Significance Level					
2027	**Data Not Gamma Distributed at 5% Significance Level**											
2028												
2029	**Gamma Statistics**											
2030	k hat (MLE)				3.43		k star (bias corrected MLE)					3.32
2031	Theta hat (MLE)				10.14		Theta star (bias corrected MLE)					10.47
2032	nu hat (MLE)				603.6		nu star (bias corrected)					584.4
2033	MLE Mean (bias corrected)				34.76		MLE Sd (bias corrected)					19.08
2034							Approximate Chi Square Value (0.05)					529.3
2035	Adjusted Level of Significance				0.0473		Adjusted Chi Square Value					528.5
2036												
2037	**Assuming Gamma Distribution**											
2038	95% Approximate Gamma UCL (use when n>=50))				38.38		95% Adjusted Gamma UCL (use when n<50)					38.44
2039												
2040	**Lognormal GOF Test**											
2041	Shapiro Wilk Test Statistic				0.912		**Shapiro Wilk Lognormal GOF Test**					
2042	5% Shapiro Wilk P Value				1.7105E-6		Data Not Lognormal at 5% Significance Level					
2043	Lilliefors Test Statistic				0.187		**Lilliefors Lognormal GOF Test**					
2044	5% Lilliefors Critical Value				0.0946		Data Not Lognormal at 5% Significance Level					
2045	**Data Not Lognormal at 5% Significance Level**											
2046												
2047	**Lognormal Statistics**											
2048	Minimum of Logged Data				1.805		Mean of logged Data					3.396
2049	Maximum of Logged Data				4.984		SD of logged Data					0.592
2050												
2051	**Assuming Lognormal Distribution**											
2052	95% H-UCL				40.1		90% Chebyshev (MVUE) UCL					42.67
2053	95% Chebyshev (MVUE) UCL				45.94		97.5% Chebyshev (MVUE) UCL					50.47
2054	99% Chebyshev (MVUE) UCL				59.38							
2055												
2056	**Nonparametric Distribution Free UCL Statistics**											
2057	**Data do not follow a Discernible Distribution (0.05)**											
2058												
2059	**Nonparametric Distribution Free UCLs**											
2060	95% CLT UCL				38.12		95% Jackknife UCL					38.15
2061	95% Standard Bootstrap UCL				38.09		95% Bootstrap-t UCL					38.9
2062	95% Hall's Bootstrap UCL				39.71		95% Percentile Bootstrap UCL					38.12
2063	95% BCA Bootstrap UCL				38.37							
2064	90% Chebyshev(Mean, Sd) UCL				40.88		95% Chebyshev(Mean, Sd) UCL					43.65
2065	97.5% Chebyshev(Mean, Sd) UCL				47.5		99% Chebyshev(Mean, Sd) UCL					55.05
2066												
2067	**Suggested UCL to Use**											

2068					95% Chebyshev (Mean, Sd) UCL	43.65						
2069												
2070	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
2071	Recommendations are based upon data size, data distribution, and skewness.											
2072	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
2073	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
2074												
2075	**Zinc**											
2076												
2077	**General Statistics**											
2078					Total Number of Observations	88				Number of Distinct Observations	82	
2079										Number of Missing Observations	533	
2080					Number of Detects	87				Number of Non-Detects	1	
2081					Number of Distinct Detects	81				Number of Distinct Non-Detects	1	
2082					Minimum Detect	14				Minimum Non-Detect	5.21	
2083					Maximum Detect	1190				Maximum Non-Detect	5.21	
2084					Variance Detects	17455				Percent Non-Detects	1.136%	
2085					Mean Detects	65.29				SD Detects	132.1	
2086					Median Detects	40				CV Detects	2.023	
2087					Skewness Detects	7.59				Kurtosis Detects	63.03	
2088					Mean of Logged Detects	3.804				SD of Logged Detects	0.636	
2089												
2090	**Normal GOF Test on Detects Only**											
2091					Shapiro Wilk Test Statistic	0.288				**Normal GOF Test on Detected Observations Only**		
2092					5% Shapiro Wilk P Value	0				Detected Data Not Normal at 5% Significance Level		
2093					Lilliefors Test Statistic	0.368				**Lilliefors GOF Test**		
2094					5% Lilliefors Critical Value	0.0951				Detected Data Not Normal at 5% Significance Level		
2095	**Detected Data Not Normal at 5% Significance Level**											
2096												
2097	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
2098					KM Mean	64.61				KM Standard Error of Mean	14.02	
2099					KM SD	130.8				95% KM (BCA) UCL	89.4	
2100					95% KM (t) UCL	87.92				95% KM (Percentile Bootstrap) UCL	90.15	
2101					95% KM (z) UCL	87.67				95% KM Bootstrap t UCL	146.6	
2102					90% KM Chebyshev UCL	106.7				95% KM Chebyshev UCL	125.7	
2103					97.5% KM Chebyshev UCL	152.2				99% KM Chebyshev UCL	204.1	
2104												
2105	**Gamma GOF Tests on Detected Observations Only**											
2106					A-D Test Statistic	9.728				**Anderson-Darling GOF Test**		
2107					5% A-D Critical Value	0.772				Detected Data Not Gamma Distributed at 5% Significance Level		
2108					K-S Test Statistic	0.266				**Kolmogorov-Smirnov GOF**		
2109					5% K-S Critical Value	0.0977				Detected Data Not Gamma Distributed at 5% Significance Level		
2110	**Detected Data Not Gamma Distributed at 5% Significance Level**											
2111												
2112	**Gamma Statistics on Detected Data Only**											
2113					k hat (MLE)	1.477				k star (bias corrected MLE)	1.434	
2114					Theta hat (MLE)	44.2				Theta star (bias corrected MLE)	45.53	
2115					nu hat (MLE)	257				nu star (bias corrected)	249.5	
2116					Mean (detects)	65.29						
2117												
2118	**Gamma ROS Statistics using Imputed Non-Detects**											
2119	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
2120	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)											

	A	B	C	D	E	F	G	H	I	J	K	L
2121	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
2122	This is especially true when the sample size is small.											
2123	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
2124					Minimum	0.01				Mean		64.55
2125					Maximum	1190				Median		39.8
2126					SD	131.5				CV		2.038
2127					k hat (MLE)	1.229				k star (bias corrected MLE)		1.194
2128					Theta hat (MLE)	52.54				Theta star (bias corrected MLE)		54.05
2129					nu hat (MLE)	216.2				nu star (bias corrected)		210.2
2130					Adjusted Level of Significance (β)	0.0473						
2131					Approximate Chi Square Value (210.18, α)	177.6				Adjusted Chi Square Value (210.18, β)		177.1
2132					95% Gamma Approximate UCL (use when n>=50)	76.38				95% Gamma Adjusted UCL (use when n<50)		76.59
2133												
2134	**Estimates of Gamma Parameters using KM Estimates**											
2135					Mean (KM)	64.61				SD (KM)		130.8
2136					Variance (KM)	17099				SE of Mean (KM)		14.02
2137					k hat (KM)	0.244				k star (KM)		0.243
2138					nu hat (KM)	42.97				nu star (KM)		42.84
2139					theta hat (KM)	264.7				theta star (KM)		265.5
2140					80% gamma percentile (KM)	92.93				90% gamma percentile (KM)		194.3
2141					95% gamma percentile (KM)	315.2				99% gamma percentile (KM)		638.4
2142												
2143	**Gamma Kaplan-Meier (KM) Statistics**											
2144					Approximate Chi Square Value (42.84, α)	28.83				Adjusted Chi Square Value (42.84, β)		28.64
2145					95% Gamma Approximate KM-UCL (use when n>=50)	96				95% Gamma Adjusted KM-UCL (use when n<50)		96.64
2146												
2147	**Lognormal GOF Test on Detected Observations Only**											
2148					Shapiro Wilk Approximate Test Statistic	0.831				**Shapiro Wilk GOF Test**		
2149					5% Shapiro Wilk P Value	2.653E-14				Detected Data Not Lognormal at 5% Significance Level		
2150					Lilliefors Test Statistic	0.159				**Lilliefors GOF Test**		
2151					5% Lilliefors Critical Value	0.0951				Detected Data Not Lognormal at 5% Significance Level		
2152	**Detected Data Not Lognormal at 5% Significance Level**											
2153												
2154	**Lognormal ROS Statistics Using Imputed Non-Detects**											
2155					Mean in Original Scale	64.66				Mean in Log Scale		3.786
2156					SD in Original Scale	131.5				SD in Log Scale		0.654
2157					95% t UCL (assumes normality of ROS data)	87.96				95% Percentile Bootstrap UCL		90.55
2158					95% BCA Bootstrap UCL	106.6				95% Bootstrap t UCL		147.8
2159					95% H-UCL (Log ROS)	62.64						
2160												
2161	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
2162					KM Mean (logged)	3.779				KM Geo Mean		43.78
2163					KM SD (logged)	0.669				95% Critical H Value (KM-Log)		1.976
2164					KM Standard Error of Mean (logged)	0.0717				95% H-UCL (KM -Log)		63.11
2165					KM SD (logged)	0.669				95% Critical H Value (KM-Log)		1.976
2166					KM Standard Error of Mean (logged)	0.0717						
2167												
2168	**DL/2 Statistics**											
2169	**DL/2 Normal**									**DL/2 Log-Transformed**		
2170					Mean in Original Scale	64.58				Mean in Log Scale		3.771
2171					SD in Original Scale	131.5				SD in Log Scale		0.702
2172					95% t UCL (Assumes normality)	87.89				95% H-Stat UCL		64.64
2173	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											

	A	B	C	D	E	F	G	H	I	J	K	L
2174												
2175	**Nonparametric Distribution Free UCL Statistics**											
2176	**Data do not follow a Discernible Distribution at 5% Significance Level**											
2177												
2178	**Suggested UCL to Use**											
2179	95% KM (Chebyshev) UCL					125.7						
2180												
2181	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
2182	Recommendations are based upon data size, data distribution, and skewness.											
2183	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
2184	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
2185												
2186	**Polychlorinated biphenyls (PCBs)**											
2187												
2188	**General Statistics**											
2189	Total Number of Observations					285		Number of Distinct Observations				108
2190								Number of Missing Observations				375
2191	Number of Detects					147		Number of Non-Detects				138
2192	Number of Distinct Detects					105		Number of Distinct Non-Detects				9
2193	Minimum Detect					0.0193		Minimum Non-Detect				0.01
2194	Maximum Detect					750		Maximum Non-Detect				0.2
2195	Variance Detects					3823		Percent Non-Detects				48.42%
2196	Mean Detects					5.544		SD Detects				61.83
2197	Median Detects					0.067		CV Detects				11.15
2198	Skewness Detects					12.12		Kurtosis Detects				146.9
2199	Mean of Logged Detects					-2.133		SD of Logged Detects				1.61
2200												
2201	**Normal GOF Test on Detects Only**											
2202	Shapiro Wilk Test Statistic					0.0888		**Normal GOF Test on Detected Observations Only**				
2203	5% Shapiro Wilk P Value					0		Detected Data Not Normal at 5% Significance Level				
2204	Lilliefors Test Statistic					0.491		**Lilliefors GOF Test**				
2205	5% Lilliefors Critical Value					0.0735		Detected Data Not Normal at 5% Significance Level				
2206	**Detected Data Not Normal at 5% Significance Level**											
2207												
2208	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
2209	KM Mean					2.871		KM Standard Error of Mean				2.635
2210	KM SD					44.34		95% KM (BCA) UCL				8.177
2211	95% KM (t) UCL					7.221		95% KM (Percentile Bootstrap) UCL				8.134
2212	95% KM (z) UCL					7.206		95% KM Bootstrap t UCL				199.1
2213	90% KM Chebyshev UCL					10.78		95% KM Chebyshev UCL				14.36
2214	97.5% KM Chebyshev UCL					19.33		99% KM Chebyshev UCL				29.09
2215												
2216	**Gamma GOF Tests on Detected Observations Only**											
2217	A-D Test Statistic					34.71		**Anderson-Darling GOF Test**				
2218	5% A-D Critical Value					0.926		Detected Data Not Gamma Distributed at 5% Significance Level				
2219	K-S Test Statistic					0.357		**Kolmogorov-Smirnov GOF**				
2220	5% K-S Critical Value					0.0861		Detected Data Not Gamma Distributed at 5% Significance Level				
2221	**Detected Data Not Gamma Distributed at 5% Significance Level**											
2222												
2223	**Gamma Statistics on Detected Data Only**											
2224	k hat (MLE)					0.193		k star (bias corrected MLE)				0.193
2225	Theta hat (MLE)					28.8		Theta star (bias corrected MLE)				28.71
2226	nu hat (MLE)					56.6		nu star (bias corrected)				56.78

2227					Mean (detects)	5.544						
2228												
2229						**Gamma ROS Statistics using Imputed Non-Detects**							
2230						GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs							
2231						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)							
2232						For such situations, GROS method may yield incorrect values of UCLs and BTVs							
2233						This is especially true when the sample size is small.							
2234						For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates							
2235						Minimum	0.01				Mean	2.864
2236						Maximum	750				Median	0.026
2237						SD	44.42				CV	15.51
2238						k hat (MLE)	0.172				k star (bias corrected MLE)	0.172
2239						Theta hat (MLE)	16.66				Theta star (bias corrected MLE)	16.61
2240						nu hat (MLE)	97.97				nu star (bias corrected)	98.27
2241						Adjusted Level of Significance (β)	0.0492					
2242						Approximate Chi Square Value (98.27, α)	76.41				Adjusted Chi Square Value (98.27, β)	76.31
2243						95% Gamma Approximate UCL (use when n>=50)	3.684				95% Gamma Adjusted UCL (use when n<50)	3.689
2244												
2245						**Estimates of Gamma Parameters using KM Estimates**							
2246						Mean (KM)	2.871				SD (KM)	44.34
2247						Variance (KM)	1966				SE of Mean (KM)	2.635
2248						k hat (KM)	0.00419				k star (KM)	0.00649
2249						nu hat (KM)	2.39				nu star (KM)	3.699
2250						theta hat (KM)	684.7				theta star (KM)	442.5
2251						80% gamma percentile (KM)	2.901E-13				90% gamma percentile (KM)	2.2172E-5
2252						95% gamma percentile (KM)	0.0922				99% gamma percentile (KM)	60.53
2253												
2254						**Gamma Kaplan-Meier (KM) Statistics**							
2255						Approximate Chi Square Value (3.70, α)	0.606				Adjusted Chi Square Value (3.70, β)	0.601
2256						95% Gamma Approximate KM-UCL (use when n>=50)	17.51				95% Gamma Adjusted KM-UCL (use when n<50)	17.69
2257												
2258						**Lognormal GOF Test on Detected Observations Only**							
2259						Shapiro Wilk Approximate Test Statistic	0.823				**Shapiro Wilk GOF Test**	
2260						5% Shapiro Wilk P Value	0				Detected Data Not Lognormal at 5% Significance Level	
2261						Lilliefors Test Statistic	0.188				**Lilliefors GOF Test**	
2262						5% Lilliefors Critical Value	0.0735				Detected Data Not Lognormal at 5% Significance Level	
2263						**Detected Data Not Lognormal at 5% Significance Level**							
2264												
2265						**Lognormal ROS Statistics Using Imputed Non-Detects**							
2266						Mean in Original Scale	2.868				Mean in Log Scale	-3.326
2267						SD in Original Scale	44.42				SD in Log Scale	1.903
2268						95% t UCL (assumes normality of ROS data)	7.21				95% Percentile Bootstrap UCL	8.125
2269						95% BCA Bootstrap UCL	13.31				95% Bootstrap t UCL	199.4
2270						95% H-UCL (Log ROS)	0.309					
2271												
2272						**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**							
2273						KM Mean (logged)	-2.967				KM Geo Mean	0.0515
2274						KM SD (logged)	1.496				95% Critical H Value (KM-Log)	2.592
2275						KM Standard Error of Mean (logged)	0.0958				95% H-UCL (KM -Log)	0.198
2276						KM SD (logged)	1.496				95% Critical H Value (KM-Log)	2.592
2277						KM Standard Error of Mean (logged)	0.0958					
2278												
2279						**DL/2 Statistics**							

	A	B	C	D	E	F	G	H	I	J	K	L
2280	**DL/2 Normal**						**DL/2 Log-Transformed**					
2281					Mean in Original Scale	2.871					Mean in Log Scale	-2.979
2282					SD in Original Scale	44.42					SD in Log Scale	1.5
2283					95% t UCL (Assumes normality)	7.213					95% H-Stat UCL	0.197
2284	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
2285												
2286	**Nonparametric Distribution Free UCL Statistics**											
2287	**Data do not follow a Discernible Distribution at 5% Significance Level**											
2288												
2289	**Suggested UCL to Use**											
2290					95% KM (Chebyshev) UCL	14.36						
2291												
2292	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
2293	Recommendations are based upon data size, data distribution, and skewness.											
2294	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
2295	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
2296												
2297	**Naphthalene**											
2298												
2299	**General Statistics**											
2300					Total Number of Observations	75					Number of Distinct Observations	36
2301											Number of Missing Observations	546
2302					Number of Detects	10					Number of Non-Detects	65
2303					Number of Distinct Detects	10					Number of Distinct Non-Detects	26
2304					Minimum Detect	0.014					Minimum Non-Detect	0.0055
2305					Maximum Detect	0.6					Maximum Non-Detect	0.5
2306					Variance Detects	0.0449					Percent Non-Detects	86.67%
2307					Mean Detects	0.2					SD Detects	0.212
2308					Median Detects	0.124					CV Detects	1.058
2309					Skewness Detects	1.146					Kurtosis Detects	0.0883
2310					Mean of Logged Detects	-2.242					SD of Logged Detects	1.285
2311												
2312	**Normal GOF Test on Detects Only**											
2313					Shapiro Wilk Test Statistic	0.82	**Shapiro Wilk GOF Test**					
2314					5% Shapiro Wilk Critical Value	0.842	Detected Data Not Normal at 5% Significance Level					
2315					Lilliefors Test Statistic	0.218	**Lilliefors GOF Test**					
2316					5% Lilliefors Critical Value	0.262	Detected Data appear Normal at 5% Significance Level					
2317	**Detected Data appear Approximate Normal at 5% Significance Level**											
2318												
2319	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
2320					KM Mean	0.0341					KM Standard Error of Mean	0.0126
2321					KM SD	0.101					95% KM (BCA) UCL	0.0573
2322					95% KM (t) UCL	0.0551					95% KM (Percentile Bootstrap) UCL	0.0558
2323					95% KM (z) UCL	0.0548					95% KM Bootstrap t UCL	0.0684
2324					90% KM Chebyshev UCL	0.0718					95% KM Chebyshev UCL	0.0889
2325					97.5% KM Chebyshev UCL	0.113					99% KM Chebyshev UCL	0.159
2326												
2327	**Gamma GOF Tests on Detected Observations Only**											
2328					A-D Test Statistic	0.362	**Anderson-Darling GOF Test**					
2329					5% A-D Critical Value	0.751	Detected data appear Gamma Distributed at 5% Significance Level					
2330					K-S Test Statistic	0.197	**Kolmogorov-Smirnov GOF**					
2331					5% K-S Critical Value	0.274	Detected data appear Gamma Distributed at 5% Significance Level					
2332	**Detected data appear Gamma Distributed at 5% Significance Level**											

2333												
2334	**Gamma Statistics on Detected Data Only**											
2335					k hat (MLE)	0.92			k star (bias corrected MLE)			0.711
2336					Theta hat (MLE)	0.218			Theta star (bias corrected MLE)			0.282
2337					nu hat (MLE)	18.4			nu star (bias corrected)			14.21
2338					Mean (detects)	0.2						
2339												
2340	**Gamma ROS Statistics using Imputed Non-Detects**											
2341	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
2342	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)											
2343	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
2344	This is especially true when the sample size is small.											
2345	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
2346					Minimum	0.01			Mean			0.036
2347					Maximum	0.6			Median			0.01
2348					SD	0.0985			CV			2.733
2349					k hat (MLE)	0.648			k star (bias corrected MLE)			0.631
2350					Theta hat (MLE)	0.0556			Theta star (bias corrected MLE)			0.0571
2351					nu hat (MLE)	97.19			nu star (bias corrected)			94.64
2352					Adjusted Level of Significance (β)	0.0468						
2353					Approximate Chi Square Value (94.64, α)	73.2			Adjusted Chi Square Value (94.64, β)			72.83
2354					95% Gamma Approximate UCL (use when n>=50)	0.0466			95% Gamma Adjusted UCL (use when n<50)			0.0468
2355												
2356	**Estimates of Gamma Parameters using KM Estimates**											
2357					Mean (KM)	0.0341			SD (KM)			0.101
2358					Variance (KM)	0.0101			SE of Mean (KM)			0.0126
2359					k hat (KM)	0.115			k star (KM)			0.119
2360					nu hat (KM)	17.23			nu star (KM)			17.87
2361					theta hat (KM)	0.297			theta star (KM)			0.286
2362					80% gamma percentile (KM)	0.0297			90% gamma percentile (KM)			0.0964
2363					95% gamma percentile (KM)	0.195			99% gamma percentile (KM)			0.495
2364												
2365	**Gamma Kaplan-Meier (KM) Statistics**											
2366					Approximate Chi Square Value (17.87, α)	9.298			Adjusted Chi Square Value (17.87, β)			9.177
2367					95% Gamma Approximate KM-UCL (use when n>=50)	0.0655			95% Gamma Adjusted KM-UCL (use when n<50)			0.0664
2368												
2369	**Lognormal GOF Test on Detected Observations Only**											
2370					Shapiro Wilk Test Statistic	0.94			**Shapiro Wilk GOF Test**			
2371					5% Shapiro Wilk Critical Value	0.842			Detected Data appear Lognormal at 5% Significance Level			
2372					Lilliefors Test Statistic	0.171			**Lilliefors GOF Test**			
2373					5% Lilliefors Critical Value	0.262			Detected Data appear Lognormal at 5% Significance Level			
2374	**Detected Data appear Lognormal at 5% Significance Level**											
2375												
2376	**Lognormal ROS Statistics Using Imputed Non-Detects**											
2377					Mean in Original Scale	0.0289			Mean in Log Scale			-6.393
2378					SD in Original Scale	0.1			SD in Log Scale			2.158
2379					95% t UCL (assumes normality of ROS data)	0.0482			95% Percentile Bootstrap UCL			0.0502
2380					95% BCA Bootstrap UCL	0.0591			95% Bootstrap t UCL			0.0707
2381					95% H-UCL (Log ROS)	0.0427						
2382												
2383	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
2384					KM Mean (logged)	-4.744			KM Geo Mean			0.00871
2385					KM SD (logged)	1.16			95% Critical H Value (KM-Log)			2.42

2386	KM Standard Error of Mean (logged)					0.152	95% H-UCL (KM -Log)					0.0236
2387	KM SD (logged)					1.16	95% Critical H Value (KM-Log)					2.42
2388	KM Standard Error of Mean (logged)					0.152						
2389												
2390	**DL/2 Statistics**											
2391	**DL/2 Normal**						**DL/2 Log-Transformed**					
2392	Mean in Original Scale					0.0761	Mean in Log Scale					-4.267
2393	SD in Original Scale					0.129	SD in Log Scale					1.816
2394	95% t UCL (Assumes normality)					0.101	95% H-Stat UCL					0.143
2395	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
2396												
2397	**Nonparametric Distribution Free UCL Statistics**											
2398	**Detected Data appear Approximate Normal Distributed at 5% Significance Level**											
2399												
2400	**Suggested UCL to Use**											
2401	95% KM (t) UCL					0.0551						
2402												
2403	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
2404	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
2405												
2406	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
2407	Recommendations are based upon data size, data distribution, and skewness.											
2408	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
2409	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
2410												
2411	**Aroclor-1254_virtual**											
2412												
2413	**General Statistics**											
2414	Total Number of Observations					284	Number of Distinct Observations					61
2415							Number of Missing Observations					376
2416	Number of Detects					59	Number of Non-Detects					225
2417	Number of Distinct Detects					50	Number of Distinct Non-Detects					14
2418	Minimum Detect					0.0175	Minimum Non-Detect					0.01
2419	Maximum Detect					3.5	Maximum Non-Detect					0.2
2420	Variance Detects					0.604	Percent Non-Detects					79.23%
2421	Mean Detects					0.493	SD Detects					0.777
2422	Median Detects					0.15	CV Detects					1.578
2423	Skewness Detects					2.506	Kurtosis Detects					6.115
2424	Mean of Logged Detects					-1.744	SD of Logged Detects					1.489
2425												
2426	**Normal GOF Test on Detects Only**											
2427	Shapiro Wilk Test Statistic					0.635	**Normal GOF Test on Detected Observations Only**					
2428	5% Shapiro Wilk P Value					0	Detected Data Not Normal at 5% Significance Level					
2429	Lilliefors Test Statistic					0.271	**Lilliefors GOF Test**					
2430	5% Lilliefors Critical Value					0.115	Detected Data Not Normal at 5% Significance Level					
2431	**Detected Data Not Normal at 5% Significance Level**											
2432												
2433	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
2434	KM Mean					0.115	KM Standard Error of Mean					0.024
2435	KM SD					0.401	95% KM (BCA) UCL					0.156
2436	95% KM (t) UCL					0.155	95% KM (Percentile Bootstrap) UCL					0.158
2437	95% KM (z) UCL					0.155	95% KM Bootstrap t UCL					0.171
2438	90% KM Chebyshev UCL					0.187	95% KM Chebyshev UCL					0.22

	A	B	C	D	E	F	G	H	I	J	K	L
2439					97.5% KM Chebyshev UCL	0.265				99% KM Chebyshev UCL		0.354
2440												
2441					**Gamma GOF Tests on Detected Observations Only**							
2442					A-D Test Statistic	2.029	**Anderson-Darling GOF Test**					
2443					5% A-D Critical Value	0.807	Detected Data Not Gamma Distributed at 5% Significance Level					
2444					K-S Test Statistic	0.156	**Kolmogorov-Smirnov GOF**					
2445					5% K-S Critical Value	0.122	Detected Data Not Gamma Distributed at 5% Significance Level					
2446					**Detected Data Not Gamma Distributed at 5% Significance Level**							
2447												
2448					**Gamma Statistics on Detected Data Only**							
2449					k hat (MLE)	0.597				k star (bias corrected MLE)		0.578
2450					Theta hat (MLE)	0.825				Theta star (bias corrected MLE)		0.853
2451					nu hat (MLE)	70.43				nu star (bias corrected)		68.18
2452					Mean (detects)	0.493						
2453												
2454					**Gamma ROS Statistics using Imputed Non-Detects**							
2455					GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs							
2456					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)							
2457					For such situations, GROS method may yield incorrect values of UCLs and BTVs							
2458					This is especially true when the sample size is small.							
2459					For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates							
2460					Minimum	0.01				Mean		0.111
2461					Maximum	3.5				Median		0.01
2462					SD	0.403				CV		3.643
2463					k hat (MLE)	0.371				k star (bias corrected MLE)		0.369
2464					Theta hat (MLE)	0.298				Theta star (bias corrected MLE)		0.299
2465					nu hat (MLE)	210.7				nu star (bias corrected)		209.8
2466					Adjusted Level of Significance (β)	0.0492						
2467					Approximate Chi Square Value (209.84, α)	177.3				Adjusted Chi Square Value (209.84, β)		177.2
2468					95% Gamma Approximate UCL (use when n>=50)	0.131				95% Gamma Adjusted UCL (use when n<50)		0.131
2469												
2470					**Estimates of Gamma Parameters using KM Estimates**							
2471					Mean (KM)	0.115				SD (KM)		0.401
2472					Variance (KM)	0.161				SE of Mean (KM)		0.024
2473					k hat (KM)	0.0823				k star (KM)		0.0838
2474					nu hat (KM)	46.76				nu star (KM)		47.6
2475					theta hat (KM)	1.398				theta star (KM)		1.373
2476					80% gamma percentile (KM)	0.0598				90% gamma percentile (KM)		0.281
2477					95% gamma percentile (KM)	0.67				99% gamma percentile (KM)		1.993
2478												
2479					**Gamma Kaplan-Meier (KM) Statistics**							
2480					Approximate Chi Square Value (47.60, α)	32.76				Adjusted Chi Square Value (47.60, β)		32.7
2481					95% Gamma Approximate KM-UCL (use when n>=50)	0.167				95% Gamma Adjusted KM-UCL (use when n<50)		0.167
2482												
2483					**Lognormal GOF Test on Detected Observations Only**							
2484					Shapiro Wilk Approximate Test Statistic	0.931	**Shapiro Wilk GOF Test**					
2485					5% Shapiro Wilk P Value	0.00289	Detected Data Not Lognormal at 5% Significance Level					
2486					Lilliefors Test Statistic	0.122	**Lilliefors GOF Test**					
2487					5% Lilliefors Critical Value	0.115	Detected Data Not Lognormal at 5% Significance Level					
2488					**Detected Data Not Lognormal at 5% Significance Level**							
2489												
2490					**Lognormal ROS Statistics Using Imputed Non-Detects**							
2491					Mean in Original Scale	0.111				Mean in Log Scale		-5.016

2492					SD in Original Scale	0.403				SD in Log Scale		2.471
2493				95% t UCL (assumes normality of ROS data)		0.15				95% Percentile Bootstrap UCL		0.153
2494					95% BCA Bootstrap UCL	0.161				95% Bootstrap t UCL		0.165
2495					95% H-UCL (Log ROS)	0.241						
2496												
2497	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
2498					KM Mean (logged)	-3.757				KM Geo Mean		0.0233
2499					KM SD (logged)	1.313				95% Critical H Value (KM-Log)		2.412
2500				KM Standard Error of Mean (logged)		0.0997				95% H-UCL (KM -Log)		0.0667
2501					KM SD (logged)	1.313				95% Critical H Value (KM-Log)		2.412
2502				KM Standard Error of Mean (logged)		0.0997						
2503												
2504	**DL/2 Statistics**											
2505	**DL/2 Normal**						**DL/2 Log-Transformed**					
2506					Mean in Original Scale	0.121				Mean in Log Scale		-3.426
2507					SD in Original Scale	0.4				SD in Log Scale		1.186
2508					95% t UCL (Assumes normality)	0.16				95% H-Stat UCL		0.0772
2509	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
2510												
2511	**Nonparametric Distribution Free UCL Statistics**											
2512	**Data do not follow a Discernible Distribution at 5% Significance Level**											
2513												
2514	**Suggested UCL to Use**											
2515					95% KM (Chebyshev) UCL	0.22						
2516												
2517	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
2518	Recommendations are based upon data size, data distribution, and skewness.											
2519	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
2520	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
2521												
2522	**Aroclor-1260_virtual**											
2523												
2524	**General Statistics**											
2525					Total Number of Observations	283				Number of Distinct Observations		73
2526										Number of Missing Observations		377
2527					Number of Detects	115				Number of Non-Detects		168
2528					Number of Distinct Detects	70				Number of Distinct Non-Detects		11
2529					Minimum Detect	0.0129				Minimum Non-Detect		0.01
2530					Maximum Detect	3.5				Maximum Non-Detect		0.2
2531					Variance Detects	0.316				Percent Non-Detects		59.36%
2532					Mean Detects	0.285				SD Detects		0.562
2533					Median Detects	0.063				CV Detects		1.967
2534					Skewness Detects	3.1				Kurtosis Detects		10.92
2535					Mean of Logged Detects	-2.346				SD of Logged Detects		1.3
2536												
2537	**Normal GOF Test on Detects Only**											
2538					Shapiro Wilk Test Statistic	0.526	**Normal GOF Test on Detected Observations Only**					
2539					5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level					
2540					Lilliefors Test Statistic	0.359	**Lilliefors GOF Test**					
2541					5% Lilliefors Critical Value	0.0829	Detected Data Not Normal at 5% Significance Level					
2542	**Detected Data Not Normal at 5% Significance Level**											
2543												
2544	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											

2545	KM Mean					0.129	KM Standard Error of Mean					0.0227
2546	KM SD					0.38	95% KM (BCA) UCL					0.169
2547	95% KM (t) UCL					0.166	95% KM (Percentile Bootstrap) UCL					0.169
2548	95% KM (z) UCL					0.166	95% KM Bootstrap t UCL					0.177
2549	90% KM Chebyshev UCL					0.197	95% KM Chebyshev UCL					0.227
2550	97.5% KM Chebyshev UCL					0.27	99% KM Chebyshev UCL					0.354
2551												
2552	**Gamma GOF Tests on Detected Observations Only**											
2553	A-D Test Statistic					12.12	**Anderson-Darling GOF Test**					
2554	5% A-D Critical Value					0.812	Detected Data Not Gamma Distributed at 5% Significance Level					
2555	K-S Test Statistic					0.274	**Kolmogorov-Smirnov GOF**					
2556	5% K-S Critical Value					0.0901	Detected Data Not Gamma Distributed at 5% Significance Level					
2557	**Detected Data Not Gamma Distributed at 5% Significance Level**											
2558												
2559	**Gamma Statistics on Detected Data Only**											
2560	k hat (MLE)					0.57	k star (bias corrected MLE)					0.561
2561	Theta hat (MLE)					0.501	Theta star (bias corrected MLE)					0.509
2562	nu hat (MLE)					131.1	nu star (bias corrected)					129
2563	Mean (detects)					0.285						
2564												
2565	**Gamma ROS Statistics using Imputed Non-Detects**											
2566	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
2567	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)											
2568	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
2569	This is especially true when the sample size is small.											
2570	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
2571	Minimum					0.01	Mean					0.122
2572	Maximum					3.5	Median					0.01
2573	SD					0.382	CV					3.121
2574	k hat (MLE)					0.417	k star (bias corrected MLE)					0.415
2575	Theta hat (MLE)					0.293	Theta star (bias corrected MLE)					0.295
2576	nu hat (MLE)					236.2	nu star (bias corrected)					235
2577	Adjusted Level of Significance (β)					0.0492						
2578	Approximate Chi Square Value (235.02, α)					200.5	Adjusted Chi Square Value (235.02, β)					200.4
2579	95% Gamma Approximate UCL (use when n>=50)					0.143	95% Gamma Adjusted UCL (use when n<50)					0.144
2580												
2581	**Estimates of Gamma Parameters using KM Estimates**											
2582	Mean (KM)					0.129	SD (KM)					0.38
2583	Variance (KM)					0.144	SE of Mean (KM)					0.0227
2584	k hat (KM)					0.115	k star (KM)					0.116
2585	nu hat (KM)					64.89	nu star (KM)					65.54
2586	theta hat (KM)					1.121	theta star (KM)					1.11
2587	80% gamma percentile (KM)					0.108	90% gamma percentile (KM)					0.36
2588	95% gamma percentile (KM)					0.737	99% gamma percentile (KM)					1.895
2589												
2590	**Gamma Kaplan-Meier (KM) Statistics**											
2591	Approximate Chi Square Value (65.54, α)					47.91	Adjusted Chi Square Value (65.54, β)					47.84
2592	95% Gamma Approximate KM-UCL (use when n>=50)					0.176	95% Gamma Adjusted KM-UCL (use when n<50)					0.176
2593												
2594	**Lognormal GOF Test on Detected Observations Only**											
2595	Shapiro Wilk Approximate Test Statistic					0.853	**Shapiro Wilk GOF Test**					
2596	5% Shapiro Wilk P Value					0	Detected Data Not Lognormal at 5% Significance Level					
2597	Lilliefors Test Statistic					0.189	**Lilliefors GOF Test**					

2598				5% Lilliefors Critical Value		0.0829	Detected Data Not Lognormal at 5% Significance Level					
2599	**Detected Data Not Lognormal at 5% Significance Level**											
2600												
2601	**Lognormal ROS Statistics Using Imputed Non-Detects**											
2602				Mean in Original Scale		0.126				Mean in Log Scale		-3.757
2603				SD in Original Scale		0.381				SD in Log Scale		1.703
2604				95% t UCL (assumes normality of ROS data)		0.163				95% Percentile Bootstrap UCL		0.166
2605				95% BCA Bootstrap UCL		0.175				95% Bootstrap t UCL		0.171
2606				95% H-UCL (Log ROS)		0.132						
2607												
2608	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
2609				KM Mean (logged)		-3.355				KM Geo Mean		0.0349
2610				KM SD (logged)		1.262				95% Critical H Value (KM-Log)		2.364
2611				KM Standard Error of Mean (logged)		0.087				95% H-UCL (KM -Log)		0.0925
2612				KM SD (logged)		1.262				95% Critical H Value (KM-Log)		2.364
2613				KM Standard Error of Mean (logged)		0.087						
2614												
2615	**DL/2 Statistics**											
2616	**DL/2 Normal**						**DL/2 Log-Transformed**					
2617				Mean in Original Scale		0.129				Mean in Log Scale		-3.281
2618				SD in Original Scale		0.38				SD in Log Scale		1.218
2619				95% t UCL (Assumes normality)		0.167				95% H-Stat UCL		0.0934
2620	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
2621												
2622	**Nonparametric Distribution Free UCL Statistics**											
2623	**Data do not follow a Discernible Distribution at 5% Significance Level**											
2624												
2625	**Suggested UCL to Use**											
2626				95% KM (Chebyshev) UCL		0.227						
2627												
2628	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
2629	Recommendations are based upon data size, data distribution, and skewness.											
2630	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
2631	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
2632												
2633	**Polychlorinated biphenyls (PCBs)_virtual**											
2634												
2635	**General Statistics**											
2636				Total Number of Observations		284				Number of Distinct Observations		107
2637										Number of Missing Observations		376
2638				Number of Detects		146				Number of Non-Detects		138
2639				Number of Distinct Detects		104				Number of Distinct Non-Detects		9
2640				Minimum Detect		0.0193				Minimum Non-Detect		0.01
2641				Maximum Detect		6.3				Maximum Non-Detect		0.2
2642				Variance Detects		1.036				Percent Non-Detects		48.59%
2643				Mean Detects		0.445				SD Detects		1.018
2644				Median Detects		0.067				CV Detects		2.288
2645				Skewness Detects		3.493				Kurtosis Detects		13.19
2646				Mean of Logged Detects		-2.193				SD of Logged Detects		1.442
2647												
2648	**Normal GOF Test on Detects Only**											
2649				Shapiro Wilk Test Statistic		0.473	**Normal GOF Test on Detected Observations Only**					
2650				5% Shapiro Wilk P Value		0	Detected Data Not Normal at 5% Significance Level					

	A	B	C	D	E	F	G	H	I	J	K	L
2651					Lilliefors Test Statistic	0.374	**Lilliefors GOF Test**					
2652					5% Lilliefors Critical Value	0.0737	Detected Data Not Normal at 5% Significance Level					
2653	**Detected Data Not Normal at 5% Significance Level**											
2654												
2655	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
2656					KM Mean	0.241				KM Standard Error of Mean		0.0451
2657					KM SD	0.757				95% KM (BCA) UCL		0.316
2658					95% KM (t) UCL	0.315				95% KM (Percentile Bootstrap) UCL		0.317
2659					95% KM (z) UCL	0.315				95% KM Bootstrap t UCL		0.338
2660					90% KM Chebyshev UCL	0.376				95% KM Chebyshev UCL		0.437
2661					97.5% KM Chebyshev UCL	0.522				99% KM Chebyshev UCL		0.689
2662												
2663	**Gamma GOF Tests on Detected Observations Only**											
2664					A-D Test Statistic	16.71	**Anderson-Darling GOF Test**					
2665					5% A-D Critical Value	0.828	Detected Data Not Gamma Distributed at 5% Significance Level					
2666					K-S Test Statistic	0.258	**Kolmogorov-Smirnov GOF**					
2667					5% K-S Critical Value	0.0824	Detected Data Not Gamma Distributed at 5% Significance Level					
2668	**Detected Data Not Gamma Distributed at 5% Significance Level**											
2669												
2670	**Gamma Statistics on Detected Data Only**											
2671					k hat (MLE)	0.465				k star (bias corrected MLE)		0.46
2672					Theta hat (MLE)	0.957				Theta star (bias corrected MLE)		0.968
2673					nu hat (MLE)	135.7				nu star (bias corrected)		134.2
2674					Mean (detects)	0.445						
2675												
2676	**Gamma ROS Statistics using Imputed Non-Detects**											
2677	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
2678	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)											
2679	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
2680	This is especially true when the sample size is small.											
2681	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
2682					Minimum	0.01				Mean		0.234
2683					Maximum	6.3				Median		0.0255
2684					SD	0.76				CV		3.256
2685					k hat (MLE)	0.352				k star (bias corrected MLE)		0.35
2686					Theta hat (MLE)	0.664				Theta star (bias corrected MLE)		0.667
2687					nu hat (MLE)	199.8				nu star (bias corrected)		199
2688					Adjusted Level of Significance (β)	0.0492						
2689					Approximate Chi Square Value (198.98, α)	167.3				Adjusted Chi Square Value (198.98, β)		167.2
2690					95% Gamma Approximate UCL (use when n>=50)	0.278				95% Gamma Adjusted UCL (use when n<50)		0.278
2691												
2692	**Estimates of Gamma Parameters using KM Estimates**											
2693					Mean (KM)	0.241				SD (KM)		0.757
2694					Variance (KM)	0.573				SE of Mean (KM)		0.0451
2695					k hat (KM)	0.101				k star (KM)		0.102
2696					nu hat (KM)	57.44				nu star (KM)		58.17
2697					theta hat (KM)	2.38				theta star (KM)		2.35
2698					80% gamma percentile (KM)	0.173				90% gamma percentile (KM)		0.647
2699					95% gamma percentile (KM)	1.395				99% gamma percentile (KM)		3.778
2700												
2701	**Gamma Kaplan-Meier (KM) Statistics**											
2702					Approximate Chi Square Value (58.17, α)	41.64				Adjusted Chi Square Value (58.17, β)		41.57
2703					95% Gamma Approximate KM-UCL (use when n>=50)	0.336				95% Gamma Adjusted KM-UCL (use when n<50)		0.337

	A	B	C	D	E	F	G	H	I	J	K	L
2704												
2705	**Lognormal GOF Test on Detected Observations Only**											
2706	Shapiro Wilk Approximate Test Statistic					0.837	**Shapiro Wilk GOF Test**					
2707	5% Shapiro Wilk P Value					0	Detected Data Not Lognormal at 5% Significance Level					
2708	Lilliefors Test Statistic					0.185	**Lilliefors GOF Test**					
2709	5% Lilliefors Critical Value					0.0737	Detected Data Not Lognormal at 5% Significance Level					
2710	**Detected Data Not Lognormal at 5% Significance Level**											
2711												
2712	**Lognormal ROS Statistics Using Imputed Non-Detects**											
2713	Mean in Original Scale					0.238	Mean in Log Scale					-3.291
2714	SD in Original Scale					0.759	SD in Log Scale					1.731
2715	95% t UCL (assumes normality of ROS data)					0.313	95% Percentile Bootstrap UCL					0.321
2716	95% BCA Bootstrap UCL					0.325	95% Bootstrap t UCL					0.336
2717	95% H-UCL (Log ROS)					0.223						
2718												
2719	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
2720	KM Mean (logged)					-3.001	KM Geo Mean					0.0498
2721	KM SD (logged)					1.386	95% Critical H Value (KM-Log)					2.482
2722	KM Standard Error of Mean (logged)					0.09	95% H-UCL (KM -Log)					0.16
2723	KM SD (logged)					1.386	95% Critical H Value (KM-Log)					2.482
2724	KM Standard Error of Mean (logged)					0.09						
2725												
2726	**DL/2 Statistics**											
2727	**DL/2 Normal**						**DL/2 Log-Transformed**					
2728	Mean in Original Scale					0.24	Mean in Log Scale					-3.013
2729	SD in Original Scale					0.758	SD in Log Scale					1.39
2730	95% t UCL (Assumes normality)					0.314	95% H-Stat UCL					0.159
2731	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
2732												
2733	**Nonparametric Distribution Free UCL Statistics**											
2734	**Data do not follow a Discernible Distribution at 5% Significance Level**											
2735												
2736	**Suggested UCL to Use**											
2737	95% KM (Chebyshev) UCL					0.437						
2738												
2739	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
2740	Recommendations are based upon data size, data distribution, and skewness.											
2741	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
2742	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
2743												

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.13/2/2023 9:21:02 PM
From File	Final ProUCL Input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

2-Butanone

General Statistics

Total Number of Observations	174	Number of Distinct Observations	48
		Number of Missing Observations	463
Number of Detects	38	Number of Non-Detects	136
Number of Distinct Detects	29	Number of Distinct Non-Detects	29
Minimum Detect	0.0036	Minimum Non-Detect	0.0037
Maximum Detect	0.051	Maximum Non-Detect	0.031
Variance Detects	9.2686E-5	Percent Non-Detects	78.16%
Mean Detects	0.0114	SD Detects	0.00963
Median Detects	0.00855	CV Detects	0.847
Skewness Detects	2.542	Kurtosis Detects	7.828
Mean of Logged Detects	-4.716	SD of Logged Detects	0.664

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.727	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.938	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.21	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.142	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.00714	KM Standard Error of Mean	5.8812E-4
KM SD	0.00586	95% KM (BCA) UCL	0.00814
95% KM (t) UCL	0.00811	95% KM (Percentile Bootstrap) UCL	0.00811
95% KM (z) UCL	0.00811	95% KM Bootstrap t UCL	0.00829
90% KM Chebyshev UCL	0.00891	95% KM Chebyshev UCL	0.00971
97.5% KM Chebyshev UCL	0.0108	99% KM Chebyshev UCL	0.013

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.97	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.758	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.124	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.145	Detected data appear Gamma Distributed at 5% Significance Level

Detected data follow Appr. Gamma Distribution at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	2.238	k star (bias corrected MLE)	2.079
Theta hat (MLE)	0.00508	Theta star (bias corrected MLE)	0.00547
nu hat (MLE)	170.1	nu star (bias corrected)	158
Mean (detects)	0.0114		

Gamma ROS Statistics using Imputed Non-Detects

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	0.0036				Mean	0.0107
60						Maximum	0.051				Median	0.01
61						SD	0.00466				CV	0.437
62						k hat (MLE)	8.621				k star (bias corrected MLE)	8.476
63						Theta hat (MLE)	0.00124				Theta star (bias corrected MLE)	0.00126
64						nu hat (MLE)	3000				nu star (bias corrected)	2950
65						Adjusted Level of Significance (β)	0.0486					
66						Approximate Chi Square Value (N/A, α)	2824				Adjusted Chi Square Value (N/A, β)	2823
67						95% Gamma Approximate UCL (use when n>=50)	0.0111				95% Gamma Adjusted UCL (use when n<50)	0.0111
68												
69	**Estimates of Gamma Parameters using KM Estimates**											
70						Mean (KM)	0.00714				SD (KM)	0.00586
71						Variance (KM)	3.4287E-5				SE of Mean (KM)	5.8812E-4
72						k hat (KM)	1.488				k star (KM)	1.466
73						nu hat (KM)	517.8				nu star (KM)	510.2
74						theta hat (KM)	0.0048				theta star (KM)	0.00487
75						80% gamma percentile (KM)	0.0111				90% gamma percentile (KM)	0.015
76						95% gamma percentile (KM)	0.0187				99% gamma percentile (KM)	0.0273
77												
78	**Gamma Kaplan-Meier (KM) Statistics**											
79						Approximate Chi Square Value (510.17, α)	458.8				Adjusted Chi Square Value (510.17, β)	458.4
80						95% Gamma Approximate KM-UCL (use when n>=50)	0.00794				95% Gamma Adjusted KM-UCL (use when n<50)	0.00795
81												
82	**Lognormal GOF Test on Detected Observations Only**											
83						Shapiro Wilk Test Statistic	0.944				**Shapiro Wilk GOF Test**	
84						5% Shapiro Wilk Critical Value	0.938				Detected Data appear Lognormal at 5% Significance Level	
85						Lilliefors Test Statistic	0.106				**Lilliefors GOF Test**	
86						5% Lilliefors Critical Value	0.142				Detected Data appear Lognormal at 5% Significance Level	
87	**Detected Data appear Lognormal at 5% Significance Level**											
88												
89	**Lognormal ROS Statistics Using Imputed Non-Detects**											
90						Mean in Original Scale	0.00679				Mean in Log Scale	-5.205
91						SD in Original Scale	0.00575				SD in Log Scale	0.615
92						95% t UCL (assumes normality of ROS data)	0.00751				95% Percentile Bootstrap UCL	0.00753
93						95% BCA Bootstrap UCL	0.00767				95% Bootstrap t UCL	0.00774
94						95% H-UCL (Log ROS)	0.00724					
95												
96	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
97						KM Mean (logged)	-5.132				KM Geo Mean	0.0059
98						KM SD (logged)	0.557				95% Critical H Value (KM-Log)	1.844
99						KM Standard Error of Mean (logged)	0.0668				95% H-UCL (KM -Log)	0.00745
100						KM SD (logged)	0.557				95% Critical H Value (KM-Log)	1.844
101						KM Standard Error of Mean (logged)	0.0668					
102												
103	**DL/2 Statistics**											
104	**DL/2 Normal**										**DL/2 Log-Transformed**	
105						Mean in Original Scale	0.00884				Mean in Log Scale	-4.876
106						SD in Original Scale	0.00534				SD in Log Scale	0.57

107	95% t UCL (Assumes normality)					0.00951	95% H-Stat UCL					0.00972
108	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
109												
110	**Nonparametric Distribution Free UCL Statistics**											
111	**Detected Data appear Approximate Gamma Distributed at 5% Significance Level**											
112												
113	**Suggested UCL to Use**											
114	95% KM Approximate Gamma UCL					0.00794	95% GROS Approximate Gamma UCL					0.0111
115												
116	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
117	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
118												
119	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
120	Recommendations are based upon data size, data distribution, and skewness.											
121	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
122	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
123												
124	**Acetone**											
125												
126	**General Statistics**											
127	Total Number of Observations					174	Number of Distinct Observations					56
128							Number of Missing Observations					463
129	Number of Detects					127	Number of Non-Detects					47
130	Number of Distinct Detects					52	Number of Distinct Non-Detects					20
131	Minimum Detect					0.0086	Minimum Non-Detect					0.0094
132	Maximum Detect					0.24	Maximum Non-Detect					0.03
133	Variance Detects					0.00128	Percent Non-Detects					27.01%
134	Mean Detects					0.0325	SD Detects					0.0358
135	Median Detects					0.021	CV Detects					1.103
136	Skewness Detects					3.674	Kurtosis Detects					16.24
137	Mean of Logged Detects					-3.723	SD of Logged Detects					0.68
138												
139	**Normal GOF Test on Detects Only**											
140	Shapiro Wilk Test Statistic					0.58	**Normal GOF Test on Detected Observations Only**					
141	5% Shapiro Wilk P Value					0	Detected Data Not Normal at 5% Significance Level					
142	Lilliefors Test Statistic					0.284	**Lilliefors GOF Test**					
143	5% Lilliefors Critical Value					0.079	Detected Data Not Normal at 5% Significance Level					
144	**Detected Data Not Normal at 5% Significance Level**											
145												
146	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
147	KM Mean					0.0269	KM Standard Error of Mean					0.00243
148	KM SD					0.0319	95% KM (BCA) UCL					0.0314
149	95% KM (t) UCL					0.0309	95% KM (Percentile Bootstrap) UCL					0.031
150	95% KM (z) UCL					0.0309	95% KM Bootstrap t UCL					0.0322
151	90% KM Chebyshev UCL					0.0342	95% KM Chebyshev UCL					0.0375
152	97.5% KM Chebyshev UCL					0.042	99% KM Chebyshev UCL					0.0511
153												
154	**Gamma GOF Tests on Detected Observations Only**											
155	A-D Test Statistic					7.19	**Anderson-Darling GOF Test**					
156	5% A-D Critical Value					0.767	Detected Data Not Gamma Distributed at 5% Significance Level					
157	K-S Test Statistic					0.203	**Kolmogorov-Smirnov GOF**					
158	5% K-S Critical Value					0.0837	Detected Data Not Gamma Distributed at 5% Significance Level					
159	**Detected Data Not Gamma Distributed at 5% Significance Level**											

160											
161	**Gamma Statistics on Detected Data Only**										
162					k hat (MLE)	1.836		k star (bias corrected MLE)			1.798
163					Theta hat (MLE)	0.0177		Theta star (bias corrected MLE)			0.0181
164					nu hat (MLE)	466.4		nu star (bias corrected)			456.8
165					Mean (detects)	0.0325					
166											
167	**Gamma ROS Statistics using Imputed Non-Detects**										
168	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs										
169	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)										
170	For such situations, GROS method may yield incorrect values of UCLs and BTVs										
171	This is especially true when the sample size is small.										
172	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates										
173					Minimum	0.0086		Mean			0.0265
174					Maximum	0.24		Median			0.0167
175					SD	0.0321		CV			1.214
176					k hat (MLE)	1.686		k star (bias corrected MLE)			1.661
177					Theta hat (MLE)	0.0157		Theta star (bias corrected MLE)			0.0159
178					nu hat (MLE)	586.8		nu star (bias corrected)			578
179					Adjusted Level of Significance (β)	0.0486					
180					Approximate Chi Square Value (578.04, α)	523.3		Adjusted Chi Square Value (578.04, β)			522.8
181					95% Gamma Approximate UCL (use when n>=50)	0.0292		95% Gamma Adjusted UCL (use when n<50)			0.0293
182											
183	**Estimates of Gamma Parameters using KM Estimates**										
184					Mean (KM)	0.0269		SD (KM)			0.0319
185					Variance (KM)	0.00102		SE of Mean (KM)			0.00243
186					k hat (KM)	0.708		k star (KM)			0.7
187					nu hat (KM)	246.5		nu star (KM)			243.6
188					theta hat (KM)	0.0379		theta star (KM)			0.0384
189					80% gamma percentile (KM)	0.0441		90% gamma percentile (KM)			0.0674
190					95% gamma percentile (KM)	0.0914		99% gamma percentile (KM)			0.149
191											
192	**Gamma Kaplan-Meier (KM) Statistics**										
193					Approximate Chi Square Value (243.56, α)	208.4		Adjusted Chi Square Value (243.56, β)			208.2
194					95% Gamma Approximate KM-UCL (use when n>=50)	0.0314		95% Gamma Adjusted KM-UCL (use when n<50)			0.0314
195											
196	**Lognormal GOF Test on Detected Observations Only**										
197					Shapiro Wilk Approximate Test Statistic	0.905		**Shapiro Wilk GOF Test**			
198					5% Shapiro Wilk P Value	3.861E-11		Detected Data Not Lognormal at 5% Significance Level			
199					Lilliefors Test Statistic	0.138		**Lilliefors GOF Test**			
200					5% Lilliefors Critical Value	0.079		Detected Data Not Lognormal at 5% Significance Level			
201	**Detected Data Not Lognormal at 5% Significance Level**										
202											
203	**Lognormal ROS Statistics Using Imputed Non-Detects**										
204					Mean in Original Scale	0.0264		Mean in Log Scale			-3.978
205					SD in Original Scale	0.0322		SD in Log Scale			0.744
206					95% t UCL (assumes normality of ROS data)	0.0305		95% Percentile Bootstrap UCL			0.0306
207					95% BCA Bootstrap UCL	0.0312		95% Bootstrap t UCL			0.0316
208					95% H-UCL (Log ROS)	0.0276					
209											
210	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**										
211					KM Mean (logged)	-3.931		KM Geo Mean			0.0196
212					KM SD (logged)	0.686		95% Critical H Value (KM-Log)			1.924

213	KM Standard Error of Mean (logged)					0.0532	95% H-UCL (KM -Log)					0.0275
214	KM SD (logged)					0.686	95% Critical H Value (KM-Log)					1.924
215	KM Standard Error of Mean (logged)					0.0532						
216												
217	**DL/2 Statistics**											
218	**DL/2 Normal**						**DL/2 Log-Transformed**					
219	Mean in Original Scale					0.026	Mean in Log Scale					-4.021
220	SD in Original Scale					0.0324	SD in Log Scale					0.779
221	95% t UCL (Assumes normality)					0.03	95% H-Stat UCL					0.0273
222	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
223												
224	**Nonparametric Distribution Free UCL Statistics**											
225	**Data do not follow a Discernible Distribution at 5% Significance Level**											
226												
227	**Suggested UCL to Use**											
228	95% KM (Chebyshev) UCL					0.0375						
229												
230	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
231	Recommendations are based upon data size, data distribution, and skewness.											
232	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
233	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
234												
235	**Antimony**											
236												
237	**General Statistics**											
238	Total Number of Observations					166	Number of Distinct Observations					48
239							Number of Missing Observations					471
240	Number of Detects					15	Number of Non-Detects					151
241	Number of Distinct Detects					15	Number of Distinct Non-Detects					33
242	Minimum Detect					0.167	Minimum Non-Detect					0.145
243	Maximum Detect					1.6	Maximum Non-Detect					10.3
244	Variance Detects					0.162	Percent Non-Detects					90.96%
245	Mean Detects					0.543	SD Detects					0.402
246	Median Detects					0.44	CV Detects					0.74
247	Skewness Detects					1.848	Kurtosis Detects					3.115
248	Mean of Logged Detects					-0.813	SD of Logged Detects					0.636
249												
250	**Normal GOF Test on Detects Only**											
251	Shapiro Wilk Test Statistic					0.77	**Shapiro Wilk GOF Test**					
252	5% Shapiro Wilk Critical Value					0.881	Detected Data Not Normal at 5% Significance Level					
253	Lilliefors Test Statistic					0.293	**Lilliefors GOF Test**					
254	5% Lilliefors Critical Value					0.22	Detected Data Not Normal at 5% Significance Level					
255	**Detected Data Not Normal at 5% Significance Level**											
256												
257	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
258	KM Mean					0.256	KM Standard Error of Mean					0.0302
259	KM SD					0.225	95% KM (BCA) UCL					0.309
260	95% KM (t) UCL					0.306	95% KM (Percentile Bootstrap) UCL					0.309
261	95% KM (z) UCL					0.306	95% KM Bootstrap t UCL					0.318
262	90% KM Chebyshev UCL					0.347	95% KM Chebyshev UCL					0.388
263	97.5% KM Chebyshev UCL					0.445	99% KM Chebyshev UCL					0.557
264												
265	**Gamma GOF Tests on Detected Observations Only**											

266					A-D Test Statistic	0.588	**Anderson-Darling GOF Test**					
267					5% A-D Critical Value	0.745	Detected data appear Gamma Distributed at 5% Significance Level					
268					K-S Test Statistic	0.21	**Kolmogorov-Smirnov GOF**					
269					5% K-S Critical Value	0.224	Detected data appear Gamma Distributed at 5% Significance Level					
270	**Detected data appear Gamma Distributed at 5% Significance Level**											
271												
272	**Gamma Statistics on Detected Data Only**											
273					k hat (MLE)	2.631				k star (bias corrected MLE)	2.15	
274					Theta hat (MLE)	0.206				Theta star (bias corrected MLE)	0.252	
275					nu hat (MLE)	78.94				nu star (bias corrected)	64.49	
276					Mean (detects)	0.543						
277												
278	**Gamma ROS Statistics using Imputed Non-Detects**											
279	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
280	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)											
281	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
282	This is especially true when the sample size is small.											
283	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
284					Minimum	0.01				Mean	0.144	
285					Maximum	1.6				Median	0.01	
286					SD	0.243				CV	1.681	
287					k hat (MLE)	0.466				k star (bias corrected MLE)	0.462	
288					Theta hat (MLE)	0.31				Theta star (bias corrected MLE)	0.313	
289					nu hat (MLE)	154.7				nu star (bias corrected)	153.2	
290					Adjusted Level of Significance (β)	0.0486						
291					Approximate Chi Square Value (153.25, α)	125.6				Adjusted Chi Square Value (153.25, β)	125.4	
292					95% Gamma Approximate UCL (use when n>=50)	0.176				95% Gamma Adjusted UCL (use when n<50)	0.176	
293												
294	**Estimates of Gamma Parameters using KM Estimates**											
295					Mean (KM)	0.256				SD (KM)	0.225	
296					Variance (KM)	0.0507				SE of Mean (KM)	0.0302	
297					k hat (KM)	1.297				k star (KM)	1.278	
298					nu hat (KM)	430.7				nu star (KM)	424.3	
299					theta hat (KM)	0.198				theta star (KM)	0.201	
300					80% gamma percentile (KM)	0.404				90% gamma percentile (KM)	0.556	
301					95% gamma percentile (KM)	0.705				99% gamma percentile (KM)	1.046	
302												
303	**Gamma Kaplan-Meier (KM) Statistics**											
304					Approximate Chi Square Value (424.29, α)	377.5				Adjusted Chi Square Value (424.29, β)	377.2	
305					95% Gamma Approximate KM-UCL (use when n>=50)	0.288				95% Gamma Adjusted KM-UCL (use when n<50)	0.288	
306												
307	**Lognormal GOF Test on Detected Observations Only**											
308					Shapiro Wilk Test Statistic	0.945	**Shapiro Wilk GOF Test**					
309					5% Shapiro Wilk Critical Value	0.881	Detected Data appear Lognormal at 5% Significance Level					
310					Lilliefors Test Statistic	0.168	**Lilliefors GOF Test**					
311					5% Lilliefors Critical Value	0.22	Detected Data appear Lognormal at 5% Significance Level					
312	**Detected Data appear Lognormal at 5% Significance Level**											
313												
314	**Lognormal ROS Statistics Using Imputed Non-Detects**											
315					Mean in Original Scale	0.203				Mean in Log Scale	-1.934	
316					SD in Original Scale	0.206				SD in Log Scale	0.804	
317					95% t UCL (assumes normality of ROS data)	0.229				95% Percentile Bootstrap UCL	0.23	
318					95% BCA Bootstrap UCL	0.234				95% Bootstrap t UCL	0.234	

319					95% H-UCL (Log ROS)	0.226						
320												
321	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
322					KM Mean (logged)	-1.572				KM Geo Mean		0.208
323					KM SD (logged)	0.573				95% Critical H Value (KM-Log)		1.851
324					KM Standard Error of Mean (logged)	0.0884				95% H-UCL (KM -Log)		0.266
325					KM SD (logged)	0.573				95% Critical H Value (KM-Log)		1.851
326					KM Standard Error of Mean (logged)	0.0884						
327												
328	**DL/2 Statistics**											
329	**DL/2 Normal**						**DL/2 Log-Transformed**					
330					Mean in Original Scale	0.742				Mean in Log Scale		-0.683
331					SD in Original Scale	0.832				SD in Log Scale		0.935
332					95% t UCL (Assumes normality)	0.849				95% H-Stat UCL		0.911
333	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
334												
335	**Nonparametric Distribution Free UCL Statistics**											
336	**Detected Data appear Gamma Distributed at 5% Significance Level**											
337												
338	**Suggested UCL to Use**											
339					95% KM Approximate Gamma UCL	0.288				95% GROS Approximate Gamma UCL		0.176
340												
341	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
342	Recommendations are based upon data size, data distribution, and skewness.											
343	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
344	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
345												
346	**Aroclor-1254**											
347												
348	**General Statistics**											
349					Total Number of Observations	330				Number of Distinct Observations		64
350										Number of Missing Observations		346
351					Number of Detects	62				Number of Non-Detects		268
352					Number of Distinct Detects	52				Number of Distinct Non-Detects		16
353					Minimum Detect	0.0175				Minimum Non-Detect		0.01
354					Maximum Detect	750				Maximum Non-Detect		0.2
355					Variance Detects	9062				Percent Non-Detects		81.21%
356					Mean Detects	12.57				SD Detects		95.19
357					Median Detects	0.135				CV Detects		7.575
358					Skewness Detects	7.873				Kurtosis Detects		61.99
359					Mean of Logged Detects	-1.653				SD of Logged Detects		1.82
360												
361	**Normal GOF Test on Detects Only**											
362					Shapiro Wilk Test Statistic	0.133				**Normal GOF Test on Detected Observations Only**		
363					5% Shapiro Wilk P Value	0				Detected Data Not Normal at 5% Significance Level		
364					Lilliefors Test Statistic	0.522				**Lilliefors GOF Test**		
365					5% Lilliefors Critical Value	0.112				Detected Data Not Normal at 5% Significance Level		
366	**Detected Data Not Normal at 5% Significance Level**											
367												
368	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
369					KM Mean	2.374				KM Standard Error of Mean		2.288
370					KM SD	41.22				95% KM (BCA) UCL		6.932
371					95% KM (t) UCL	6.147				95% KM (Percentile Bootstrap) UCL		6.916

372					95% KM (z) UCL	6.136				95% KM Bootstrap t UCL		334.9
373					90% KM Chebyshev UCL	9.236				95% KM Chebyshev UCL		12.35
374					97.5% KM Chebyshev UCL	16.66				99% KM Chebyshev UCL		25.13
375												
376					**Gamma GOF Tests on Detected Observations Only**							
377					A-D Test Statistic	14.09	**Anderson-Darling GOF Test**					
378					5% A-D Critical Value	0.935	Detected Data Not Gamma Distributed at 5% Significance Level					
379					K-S Test Statistic	0.368	**Kolmogorov-Smirnov GOF**					
380					5% K-S Critical Value	0.127	Detected Data Not Gamma Distributed at 5% Significance Level					
381					**Detected Data Not Gamma Distributed at 5% Significance Level**							
382												
383					**Gamma Statistics on Detected Data Only**							
384					k hat (MLE)	0.179				k star (bias corrected MLE)		0.181
385					Theta hat (MLE)	70.24				Theta star (bias corrected MLE)		69.42
386					nu hat (MLE)	22.19				nu star (bias corrected)		22.45
387					Mean (detects)	12.57						
388												
389					**Gamma ROS Statistics using Imputed Non-Detects**							
390					GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs							
391					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)							
392					For such situations, GROS method may yield incorrect values of UCLs and BTVs							
393					This is especially true when the sample size is small.							
394					For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates							
395					Minimum	0.01				Mean		2.369
396					Maximum	750				Median		0.01
397					SD	41.28				CV		17.42
398					k hat (MLE)	0.156				k star (bias corrected MLE)		0.156
399					Theta hat (MLE)	15.23				Theta star (bias corrected MLE)		15.17
400					nu hat (MLE)	102.7				nu star (bias corrected)		103.1
401					Adjusted Level of Significance (β)	0.0493						
402					Approximate Chi Square Value (103.10, α)	80.67				Adjusted Chi Square Value (103.10, β)		80.58
403					95% Gamma Approximate UCL (use when n>=50)	3.028				95% Gamma Adjusted UCL (use when n<50)		3.031
404												
405					**Estimates of Gamma Parameters using KM Estimates**							
406					Mean (KM)	2.374				SD (KM)		41.22
407					Variance (KM)	1699				SE of Mean (KM)		2.288
408					k hat (KM)	0.00332				k star (KM)		0.00531
409					nu hat (KM)	2.189				nu star (KM)		3.502
410					theta hat (KM)	715.8				theta star (KM)		447.3
411					80% gamma percentile (KM)	1.374E-16				90% gamma percentile (KM)		6.0016E-7
412					95% gamma percentile (KM)	0.016				99% gamma percentile (KM)		41.54
413												
414					**Gamma Kaplan-Meier (KM) Statistics**							
415					Approximate Chi Square Value (3.50, α)	0.535				Adjusted Chi Square Value (3.50, β)		0.531
416					95% Gamma Approximate KM-UCL (use when n>=50)	15.52				95% Gamma Adjusted KM-UCL (use when n<50)		15.66
417												
418					**Lognormal GOF Test on Detected Observations Only**							
419					Shapiro Wilk Approximate Test Statistic	0.881	**Shapiro Wilk GOF Test**					
420					5% Shapiro Wilk P Value	1.8972E-6	Detected Data Not Lognormal at 5% Significance Level					
421					Lilliefors Test Statistic	0.116	**Lilliefors GOF Test**					
422					5% Lilliefors Critical Value	0.112	Detected Data Not Lognormal at 5% Significance Level					
423					**Detected Data Not Lognormal at 5% Significance Level**							
424												

425	**Lognormal ROS Statistics Using Imputed Non-Detects**											
426					Mean in Original Scale	2.367				Mean in Log Scale		-5.801
427					SD in Original Scale	41.28				SD in Log Scale		2.999
428				95% t UCL (assumes normality of ROS data)		6.116				95% Percentile Bootstrap UCL		6.903
429					95% BCA Bootstrap UCL	9.221				95% Bootstrap t UCL		325.7
430					95% H-UCL (Log ROS)	0.549						
431												
432	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
433					KM Mean (logged)	-3.813				KM Geo Mean		0.0221
434					KM SD (logged)	1.374				95% Critical H Value (KM-Log)		2.45
435					KM Standard Error of Mean (logged)	0.0951				95% H-UCL (KM -Log)		0.0683
436					KM SD (logged)	1.374				95% Critical H Value (KM-Log)		2.45
437					KM Standard Error of Mean (logged)	0.0951						
438												
439	**DL/2 Statistics**											
440	**DL/2 Normal**						**DL/2 Log-Transformed**					
441					Mean in Original Scale	2.38				Mean in Log Scale		-3.448
442					SD in Original Scale	41.28				SD in Log Scale		1.244
443					95% t UCL (Assumes normality)	6.128				95% H-Stat UCL		0.0809
444	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
445												
446	**Nonparametric Distribution Free UCL Statistics**											
447	**Data do not follow a Discernible Distribution at 5% Significance Level**											
448												
449	**Suggested UCL to Use**											
450					95% KM (Chebyshev) UCL	12.35						
451												
452	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
453	Recommendations are based upon data size, data distribution, and skewness.											
454	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
455	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
456												
457	**Aroclor-1260**											
458												
459	**General Statistics**											
460					Total Number of Observations	329				Number of Distinct Observations		74
461										Number of Missing Observations		347
462					Number of Detects	117				Number of Non-Detects		212
463					Number of Distinct Detects	71				Number of Distinct Non-Detects		13
464					Minimum Detect	0.0129				Minimum Non-Detect		0.01
465					Maximum Detect	3.5				Maximum Non-Detect		0.2
466					Variance Detects	0.311				Percent Non-Detects		64.44%
467					Mean Detects	0.282				SD Detects		0.558
468					Median Detects	0.063				CV Detects		1.979
469					Skewness Detects	3.133				Kurtosis Detects		11.17
470					Mean of Logged Detects	-2.354				SD of Logged Detects		1.292
471												
472	**Normal GOF Test on Detects Only**											
473					Shapiro Wilk Test Statistic	0.522	**Normal GOF Test on Detected Observations Only**					
474					5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level					
475					Lilliefors Test Statistic	0.36	**Lilliefors GOF Test**					
476					5% Lilliefors Critical Value	0.0822	Detected Data Not Normal at 5% Significance Level					
477	**Detected Data Not Normal at 5% Significance Level**											

	A	B	C	D	E	F	G	H	I	J	K	L
478												
479	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
480	KM Mean					0.113	KM Standard Error of Mean					0.0196
481	KM SD					0.354	95% KM (BCA) UCL					0.147
482	95% KM (t) UCL					0.146	95% KM (Percentile Bootstrap) UCL					0.146
483	95% KM (z) UCL					0.145	95% KM Bootstrap t UCL					0.155
484	90% KM Chebyshev UCL					0.172	95% KM Chebyshev UCL					0.199
485	97.5% KM Chebyshev UCL					0.236	99% KM Chebyshev UCL					0.308
486												
487	**Gamma GOF Tests on Detected Observations Only**											
488	A-D Test Statistic					12.43	**Anderson-Darling GOF Test**					
489	5% A-D Critical Value					0.812	Detected Data Not Gamma Distributed at 5% Significance Level					
490	K-S Test Statistic					0.269	**Kolmogorov-Smirnov GOF**					
491	5% K-S Critical Value					0.0895	Detected Data Not Gamma Distributed at 5% Significance Level					
492	**Detected Data Not Gamma Distributed at 5% Significance Level**											
493												
494	**Gamma Statistics on Detected Data Only**											
495	k hat (MLE)					0.572	k star (bias corrected MLE)					0.563
496	Theta hat (MLE)					0.492	Theta star (bias corrected MLE)					0.5
497	nu hat (MLE)					133.9	nu star (bias corrected)					131.8
498	Mean (detects)					0.282						
499												
500	**Gamma ROS Statistics using Imputed Non-Detects**											
501	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
502	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)											
503	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
504	This is especially true when the sample size is small.											
505	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
506	Minimum					0.01	Mean					0.107
507	Maximum					3.5	Median					0.01
508	SD					0.356	CV					3.322
509	k hat (MLE)					0.422	k star (bias corrected MLE)					0.42
510	Theta hat (MLE)					0.254	Theta star (bias corrected MLE)					0.255
511	nu hat (MLE)					277.5	nu star (bias corrected)					276.3
512	Adjusted Level of Significance (β)					0.0493						
513	Approximate Chi Square Value (276.34, α)					238.8	Adjusted Chi Square Value (276.34, β)					238.7
514	95% Gamma Approximate UCL (use when n>=50)					0.124	95% Gamma Adjusted UCL (use when n<50)					0.124
515												
516	**Estimates of Gamma Parameters using KM Estimates**											
517	Mean (KM)					0.113	SD (KM)					0.354
518	Variance (KM)					0.125	SE of Mean (KM)					0.0196
519	k hat (KM)					0.102	k star (KM)					0.103
520	nu hat (KM)					67.22	nu star (KM)					67.94
521	theta hat (KM)					1.108	theta star (KM)					1.096
522	80% gamma percentile (KM)					0.0822	90% gamma percentile (KM)					0.305
523	95% gamma percentile (KM)					0.656	99% gamma percentile (KM)					1.769
524												
525	**Gamma Kaplan-Meier (KM) Statistics**											
526	Approximate Chi Square Value (67.94, α)					49.97	Adjusted Chi Square Value (67.94, β)					49.9
527	95% Gamma Approximate KM-UCL (use when n>=50)					0.154	95% Gamma Adjusted KM-UCL (use when n<50)					0.154
528												
529	**Lognormal GOF Test on Detected Observations Only**											
530	Shapiro Wilk Approximate Test Statistic					0.852	**Shapiro Wilk GOF Test**					

531	5% Shapiro Wilk P Value					0	Detected Data Not Lognormal at 5% Significance Level					
532	Lilliefors Test Statistic					0.183	**Lilliefors GOF Test**					
533	5% Lilliefors Critical Value					0.0822	Detected Data Not Lognormal at 5% Significance Level					
534	**Detected Data Not Lognormal at 5% Significance Level**											
535												
536	**Lognormal ROS Statistics Using Imputed Non-Detects**											
537	Mean in Original Scale					0.11	Mean in Log Scale					-3.975
538	SD in Original Scale					0.356	SD in Log Scale					1.748
539	95% t UCL (assumes normality of ROS data)					0.142	95% Percentile Bootstrap UCL					0.147
540	95% BCA Bootstrap UCL					0.149	95% Bootstrap t UCL					0.152
541	95% H-UCL (Log ROS)					0.114						
542												
543	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
544	KM Mean (logged)					-3.47	KM Geo Mean					0.0311
545	KM SD (logged)					1.225	95% Critical H Value (KM-Log)					2.313
546	KM Standard Error of Mean (logged)					0.0813	95% H-UCL (KM -Log)					0.077
547	KM SD (logged)					1.225	95% Critical H Value (KM-Log)					2.313
548	KM Standard Error of Mean (logged)					0.0813						
549												
550	**DL/2 Statistics**											
551	**DL/2 Normal**						**DL/2 Log-Transformed**					
552	Mean in Original Scale					0.115	Mean in Log Scale					-3.35
553	SD in Original Scale					0.354	SD in Log Scale					1.15
554	95% t UCL (Assumes normality)					0.147	95% H-Stat UCL					0.0784
555	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
556												
557	**Nonparametric Distribution Free UCL Statistics**											
558	**Data do not follow a Discernible Distribution at 5% Significance Level**											
559												
560	**Suggested UCL to Use**											
561	95% KM (Chebyshev) UCL					0.199						
562												
563	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
564	Recommendations are based upon data size, data distribution, and skewness.											
565	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
566	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
567												
568	**Arsenic**											
569												
570	**General Statistics**											
571	Total Number of Observations					336	Number of Distinct Observations					231
572							Number of Missing Observations					301
573	Number of Detects					238	Number of Non-Detects					98
574	Number of Distinct Detects					194	Number of Distinct Non-Detects					41
575	Minimum Detect					0.294	Minimum Non-Detect					0.25
576	Maximum Detect					11.9	Maximum Non-Detect					3.08
577	Variance Detects					6.178	Percent Non-Detects					29.17%
578	Mean Detects					2.393	SD Detects					2.485
579	Median Detects					1.54	CV Detects					1.038
580	Skewness Detects					2.079	Kurtosis Detects					4.076
581	Mean of Logged Detects					0.45	SD of Logged Detects					0.915
582												
583	**Normal GOF Test on Detects Only**											

584	Shapiro Wilk Test Statistic					0.727	**Normal GOF Test on Detected Observations Only**					
585	5% Shapiro Wilk P Value					0	Detected Data Not Normal at 5% Significance Level					
586	Lilliefors Test Statistic					0.217	**Lilliefors GOF Test**					
587	5% Lilliefors Critical Value					0.0578	Detected Data Not Normal at 5% Significance Level					
588	**Detected Data Not Normal at 5% Significance Level**											
589												
590	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
591	KM Mean					1.84	KM Standard Error of Mean					0.124
592	KM SD					2.267	95% KM (BCA) UCL					2.059
593	95% KM (t) UCL					2.045	95% KM (Percentile Bootstrap) UCL					2.048
594	95% KM (z) UCL					2.044	95% KM Bootstrap t UCL					2.075
595	90% KM Chebyshev UCL					2.213	95% KM Chebyshev UCL					2.382
596	97.5% KM Chebyshev UCL					2.617	99% KM Chebyshev UCL					3.077
597												
598	**Gamma GOF Tests on Detected Observations Only**											
599	A-D Test Statistic					4.002	**Anderson-Darling GOF Test**					
600	5% A-D Critical Value					0.776	Detected Data Not Gamma Distributed at 5% Significance Level					
601	K-S Test Statistic					0.101	**Kolmogorov-Smirnov GOF**					
602	5% K-S Critical Value					0.0606	Detected Data Not Gamma Distributed at 5% Significance Level					
603	**Detected Data Not Gamma Distributed at 5% Significance Level**											
604												
605	**Gamma Statistics on Detected Data Only**											
606	k hat (MLE)					1.324	k star (bias corrected MLE)					1.31
607	Theta hat (MLE)					1.808	Theta star (bias corrected MLE)					1.827
608	nu hat (MLE)					630.1	nu star (bias corrected)					623.5
609	Mean (detects)					2.393						
610												
611	**Gamma ROS Statistics using Imputed Non-Detects**											
612	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
613	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)											
614	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
615	This is especially true when the sample size is small.											
616	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
617	Minimum					0.01	Mean					1.745
618	Maximum					11.9	Median					0.97
619	SD					2.327	CV					1.333
620	k hat (MLE)					0.527	k star (bias corrected MLE)					0.524
621	Theta hat (MLE)					3.314	Theta star (bias corrected MLE)					3.331
622	nu hat (MLE)					353.9	nu star (bias corrected)					352.1
623	Adjusted Level of Significance (β)					0.0493						
624	Approximate Chi Square Value (352.07, α)					309.6	Adjusted Chi Square Value (352.07, β)					309.4
625	95% Gamma Approximate UCL (use when n>=50)					1.984	95% Gamma Adjusted UCL (use when n<50)					1.986
626												
627	**Estimates of Gamma Parameters using KM Estimates**											
628	Mean (KM)					1.84	SD (KM)					2.267
629	Variance (KM)					5.14	SE of Mean (KM)					0.124
630	k hat (KM)					0.659	k star (KM)					0.655
631	nu hat (KM)					442.6	nu star (KM)					440
632	theta hat (KM)					2.794	theta star (KM)					2.81
633	80% gamma percentile (KM)					3.03	90% gamma percentile (KM)					4.691
634	95% gamma percentile (KM)					6.416	99% gamma percentile (KM)					10.56
635												
636	**Gamma Kaplan-Meier (KM) Statistics**											

637	Approximate Chi Square Value (439.96, α)					392.3	Adjusted Chi Square Value (439.96, β)					392.1
638	95% Gamma Approximate KM-UCL (use when n>=50)					2.063	95% Gamma Adjusted KM-UCL (use when n<50)					2.064
639												
640	**Lognormal GOF Test on Detected Observations Only**											
641	Shapiro Wilk Approximate Test Statistic					0.954	**Shapiro Wilk GOF Test**					
642	5% Shapiro Wilk P Value					4.8400E-7	Detected Data Not Lognormal at 5% Significance Level					
643	Lilliefors Test Statistic					0.0485	**Lilliefors GOF Test**					
644	5% Lilliefors Critical Value					0.0578	Detected Data appear Lognormal at 5% Significance Level					
645	**Detected Data appear Approximate Lognormal at 5% Significance Level**											
646												
647	**Lognormal ROS Statistics Using Imputed Non-Detects**											
648	Mean in Original Scale					1.826	Mean in Log Scale					0.0352
649	SD in Original Scale					2.274	SD in Log Scale					1.059
650	95% t UCL (assumes normality of ROS data)					2.031	95% Percentile Bootstrap UCL					2.036
651	95% BCA Bootstrap UCL					2.051	95% Bootstrap t UCL					2.048
652	95% H-UCL (Log ROS)					2.057						
653												
654	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
655	KM Mean (logged)					0.0628	KM Geo Mean					1.065
656	KM SD (logged)					1.02	95% Critical H Value (KM-Log)					2.139
657	KM Standard Error of Mean (logged)					0.058	95% H-UCL (KM -Log)					2.019
658	KM SD (logged)					1.02	95% Critical H Value (KM-Log)					2.139
659	KM Standard Error of Mean (logged)					0.058						
660												
661	**DL/2 Statistics**											
662	**DL/2 Normal**						**DL/2 Log-Transformed**					
663	Mean in Original Scale					1.849	Mean in Log Scale					0.0656
664	SD in Original Scale					2.265	SD in Log Scale					1.048
665	95% t UCL (Assumes normality)					2.053	95% H-Stat UCL					2.093
666	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
667												
668	**Nonparametric Distribution Free UCL Statistics**											
669	**Detected Data appear Approximate Lognormal Distributed at 5% Significance Level**											
670												
671	**Suggested UCL to Use**											
672	KM H-UCL					2.019						
673												
674	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
675	Recommendations are based upon data size, data distribution, and skewness.											
676	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
677	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
678												
679												
680	**Barium**											
681												
682	**General Statistics**											
683	Total Number of Observations					166	Number of Distinct Observations					135
684							Number of Missing Observations					471
685	Minimum					31.1	Mean					93.46
686	Maximum					271	Median					90.65
687	SD					34.94	Std. Error of Mean					2.712
688	Coefficient of Variation					0.374	Skewness					0.857
689												

690	**Normal GOF Test**											
691				Shapiro Wilk Test Statistic		0.953	**Shapiro Wilk GOF Test**					
692				5% Shapiro Wilk P Value		6.7350E-5	Data Not Normal at 5% Significance Level					
693				Lilliefors Test Statistic		0.062	**Lilliefors GOF Test**					
694				5% Lilliefors Critical Value		0.0692	Data appear Normal at 5% Significance Level					
695	**Data appear Approximate Normal at 5% Significance Level**											
696												
697	**Assuming Normal Distribution**											
698	**95% Normal UCL**						**95% UCLs (Adjusted for Skewness)**					
699				95% Student's-t UCL		97.95	95% Adjusted-CLT UCL (Chen-1995)					98.12
700							95% Modified-t UCL (Johnson-1978)					97.98
701												
702	**Gamma GOF Test**											
703				A-D Test Statistic		0.711	**Anderson-Darling Gamma GOF Test**					
704				5% A-D Critical Value		0.754	Detected data appear Gamma Distributed at 5% Significance Level					
705				K-S Test Statistic		0.0563	**Kolmogorov-Smirnov Gamma GOF Test**					
706				5% K-S Critical Value		0.0725	Detected data appear Gamma Distributed at 5% Significance Level					
707	**Detected data appear Gamma Distributed at 5% Significance Level**											
708												
709	**Gamma Statistics**											
710				k hat (MLE)		7.195	k star (bias corrected MLE)					7.069
711				Theta hat (MLE)		12.99	Theta star (bias corrected MLE)					13.22
712				nu hat (MLE)		2389	nu star (bias corrected)					2347
713				MLE Mean (bias corrected)		93.46	MLE Sd (bias corrected)					35.15
714							Approximate Chi Square Value (0.05)					2235
715				Adjusted Level of Significance		0.0486	Adjusted Chi Square Value					2234
716												
717	**Assuming Gamma Distribution**											
718				95% Approximate Gamma UCL (use when n>=50))		98.13	95% Adjusted Gamma UCL (use when n<50)					98.17
719												
720	**Lognormal GOF Test**											
721				Shapiro Wilk Test Statistic		0.97	**Shapiro Wilk Lognormal GOF Test**					
722				5% Shapiro Wilk P Value		0.0389	Data Not Lognormal at 5% Significance Level					
723				Lilliefors Test Statistic		0.0665	**Lilliefors Lognormal GOF Test**					
724				5% Lilliefors Critical Value		0.0692	Data appear Lognormal at 5% Significance Level					
725	**Data appear Approximate Lognormal at 5% Significance Level**											
726												
727	**Lognormal Statistics**											
728				Minimum of Logged Data		3.437	Mean of logged Data					4.466
729				Maximum of Logged Data		5.602	SD of logged Data					0.387
730												
731	**Assuming Lognormal Distribution**											
732				95% H-UCL		98.9	90% Chebyshev (MVUE) UCL					102.5
733				95% Chebyshev (MVUE) UCL		106.5	97.5% Chebyshev (MVUE) UCL					111.9
734				99% Chebyshev (MVUE) UCL		122.7						
735												
736	**Nonparametric Distribution Free UCL Statistics**											
737	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
738												
739	**Nonparametric Distribution Free UCLs**											
740				95% CLT UCL		97.92	95% Jackknife UCL					97.95
741				95% Standard Bootstrap UCL		97.9	95% Bootstrap-t UCL					98.06
742				95% Hall's Bootstrap UCL		98.18	95% Percentile Bootstrap UCL					98.04

743					95% BCA Bootstrap UCL	98.04						
744					90% Chebyshev(Mean, Sd) UCL	101.6					95% Chebyshev(Mean, Sd) UCL	105.3
745					97.5% Chebyshev(Mean, Sd) UCL	110.4					99% Chebyshev(Mean, Sd) UCL	120.4
746												
747					**Suggested UCL to Use**							
748					95% Student's-t UCL	97.95						
749												
750	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
751	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
752												
753	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
754	Recommendations are based upon data size, data distribution, and skewness.											
755	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
756	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
757												
758	**Benzene**											
759												
760	**General Statistics**											
761					Total Number of Observations	174					Number of Distinct Observations	70
762											Number of Missing Observations	463
763					Number of Detects	74					Number of Non-Detects	100
764					Number of Distinct Detects	48					Number of Distinct Non-Detects	35
765					Minimum Detect	2.3000E-4					Minimum Non-Detect	2.5000E-4
766					Maximum Detect	0.0019					Maximum Non-Detect	0.0016
767					Variance Detects	9.0221E-8					Percent Non-Detects	57.47%
768					Mean Detects	5.3703E-4					SD Detects	3.0037E-4
769					Median Detects	4.4000E-4					CV Detects	0.559
770					Skewness Detects	1.974					Kurtosis Detects	5.714
771					Mean of Logged Detects	-7.653					SD of Logged Detects	0.484
772												
773	**Normal GOF Test on Detects Only**											
774					Shapiro Wilk Test Statistic	0.831					**Normal GOF Test on Detected Observations Only**	
775					5% Shapiro Wilk P Value	1.299E-11					Detected Data Not Normal at 5% Significance Level	
776					Lilliefors Test Statistic	0.155					**Lilliefors GOF Test**	
777					5% Lilliefors Critical Value	0.103					Detected Data Not Normal at 5% Significance Level	
778	**Detected Data Not Normal at 5% Significance Level**											
779												
780	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
781					KM Mean	4.6987E-4					KM Standard Error of Mean	2.3741E-5
782					KM SD	2.4588E-4					95% KM (BCA) UCL	5.0886E-4
783					95% KM (t) UCL	5.0913E-4					95% KM (Percentile Bootstrap) UCL	5.1112E-4
784					95% KM (z) UCL	5.0892E-4					95% KM Bootstrap t UCL	5.1562E-4
785					90% KM Chebyshev UCL	5.4109E-4					95% KM Chebyshev UCL	5.7335E-4
786					97.5% KM Chebyshev UCL	6.1813E-4					99% KM Chebyshev UCL	7.0609E-4
787												
788	**Gamma GOF Tests on Detected Observations Only**											
789					A-D Test Statistic	1.02					**Anderson-Darling GOF Test**	
790					5% A-D Critical Value	0.756					Detected Data Not Gamma Distributed at 5% Significance Level	
791					K-S Test Statistic	0.112					**Kolmogorov-Smirnov GOF**	
792					5% K-S Critical Value	0.104					Detected Data Not Gamma Distributed at 5% Significance Level	
793	**Detected Data Not Gamma Distributed at 5% Significance Level**											
794												
795	**Gamma Statistics on Detected Data Only**											

796					k hat (MLE)	4.213				k star (bias corrected MLE)		4.052
797					Theta hat (MLE)	1.2745E-4				Theta star (bias corrected MLE)		1.3254E-4
798					nu hat (MLE)	623.6				nu star (bias corrected)		599.6
799					Mean (detects)	5.3703E-4						
800												
801	**Gamma ROS Statistics using Imputed Non-Detects**											
802	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
803	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)											
804	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
805	This is especially true when the sample size is small.											
806	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
807					Minimum	2.3000E-4				Mean		0.00598
808					Maximum	0.01				Median		0.01
809					SD	0.0047				CV		0.786
810					k hat (MLE)	0.764				k star (bias corrected MLE)		0.755
811					Theta hat (MLE)	0.00782				Theta star (bias corrected MLE)		0.00791
812					nu hat (MLE)	266				nu star (bias corrected)		262.7
813					Adjusted Level of Significance (β)	0.0486						
814					Approximate Chi Square Value (262.74, α)	226.2				Adjusted Chi Square Value (262.74, β)		225.9
815					95% Gamma Approximate UCL (use when n>=50)	0.00694				95% Gamma Adjusted UCL (use when n<50)		0.00695
816												
817	**Estimates of Gamma Parameters using KM Estimates**											
818					Mean (KM)	4.6987E-4				SD (KM)		2.4588E-4
819					Variance (KM)	6.0456E-8				SE of Mean (KM)		2.3741E-5
820					k hat (KM)	3.652				k star (KM)		3.593
821					nu hat (KM)	1271				nu star (KM)		1250
822					theta hat (KM)	1.2866E-4				theta star (KM)		1.3078E-4
823					80% gamma percentile (KM)	6.5601E-4				90% gamma percentile (KM)		8.0225E-4
824					95% gamma percentile (KM)	9.3750E-4				99% gamma percentile (KM)		0.00123
825												
826	**Gamma Kaplan-Meier (KM) Statistics**											
827					Approximate Chi Square Value (N/A, α)	1169				Adjusted Chi Square Value (N/A, β)		1169
828					95% Gamma Approximate KM-UCL (use when n>=50)	5.0246E-4				95% Gamma Adjusted KM-UCL (use when n<50)		5.0274E-4
829												
830	**Lognormal GOF Test on Detected Observations Only**											
831					Shapiro Wilk Approximate Test Statistic	0.954				**Shapiro Wilk GOF Test**		
832					5% Shapiro Wilk P Value	0.0236				Detected Data Not Lognormal at 5% Significance Level		
833					Lilliefors Test Statistic	0.08				**Lilliefors GOF Test**		
834					5% Lilliefors Critical Value	0.103				Detected Data appear Lognormal at 5% Significance Level		
835	**Detected Data appear Approximate Lognormal at 5% Significance Level**											
836												
837	**Lognormal ROS Statistics Using Imputed Non-Detects**											
838					Mean in Original Scale	4.5943E-4				Mean in Log Scale		-7.775
839					SD in Original Scale	2.2616E-4				SD in Log Scale		0.406
840					95% t UCL (assumes normality of ROS data)	4.8778E-4				95% Percentile Bootstrap UCL		4.8797E-4
841					95% BCA Bootstrap UCL	4.9145E-4				95% Bootstrap t UCL		4.9002E-4
842					95% H-UCL (Log ROS)	4.8173E-4						
843												
844	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
845					KM Mean (logged)	-7.774				KM Geo Mean		4.2073E-4
846					KM SD (logged)	0.455				95% Critical H Value (KM-Log)		1.789
847					KM Standard Error of Mean (logged)	0.0478				95% H-UCL (KM -Log)		4.9635E-4
848					KM SD (logged)	0.455				95% Critical H Value (KM-Log)		1.789

849	KM Standard Error of Mean (logged)					0.0478						
850												
851	**DL/2 Statistics**											
852	**DL/2 Normal**						**DL/2 Log-Transformed**					
853	Mean in Original Scale					4.8167E-4	Mean in Log Scale					-7.724
854	SD in Original Scale					2.1868E-4	SD in Log Scale					0.419
855	95% t UCL (Assumes normality)					5.0908E-4	95% H-Stat UCL					5.1066E-4
856	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
857												
858	**Nonparametric Distribution Free UCL Statistics**											
859	**Detected Data appear Approximate Lognormal Distributed at 5% Significance Level**											
860												
861	**Suggested UCL to Use**											
862	KM Student's t					4.5785E-4	KM H-UCL					4.9635E-4
863												
864	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
865	Recommendations are based upon data size, data distribution, and skewness.											
866	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
867	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
868												
869	**Beryllium**											
870												
871	**General Statistics**											
872	Total Number of Observations					166	Number of Distinct Observations					60
873							Number of Missing Observations					471
874	Number of Detects					49	Number of Non-Detects					117
875	Number of Distinct Detects					40	Number of Distinct Non-Detects					21
876	Minimum Detect					0.139	Minimum Non-Detect					0.138
877	Maximum Detect					0.8	Maximum Non-Detect					1.05
878	Variance Detects					0.0272	Percent Non-Detects					70.48%
879	Mean Detects					0.421	SD Detects					0.165
880	Median Detects					0.467	CV Detects					0.391
881	Skewness Detects					0.0276	Kurtosis Detects					-1.106
882	Mean of Logged Detects					-0.951	SD of Logged Detects					0.439
883												
884	**Normal GOF Test on Detects Only**											
885	Shapiro Wilk Test Statistic					0.931	**Shapiro Wilk GOF Test**					
886	5% Shapiro Wilk Critical Value					0.947	Detected Data Not Normal at 5% Significance Level					
887	Lilliefors Test Statistic					0.133	**Lilliefors GOF Test**					
888	5% Lilliefors Critical Value					0.126	Detected Data Not Normal at 5% Significance Level					
889	**Detected Data Not Normal at 5% Significance Level**											
890												
891	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
892	KM Mean					0.343	KM Standard Error of Mean					0.0186
893	KM SD					0.145	95% KM (BCA) UCL					0.372
894	95% KM (t) UCL					0.373	95% KM (Percentile Bootstrap) UCL					0.37
895	95% KM (z) UCL					0.373	95% KM Bootstrap t UCL					0.375
896	90% KM Chebyshev UCL					0.398	95% KM Chebyshev UCL					0.424
897	97.5% KM Chebyshev UCL					0.459	99% KM Chebyshev UCL					0.527
898												
899	**Gamma GOF Tests on Detected Observations Only**											
900	A-D Test Statistic					1.504	**Anderson-Darling GOF Test**					
901	5% A-D Critical Value					0.753	Detected Data Not Gamma Distributed at 5% Significance Level					

	A	B	C	D	E	F	G	H	I	J	K	L
902					K-S Test Statistic	0.162	**Kolmogorov-Smirnov GOF**					
903					5% K-S Critical Value	0.127	Detected Data Not Gamma Distributed at 5% Significance Level					
904	**Detected Data Not Gamma Distributed at 5% Significance Level**											
905												
906	**Gamma Statistics on Detected Data Only**											
907					k hat (MLE)	5.924				k star (bias corrected MLE)		5.575
908					Theta hat (MLE)	0.0711				Theta star (bias corrected MLE)		0.0756
909					nu hat (MLE)	580.5				nu star (bias corrected)		546.3
910					Mean (detects)	0.421						
911												
912	**Gamma ROS Statistics using Imputed Non-Detects**											
913	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
914	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)											
915	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
916	This is especially true when the sample size is small.											
917	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
918					Minimum	0.0951				Mean		0.34
919					Maximum	0.8				Median		0.324
920					SD	0.129				CV		0.381
921					k hat (MLE)	6.951				k star (bias corrected MLE)		6.829
922					Theta hat (MLE)	0.0489				Theta star (bias corrected MLE)		0.0497
923					nu hat (MLE)	2308				nu star (bias corrected)		2267
924					Adjusted Level of Significance (β)	0.0486						
925					Approximate Chi Square Value (N/A, α)	2158				Adjusted Chi Square Value (N/A, β)		2157
926					95% Gamma Approximate UCL (use when n>=50)	0.357				95% Gamma Adjusted UCL (use when n<50)		0.357
927												
928	**Estimates of Gamma Parameters using KM Estimates**											
929					Mean (KM)	0.343				SD (KM)		0.145
930					Variance (KM)	0.021				SE of Mean (KM)		0.0186
931					k hat (KM)	5.58				k star (KM)		5.483
932					nu hat (KM)	1852				nu star (KM)		1820
933					theta hat (KM)	0.0614				theta star (KM)		0.0625
934					80% gamma percentile (KM)	0.456				90% gamma percentile (KM)		0.538
935					95% gamma percentile (KM)	0.613				99% gamma percentile (KM)		0.771
936												
937	**Gamma Kaplan-Meier (KM) Statistics**											
938					Approximate Chi Square Value (N/A, α)	1722				Adjusted Chi Square Value (N/A, β)		1721
939					95% Gamma Approximate KM-UCL (use when n>=50)	0.362				95% Gamma Adjusted KM-UCL (use when n<50)		0.362
940												
941	**Lognormal GOF Test on Detected Observations Only**											
942					Shapiro Wilk Test Statistic	0.915	**Shapiro Wilk GOF Test**					
943					5% Shapiro Wilk Critical Value	0.947	Detected Data Not Lognormal at 5% Significance Level					
944					Lilliefors Test Statistic	0.177	**Lilliefors GOF Test**					
945					5% Lilliefors Critical Value	0.126	Detected Data Not Lognormal at 5% Significance Level					
946	**Detected Data Not Lognormal at 5% Significance Level**											
947												
948	**Lognormal ROS Statistics Using Imputed Non-Detects**											
949					Mean in Original Scale	0.335				Mean in Log Scale		-1.164
950					SD in Original Scale	0.127				SD in Log Scale		0.375
951					95% t UCL (assumes normality of ROS data)	0.351				95% Percentile Bootstrap UCL		0.351
952					95% BCA Bootstrap UCL	0.351				95% Bootstrap t UCL		0.351
953					95% H-UCL (Log ROS)	0.352						
954												

955	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
956					KM Mean (logged)	-1.16				KM Geo Mean	0.314	
957					KM SD (logged)	0.424				95% Critical H Value (KM-Log)	1.773	
958					KM Standard Error of Mean (logged)	0.0596				95% H-UCL (KM -Log)	0.364	
959					KM SD (logged)	0.424				95% Critical H Value (KM-Log)	1.773	
960					KM Standard Error of Mean (logged)	0.0596						
961												
962	**DL/2 Statistics**											
963	**DL/2 Normal**						**DL/2 Log-Transformed**					
964					Mean in Original Scale	0.371				Mean in Log Scale	-1.069	
965					SD in Original Scale	0.142				SD in Log Scale	0.398	
966					95% t UCL (Assumes normality)	0.389				95% H-Stat UCL	0.393	
967	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
968												
969	**Nonparametric Distribution Free UCL Statistics**											
970	**Data do not follow a Discernible Distribution at 5% Significance Level**											
971												
972	**Suggested UCL to Use**											
973					95% KM (t) UCL	0.373				KM H-UCL	0.364	
974					95% KM (BCA) UCL	0.372						
975												
976	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
977	Recommendations are based upon data size, data distribution, and skewness.											
978	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
979	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
980												
981	**Cadmium**											
982												
983	**General Statistics**											
984					Total Number of Observations	166				Number of Distinct Observations	67	
985										Number of Missing Observations	471	
986					Number of Detects	53				Number of Non-Detects	113	
987					Number of Distinct Detects	43				Number of Distinct Non-Detects	25	
988					Minimum Detect	0.184				Minimum Non-Detect	0.132	
989					Maximum Detect	1.31				Maximum Non-Detect	1.05	
990					Variance Detects	0.0788				Percent Non-Detects	68.07%	
991					Mean Detects	0.504				SD Detects	0.281	
992					Median Detects	0.404				CV Detects	0.557	
993					Skewness Detects	1.152				Kurtosis Detects	0.648	
994					Mean of Logged Detects	-0.823				SD of Logged Detects	0.523	
995												
996	**Normal GOF Test on Detects Only**											
997					Shapiro Wilk Test Statistic	0.869	**Normal GOF Test on Detected Observations Only**					
998					5% Shapiro Wilk P Value	4.5016E-6	Detected Data Not Normal at 5% Significance Level					
999					Lilliefors Test Statistic	0.208	**Lilliefors GOF Test**					
1000					5% Lilliefors Critical Value	0.121	Detected Data Not Normal at 5% Significance Level					
1001	**Detected Data Not Normal at 5% Significance Level**											
1002												
1003	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
1004					KM Mean	0.374				KM Standard Error of Mean	0.0217	
1005					KM SD	0.215				95% KM (BCA) UCL	0.407	
1006					95% KM (t) UCL	0.41				95% KM (Percentile Bootstrap) UCL	0.408	
1007					95% KM (z) UCL	0.41				95% KM Bootstrap t UCL	0.412	

	A	B	C	D	E	F	G	H	I	J	K	L
1008	90% KM Chebyshev UCL					0.439	95% KM Chebyshev UCL					0.469
1009	97.5% KM Chebyshev UCL					0.51	99% KM Chebyshev UCL					0.59
1010												
1011	**Gamma GOF Tests on Detected Observations Only**											
1012	A-D Test Statistic					0.981	**Anderson-Darling GOF Test**					
1013	5% A-D Critical Value					0.754	Detected Data Not Gamma Distributed at 5% Significance Level					
1014	K-S Test Statistic					0.154	**Kolmogorov-Smirnov GOF**					
1015	5% K-S Critical Value					0.123	Detected Data Not Gamma Distributed at 5% Significance Level					
1016	**Detected Data Not Gamma Distributed at 5% Significance Level**											
1017												
1018	**Gamma Statistics on Detected Data Only**											
1019	k hat (MLE)					3.791	k star (bias corrected MLE)					3.589
1020	Theta hat (MLE)					0.133	Theta star (bias corrected MLE)					0.14
1021	nu hat (MLE)					401.8	nu star (bias corrected)					380.4
1022	Mean (detects)					0.504						
1023												
1024	**Gamma ROS Statistics using Imputed Non-Detects**											
1025	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
1026	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)											
1027	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
1028	This is especially true when the sample size is small.											
1029	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
1030	Minimum					0.01	Mean					0.362
1031	Maximum					1.31	Median					0.32
1032	SD					0.221	CV					0.609
1033	k hat (MLE)					2.666	k star (bias corrected MLE)					2.622
1034	Theta hat (MLE)					0.136	Theta star (bias corrected MLE)					0.138
1035	nu hat (MLE)					885.1	nu star (bias corrected)					870.4
1036	Adjusted Level of Significance (β)					0.0486						
1037	Approximate Chi Square Value (870.42, α)					802.9	Adjusted Chi Square Value (870.42, β)					802.4
1038	95% Gamma Approximate UCL (use when n>=50)					0.393	95% Gamma Adjusted UCL (use when n<50)					0.393
1039												
1040	**Estimates of Gamma Parameters using KM Estimates**											
1041	Mean (KM)					0.374	SD (KM)					0.215
1042	Variance (KM)					0.0463	SE of Mean (KM)					0.0217
1043	k hat (KM)					3.019	k star (KM)					2.968
1044	nu hat (KM)					1002	nu star (KM)					985.4
1045	theta hat (KM)					0.124	theta star (KM)					0.126
1046	80% gamma percentile (KM)					0.534	90% gamma percentile (KM)					0.665
1047	95% gamma percentile (KM)					0.787	99% gamma percentile (KM)					1.052
1048												
1049	**Gamma Kaplan-Meier (KM) Statistics**											
1050	Approximate Chi Square Value (985.43, α)					913.6	Adjusted Chi Square Value (985.43, β)					913
1051	95% Gamma Approximate KM-UCL (use when n>=50)					0.403	95% Gamma Adjusted KM-UCL (use when n<50)					0.403
1052												
1053	**Lognormal GOF Test on Detected Observations Only**											
1054	Shapiro Wilk Approximate Test Statistic					0.952	**Shapiro Wilk GOF Test**					
1055	5% Shapiro Wilk P Value					0.058	Detected Data appear Lognormal at 5% Significance Level					
1056	Lilliefors Test Statistic					0.12	**Lilliefors GOF Test**					
1057	5% Lilliefors Critical Value					0.121	Detected Data appear Lognormal at 5% Significance Level					
1058	**Detected Data appear Lognormal at 5% Significance Level**											
1059												
1060	**Lognormal ROS Statistics Using Imputed Non-Detects**											

1061					Mean in Original Scale	0.371				Mean in Log Scale		-1.11
1062					SD in Original Scale	0.204				SD in Log Scale		0.478
1063				95% t UCL (assumes normality of ROS data)		0.397				95% Percentile Bootstrap UCL		0.398
1064					95% BCA Bootstrap UCL	0.4				95% Bootstrap t UCL		0.402
1065					95% H-UCL (Log ROS)	0.395						
1066												
1067	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
1068					KM Mean (logged)	-1.122				KM Geo Mean		0.326
1069					KM SD (logged)	0.518				95% Critical H Value (KM-Log)		1.82
1070				KM Standard Error of Mean (logged)		0.0629				95% H-UCL (KM -Log)		0.401
1071					KM SD (logged)	0.518				95% Critical H Value (KM-Log)		1.82
1072				KM Standard Error of Mean (logged)		0.0629						
1073												
1074	**DL/2 Statistics**											
1075	**DL/2 Normal**						**DL/2 Log-Transformed**					
1076					Mean in Original Scale	0.393				Mean in Log Scale		-1.059
1077					SD in Original Scale	0.207				SD in Log Scale		0.511
1078				95% t UCL (Assumes normality)		0.42				95% H-Stat UCL		0.425
1079	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
1080												
1081	**Nonparametric Distribution Free UCL Statistics**											
1082	**Detected Data appear Lognormal Distributed at 5% Significance Level**											
1083												
1084	**Suggested UCL to Use**											
1085					KM H-UCL	0.401						
1086												
1087	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1088	Recommendations are based upon data size, data distribution, and skewness.											
1089	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1090	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
1091												
1092	**Carbon disulfide**											
1093												
1094	**General Statistics**											
1095					Total Number of Observations	174				Number of Distinct Observations		61
1096										Number of Missing Observations		463
1097					Number of Detects	29				Number of Non-Detects		145
1098					Number of Distinct Detects	25				Number of Distinct Non-Detects		43
1099					Minimum Detect	3.6000E-4				Minimum Non-Detect		3.3000E-4
1100					Maximum Detect	0.0082				Maximum Non-Detect		0.015
1101					Variance Detects	2.8012E-6				Percent Non-Detects		83.33%
1102					Mean Detects	0.00127				SD Detects		0.00167
1103					Median Detects	7.0000E-4				CV Detects		1.322
1104					Skewness Detects	3.174				Kurtosis Detects		10.84
1105					Mean of Logged Detects	-7.088				SD of Logged Detects		0.798
1106												
1107	**Normal GOF Test on Detects Only**											
1108					Shapiro Wilk Test Statistic	0.55	**Shapiro Wilk GOF Test**					
1109					5% Shapiro Wilk Critical Value	0.926	Detected Data Not Normal at 5% Significance Level					
1110					Lilliefors Test Statistic	0.319	**Lilliefors GOF Test**					
1111					5% Lilliefors Critical Value	0.161	Detected Data Not Normal at 5% Significance Level					
1112	**Detected Data Not Normal at 5% Significance Level**											
1113												

	A	B	C	D	E	F	G	H	I	J	K	L
1114	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
1115					KM Mean	8.2476E-4				KM Standard Error of Mean		1.5476E-4
1116					KM SD	0.00119				95% KM (BCA) UCL		0.00111
1117					95% KM (t) UCL	0.00108				95% KM (Percentile Bootstrap) UCL		0.00108
1118					95% KM (z) UCL	0.00108				95% KM Bootstrap t UCL		0.00128
1119					90% KM Chebyshev UCL	0.00129				95% KM Chebyshev UCL		0.0015
1120					97.5% KM Chebyshev UCL	0.00179				99% KM Chebyshev UCL		0.00236
1121												
1122	**Gamma GOF Tests on Detected Observations Only**											
1123					A-D Test Statistic	2.493	**Anderson-Darling GOF Test**					
1124					5% A-D Critical Value	0.766	Detected Data Not Gamma Distributed at 5% Significance Level					
1125					K-S Test Statistic	0.202	**Kolmogorov-Smirnov GOF**					
1126					5% K-S Critical Value	0.166	Detected Data Not Gamma Distributed at 5% Significance Level					
1127	**Detected Data Not Gamma Distributed at 5% Significance Level**											
1128												
1129	**Gamma Statistics on Detected Data Only**											
1130					k hat (MLE)	1.346				k star (bias corrected MLE)		1.229
1131					Theta hat (MLE)	9.4077E-4				Theta star (bias corrected MLE)		0.00103
1132					nu hat (MLE)	78.04				nu star (bias corrected)		71.3
1133					Mean (detects)	0.00127						
1134												
1135	**Gamma ROS Statistics using Imputed Non-Detects**											
1136	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
1137	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)											
1138	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
1139	This is especially true when the sample size is small.											
1140	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
1141					Minimum	3.6000E-4				Mean		0.00854
1142					Maximum	0.01				Median		0.01
1143					SD	0.00333				CV		0.39
1144					k hat (MLE)	2.101				k star (bias corrected MLE)		2.069
1145					Theta hat (MLE)	0.00407				Theta star (bias corrected MLE)		0.00413
1146					nu hat (MLE)	731.3				nu star (bias corrected)		720
1147					Adjusted Level of Significance (β)	0.0486						
1148					Approximate Chi Square Value (720.04, α)	658.8				Adjusted Chi Square Value (720.04, β)		658.3
1149					95% Gamma Approximate UCL (use when n>=50)	0.00934				95% Gamma Adjusted UCL (use when n<50)		0.00935
1150												
1151	**Estimates of Gamma Parameters using KM Estimates**											
1152					Mean (KM)	8.2476E-4				SD (KM)		0.00119
1153					Variance (KM)	1.4148E-6				SE of Mean (KM)		1.5476E-4
1154					k hat (KM)	0.481				k star (KM)		0.476
1155					nu hat (KM)	167.3				nu star (KM)		165.8
1156					theta hat (KM)	0.00172				theta star (KM)		0.00173
1157					80% gamma percentile (KM)	0.00135				90% gamma percentile (KM)		0.00225
1158					95% gamma percentile (KM)	0.00322				99% gamma percentile (KM)		0.00562
1159												
1160	**Gamma Kaplan-Meier (KM) Statistics**											
1161					Approximate Chi Square Value (165.76, α)	137				Adjusted Chi Square Value (165.76, β)		136.8
1162					95% Gamma Approximate KM-UCL (use when n>=50)	9.9797E-4				95% Gamma Adjusted KM-UCL (use when n<50)		9.9955E-4
1163												
1164	**Lognormal GOF Test on Detected Observations Only**											
1165					Shapiro Wilk Test Statistic	0.848	**Shapiro Wilk GOF Test**					
1166					5% Shapiro Wilk Critical Value	0.926	Detected Data Not Lognormal at 5% Significance Level					

1167					Lilliefors Test Statistic	0.175	**Lilliefors GOF Test**					
1168					5% Lilliefors Critical Value	0.161	Detected Data Not Lognormal at 5% Significance Level					
1169	**Detected Data Not Lognormal at 5% Significance Level**											
1170												
1171	**Lognormal ROS Statistics Using Imputed Non-Detects**											
1172					Mean in Original Scale	5.9281E-4				Mean in Log Scale	-7.815	
1173					SD in Original Scale	8.0556E-4				SD in Log Scale	0.816	
1174					95% t UCL (assumes normality of ROS data)	6.9380E-4				95% Percentile Bootstrap UCL	7.0105E-4	
1175					95% BCA Bootstrap UCL	7.4049E-4				95% Bootstrap t UCL	7.4973E-4	
1176					95% H-UCL (Log ROS)	6.3821E-4						
1177												
1178	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
1179					KM Mean (logged)	-7.474				KM Geo Mean	5.6760E-4	
1180					KM SD (logged)	0.695				95% Critical H Value (KM-Log)	1.93	
1181					KM Standard Error of Mean (logged)	0.0965				95% H-UCL (KM -Log)	8.0039E-4	
1182					KM SD (logged)	0.695				95% Critical H Value (KM-Log)	1.93	
1183					KM Standard Error of Mean (logged)	0.0965						
1184												
1185	**DL/2 Statistics**											
1186	**DL/2 Normal**						**DL/2 Log-Transformed**					
1187					Mean in Original Scale	0.00347				Mean in Log Scale	-6.077	
1188					SD in Original Scale	0.00197				SD in Log Scale	1.171	
1189					95% t UCL (Assumes normality)	0.00371				95% H-Stat UCL	0.0056	
1190	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
1191												
1192	**Nonparametric Distribution Free UCL Statistics**											
1193	**Data do not follow a Discernible Distribution at 5% Significance Level**											
1194												
1195	**Suggested UCL to Use**											
1196					95% KM (Chebyshev) UCL	0.0015						
1197												
1198	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1199	Recommendations are based upon data size, data distribution, and skewness.											
1200	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1201	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
1202												
1203												
1204	**Chromium**											
1205												
1206	**General Statistics**											
1207					Total Number of Observations	166				Number of Distinct Observations	140	
1208										Number of Missing Observations	471	
1209					Minimum	1.54				Mean	19.26	
1210					Maximum	160				Median	11.85	
1211					SD	18.42				Std. Error of Mean	1.43	
1212					Coefficient of Variation	0.956				Skewness	3.058	
1213												
1214	**Normal GOF Test**											
1215					Shapiro Wilk Test Statistic	0.769	**Shapiro Wilk GOF Test**					
1216					5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level					
1217					Lilliefors Test Statistic	0.183	**Lilliefors GOF Test**					
1218					5% Lilliefors Critical Value	0.0692	Data Not Normal at 5% Significance Level					
1219	**Data Not Normal at 5% Significance Level**											

	A	B	C	D	E	F	G	H	I	J	K	L
1220												
1221	**Assuming Normal Distribution**											
1222	**95% Normal UCL**						**95% UCLs (Adjusted for Skewness)**					
1223	95% Student's-t UCL					21.62	95% Adjusted-CLT UCL (Chen-1995)					21.97
1224							95% Modified-t UCL (Johnson-1978)					21.68
1225												
1226	**Gamma GOF Test**											
1227	A-D Test Statistic					3.199	**Anderson-Darling Gamma GOF Test**					
1228	5% A-D Critical Value					0.774	Data Not Gamma Distributed at 5% Significance Level					
1229	K-S Test Statistic					0.118	**Kolmogorov-Smirnov Gamma GOF Test**					
1230	5% K-S Critical Value					0.0739	Data Not Gamma Distributed at 5% Significance Level					
1231	**Data Not Gamma Distributed at 5% Significance Level**											
1232												
1233	**Gamma Statistics**											
1234	k hat (MLE)					1.389	k star (bias corrected MLE)					1.368
1235	Theta hat (MLE)					13.87	Theta star (bias corrected MLE)					14.08
1236	nu hat (MLE)					461.1	nu star (bias corrected)					454.1
1237	MLE Mean (bias corrected)					19.26	MLE Sd (bias corrected)					16.47
1238							Approximate Chi Square Value (0.05)					405.7
1239	Adjusted Level of Significance					0.0486	Adjusted Chi Square Value					405.3
1240												
1241	**Assuming Gamma Distribution**											
1242	95% Approximate Gamma UCL (use when n>=50))					21.56	95% Adjusted Gamma UCL (use when n<50)					21.58
1243												
1244	**Lognormal GOF Test**											
1245	Shapiro Wilk Test Statistic					0.946	**Shapiro Wilk Lognormal GOF Test**					
1246	5% Shapiro Wilk P Value					3.1296E-6	Data Not Lognormal at 5% Significance Level					
1247	Lilliefors Test Statistic					0.119	**Lilliefors Lognormal GOF Test**					
1248	5% Lilliefors Critical Value					0.0692	Data Not Lognormal at 5% Significance Level					
1249	**Data Not Lognormal at 5% Significance Level**											
1250												
1251	**Lognormal Statistics**											
1252	Minimum of Logged Data					0.432	Mean of logged Data					2.557
1253	Maximum of Logged Data					5.075	SD of logged Data					0.927
1254												
1255	**Assuming Lognormal Distribution**											
1256	95% H-UCL					23.05	90% Chebyshev (MVUE) UCL					24.77
1257	95% Chebyshev (MVUE) UCL					27.05	97.5% Chebyshev (MVUE) UCL					30.21
1258	99% Chebyshev (MVUE) UCL					36.43						
1259												
1260	**Nonparametric Distribution Free UCL Statistics**											
1261	**Data do not follow a Discernible Distribution (0.05)**											
1262												
1263	**Nonparametric Distribution Free UCLs**											
1264	95% CLT UCL					21.61	95% Jackknife UCL					21.62
1265	95% Standard Bootstrap UCL					21.63	95% Bootstrap-t UCL					22.25
1266	95% Hall's Bootstrap UCL					22.45	95% Percentile Bootstrap UCL					21.66
1267	95% BCA Bootstrap UCL					21.86						
1268	90% Chebyshev(Mean, Sd) UCL					23.55	95% Chebyshev(Mean, Sd) UCL					25.49
1269	97.5% Chebyshev(Mean, Sd) UCL					28.19	99% Chebyshev(Mean, Sd) UCL					33.48
1270												
1271	**Suggested UCL to Use**											
1272	95% Chebyshev (Mean, Sd) UCL					25.49						

	A	B	C	D	E	F	G	H	I	J	K	L
1273												
1274	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1275	Recommendations are based upon data size, data distribution, and skewness.											
1276	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1277	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
1278												
1279												
1280	**Cobalt**											
1281												
1282	**General Statistics**											
1283					Total Number of Observations	166				Number of Distinct Observations	150	
1284										Number of Missing Observations	471	
1285					Minimum	0.812				Mean	6.135	
1286					Maximum	16				Median	6.14	
1287					SD	2.737				Std. Error of Mean	0.212	
1288					Coefficient of Variation	0.446				Skewness	0.528	
1289												
1290	**Normal GOF Test**											
1291					Shapiro Wilk Test Statistic	0.955				**Shapiro Wilk GOF Test**		
1292					5% Shapiro Wilk P Value	1.8947E-4				Data Not Normal at 5% Significance Level		
1293					Lilliefors Test Statistic	0.0945				**Lilliefors GOF Test**		
1294					5% Lilliefors Critical Value	0.0692				Data Not Normal at 5% Significance Level		
1295	**Data Not Normal at 5% Significance Level**											
1296												
1297	**Assuming Normal Distribution**											
1298					**95% Normal UCL**					**95% UCLs (Adjusted for Skewness)**		
1299					95% Student's-t UCL	6.486				95% Adjusted-CLT UCL (Chen-1995)	6.493	
1300										95% Modified-t UCL (Johnson-1978)	6.487	
1301												
1302	**Gamma GOF Test**											
1303					A-D Test Statistic	1.561				**Anderson-Darling Gamma GOF Test**		
1304					5% A-D Critical Value	0.756				Data Not Gamma Distributed at 5% Significance Level		
1305					K-S Test Statistic	0.0898				**Kolmogorov-Smirnov Gamma GOF Test**		
1306					5% K-S Critical Value	0.0726				Data Not Gamma Distributed at 5% Significance Level		
1307	**Data Not Gamma Distributed at 5% Significance Level**											
1308												
1309	**Gamma Statistics**											
1310					k hat (MLE)	4.679				k star (bias corrected MLE)	4.599	
1311					Theta hat (MLE)	1.311				Theta star (bias corrected MLE)	1.334	
1312					nu hat (MLE)	1554				nu star (bias corrected)	1527	
1313					MLE Mean (bias corrected)	6.135				MLE Sd (bias corrected)	2.861	
1314										Approximate Chi Square Value (0.05)	1437	
1315					Adjusted Level of Significance	0.0486				Adjusted Chi Square Value	1436	
1316												
1317	**Assuming Gamma Distribution**											
1318					95% Approximate Gamma UCL (use when n>=50))	6.518				95% Adjusted Gamma UCL (use when n<50)	6.521	
1319												
1320	**Lognormal GOF Test**											
1321					Shapiro Wilk Test Statistic	0.958				**Shapiro Wilk Lognormal GOF Test**		
1322					5% Shapiro Wilk P Value	6.5777E-4				Data Not Lognormal at 5% Significance Level		
1323					Lilliefors Test Statistic	0.107				**Lilliefors Lognormal GOF Test**		
1324					5% Lilliefors Critical Value	0.0692				Data Not Lognormal at 5% Significance Level		
1325	**Data Not Lognormal at 5% Significance Level**											

1326												
1327	**Lognormal Statistics**											
1328					Minimum of Logged Data	-0.208				Mean of logged Data	1.703	
1329					Maximum of Logged Data	2.773				SD of logged Data	0.496	
1330												
1331	**Assuming Lognormal Distribution**											
1332					95% H-UCL	6.659				90% Chebyshev (MVUE) UCL	6.961	
1333					95% Chebyshev (MVUE) UCL	7.304				97.5% Chebyshev (MVUE) UCL	7.78	
1334					99% Chebyshev (MVUE) UCL	8.714						
1335												
1336	**Nonparametric Distribution Free UCL Statistics**											
1337	**Data do not follow a Discernible Distribution (0.05)**											
1338												
1339	**Nonparametric Distribution Free UCLs**											
1340					95% CLT UCL	6.484				95% Jackknife UCL	6.486	
1341					95% Standard Bootstrap UCL	6.468				95% Bootstrap-t UCL	6.499	
1342					95% Hall's Bootstrap UCL	6.484				95% Percentile Bootstrap UCL	6.496	
1343					95% BCA Bootstrap UCL	6.471						
1344					90% Chebyshev(Mean, Sd) UCL	6.772				95% Chebyshev(Mean, Sd) UCL	7.06	
1345					97.5% Chebyshev(Mean, Sd) UCL	7.461				99% Chebyshev(Mean, Sd) UCL	8.248	
1346												
1347	**Suggested UCL to Use**											
1348					95% Student's-t UCL	6.486				or 95% Modified-t UCL	6.487	
1349												
1350	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1351	Recommendations are based upon data size, data distribution, and skewness.											
1352	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1353	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
1354												
1355												
1356	**Copper**											
1357												
1358	**General Statistics**											
1359					Total Number of Observations	166				Number of Distinct Observations	142	
1360										Number of Missing Observations	471	
1361					Minimum	2.02				Mean	12.13	
1362					Maximum	139				Median	8.015	
1363					SD	15.89				Std. Error of Mean	1.233	
1364					Coefficient of Variation	1.31				Skewness	5.358	
1365												
1366	**Normal GOF Test**											
1367					Shapiro Wilk Test Statistic	0.479				**Shapiro Wilk GOF Test**		
1368					5% Shapiro Wilk P Value	0				Data Not Normal at 5% Significance Level		
1369					Lilliefors Test Statistic	0.27				**Lilliefors GOF Test**		
1370					5% Lilliefors Critical Value	0.0692				Data Not Normal at 5% Significance Level		
1371	**Data Not Normal at 5% Significance Level**											
1372												
1373	**Assuming Normal Distribution**											
1374	**95% Normal UCL**									**95% UCLs (Adjusted for Skewness)**		
1375					95% Student's-t UCL	14.17				95% Adjusted-CLT UCL (Chen-1995)	14.71	
1376										95% Modified-t UCL (Johnson-1978)	14.25	
1377												
1378	**Gamma GOF Test**											

1379	A-D Test Statistic					6.771	**Anderson-Darling Gamma GOF Test**					
1380	5% A-D Critical Value					0.769	Data Not Gamma Distributed at 5% Significance Level					
1381	K-S Test Statistic					0.137	**Kolmogorov-Smirnov Gamma GOF Test**					
1382	5% K-S Critical Value					0.0736	Data Not Gamma Distributed at 5% Significance Level					
1383	**Data Not Gamma Distributed at 5% Significance Level**											
1384												
1385	**Gamma Statistics**											
1386	k hat (MLE)					1.714	k star (bias corrected MLE)					1.687
1387	Theta hat (MLE)					7.077	Theta star (bias corrected MLE)					7.19
1388	nu hat (MLE)					569	nu star (bias corrected)					560.1
1389	MLE Mean (bias corrected)					12.13	MLE Sd (bias corrected)					9.338
1390							Approximate Chi Square Value (0.05)					506.2
1391	Adjusted Level of Significance					0.0486	Adjusted Chi Square Value					505.7
1392												
1393	**Assuming Gamma Distribution**											
1394	95% Approximate Gamma UCL (use when n>=50))					13.42	95% Adjusted Gamma UCL (use when n<50)					13.43
1395												
1396	**Lognormal GOF Test**											
1397	Shapiro Wilk Test Statistic					0.942	**Shapiro Wilk Lognormal GOF Test**					
1398	5% Shapiro Wilk P Value					5.0002E-7	Data Not Lognormal at 5% Significance Level					
1399	Lilliefors Test Statistic					0.0667	**Lilliefors Lognormal GOF Test**					
1400	5% Lilliefors Critical Value					0.0692	Data appear Lognormal at 5% Significance Level					
1401	**Data appear Approximate Lognormal at 5% Significance Level**											
1402												
1403	**Lognormal Statistics**											
1404	Minimum of Logged Data					0.703	Mean of logged Data					2.176
1405	Maximum of Logged Data					4.934	SD of logged Data					0.697
1406												
1407	**Assuming Lognormal Distribution**											
1408	95% H-UCL					12.48	90% Chebyshev (MVUE) UCL					13.24
1409	95% Chebyshev (MVUE) UCL					14.15	97.5% Chebyshev (MVUE) UCL					15.42
1410	99% Chebyshev (MVUE) UCL					17.91						
1411												
1412	**Nonparametric Distribution Free UCL Statistics**											
1413	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
1414												
1415	**Nonparametric Distribution Free UCLs**											
1416	95% CLT UCL					14.16	95% Jackknife UCL					14.17
1417	95% Standard Bootstrap UCL					14.13	95% Bootstrap-t UCL					15.4
1418	95% Hall's Bootstrap UCL					15.48	95% Percentile Bootstrap UCL					14.13
1419	95% BCA Bootstrap UCL					15.05						
1420	90% Chebyshev(Mean, Sd) UCL					15.83	95% Chebyshev(Mean, Sd) UCL					17.5
1421	97.5% Chebyshev(Mean, Sd) UCL					19.83	99% Chebyshev(Mean, Sd) UCL					24.4
1422												
1423	**Suggested UCL to Use**											
1424	95% H-UCL					12.48						
1425												
1426	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1427	Recommendations are based upon data size, data distribution, and skewness.											
1428	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1429	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
1430												
1431	**ProUCL computes and outputs H-statistic based UCLs for historical reasons only.**											

	A	B	C	D	E	F	G	H	I	J	K	L
1432	**H-statistic often results in unstable (both high and low) values of UCL95 as shown in examples in the Technical Guide.**											
1433	**It is therefore recommended to avoid the use of H-statistic based 95% UCLs.**											
1434	**Use of nonparametric methods are preferred to compute UCL95 for skewed data sets which do not follow a gamma distribution.**											
1435												
1436	**Ethanol**											
1437												
1438	**General Statistics**											
1439					Total Number of Observations	145			Number of Distinct Observations	41		
1440									Number of Missing Observations	48		
1441					Number of Detects	34			Number of Non-Detects	111		
1442					Number of Distinct Detects	22			Number of Distinct Non-Detects	19		
1443					Minimum Detect	0.059			Minimum Non-Detect	0.17		
1444					Maximum Detect	0.15			Maximum Non-Detect	0.39		
1445					Variance Detects	6.7170E-4			Percent Non-Detects	76.55%		
1446					Mean Detects	0.0941			SD Detects	0.0259		
1447					Median Detects	0.087			CV Detects	0.275		
1448					Skewness Detects	0.508			Kurtosis Detects	-0.876		
1449					Mean of Logged Detects	-2.399			SD of Logged Detects	0.271		
1450												
1451	**Normal GOF Test on Detects Only**											
1452					Shapiro Wilk Test Statistic	0.922			**Shapiro Wilk GOF Test**			
1453					5% Shapiro Wilk Critical Value	0.933			Detected Data Not Normal at 5% Significance Level			
1454					Lilliefors Test Statistic	0.152			**Lilliefors GOF Test**			
1455					5% Lilliefors Critical Value	0.15			Detected Data Not Normal at 5% Significance Level			
1456	**Detected Data Not Normal at 5% Significance Level**											
1457												
1458	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
1459					KM Mean	0.0941			KM Standard Error of Mean	0.00444		
1460					KM SD	0.0255			95% KM (BCA) UCL	0.102		
1461					95% KM (t) UCL	0.102			95% KM (Percentile Bootstrap) UCL	0.102		
1462					95% KM (z) UCL	0.101			95% KM Bootstrap t UCL	0.102		
1463					90% KM Chebyshev UCL	0.107			95% KM Chebyshev UCL	0.114		
1464					97.5% KM Chebyshev UCL	0.122			99% KM Chebyshev UCL	0.138		
1465												
1466	**Gamma GOF Tests on Detected Observations Only**											
1467					A-D Test Statistic	0.701			**Anderson-Darling GOF Test**			
1468					5% A-D Critical Value	0.747			Detected data appear Gamma Distributed at 5% Significance Level			
1469					K-S Test Statistic	0.144			**Kolmogorov-Smirnov GOF**			
1470					5% K-S Critical Value	0.151			Detected data appear Gamma Distributed at 5% Significance Level			
1471	**Detected data appear Gamma Distributed at 5% Significance Level**											
1472												
1473	**Gamma Statistics on Detected Data Only**											
1474					k hat (MLE)	14.06			k star (bias corrected MLE)	12.84		
1475					Theta hat (MLE)	0.0067			Theta star (bias corrected MLE)	0.00733		
1476					nu hat (MLE)	956.1			nu star (bias corrected)	873.1		
1477					Mean (detects)	0.0941						
1478												
1479	**Gamma ROS Statistics using Imputed Non-Detects**											
1480	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
1481	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)											
1482	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
1483	This is especially true when the sample size is small.											
1484	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											

1485					Minimum	0.0519					Mean	0.0937
1486					Maximum	0.15					Median	0.0921
1487					SD	0.0223					CV	0.238
1488					k hat (MLE)	17.79					k star (bias corrected MLE)	17.43
1489					Theta hat (MLE)	0.00527					Theta star (bias corrected MLE)	0.00538
1490					nu hat (MLE)	5160					nu star (bias corrected)	5054
1491					Adjusted Level of Significance (β)	0.0483						
1492					Approximate Chi Square Value (N/A, α)	4890					Adjusted Chi Square Value (N/A, β)	4889
1493					95% Gamma Approximate UCL (use when n>=50)	0.0968					95% Gamma Adjusted UCL (use when n<50)	0.0969
1494												
1495	**Estimates of Gamma Parameters using KM Estimates**											
1496					Mean (KM)	0.0941					SD (KM)	0.0255
1497					Variance (KM)	6.5195E-4					SE of Mean (KM)	0.00444
1498					k hat (KM)	13.6					k star (KM)	13.32
1499					nu hat (KM)	3943					nu star (KM)	3862
1500					theta hat (KM)	0.00692					theta star (KM)	0.00707
1501					80% gamma percentile (KM)	0.115					90% gamma percentile (KM)	0.128
1502					95% gamma percentile (KM)	0.14					99% gamma percentile (KM)	0.164
1503												
1504	**Gamma Kaplan-Meier (KM) Statistics**											
1505					Approximate Chi Square Value (N/A, α)	3719					Adjusted Chi Square Value (N/A, β)	3718
1506					95% Gamma Approximate KM-UCL (use when n>=50)	0.0978					95% Gamma Adjusted KM-UCL (use when n<50)	0.0978
1507												
1508	**Lognormal GOF Test on Detected Observations Only**											
1509					Shapiro Wilk Test Statistic	0.941					**Shapiro Wilk GOF Test**	
1510					5% Shapiro Wilk Critical Value	0.933					Detected Data appear Lognormal at 5% Significance Level	
1511					Lilliefors Test Statistic	0.142					**Lilliefors GOF Test**	
1512					5% Lilliefors Critical Value	0.15					Detected Data appear Lognormal at 5% Significance Level	
1513	**Detected Data appear Lognormal at 5% Significance Level**											
1514												
1515	**Lognormal ROS Statistics Using Imputed Non-Detects**											
1516					Mean in Original Scale	0.0933					Mean in Log Scale	-2.399
1517					SD in Original Scale	0.0221					SD in Log Scale	0.234
1518					95% t UCL (assumes normality of ROS data)	0.0964					95% Percentile Bootstrap UCL	0.0964
1519					95% BCA Bootstrap UCL	0.0962					95% Bootstrap t UCL	0.0966
1520					95% H-UCL (Log ROS)	0.0965						
1521												
1522	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
1523					KM Mean (logged)	-2.399					KM Geo Mean	0.0908
1524					KM SD (logged)	0.267					95% Critical H Value (KM-Log)	1.719
1525					KM Standard Error of Mean (logged)	0.0465					95% H-UCL (KM -Log)	0.0978
1526					KM SD (logged)	0.267					95% Critical H Value (KM-Log)	1.719
1527					KM Standard Error of Mean (logged)	0.0465						
1528												
1529	**DL/2 Statistics**											
1530	**DL/2 Normal**										**DL/2 Log-Transformed**	
1531					Mean in Original Scale	0.111					Mean in Log Scale	-2.221
1532					SD in Original Scale	0.0225					SD in Log Scale	0.207
1533					95% t UCL (Assumes normality)	0.114					95% H-Stat UCL	0.114
1534	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
1535												
1536	**Nonparametric Distribution Free UCL Statistics**											
1537	**Detected Data appear Gamma Distributed at 5% Significance Level**											

	A	B	C	D	E	F	G	H	I	J	K	L
1538												
1539	**Suggested UCL to Use**											
1540	95% KM Approximate Gamma UCL					0.0978	95% GROS Approximate Gamma UCL					0.0968
1541												
1542	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1543	Recommendations are based upon data size, data distribution, and skewness.											
1544	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1545	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
1546												
1547	**Lead**											
1548												
1549	**General Statistics**											
1550	Total Number of Observations					238	Number of Distinct Observations					192
1551							Number of Missing Observations					399
1552	Number of Detects					233	Number of Non-Detects					5
1553	Number of Distinct Detects					191	Number of Distinct Non-Detects					2
1554	Minimum Detect					0.15	Minimum Non-Detect					0.14
1555	Maximum Detect					75.4	Maximum Non-Detect					0.15
1556	Variance Detects					49.1	Percent Non-Detects					2.101%
1557	Mean Detects					4.35	SD Detects					7.007
1558	Median Detects					2.44	CV Detects					1.611
1559	Skewness Detects					5.838	Kurtosis Detects					48.3
1560	Mean of Logged Detects					0.969	SD of Logged Detects					0.906
1561												
1562	**Normal GOF Test on Detects Only**											
1563	Shapiro Wilk Test Statistic					0.485	**Normal GOF Test on Detected Observations Only**					
1564	5% Shapiro Wilk P Value					0	Detected Data Not Normal at 5% Significance Level					
1565	Lilliefors Test Statistic					0.319	**Lilliefors GOF Test**					
1566	5% Lilliefors Critical Value					0.0585	Detected Data Not Normal at 5% Significance Level					
1567	**Detected Data Not Normal at 5% Significance Level**											
1568												
1569	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
1570	KM Mean					4.262	KM Standard Error of Mean					0.451
1571	KM SD					6.944	95% KM (BCA) UCL					4.992
1572	95% KM (t) UCL					5.007	95% KM (Percentile Bootstrap) UCL					5.036
1573	95% KM (z) UCL					5.004	95% KM Bootstrap t UCL					5.36
1574	90% KM Chebyshev UCL					5.615	95% KM Chebyshev UCL					6.228
1575	97.5% KM Chebyshev UCL					7.079	99% KM Chebyshev UCL					8.75
1576												
1577	**Gamma GOF Tests on Detected Observations Only**											
1578	A-D Test Statistic					13.28	**Anderson-Darling GOF Test**					
1579	5% A-D Critical Value					0.781	Detected Data Not Gamma Distributed at 5% Significance Level					
1580	K-S Test Statistic					0.196	**Kolmogorov-Smirnov GOF**					
1581	5% K-S Critical Value					0.0614	Detected Data Not Gamma Distributed at 5% Significance Level					
1582	**Detected Data Not Gamma Distributed at 5% Significance Level**											
1583												
1584	**Gamma Statistics on Detected Data Only**											
1585	k hat (MLE)					1.136	k star (bias corrected MLE)					1.124
1586	Theta hat (MLE)					3.83	Theta star (bias corrected MLE)					3.87
1587	nu hat (MLE)					529.3	nu star (bias corrected)					523.8
1588	Mean (detects)					4.35						
1589												
1590	**Gamma ROS Statistics using Imputed Non-Detects**											

	A	B	C	D	E	F	G	H	I	J	K	L
1591	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
1592	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)											
1593	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
1594	This is especially true when the sample size is small.											
1595	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
1596					Minimum	0.01				Mean		4.259
1597					Maximum	75.4				Median		2.39
1598					SD	6.961				CV		1.634
1599					k hat (MLE)	0.971				k star (bias corrected MLE)		0.961
1600					Theta hat (MLE)	4.388				Theta star (bias corrected MLE)		4.431
1601					nu hat (MLE)	462				nu star (bias corrected)		457.5
1602					Adjusted Level of Significance (β)	0.049						
1603					Approximate Chi Square Value (457.50, α)	408.9				Adjusted Chi Square Value (457.50, β)		408.6
1604					95% Gamma Approximate UCL (use when n>=50)	4.765				95% Gamma Adjusted UCL (use when n<50)		4.768
1605												
1606	**Estimates of Gamma Parameters using KM Estimates**											
1607					Mean (KM)	4.262				SD (KM)		6.944
1608					Variance (KM)	48.23				SE of Mean (KM)		0.451
1609					k hat (KM)	0.377				k star (KM)		0.375
1610					nu hat (KM)	179.3				nu star (KM)		178.3
1611					theta hat (KM)	11.32				theta star (KM)		11.38
1612					80% gamma percentile (KM)	6.82				90% gamma percentile (KM)		12.17
1613					95% gamma percentile (KM)	18.11				99% gamma percentile (KM)		33.14
1614												
1615	**Gamma Kaplan-Meier (KM) Statistics**											
1616					Approximate Chi Square Value (178.33, α)	148.4				Adjusted Chi Square Value (178.33, β)		148.3
1617					95% Gamma Approximate KM-UCL (use when n>=50)	5.12				95% Gamma Adjusted KM-UCL (use when n<50)		5.125
1618												
1619	**Lognormal GOF Test on Detected Observations Only**											
1620					Shapiro Wilk Approximate Test Statistic	0.951				**Shapiro Wilk GOF Test**		
1621					5% Shapiro Wilk P Value	1.4133E-7				Detected Data Not Lognormal at 5% Significance Level		
1622					Lilliefors Test Statistic	0.11				**Lilliefors GOF Test**		
1623					5% Lilliefors Critical Value	0.0585				Detected Data Not Lognormal at 5% Significance Level		
1624	**Detected Data Not Lognormal at 5% Significance Level**											
1625												
1626	**Lognormal ROS Statistics Using Imputed Non-Detects**											
1627					Mean in Original Scale	4.265				Mean in Log Scale		0.922
1628					SD in Original Scale	6.957				SD in Log Scale		0.953
1629					95% t UCL (assumes normality of ROS data)	5.009				95% Percentile Bootstrap UCL		5.07
1630					95% BCA Bootstrap UCL	5.187				95% Bootstrap t UCL		5.264
1631					95% H-UCL (Log ROS)	4.513						
1632												
1633	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
1634					KM Mean (logged)	0.908				KM Geo Mean		2.478
1635					KM SD (logged)	0.988				95% Critical H Value (KM-Log)		2.144
1636					KM Standard Error of Mean (logged)	0.0642				95% H-UCL (KM -Log)		4.635
1637					KM SD (logged)	0.988				95% Critical H Value (KM-Log)		2.144
1638					KM Standard Error of Mean (logged)	0.0642						
1639												
1640	**DL/2 Statistics**											
1641	**DL/2 Normal**						**DL/2 Log-Transformed**					
1642					Mean in Original Scale	4.26				Mean in Log Scale		0.893
1643					SD in Original Scale	6.96				SD in Log Scale		1.036

1644				95% t UCL (Assumes normality)		5.005					95% H-Stat UCL	4.84
1645	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
1646												
1647	**Nonparametric Distribution Free UCL Statistics**											
1648	**Data do not follow a Discernible Distribution at 5% Significance Level**											
1649												
1650	**Suggested UCL to Use**											
1651				95% KM (Chebyshev) UCL		6.228						
1652												
1653	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1654	Recommendations are based upon data size, data distribution, and skewness.											
1655	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1656	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
1657												
1658	**Mercury**											
1659												
1660	**General Statistics**											
1661				Total Number of Observations		166					Number of Distinct Observations	68
1662											Number of Missing Observations	471
1663				Number of Detects		89					Number of Non-Detects	77
1664				Number of Distinct Detects		51					Number of Distinct Non-Detects	20
1665				Minimum Detect		0.01					Minimum Non-Detect	0.00559
1666				Maximum Detect		0.222					Maximum Non-Detect	0.1
1667				Variance Detects		0.00147					Percent Non-Detects	46.39%
1668				Mean Detects		0.0341					SD Detects	0.0384
1669				Median Detects		0.02					CV Detects	1.126
1670				Skewness Detects		3.049					Kurtosis Detects	9.985
1671				Mean of Logged Detects		-3.705					SD of Logged Detects	0.708
1672												
1673	**Normal GOF Test on Detects Only**											
1674				Shapiro Wilk Test Statistic		0.592					**Normal GOF Test on Detected Observations Only**	
1675				5% Shapiro Wilk P Value		0					Detected Data Not Normal at 5% Significance Level	
1676				Lilliefors Test Statistic		0.277					**Lilliefors GOF Test**	
1677				5% Lilliefors Critical Value		0.0941					Detected Data Not Normal at 5% Significance Level	
1678	**Detected Data Not Normal at 5% Significance Level**											
1679												
1680	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
1681				KM Mean		0.0238					KM Standard Error of Mean	0.0025
1682				KM SD		0.0311					95% KM (BCA) UCL	0.0277
1683				95% KM (t) UCL		0.0279					95% KM (Percentile Bootstrap) UCL	0.0284
1684				95% KM (z) UCL		0.0279					95% KM Bootstrap t UCL	0.0287
1685				90% KM Chebyshev UCL		0.0313					95% KM Chebyshev UCL	0.0347
1686				97.5% KM Chebyshev UCL		0.0394					99% KM Chebyshev UCL	0.0487
1687												
1688	**Gamma GOF Tests on Detected Observations Only**											
1689				A-D Test Statistic		6.65					**Anderson-Darling GOF Test**	
1690				5% A-D Critical Value		0.769					Detected Data Not Gamma Distributed at 5% Significance Level	
1691				K-S Test Statistic		0.196					**Kolmogorov-Smirnov GOF**	
1692				5% K-S Critical Value		0.0963					Detected Data Not Gamma Distributed at 5% Significance Level	
1693	**Detected Data Not Gamma Distributed at 5% Significance Level**											
1694												
1695	**Gamma Statistics on Detected Data Only**											
1696				k hat (MLE)		1.683					k star (bias corrected MLE)	1.634

1697					Theta hat (MLE)	0.0202				Theta star (bias corrected MLE)		0.0209
1698					nu hat (MLE)	299.5				nu star (bias corrected)		290.8
1699					Mean (detects)	0.0341						
1700												
1701					**Gamma ROS Statistics using Imputed Non-Detects**							
1702					GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs							
1703					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)							
1704					For such situations, GROS method may yield incorrect values of UCLs and BTVs							
1705					This is especially true when the sample size is small.							
1706					For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates							
1707					Minimum	0.01				Mean		0.0246
1708					Maximum	0.222				Median		0.0149
1709					SD	0.0304				CV		1.237
1710					k hat (MLE)	1.669				k star (bias corrected MLE)		1.643
1711					Theta hat (MLE)	0.0147				Theta star (bias corrected MLE)		0.015
1712					nu hat (MLE)	554				nu star (bias corrected)		545.3
1713					Adjusted Level of Significance (β)	0.0486						
1714					Approximate Chi Square Value (545.34, α)	492.2				Adjusted Chi Square Value (545.34, β)		491.7
1715					95% Gamma Approximate UCL (use when n>=50)	0.0272				95% Gamma Adjusted UCL (use when n<50)		0.0273
1716												
1717					**Estimates of Gamma Parameters using KM Estimates**							
1718					Mean (KM)	0.0238				SD (KM)		0.0311
1719					Variance (KM)	9.6658E-4				SE of Mean (KM)		0.0025
1720					k hat (KM)	0.585				k star (KM)		0.578
1721					nu hat (KM)	194.1				nu star (KM)		191.9
1722					theta hat (KM)	0.0407				theta star (KM)		0.0411
1723					80% gamma percentile (KM)	0.0392				90% gamma percentile (KM)		0.0623
1724					95% gamma percentile (KM)	0.0867				99% gamma percentile (KM)		0.146
1725												
1726					**Gamma Kaplan-Meier (KM) Statistics**							
1727					Approximate Chi Square Value (191.91, α)	160.9				Adjusted Chi Square Value (191.91, β)		160.6
1728					95% Gamma Approximate KM-UCL (use when n>=50)	0.0284				95% Gamma Adjusted KM-UCL (use when n<50)		0.0284
1729												
1730					**Lognormal GOF Test on Detected Observations Only**							
1731					Shapiro Wilk Approximate Test Statistic	0.86				**Shapiro Wilk GOF Test**		
1732					5% Shapiro Wilk P Value	8.633E-12				Detected Data Not Lognormal at 5% Significance Level		
1733					Lilliefors Test Statistic	0.154				**Lilliefors GOF Test**		
1734					5% Lilliefors Critical Value	0.0941				Detected Data Not Lognormal at 5% Significance Level		
1735					**Detected Data Not Lognormal at 5% Significance Level**							
1736												
1737					**Lognormal ROS Statistics Using Imputed Non-Detects**							
1738					Mean in Original Scale	0.0231				Mean in Log Scale		-4.214
1739					SD in Original Scale	0.0309				SD in Log Scale		0.883
1740					95% t UCL (assumes normality of ROS data)	0.0271				95% Percentile Bootstrap UCL		0.0274
1741					95% BCA Bootstrap UCL	0.0279				95% Bootstrap t UCL		0.0281
1742					95% H-UCL (Log ROS)	0.0252						
1743												
1744					**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**							
1745					KM Mean (logged)	-4.172				KM Geo Mean		0.0154
1746					KM SD (logged)	0.85				95% Critical H Value (KM-Log)		2.04
1747					KM Standard Error of Mean (logged)	0.0738				95% H-UCL (KM -Log)		0.0253
1748					KM SD (logged)	0.85				95% Critical H Value (KM-Log)		2.04
1749					KM Standard Error of Mean (logged)	0.0738						

1750												
1751	**DL/2 Statistics**											
1752	**DL/2 Normal**						**DL/2 Log-Transformed**					
1753					Mean in Original Scale	0.0286				Mean in Log Scale	-3.987	
1754					SD in Original Scale	0.0313				SD in Log Scale	0.949	
1755					95% t UCL (Assumes normality)	0.0326				95% H-Stat UCL	0.0341	
1756	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
1757												
1758	**Nonparametric Distribution Free UCL Statistics**											
1759	**Data do not follow a Discernible Distribution at 5% Significance Level**											
1760												
1761	**Suggested UCL to Use**											
1762					95% KM (Chebyshev) UCL	0.0347						
1763												
1764	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1765	Recommendations are based upon data size, data distribution, and skewness.											
1766	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1767	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
1768												
1769	**Nickel**											
1770												
1771	**General Statistics**											
1772					Total Number of Observations	166				Number of Distinct Observations	151	
1773										Number of Missing Observations	471	
1774					Number of Detects	164				Number of Non-Detects	2	
1775					Number of Distinct Detects	149				Number of Distinct Non-Detects	2	
1776					Minimum Detect	0.93				Minimum Non-Detect	1	
1777					Maximum Detect	66.6				Maximum Non-Detect	2.5	
1778					Variance Detects	57.87				Percent Non-Detects	1.205%	
1779					Mean Detects	8.89				SD Detects	7.607	
1780					Median Detects	7.11				CV Detects	0.856	
1781					Skewness Detects	3.561				Kurtosis Detects	20.58	
1782					Mean of Logged Detects	1.943				SD of Logged Detects	0.682	
1783												
1784	**Normal GOF Test on Detects Only**											
1785					Shapiro Wilk Test Statistic	0.722	**Normal GOF Test on Detected Observations Only**					
1786					5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level					
1787					Lilliefors Test Statistic	0.205	**Lilliefors GOF Test**					
1788					5% Lilliefors Critical Value	0.0696	Detected Data Not Normal at 5% Significance Level					
1789	**Detected Data Not Normal at 5% Significance Level**											
1790												
1791	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
1792					KM Mean	8.8				KM Standard Error of Mean	0.59	
1793					KM SD	7.583				95% KM (BCA) UCL	9.837	
1794					95% KM (t) UCL	9.776				95% KM (Percentile Bootstrap) UCL	9.753	
1795					95% KM (z) UCL	9.771				95% KM Bootstrap t UCL	10.02	
1796					90% KM Chebyshev UCL	10.57				95% KM Chebyshev UCL	11.37	
1797					97.5% KM Chebyshev UCL	12.49				99% KM Chebyshev UCL	14.67	
1798												
1799	**Gamma GOF Tests on Detected Observations Only**											
1800					A-D Test Statistic	2.143	**Anderson-Darling GOF Test**					
1801					5% A-D Critical Value	0.765	Detected Data Not Gamma Distributed at 5% Significance Level					
1802					K-S Test Statistic	0.118	**Kolmogorov-Smirnov GOF**					

	A	B	C	D	E	F	G	H	I	J	K	L
1803					5% K-S Critical Value	0.0738	Detected Data Not Gamma Distributed at 5% Significance Level					
1804	**Detected Data Not Gamma Distributed at 5% Significance Level**											
1805												
1806	**Gamma Statistics on Detected Data Only**											
1807					k hat (MLE)	2.216				k star (bias corrected MLE)		2.179
1808					Theta hat (MLE)	4.012				Theta star (bias corrected MLE)		4.079
1809					nu hat (MLE)	726.8				nu star (bias corrected)		714.8
1810					Mean (detects)	8.89						
1811												
1812	**Gamma ROS Statistics using Imputed Non-Detects**											
1813	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
1814	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)											
1815	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
1816	This is especially true when the sample size is small.											
1817	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
1818					Minimum	0.01				Mean		8.783
1819					Maximum	66.6				Median		7.1
1820					SD	7.623				CV		0.868
1821					k hat (MLE)	1.766				k star (bias corrected MLE)		1.738
1822					Theta hat (MLE)	4.974				Theta star (bias corrected MLE)		5.054
1823					nu hat (MLE)	586.3				nu star (bias corrected)		577
1824					Adjusted Level of Significance (β)	0.0486						
1825					Approximate Chi Square Value (577.05, α)	522.3				Adjusted Chi Square Value (577.05, β)		521.9
1826					95% Gamma Approximate UCL (use when n>=50)	9.704				95% Gamma Adjusted UCL (use when n<50)		9.712
1827												
1828	**Estimates of Gamma Parameters using KM Estimates**											
1829					Mean (KM)	8.8				SD (KM)		7.583
1830					Variance (KM)	57.51				SE of Mean (KM)		0.59
1831					k hat (KM)	1.347				k star (KM)		1.326
1832					nu hat (KM)	447.1				nu star (KM)		440.3
1833					theta hat (KM)	6.535				theta star (KM)		6.635
1834					80% gamma percentile (KM)	13.79				90% gamma percentile (KM)		18.9
1835					95% gamma percentile (KM)	23.9				99% gamma percentile (KM)		35.27
1836												
1837	**Gamma Kaplan-Meier (KM) Statistics**											
1838					Approximate Chi Square Value (440.31, α)	392.7				Adjusted Chi Square Value (440.31, β)		392.3
1839					95% Gamma Approximate KM-UCL (use when n>=50)	9.868				95% Gamma Adjusted KM-UCL (use when n<50)		9.877
1840												
1841	**Lognormal GOF Test on Detected Observations Only**											
1842					Shapiro Wilk Approximate Test Statistic	0.99	**Shapiro Wilk GOF Test**					
1843					5% Shapiro Wilk P Value	0.948	Detected Data appear Lognormal at 5% Significance Level					
1844					Lilliefors Test Statistic	0.0676	**Lilliefors GOF Test**					
1845					5% Lilliefors Critical Value	0.0696	Detected Data appear Lognormal at 5% Significance Level					
1846	**Detected Data appear Lognormal at 5% Significance Level**											
1847												
1848	**Lognormal ROS Statistics Using Imputed Non-Detects**											
1849					Mean in Original Scale	8.802				Mean in Log Scale		1.924
1850					SD in Original Scale	7.604				SD in Log Scale		0.699
1851					95% t UCL (assumes normality of ROS data)	9.778				95% Percentile Bootstrap UCL		9.813
1852					95% BCA Bootstrap UCL	9.944				95% Bootstrap t UCL		10
1853					95% H-UCL (Log ROS)	9.712						
1854												
1855	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											

1856	KM Mean (logged)				1.922	KM Geo Mean						6.834
1857	KM SD (logged)				0.702	95% Critical H Value (KM-Log)						1.933
1858	KM Standard Error of Mean (logged)				0.0547	95% H-UCL (KM -Log)						9.722
1859	KM SD (logged)				0.702	95% Critical H Value (KM-Log)						1.933
1860	KM Standard Error of Mean (logged)				0.0547							
1861												
1862	**DL/2 Statistics**											
1863	**DL/2 Normal**					**DL/2 Log-Transformed**						
1864	Mean in Original Scale				8.794	Mean in Log Scale						1.916
1865	SD in Original Scale				7.612	SD in Log Scale						0.72
1866	95% t UCL (Assumes normality)				9.771	95% H-Stat UCL						9.824
1867	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
1868												
1869	**Nonparametric Distribution Free UCL Statistics**											
1870	**Detected Data appear Lognormal Distributed at 5% Significance Level**											
1871												
1872	**Suggested UCL to Use**											
1873	KM H-UCL				9.722							
1874												
1875	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1876	Recommendations are based upon data size, data distribution, and skewness.											
1877	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1878	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
1879												
1880	**Silver**											
1881												
1882	**General Statistics**											
1883	Total Number of Observations				166	Number of Distinct Observations						48
1884						Number of Missing Observations						471
1885	Number of Detects				12	Number of Non-Detects						154
1886	Number of Distinct Detects				10	Number of Distinct Non-Detects						38
1887	Minimum Detect				0.0902	Minimum Non-Detect						0.0832
1888	Maximum Detect				0.21	Maximum Non-Detect						1.54
1889	Variance Detects				0.00123	Percent Non-Detects						92.77%
1890	Mean Detects				0.136	SD Detects						0.0351
1891	Median Detects				0.124	CV Detects						0.259
1892	Skewness Detects				0.948	Kurtosis Detects						0.282
1893	Mean of Logged Detects				-2.027	SD of Logged Detects						0.246
1894												
1895	**Normal GOF Test on Detects Only**											
1896	Shapiro Wilk Test Statistic				0.915	**Shapiro Wilk GOF Test**						
1897	5% Shapiro Wilk Critical Value				0.859	Detected Data appear Normal at 5% Significance Level						
1898	Lilliefors Test Statistic				0.229	**Lilliefors GOF Test**						
1899	5% Lilliefors Critical Value				0.243	Detected Data appear Normal at 5% Significance Level						
1900	**Detected Data appear Normal at 5% Significance Level**											
1901												
1902	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
1903	KM Mean				0.0991	KM Standard Error of Mean						0.00499
1904	KM SD				0.0302	95% KM (BCA) UCL						0.109
1905	95% KM (t) UCL				0.107	95% KM (Percentile Bootstrap) UCL						0.108
1906	95% KM (z) UCL				0.107	95% KM Bootstrap t UCL						0.109
1907	90% KM Chebyshev UCL				0.114	95% KM Chebyshev UCL						0.121
1908	97.5% KM Chebyshev UCL				0.13	99% KM Chebyshev UCL						0.149

1909												
1910	**Gamma GOF Tests on Detected Observations Only**											
1911					A-D Test Statistic	0.387	**Anderson-Darling GOF Test**					
1912					5% A-D Critical Value	0.731	Detected data appear Gamma Distributed at 5% Significance Level					
1913					K-S Test Statistic	0.204	**Kolmogorov-Smirnov GOF**					
1914					5% K-S Critical Value	0.245	Detected data appear Gamma Distributed at 5% Significance Level					
1915	**Detected data appear Gamma Distributed at 5% Significance Level**											
1916												
1917	**Gamma Statistics on Detected Data Only**											
1918					k hat (MLE)	17.61	k star (bias corrected MLE)	13.26				
1919					Theta hat (MLE)	0.00769	Theta star (bias corrected MLE)	0.0102				
1920					nu hat (MLE)	422.7	nu star (bias corrected)	318.3				
1921					Mean (detects)	0.136						
1922												
1923	**Gamma ROS Statistics using Imputed Non-Detects**											
1924	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
1925	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)											
1926	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
1927	This is especially true when the sample size is small.											
1928	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
1929					Minimum	0.01	Mean	0.0631				
1930					Maximum	0.221	Median	0.0547				
1931					SD	0.048	CV	0.761				
1932					k hat (MLE)	1.57	k star (bias corrected MLE)	1.546				
1933					Theta hat (MLE)	0.0402	Theta star (bias corrected MLE)	0.0408				
1934					nu hat (MLE)	521.3	nu star (bias corrected)	513.2				
1935					Adjusted Level of Significance (β)	0.0486						
1936					Approximate Chi Square Value (513.19, α)	461.7	Adjusted Chi Square Value (513.19, β)	461.2				
1937					95% Gamma Approximate UCL (use when n>=50)	0.0702	95% Gamma Adjusted UCL (use when n<50)	0.0702				
1938												
1939	**Estimates of Gamma Parameters using KM Estimates**											
1940					Mean (KM)	0.0991	SD (KM)	0.0302				
1941					Variance (KM)	9.0995E-4	SE of Mean (KM)	0.00499				
1942					k hat (KM)	10.79	k star (KM)	10.6				
1943					nu hat (KM)	3583	nu star (KM)	3520				
1944					theta hat (KM)	0.00918	theta star (KM)	0.00935				
1945					80% gamma percentile (KM)	0.123	90% gamma percentile (KM)	0.14				
1946					95% gamma percentile (KM)	0.154	99% gamma percentile (KM)	0.183				
1947												
1948	**Gamma Kaplan-Meier (KM) Statistics**											
1949					Approximate Chi Square Value (N/A, α)	3383	Adjusted Chi Square Value (N/A, β)	3382				
1950					95% Gamma Approximate KM-UCL (use when n>=50)	0.103	95% Gamma Adjusted KM-UCL (use when n<50)	0.103				
1951												
1952	**Lognormal GOF Test on Detected Observations Only**											
1953					Shapiro Wilk Test Statistic	0.956	**Shapiro Wilk GOF Test**					
1954					5% Shapiro Wilk Critical Value	0.859	Detected Data appear Lognormal at 5% Significance Level					
1955					Lilliefors Test Statistic	0.188	**Lilliefors GOF Test**					
1956					5% Lilliefors Critical Value	0.243	Detected Data appear Lognormal at 5% Significance Level					
1957	**Detected Data appear Lognormal at 5% Significance Level**											
1958												
1959	**Lognormal ROS Statistics Using Imputed Non-Detects**											
1960					Mean in Original Scale	0.0794	Mean in Log Scale	-2.629				
1961					SD in Original Scale	0.0371	SD in Log Scale	0.434				

1962				95% t UCL (assumes normality of ROS data)		0.0842				95% Percentile Bootstrap UCL		0.0841
1963				95% BCA Bootstrap UCL		0.0842				95% Bootstrap t UCL		0.0847
1964				95% H-UCL (Log ROS)		0.0842						
1965												
1966	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
1967				KM Mean (logged)		-2.346				KM Geo Mean		0.0957
1968				KM SD (logged)		0.246				95% Critical H Value (KM-Log)		1.702
1969				KM Standard Error of Mean (logged)		0.0408				95% H-UCL (KM -Log)		0.102
1970				KM SD (logged)		0.246				95% Critical H Value (KM-Log)		1.702
1971				KM Standard Error of Mean (logged)		0.0408						
1972												
1973	**DL/2 Statistics**											
1974	**DL/2 Normal**						**DL/2 Log-Transformed**					
1975				Mean in Original Scale		0.401				Mean in Log Scale		-1.191
1976				SD in Original Scale		0.195				SD in Log Scale		0.935
1977				95% t UCL (Assumes normality)		0.426				95% H-Stat UCL		0.548
1978	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
1979												
1980	**Nonparametric Distribution Free UCL Statistics**											
1981	**Detected Data appear Normal Distributed at 5% Significance Level**											
1982												
1983	**Suggested UCL to Use**											
1984				95% KM (t) UCL		0.107						
1985												
1986	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1987	Recommendations are based upon data size, data distribution, and skewness.											
1988	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1989	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
1990												
1991	**tert-Butyl alcohol (TBA)**											
1992												
1993	**General Statistics**											
1994				Total Number of Observations		145				Number of Distinct Observations		27
1995										Number of Missing Observations		48
1996				Number of Detects		19				Number of Non-Detects		126
1997				Number of Distinct Detects		15				Number of Distinct Non-Detects		14
1998				Minimum Detect		0.0054				Minimum Non-Detect		0.015
1999				Maximum Detect		0.028				Maximum Non-Detect		0.031
2000				Variance Detects		2.8441E-5				Percent Non-Detects		86.9%
2001				Mean Detects		0.0111				SD Detects		0.00533
2002				Median Detects		0.01				CV Detects		0.482
2003				Skewness Detects		1.904				Kurtosis Detects		4.738
2004				Mean of Logged Detects		-4.591				SD of Logged Detects		0.411
2005												
2006	**Normal GOF Test on Detects Only**											
2007				Shapiro Wilk Test Statistic		0.813	**Shapiro Wilk GOF Test**					
2008				5% Shapiro Wilk Critical Value		0.901	Detected Data Not Normal at 5% Significance Level					
2009				Lilliefors Test Statistic		0.211	**Lilliefors GOF Test**					
2010				5% Lilliefors Critical Value		0.197	Detected Data Not Normal at 5% Significance Level					
2011	**Detected Data Not Normal at 5% Significance Level**											
2012												
2013	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
2014				KM Mean		0.00973				KM Standard Error of Mean		7.0535E-4

	A	B	C	D	E	F	G	H	I	J	K	L
2015					KM SD	0.00339				95% KM (BCA) UCL		0.0109
2016					95% KM (t) UCL	0.0109				95% KM (Percentile Bootstrap) UCL		0.0109
2017					95% KM (z) UCL	0.0109				95% KM Bootstrap t UCL		0.0111
2018					90% KM Chebyshev UCL	0.0118				95% KM Chebyshev UCL		0.0128
2019					97.5% KM Chebyshev UCL	0.0141				99% KM Chebyshev UCL		0.0167
2020												
2021					**Gamma GOF Tests on Detected Observations Only**							
2022					A-D Test Statistic	0.608	**Anderson-Darling GOF Test**					
2023					5% A-D Critical Value	0.742	Detected data appear Gamma Distributed at 5% Significance Level					
2024					K-S Test Statistic	0.173	**Kolmogorov-Smirnov GOF**					
2025					5% K-S Critical Value	0.199	Detected data appear Gamma Distributed at 5% Significance Level					
2026					**Detected data appear Gamma Distributed at 5% Significance Level**							
2027												
2028					**Gamma Statistics on Detected Data Only**							
2029					k hat (MLE)	5.886	k star (bias corrected MLE)					4.991
2030					Theta hat (MLE)	0.00188	Theta star (bias corrected MLE)					0.00222
2031					nu hat (MLE)	223.7	nu star (bias corrected)					189.7
2032					Mean (detects)	0.0111						
2033												
2034					**Gamma ROS Statistics using Imputed Non-Detects**							
2035					GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs							
2036					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)							
2037					For such situations, GROS method may yield incorrect values of UCLs and BTVs							
2038					This is especially true when the sample size is small.							
2039					For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates							
2040					Minimum	0.0054	Mean					0.011
2041					Maximum	0.028	Median					0.01
2042					SD	0.00248	CV					0.225
2043					k hat (MLE)	24.47	k star (bias corrected MLE)					23.96
2044					Theta hat (MLE)	4.4995E-4	Theta star (bias corrected MLE)					4.5937E-4
2045					nu hat (MLE)	7095	nu star (bias corrected)					6950
2046					Adjusted Level of Significance (β)	0.0483						
2047					Approximate Chi Square Value (N/A, α)	6757	Adjusted Chi Square Value (N/A, β)					6755
2048					95% Gamma Approximate UCL (use when n>=50)	0.0113	95% Gamma Adjusted UCL (use when n<50)					0.0113
2049												
2050					**Estimates of Gamma Parameters using KM Estimates**							
2051					Mean (KM)	0.00973	SD (KM)					0.00339
2052					Variance (KM)	1.1486E-5	SE of Mean (KM)					7.0535E-4
2053					k hat (KM)	8.236	k star (KM)					8.07
2054					nu hat (KM)	2389	nu star (KM)					2340
2055					theta hat (KM)	0.00118	theta star (KM)					0.00121
2056					80% gamma percentile (KM)	0.0124	90% gamma percentile (KM)					0.0143
2057					95% gamma percentile (KM)	0.016	99% gamma percentile (KM)					0.0194
2058												
2059					**Gamma Kaplan-Meier (KM) Statistics**							
2060					Approximate Chi Square Value (N/A, α)	2229	Adjusted Chi Square Value (N/A, β)					2228
2061					95% Gamma Approximate KM-UCL (use when n>=50)	0.0102	95% Gamma Adjusted KM-UCL (use when n<50)					0.0102
2062												
2063					**Lognormal GOF Test on Detected Observations Only**							
2064					Shapiro Wilk Test Statistic	0.942	**Shapiro Wilk GOF Test**					
2065					5% Shapiro Wilk Critical Value	0.901	Detected Data appear Lognormal at 5% Significance Level					
2066					Lilliefors Test Statistic	0.149	**Lilliefors GOF Test**					
2067					5% Lilliefors Critical Value	0.197	Detected Data appear Lognormal at 5% Significance Level					

	A	B	C	D	E	F	G	H	I	J	K	L
2068	**Detected Data appear Lognormal at 5% Significance Level**											
2069												
2070	**Lognormal ROS Statistics Using Imputed Non-Detects**											
2071	Mean in Original Scale					0.00964	Mean in Log Scale					-4.689
2072	SD in Original Scale					0.00316	SD in Log Scale					0.302
2073	95% t UCL (assumes normality of ROS data)					0.0101	95% Percentile Bootstrap UCL					0.0101
2074	95% BCA Bootstrap UCL					0.0101	95% Bootstrap t UCL					0.0101
2075	95% H-UCL (Log ROS)					0.0101						
2076												
2077	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
2078	KM Mean (logged)					-4.686	KM Geo Mean					0.00923
2079	KM SD (logged)					0.317	95% Critical H Value (KM-Log)					1.738
2080	KM Standard Error of Mean (logged)					0.0715	95% H-UCL (KM -Log)					0.0102
2081	KM SD (logged)					0.317	95% Critical H Value (KM-Log)					1.738
2082	KM Standard Error of Mean (logged)					0.0715						
2083												
2084	**DL/2 Statistics**											
2085	**DL/2 Normal**						**DL/2 Log-Transformed**					
2086	Mean in Original Scale					0.0095	Mean in Log Scale					-4.679
2087	SD in Original Scale					0.00236	SD in Log Scale					0.195
2088	95% t UCL (Assumes normality)					0.00982	95% H-Stat UCL					0.00973
2089	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
2090												
2091	**Nonparametric Distribution Free UCL Statistics**											
2092	**Detected Data appear Gamma Distributed at 5% Significance Level**											
2093												
2094	**Suggested UCL to Use**											
2095	95% KM Approximate Gamma UCL					0.0102	95% GROS Approximate Gamma UCL					0.0113
2096												
2097	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
2098	Recommendations are based upon data size, data distribution, and skewness.											
2099	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
2100	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
2101												
2102	**Thallium**											
2103												
2104	**General Statistics**											
2105	Total Number of Observations					167	Number of Distinct Observations					87
2106							Number of Missing Observations					470
2107	Number of Detects					66	Number of Non-Detects					101
2108	Number of Distinct Detects					62	Number of Distinct Non-Detects					26
2109	Minimum Detect					0.18	Minimum Non-Detect					0.15
2110	Maximum Detect					14.9	Maximum Non-Detect					10.3
2111	Variance Detects					10.54	Percent Non-Detects					60.48%
2112	Mean Detects					3.723	SD Detects					3.246
2113	Median Detects					3.3	CV Detects					0.872
2114	Skewness Detects					0.796	Kurtosis Detects					0.423
2115	Mean of Logged Detects					0.714	SD of Logged Detects					1.282
2116												
2117	**Normal GOF Test on Detects Only**											
2118	Shapiro Wilk Test Statistic					0.884	**Normal GOF Test on Detected Observations Only**					
2119	5% Shapiro Wilk P Value					1.1361E-6	Detected Data Not Normal at 5% Significance Level					
2120	Lilliefors Test Statistic					0.166	**Lilliefors GOF Test**					

2121	5% Lilliefors Critical Value					0.109	Detected Data Not Normal at 5% Significance Level					
2122	**Detected Data Not Normal at 5% Significance Level**											
2123												
2124	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
2125	KM Mean					1.684	KM Standard Error of Mean					0.211
2126	KM SD					2.659	95% KM (BCA) UCL					2.007
2127	95% KM (t) UCL					2.033	95% KM (Percentile Bootstrap) UCL					2.035
2128	95% KM (z) UCL					2.031	95% KM Bootstrap t UCL					2.078
2129	90% KM Chebyshev UCL					2.317	95% KM Chebyshev UCL					2.603
2130	97.5% KM Chebyshev UCL					3.001	99% KM Chebyshev UCL					3.782
2131												
2132	**Gamma GOF Tests on Detected Observations Only**											
2133	A-D Test Statistic					2.07	**Anderson-Darling GOF Test**					
2134	5% A-D Critical Value					0.782	Detected Data Not Gamma Distributed at 5% Significance Level					
2135	K-S Test Statistic					0.152	**Kolmogorov-Smirnov GOF**					
2136	5% K-S Critical Value					0.113	Detected Data Not Gamma Distributed at 5% Significance Level					
2137	**Detected Data Not Gamma Distributed at 5% Significance Level**											
2138												
2139	**Gamma Statistics on Detected Data Only**											
2140	k hat (MLE)					0.966	k star (bias corrected MLE)					0.932
2141	Theta hat (MLE)					3.856	Theta star (bias corrected MLE)					3.996
2142	nu hat (MLE)					127.5	nu star (bias corrected)					123
2143	Mean (detects)					3.723						
2144												
2145	**Gamma ROS Statistics using Imputed Non-Detects**											
2146	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
2147	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)											
2148	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
2149	This is especially true when the sample size is small.											
2150	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
2151	Minimum					0.01	Mean					1.66
2152	Maximum					14.9	Median					0.44
2153	SD					2.661	CV					1.603
2154	k hat (MLE)					0.326	k star (bias corrected MLE)					0.324
2155	Theta hat (MLE)					5.097	Theta star (bias corrected MLE)					5.126
2156	nu hat (MLE)					108.8	nu star (bias corrected)					108.2
2157	Adjusted Level of Significance (β)					0.0486						
2158	Approximate Chi Square Value (108.19, α)					85.18	Adjusted Chi Square Value (108.19, β)					85
2159	95% Gamma Approximate UCL (use when n>=50)					2.109	95% Gamma Adjusted UCL (use when n<50)					2.113
2160												
2161	**Estimates of Gamma Parameters using KM Estimates**											
2162	Mean (KM)					1.684	SD (KM)					2.659
2163	Variance (KM)					7.069	SE of Mean (KM)					0.211
2164	k hat (KM)					0.401	k star (KM)					0.398
2165	nu hat (KM)					134	nu star (KM)					133
2166	theta hat (KM)					4.197	theta star (KM)					4.231
2167	80% gamma percentile (KM)					2.717	90% gamma percentile (KM)					4.761
2168	95% gamma percentile (KM)					7.01	99% gamma percentile (KM)					12.67
2169												
2170	**Gamma Kaplan-Meier (KM) Statistics**											
2171	Approximate Chi Square Value (132.95, α)					107.3	Adjusted Chi Square Value (132.95, β)					107.1
2172	95% Gamma Approximate KM-UCL (use when n>=50)					2.087	95% Gamma Adjusted KM-UCL (use when n<50)					2.091
2173												

2174	**Lognormal GOF Test on Detected Observations Only**											
2175					Shapiro Wilk Approximate Test Statistic	0.877	**Shapiro Wilk GOF Test**					
2176					5% Shapiro Wilk P Value	3.5431E-7	Detected Data Not Lognormal at 5% Significance Level					
2177					Lilliefors Test Statistic	0.164	**Lilliefors GOF Test**					
2178					5% Lilliefors Critical Value	0.109	Detected Data Not Lognormal at 5% Significance Level					
2179	**Detected Data Not Lognormal at 5% Significance Level**											
2180												
2181	**Lognormal ROS Statistics Using Imputed Non-Detects**											
2182					Mean in Original Scale	1.664	Mean in Log Scale	-0.665				
2183					SD in Original Scale	2.639	SD in Log Scale	1.573				
2184					95% t UCL (assumes normality of ROS data)	2.001	95% Percentile Bootstrap UCL	2.027				
2185					95% BCA Bootstrap UCL	2.022	95% Bootstrap t UCL	2.038				
2186					95% H-UCL (Log ROS)	2.471						
2187												
2188	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
2189					KM Mean (logged)	-0.558	KM Geo Mean	0.573				
2190					KM SD (logged)	1.402	95% Critical H Value (KM-Log)	2.54				
2191					KM Standard Error of Mean (logged)	0.124	95% H-UCL (KM -Log)	2.017				
2192					KM SD (logged)	1.402	95% Critical H Value (KM-Log)	2.54				
2193					KM Standard Error of Mean (logged)	0.124						
2194												
2195	**DL/2 Statistics**											
2196					**DL/2 Normal**		**DL/2 Log-Transformed**					
2197					Mean in Original Scale	1.864	Mean in Log Scale	-0.26				
2198					SD in Original Scale	2.651	SD in Log Scale	1.32				
2199					95% t UCL (Assumes normality)	2.204	95% H-Stat UCL	2.371				
2200	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
2201												
2202	**Nonparametric Distribution Free UCL Statistics**											
2203	**Data do not follow a Discernible Distribution at 5% Significance Level**											
2204												
2205	**Suggested UCL to Use**											
2206					95% KM (Chebyshev) UCL	2.603						
2207												
2208	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
2209	Recommendations are based upon data size, data distribution, and skewness.											
2210	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
2211	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
2212												
2213	**TPH Diesel C13-C22**											
2214												
2215	**General Statistics**											
2216					Total Number of Observations	307	Number of Distinct Observations	95				
2217							Number of Missing Observations	330				
2218					Number of Detects	133	Number of Non-Detects	174				
2219					Number of Distinct Detects	86	Number of Distinct Non-Detects	19				
2220					Minimum Detect	3.42	Minimum Non-Detect	3.5				
2221					Maximum Detect	790	Maximum Non-Detect	120				
2222					Variance Detects	11988	Percent Non-Detects	56.68%				
2223					Mean Detects	45.52	SD Detects	109.5				
2224					Median Detects	9.7	CV Detects	2.405				
2225					Skewness Detects	4.554	Kurtosis Detects	23.03				
2226					Mean of Logged Detects	2.723	SD of Logged Detects	1.248				

2227												
2228	**Normal GOF Test on Detects Only**											
2229				Shapiro Wilk Test Statistic		0.419	**Normal GOF Test on Detected Observations Only**					
2230				5% Shapiro Wilk P Value		0	Detected Data Not Normal at 5% Significance Level					
2231				Lilliefors Test Statistic		0.35	**Lilliefors GOF Test**					
2232				5% Lilliefors Critical Value		0.0772	Detected Data Not Normal at 5% Significance Level					
2233	**Detected Data Not Normal at 5% Significance Level**											
2234												
2235	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
2236				KM Mean		22.14	KM Standard Error of Mean					4.281
2237				KM SD		74.69	95% KM (BCA) UCL					29.62
2238				95% KM (t) UCL		29.21	95% KM (Percentile Bootstrap) UCL					29.24
2239				95% KM (z) UCL		29.18	95% KM Bootstrap t UCL					32.06
2240				90% KM Chebyshev UCL		34.99	95% KM Chebyshev UCL					40.8
2241				97.5% KM Chebyshev UCL		48.88	99% KM Chebyshev UCL					64.74
2242												
2243	**Gamma GOF Tests on Detected Observations Only**											
2244				A-D Test Statistic		13.66	**Anderson-Darling GOF Test**					
2245				5% A-D Critical Value		0.813	Detected Data Not Gamma Distributed at 5% Significance Level					
2246				K-S Test Statistic		0.285	**Kolmogorov-Smirnov GOF**					
2247				5% K-S Critical Value		0.0852	Detected Data Not Gamma Distributed at 5% Significance Level					
2248	**Detected Data Not Gamma Distributed at 5% Significance Level**											
2249												
2250	**Gamma Statistics on Detected Data Only**											
2251				k hat (MLE)		0.569	k star (bias corrected MLE)					0.561
2252				Theta hat (MLE)		80.07	Theta star (bias corrected MLE)					81.19
2253				nu hat (MLE)		151.2	nu star (bias corrected)					149.2
2254				Mean (detects)		45.52						
2255												
2256	**Gamma ROS Statistics using Imputed Non-Detects**											
2257	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
2258	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)											
2259	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
2260	This is especially true when the sample size is small.											
2261	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
2262				Minimum		0.01	Mean					19.82
2263				Maximum		790	Median					0.01
2264				SD		75.36	CV					3.803
2265				k hat (MLE)		0.173	k star (bias corrected MLE)					0.173
2266				Theta hat (MLE)		114.7	Theta star (bias corrected MLE)					114.3
2267				nu hat (MLE)		106.1	nu star (bias corrected)					106.4
2268				Adjusted Level of Significance (β)		0.0492						
2269				Approximate Chi Square Value (106.41, α)		83.61	Adjusted Chi Square Value (106.41, β)					83.51
2270				95% Gamma Approximate UCL (use when n>=50)		25.22	95% Gamma Adjusted UCL (use when n<50)					25.25
2271												
2272	**Estimates of Gamma Parameters using KM Estimates**											
2273				Mean (KM)		22.14	SD (KM)					74.69
2274				Variance (KM)		5578	SE of Mean (KM)					4.281
2275				k hat (KM)		0.0879	k star (KM)					0.0892
2276				nu hat (KM)		53.97	nu star (KM)					54.77
2277				theta hat (KM)		251.9	theta star (KM)					248.2
2278				80% gamma percentile (KM)		12.85	90% gamma percentile (KM)					55.88
2279				95% gamma percentile (KM)		129	99% gamma percentile (KM)					372.2

2280												
2281	**Gamma Kaplan-Meier (KM) Statistics**											
2282					Approximate Chi Square Value (54.77, α)		38.77		Adjusted Chi Square Value (54.77, β)			38.7
2283					95% Gamma Approximate KM-UCL (use when n>=50)		31.29		95% Gamma Adjusted KM-UCL (use when n<50)			31.34
2284												
2285	**Lognormal GOF Test on Detected Observations Only**											
2286					Shapiro Wilk Approximate Test Statistic		0.847		**Shapiro Wilk GOF Test**			
2287					5% Shapiro Wilk P Value		0		Detected Data Not Lognormal at 5% Significance Level			
2288					Lilliefors Test Statistic		0.222		**Lilliefors GOF Test**			
2289					5% Lilliefors Critical Value		0.0772		Detected Data Not Lognormal at 5% Significance Level			
2290	**Detected Data Not Lognormal at 5% Significance Level**											
2291												
2292	**Lognormal ROS Statistics Using Imputed Non-Detects**											
2293					Mean in Original Scale		20.92		Mean in Log Scale			1.323
2294					SD in Original Scale		75.09		SD in Log Scale			1.683
2295					95% t UCL (assumes normality of ROS data)		27.99		95% Percentile Bootstrap UCL			28.12
2296					95% BCA Bootstrap UCL		30.03		95% Bootstrap t UCL			31.99
2297					95% H-UCL (Log ROS)		20.16					
2298												
2299	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
2300					KM Mean (logged)		1.973		KM Geo Mean			7.191
2301					KM SD (logged)		1.064		95% Critical H Value (KM-Log)			2.17
2302					KM Standard Error of Mean (logged)		0.0627		95% H-UCL (KM -Log)			14.45
2303					KM SD (logged)		1.064		95% Critical H Value (KM-Log)			2.17
2304					KM Standard Error of Mean (logged)		0.0627					
2305												
2306	**DL/2 Statistics**											
2307	**DL/2 Normal**								**DL/2 Log-Transformed**			
2308					Mean in Original Scale		22.32		Mean in Log Scale			1.816
2309					SD in Original Scale		75.03		SD in Log Scale			1.229
2310					95% t UCL (Assumes normality)		29.38		95% H-Stat UCL			15.39
2311	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
2312												
2313	**Nonparametric Distribution Free UCL Statistics**											
2314	**Data do not follow a Discernible Distribution at 5% Significance Level**											
2315												
2316	**Suggested UCL to Use**											
2317					95% KM (Chebyshev) UCL		40.8					
2318												
2319	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
2320	Recommendations are based upon data size, data distribution, and skewness.											
2321	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
2322	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
2323												
2324	**TPH Motor Oil C23-C32**											
2325												
2326	**General Statistics**											
2327					Total Number of Observations		284		Number of Distinct Observations			104
2328									Number of Missing Observations			353
2329					Number of Detects		161		Number of Non-Detects			123
2330					Number of Distinct Detects		100		Number of Distinct Non-Detects			11
2331					Minimum Detect		3.8		Minimum Non-Detect			3.5
2332					Maximum Detect		3200		Maximum Non-Detect			120

2333					Variance Detects	203625					Percent Non-Detects	43.31%
2334					Mean Detects	136.3					SD Detects	451.2
2335					Median Detects	14					CV Detects	3.311
2336					Skewness Detects	5.072					Kurtosis Detects	27.41
2337					Mean of Logged Detects	3.083					SD of Logged Detects	1.562
2338												
2339					**Normal GOF Test on Detects Only**							
2340					Shapiro Wilk Test Statistic	0.328	**Normal GOF Test on Detected Observations Only**					
2341					5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level					
2342					Lilliefors Test Statistic	0.402	**Lilliefors GOF Test**					
2343					5% Lilliefors Critical Value	0.0702	Detected Data Not Normal at 5% Significance Level					
2344					**Detected Data Not Normal at 5% Significance Level**							
2345												
2346					**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**							
2347					KM Mean	79.54	KM Standard Error of Mean	20.53				
2348					KM SD	344.9	95% KM (BCA) UCL	114.6				
2349					95% KM (t) UCL	113.4	95% KM (Percentile Bootstrap) UCL	115.9				
2350					95% KM (z) UCL	113.3	95% KM Bootstrap t UCL	131.5				
2351					90% KM Chebyshev UCL	141.1	95% KM Chebyshev UCL	169				
2352					97.5% KM Chebyshev UCL	207.7	99% KM Chebyshev UCL	283.8				
2353												
2354					**Gamma GOF Tests on Detected Observations Only**							
2355					A-D Test Statistic	20.21	**Anderson-Darling GOF Test**					
2356					5% A-D Critical Value	0.853	Detected Data Not Gamma Distributed at 5% Significance Level					
2357					K-S Test Statistic	0.255	**Kolmogorov-Smirnov GOF**					
2358					5% K-S Critical Value	0.0794	Detected Data Not Gamma Distributed at 5% Significance Level					
2359					**Detected Data Not Gamma Distributed at 5% Significance Level**							
2360												
2361					**Gamma Statistics on Detected Data Only**							
2362					k hat (MLE)	0.365	k star (bias corrected MLE)	0.362				
2363					Theta hat (MLE)	373.8	Theta star (bias corrected MLE)	376.6				
2364					nu hat (MLE)	117.4	nu star (bias corrected)	116.5				
2365					Mean (detects)	136.3						
2366												
2367					**Gamma ROS Statistics using Imputed Non-Detects**							
2368					GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs							
2369					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)							
2370					For such situations, GROS method may yield incorrect values of UCLs and BTVs							
2371					This is especially true when the sample size is small.							
2372					For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates							
2373					Minimum	0.01	Mean	77.92				
2374					Maximum	3200	Median	5.1				
2375					SD	345.9	CV	4.439				
2376					k hat (MLE)	0.167	k star (bias corrected MLE)	0.167				
2377					Theta hat (MLE)	467.4	Theta star (bias corrected MLE)	465.8				
2378					nu hat (MLE)	94.69	nu star (bias corrected)	95.02				
2379					Adjusted Level of Significance (β)	0.0492						
2380					Approximate Chi Square Value (95.02, α)	73.54	Adjusted Chi Square Value (95.02, β)	73.44				
2381					95% Gamma Approximate UCL (use when n>=50)	100.7	95% Gamma Adjusted UCL (use when n<50)	100.8				
2382												
2383					**Estimates of Gamma Parameters using KM Estimates**							
2384					Mean (KM)	79.54	SD (KM)	344.9				
2385					Variance (KM)	118942	SE of Mean (KM)	20.53				

	A	B	C	D	E	F	G	H	I	J	K	L
2386					k hat (KM)	0.0532					k star (KM)	0.055
2387					nu hat (KM)	30.21					nu star (KM)	31.23
2388					theta hat (KM)	1495					theta star (KM)	1447
2389					80% gamma percentile (KM)	14.8					90% gamma percentile (KM)	136.3
2390					95% gamma percentile (KM)	436.1					99% gamma percentile (KM)	1665
2391												
2392	**Gamma Kaplan-Meier (KM) Statistics**											
2393					Approximate Chi Square Value (31.23, α)	19.46					Adjusted Chi Square Value (31.23, β)	19.41
2394					95% Gamma Approximate KM-UCL (use when n>=50)	127.6					95% Gamma Adjusted KM-UCL (use when n<50)	127.9
2395												
2396	**Lognormal GOF Test on Detected Observations Only**											
2397					Shapiro Wilk Approximate Test Statistic	0.852	**Shapiro Wilk GOF Test**					
2398					5% Shapiro Wilk P Value	0	Detected Data Not Lognormal at 5% Significance Level					
2399					Lilliefors Test Statistic	0.139	**Lilliefors GOF Test**					
2400					5% Lilliefors Critical Value	0.0702	Detected Data Not Lognormal at 5% Significance Level					
2401	**Detected Data Not Lognormal at 5% Significance Level**											
2402												
2403	**Lognormal ROS Statistics Using Imputed Non-Detects**											
2404					Mean in Original Scale	78.76					Mean in Log Scale	2.004
2405					SD in Original Scale	345.7					SD in Log Scale	1.875
2406					95% t UCL (assumes normality of ROS data)	112.6					95% Percentile Bootstrap UCL	114.7
2407					95% BCA Bootstrap UCL	124.7					95% Bootstrap t UCL	130
2408					95% H-UCL (Log ROS)	60.06						
2409												
2410	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
2411					KM Mean (logged)	2.424					KM Geo Mean	11.29
2412					KM SD (logged)	1.413					95% Critical H Value (KM-Log)	2.508
2413					KM Standard Error of Mean (logged)	0.0854					95% H-UCL (KM -Log)	37.8
2414					KM SD (logged)	1.413					95% Critical H Value (KM-Log)	2.508
2415					KM Standard Error of Mean (logged)	0.0854						
2416												
2417	**DL/2 Statistics**											
2418	**DL/2 Normal**						**DL/2 Log-Transformed**					
2419					Mean in Original Scale	80.08					Mean in Log Scale	2.364
2420					SD in Original Scale	345.4					SD in Log Scale	1.53
2421					95% t UCL (Assumes normality)	113.9					95% H-Stat UCL	43.49
2422	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
2423												
2424	**Nonparametric Distribution Free UCL Statistics**											
2425	**Data do not follow a Discernible Distribution at 5% Significance Level**											
2426												
2427	**Suggested UCL to Use**											
2428					95% KM (Chebyshev) UCL	169						
2429												
2430	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
2431	Recommendations are based upon data size, data distribution, and skewness.											
2432	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
2433	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
2434												
2435												
2436	**Vanadium**											
2437												
2438	**General Statistics**											

2439	Total Number of Observations					166	Number of Distinct Observations					138
2440							Number of Missing Observations					471
2441	Minimum					6.08	Mean					30.51
2442	Maximum					146	Median					31.55
2443	SD					18.62	Std. Error of Mean					1.445
2444	Coefficient of Variation					0.61	Skewness					2.171
2445												
2446	**Normal GOF Test**											
2447	Shapiro Wilk Test Statistic					0.842	**Shapiro Wilk GOF Test**					
2448	5% Shapiro Wilk P Value					0	Data Not Normal at 5% Significance Level					
2449	Lilliefors Test Statistic					0.1	**Lilliefors GOF Test**					
2450	5% Lilliefors Critical Value					0.0692	Data Not Normal at 5% Significance Level					
2451	**Data Not Normal at 5% Significance Level**											
2452												
2453	**Assuming Normal Distribution**											
2454	**95% Normal UCL**						**95% UCLs (Adjusted for Skewness)**					
2455	95% Student's-t UCL					32.9	95% Adjusted-CLT UCL (Chen-1995)					33.15
2456							95% Modified-t UCL (Johnson-1978)					32.94
2457												
2458	**Gamma GOF Test**											
2459	A-D Test Statistic					3.209	**Anderson-Darling Gamma GOF Test**					
2460	5% A-D Critical Value					0.76	Data Not Gamma Distributed at 5% Significance Level					
2461	K-S Test Statistic					0.114	**Kolmogorov-Smirnov Gamma GOF Test**					
2462	5% K-S Critical Value					0.0729	Data Not Gamma Distributed at 5% Significance Level					
2463	**Data Not Gamma Distributed at 5% Significance Level**											
2464												
2465	**Gamma Statistics**											
2466	k hat (MLE)					3.009	k star (bias corrected MLE)					2.959
2467	Theta hat (MLE)					10.14	Theta star (bias corrected MLE)					10.31
2468	nu hat (MLE)					999	nu star (bias corrected)					982.2
2469	MLE Mean (bias corrected)					30.51	MLE Sd (bias corrected)					17.74
2470							Approximate Chi Square Value (0.05)					910.5
2471	Adjusted Level of Significance					0.0486	Adjusted Chi Square Value					909.9
2472												
2473	**Assuming Gamma Distribution**											
2474	95% Approximate Gamma UCL (use when n>=50))					32.91	95% Adjusted Gamma UCL (use when n<50)					32.93
2475												
2476	**Lognormal GOF Test**											
2477	Shapiro Wilk Test Statistic					0.934	**Shapiro Wilk Lognormal GOF Test**					
2478	5% Shapiro Wilk P Value					6.8723E-9	Data Not Lognormal at 5% Significance Level					
2479	Lilliefors Test Statistic					0.15	**Lilliefors Lognormal GOF Test**					
2480	5% Lilliefors Critical Value					0.0692	Data Not Lognormal at 5% Significance Level					
2481	**Data Not Lognormal at 5% Significance Level**											
2482												
2483	**Lognormal Statistics**											
2484	Minimum of Logged Data					1.805	Mean of logged Data					3.243
2485	Maximum of Logged Data					4.984	SD of logged Data					0.614
2486												
2487	**Assuming Lognormal Distribution**											
2488	95% H-UCL					33.81	90% Chebyshev (MVUE) UCL					35.66
2489	95% Chebyshev (MVUE) UCL					37.82	97.5% Chebyshev (MVUE) UCL					40.83
2490	99% Chebyshev (MVUE) UCL					46.74						
2491												

	A	B	C	D	E	F	G	H	I	J	K	L
2492	**Nonparametric Distribution Free UCL Statistics**											
2493	**Data do not follow a Discernible Distribution (0.05)**											
2494												
2495	**Nonparametric Distribution Free UCLs**											
2496	95% CLT UCL					32.89			95% Jackknife UCL			32.9
2497	95% Standard Bootstrap UCL					32.89			95% Bootstrap-t UCL			33.23
2498	95% Hall's Bootstrap UCL					33.53			95% Percentile Bootstrap UCL			32.85
2499	95% BCA Bootstrap UCL					33.22						
2500	90% Chebyshev(Mean, Sd) UCL					34.84			95% Chebyshev(Mean, Sd) UCL			36.81
2501	97.5% Chebyshev(Mean, Sd) UCL					39.53			99% Chebyshev(Mean, Sd) UCL			44.89
2502												
2503	**Suggested UCL to Use**											
2504	95% Chebyshev (Mean, Sd) UCL					36.81						
2505												
2506	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
2507	Recommendations are based upon data size, data distribution, and skewness.											
2508	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
2509	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
2510												
2511	**Zinc**											
2512												
2513	**General Statistics**											
2514	Total Number of Observations					166			Number of Distinct Observations			139
2515									Number of Missing Observations			471
2516	Number of Detects					165			Number of Non-Detects			1
2517	Number of Distinct Detects					138			Number of Distinct Non-Detects			1
2518	Minimum Detect					10.9			Minimum Non-Detect			5.21
2519	Maximum Detect					1190			Maximum Non-Detect			5.21
2520	Variance Detects					9512			Percent Non-Detects			0.602%
2521	Mean Detects					52.36			SD Detects			97.53
2522	Median Detects					38			CV Detects			1.863
2523	Skewness Detects					10.17			Kurtosis Detects			115.3
2524	Mean of Logged Detects					3.673			SD of Logged Detects			0.578
2525												
2526	**Normal GOF Test on Detects Only**											
2527	Shapiro Wilk Test Statistic					0.266			**Normal GOF Test on Detected Observations Only**			
2528	5% Shapiro Wilk P Value					0			Detected Data Not Normal at 5% Significance Level			
2529	Lilliefors Test Statistic					0.342			**Lilliefors GOF Test**			
2530	5% Lilliefors Critical Value					0.0694			Detected Data Not Normal at 5% Significance Level			
2531	**Detected Data Not Normal at 5% Significance Level**											
2532												
2533	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
2534	KM Mean					52.08			KM Standard Error of Mean			7.552
2535	KM SD					97.01			95% KM (BCA) UCL			65.88
2536	95% KM (t) UCL					64.57			95% KM (Percentile Bootstrap) UCL			65.85
2537	95% KM (z) UCL					64.5			95% KM Bootstrap t UCL			88.7
2538	90% KM Chebyshev UCL					74.74			95% KM Chebyshev UCL			85
2539	97.5% KM Chebyshev UCL					99.24			99% KM Chebyshev UCL			127.2
2540												
2541	**Gamma GOF Tests on Detected Observations Only**											
2542	A-D Test Statistic					6.061E+28			**Anderson-Darling GOF Test**			
2543	5% A-D Critical Value					0.767			Detected Data Not Gamma Distributed at 5% Significance Level			
2544	K-S Test Statistic					0.196			**Kolmogorov-Smirnov GOF**			

	A	B	C	D	E	F	G	H	I	J	K	L
2545					5% K-S Critical Value	0.0737	Detected Data Not Gamma Distributed at 5% Significance Level					
2546	**Detected Data Not Gamma Distributed at 5% Significance Level**											
2547												
2548	**Gamma Statistics on Detected Data Only**											
2549					k hat (MLE)	1.904				k star (bias corrected MLE)		1.873
2550					Theta hat (MLE)	27.51				Theta star (bias corrected MLE)		27.96
2551					nu hat (MLE)	628.2				nu star (bias corrected)		618.1
2552					Mean (detects)	52.36						
2553												
2554	**Gamma ROS Statistics using Imputed Non-Detects**											
2555	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
2556	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)											
2557	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
2558	This is especially true when the sample size is small.											
2559	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
2560					Minimum	0.01				Mean		52.05
2561					Maximum	1190				Median		37.95
2562					SD	97.32				CV		1.87
2563					k hat (MLE)	1.667				k star (bias corrected MLE)		1.641
2564					Theta hat (MLE)	31.22				Theta star (bias corrected MLE)		31.71
2565					nu hat (MLE)	553.6				nu star (bias corrected)		544.9
2566					Adjusted Level of Significance (β)	0.0486						
2567					Approximate Chi Square Value (544.90, α)	491.8				Adjusted Chi Square Value (544.90, β)		491.3
2568					95% Gamma Approximate UCL (use when n>=50)	57.67				95% Gamma Adjusted UCL (use when n<50)		57.72
2569												
2570	**Estimates of Gamma Parameters using KM Estimates**											
2571					Mean (KM)	52.08				SD (KM)		97.01
2572					Variance (KM)	9411				SE of Mean (KM)		7.552
2573					k hat (KM)	0.288				k star (KM)		0.287
2574					nu hat (KM)	95.69				nu star (KM)		95.29
2575					theta hat (KM)	180.7				theta star (KM)		181.5
2576					80% gamma percentile (KM)	78.96				90% gamma percentile (KM)		154.4
2577					95% gamma percentile (KM)	241.6				99% gamma percentile (KM)		469.6
2578												
2579	**Gamma Kaplan-Meier (KM) Statistics**											
2580					Approximate Chi Square Value (95.29, α)	73.78				Adjusted Chi Square Value (95.29, β)		73.61
2581					95% Gamma Approximate KM-UCL (use when n>=50)	67.27				95% Gamma Adjusted KM-UCL (use when n<50)		67.42
2582												
2583	**Lognormal GOF Test on Detected Observations Only**											
2584					Shapiro Wilk Approximate Test Statistic	0.898	**Shapiro Wilk GOF Test**					
2585					5% Shapiro Wilk P Value	0	Detected Data Not Lognormal at 5% Significance Level					
2586					Lilliefors Test Statistic	0.106	**Lilliefors GOF Test**					
2587					5% Lilliefors Critical Value	0.0694	Detected Data Not Lognormal at 5% Significance Level					
2588	**Detected Data Not Lognormal at 5% Significance Level**											
2589												
2590	**Lognormal ROS Statistics Using Imputed Non-Detects**											
2591					Mean in Original Scale	52.1				Mean in Log Scale		3.664
2592					SD in Original Scale	97.29				SD in Log Scale		0.589
2593					95% t UCL (assumes normality of ROS data)	64.59				95% Percentile Bootstrap UCL		66.08
2594					95% BCA Bootstrap UCL	73.67				95% Bootstrap t UCL		92.81
2595					95% H-UCL (Log ROS)	50.53						
2596												
2597	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											

2598					KM Mean (logged)	3.661					KM Geo Mean	38.9
2599					KM SD (logged)	0.596					95% Critical H Value (KM-Log)	1.865
2600					KM Standard Error of Mean (logged)	0.0464					95% H-UCL (KM -Log)	50.64
2601					KM SD (logged)	0.596					95% Critical H Value (KM-Log)	1.865
2602					KM Standard Error of Mean (logged)	0.0464						
2603												
2604	**DL/2 Statistics**											
2605	**DL/2 Normal**						**DL/2 Log-Transformed**					
2606					Mean in Original Scale	52.06					Mean in Log Scale	3.657
2607					SD in Original Scale	97.31					SD in Log Scale	0.614
2608					95% t UCL (Assumes normality)	64.56					95% H-Stat UCL	51.15
2609	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
2610												
2611	**Nonparametric Distribution Free UCL Statistics**											
2612	**Data do not follow a Discernible Distribution at 5% Significance Level**											
2613												
2614	**Suggested UCL to Use**											
2615					95% KM (Chebyshev) UCL	85						
2616												
2617	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
2618	Recommendations are based upon data size, data distribution, and skewness.											
2619	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
2620	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
2621												
2622	**Polychlorinated biphenyls (PCBs)**											
2623												
2624	**General Statistics**											
2625					Total Number of Observations	330					Number of Distinct Observations	109
2626											Number of Missing Observations	346
2627					Number of Detects	152					Number of Non-Detects	178
2628					Number of Distinct Detects	106					Number of Distinct Non-Detects	11
2629					Minimum Detect	0.0193					Minimum Non-Detect	0.01
2630					Maximum Detect	750					Maximum Non-Detect	0.2
2631					Variance Detects	3697					Percent Non-Detects	53.94%
2632					Mean Detects	5.364					SD Detects	60.81
2633					Median Detects	0.067					CV Detects	11.34
2634					Skewness Detects	12.32					Kurtosis Detects	151.9
2635					Mean of Logged Detects	-2.155					SD of Logged Detects	1.591
2636												
2637	**Normal GOF Test on Detects Only**											
2638					Shapiro Wilk Test Statistic	0.0873	**Normal GOF Test on Detected Observations Only**					
2639					5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level					
2640					Lilliefors Test Statistic	0.49	**Lilliefors GOF Test**					
2641					5% Lilliefors Critical Value	0.0723	Detected Data Not Normal at 5% Significance Level					
2642	**Detected Data Not Normal at 5% Significance Level**											
2643												
2644	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
2645					KM Mean	2.484					KM Standard Error of Mean	2.276
2646					KM SD	41.22					95% KM (BCA) UCL	7.058
2647					95% KM (t) UCL	6.239					95% KM (Percentile Bootstrap) UCL	7.029
2648					95% KM (z) UCL	6.229					95% KM Bootstrap t UCL	170
2649					90% KM Chebyshev UCL	9.313					95% KM Chebyshev UCL	12.41
2650					97.5% KM Chebyshev UCL	16.7					99% KM Chebyshev UCL	25.13

2651												
2652	**Gamma GOF Tests on Detected Observations Only**											
2653					A-D Test Statistic	36.29	**Anderson-Darling GOF Test**					
2654					5% A-D Critical Value	0.926	Detected Data Not Gamma Distributed at 5% Significance Level					
2655					K-S Test Statistic	0.362	**Kolmogorov-Smirnov GOF**					
2656					5% K-S Critical Value	0.0847	Detected Data Not Gamma Distributed at 5% Significance Level					
2657	**Detected Data Not Gamma Distributed at 5% Significance Level**											
2658												
2659	**Gamma Statistics on Detected Data Only**											
2660					k hat (MLE)	0.193			k star (bias corrected MLE)	0.194		
2661					Theta hat (MLE)	27.8			Theta star (bias corrected MLE)	27.71		
2662					nu hat (MLE)	58.66			nu star (bias corrected)	58.84		
2663					Mean (detects)	5.364						
2664												
2665	**Gamma ROS Statistics using Imputed Non-Detects**											
2666	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
2667	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)											
2668	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
2669	This is especially true when the sample size is small.											
2670	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
2671					Minimum	0.01			Mean	2.476		
2672					Maximum	750			Median	0.01		
2673					SD	41.28			CV	16.67		
2674					k hat (MLE)	0.172			k star (bias corrected MLE)	0.172		
2675					Theta hat (MLE)	14.41			Theta star (bias corrected MLE)	14.37		
2676					nu hat (MLE)	113.4			nu star (bias corrected)	113.7		
2677					Adjusted Level of Significance (β)	0.0493						
2678					Approximate Chi Square Value (113.72, α)	90.1			Adjusted Chi Square Value (113.72, β)	90.01		
2679					95% Gamma Approximate UCL (use when n>=50)	3.125			95% Gamma Adjusted UCL (use when n<50)	3.128		
2680												
2681	**Estimates of Gamma Parameters using KM Estimates**											
2682					Mean (KM)	2.484			SD (KM)	41.22		
2683					Variance (KM)	1699			SE of Mean (KM)	2.276		
2684					k hat (KM)	0.00363			k star (KM)	0.00562		
2685					nu hat (KM)	2.397			nu star (KM)	3.709		
2686					theta hat (KM)	683.9			theta star (KM)	442.1		
2687					80% gamma percentile (KM)	1.414E-15			90% gamma percentile (KM)	1.7936E-6		
2688					95% gamma percentile (KM)	0.0271			99% gamma percentile (KM)	46.13		
2689												
2690	**Gamma Kaplan-Meier (KM) Statistics**											
2691					Approximate Chi Square Value (3.71, α)	0.61			Adjusted Chi Square Value (3.71, β)	0.605		
2692					95% Gamma Approximate KM-UCL (use when n>=50)	15.1			95% Gamma Adjusted KM-UCL (use when n<50)	15.23		
2693												
2694	**Lognormal GOF Test on Detected Observations Only**											
2695					Shapiro Wilk Approximate Test Statistic	0.819	**Shapiro Wilk GOF Test**					
2696					5% Shapiro Wilk P Value	0	Detected Data Not Lognormal at 5% Significance Level					
2697					Lilliefors Test Statistic	0.183	**Lilliefors GOF Test**					
2698					5% Lilliefors Critical Value	0.0723	Detected Data Not Lognormal at 5% Significance Level					
2699	**Detected Data Not Lognormal at 5% Significance Level**											
2700												
2701	**Lognormal ROS Statistics Using Imputed Non-Detects**											
2702					Mean in Original Scale	2.481			Mean in Log Scale	-3.463		
2703					SD in Original Scale	41.28			SD in Log Scale	1.864		

2704					95% t UCL (assumes normality of ROS data)	6.229					95% Percentile Bootstrap UCL	7.027
2705					95% BCA Bootstrap UCL	11.56					95% Bootstrap t UCL	173.2
2706					95% H-UCL (Log ROS)	0.241						
2707												
2708	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
2709					KM Mean (logged)	-3.062					KM Geo Mean	0.0468
2710					KM SD (logged)	1.428					95% Critical H Value (KM-Log)	2.503
2711					KM Standard Error of Mean (logged)	0.0877					95% H-UCL (KM -Log)	0.158
2712					KM SD (logged)	1.428					95% Critical H Value (KM-Log)	2.503
2713					KM Standard Error of Mean (logged)	0.0877						
2714												
2715	**DL/2 Statistics**											
2716	**DL/2 Normal**						**DL/2 Log-Transformed**					
2717					Mean in Original Scale	2.483					Mean in Log Scale	-3.068
2718					SD in Original Scale	41.28					SD in Log Scale	1.417
2719					95% t UCL (Assumes normality)	6.232					95% H-Stat UCL	0.154
2720	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
2721												
2722	**Nonparametric Distribution Free UCL Statistics**											
2723	**Data do not follow a Discernible Distribution at 5% Significance Level**											
2724												
2725	**Suggested UCL to Use**											
2726					95% KM (Chebyshev) UCL	12.41						
2727												
2728	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
2729	Recommendations are based upon data size, data distribution, and skewness.											
2730	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
2731	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
2732												
2733	**Naphthalene**											
2734												
2735	**General Statistics**											
2736					Total Number of Observations	198					Number of Distinct Observations	56
2737											Number of Missing Observations	439
2738					Number of Detects	17					Number of Non-Detects	181
2739					Number of Distinct Detects	15					Number of Distinct Non-Detects	41
2740					Minimum Detect	0.014					Minimum Non-Detect	7.9000E-4
2741					Maximum Detect	0.91					Maximum Non-Detect	0.5
2742					Variance Detects	0.0715					Percent Non-Detects	91.41%
2743					Mean Detects	0.278					SD Detects	0.267
2744					Median Detects	0.24					CV Detects	0.963
2745					Skewness Detects	0.933					Kurtosis Detects	0.193
2746					Mean of Logged Detects	-1.941					SD of Logged Detects	1.35
2747												
2748	**Normal GOF Test on Detects Only**											
2749					Shapiro Wilk Test Statistic	0.877	**Shapiro Wilk GOF Test**					
2750					5% Shapiro Wilk Critical Value	0.892	Detected Data Not Normal at 5% Significance Level					
2751					Lilliefors Test Statistic	0.184	**Lilliefors GOF Test**					
2752					5% Lilliefors Critical Value	0.207	Detected Data appear Normal at 5% Significance Level					
2753	**Detected Data appear Approximate Normal at 5% Significance Level**											
2754												
2755	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
2756					KM Mean	0.026					KM Standard Error of Mean	0.00822

2757					KM SD	0.11				95% KM (BCA) UCL		0.0433
2758					95% KM (t) UCL	0.0396				95% KM (Percentile Bootstrap) UCL		0.0412
2759					95% KM (z) UCL	0.0395				95% KM Bootstrap t UCL		0.0437
2760					90% KM Chebyshev UCL	0.0507				95% KM Chebyshev UCL		0.0618
2761					97.5% KM Chebyshev UCL	0.0773				99% KM Chebyshev UCL		0.108
2762												
2763	**Gamma GOF Tests on Detected Observations Only**											
2764					A-D Test Statistic	0.586	**Anderson-Darling GOF Test**					
2765					5% A-D Critical Value	0.771	Detected data appear Gamma Distributed at 5% Significance Level					
2766					K-S Test Statistic	0.191	**Kolmogorov-Smirnov GOF**					
2767					5% K-S Critical Value	0.216	Detected data appear Gamma Distributed at 5% Significance Level					
2768	**Detected data appear Gamma Distributed at 5% Significance Level**											
2769												
2770	**Gamma Statistics on Detected Data Only**											
2771					k hat (MLE)	0.887				k star (bias corrected MLE)		0.77
2772					Theta hat (MLE)	0.313				Theta star (bias corrected MLE)		0.361
2773					nu hat (MLE)	30.17				nu star (bias corrected)		26.18
2774					Mean (detects)	0.278						
2775												
2776	**Gamma ROS Statistics using Imputed Non-Detects**											
2777	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
2778	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)											
2779	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
2780	This is especially true when the sample size is small.											
2781	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
2782					Minimum	0.01				Mean		0.0333
2783					Maximum	0.91				Median		0.01
2784					SD	0.107				CV		3.217
2785					k hat (MLE)	0.636				k star (bias corrected MLE)		0.629
2786					Theta hat (MLE)	0.0524				Theta star (bias corrected MLE)		0.0529
2787					nu hat (MLE)	251.7				nu star (bias corrected)		249.2
2788					Adjusted Level of Significance (β)	0.0488						
2789					Approximate Chi Square Value (249.18, α)	213.6				Adjusted Chi Square Value (249.18, β)		213.4
2790					95% Gamma Approximate UCL (use when n>=50)	0.0388				95% Gamma Adjusted UCL (use when n<50)		0.0389
2791												
2792	**Estimates of Gamma Parameters using KM Estimates**											
2793					Mean (KM)	0.026				SD (KM)		0.11
2794					Variance (KM)	0.0121				SE of Mean (KM)		0.00822
2795					k hat (KM)	0.0558				k star (KM)		0.0583
2796					nu hat (KM)	22.08				nu star (KM)		23.08
2797					theta hat (KM)	0.467				theta star (KM)		0.446
2798					80% gamma percentile (KM)	0.00578				90% gamma percentile (KM)		0.0475
2799					95% gamma percentile (KM)	0.145				99% gamma percentile (KM)		0.531
2800												
2801	**Gamma Kaplan-Meier (KM) Statistics**											
2802					Approximate Chi Square Value (23.08, α)	13.15				Adjusted Chi Square Value (23.08, β)		13.1
2803					95% Gamma Approximate KM-UCL (use when n>=50)	0.0457				95% Gamma Adjusted KM-UCL (use when n<50)		0.0459
2804												
2805	**Lognormal GOF Test on Detected Observations Only**											
2806					Shapiro Wilk Test Statistic	0.904	**Shapiro Wilk GOF Test**					
2807					5% Shapiro Wilk Critical Value	0.892	Detected Data appear Lognormal at 5% Significance Level					
2808					Lilliefors Test Statistic	0.178	**Lilliefors GOF Test**					
2809					5% Lilliefors Critical Value	0.207	Detected Data appear Lognormal at 5% Significance Level					

	A	B	C	D	E	F	G	H	I	J	K	L
2810	**Detected Data appear Lognormal at 5% Significance Level**											
2811												
2812	**Lognormal ROS Statistics Using Imputed Non-Detects**											
2813					Mean in Original Scale	0.0255			Mean in Log Scale	-7.425		
2814					SD in Original Scale	0.109			SD in Log Scale	2.561		
2815				95% t UCL (assumes normality of ROS data)		0.0383			95% Percentile Bootstrap UCL	0.0395		
2816					95% BCA Bootstrap UCL	0.0437			95% Bootstrap t UCL	0.0444		
2817					95% H-UCL (Log ROS)	0.0322						
2818												
2819	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
2820					KM Mean (logged)	-6.653			KM Geo Mean	0.00129		
2821					KM SD (logged)	1.565			95% Critical H Value (KM-Log)	2.733		
2822					KM Standard Error of Mean (logged)	0.12			95% H-UCL (KM -Log)	0.00596		
2823					KM SD (logged)	1.565			95% Critical H Value (KM-Log)	2.733		
2824					KM Standard Error of Mean (logged)	0.12						
2825												
2826	**DL/2 Statistics**											
2827	**DL/2 Normal**								**DL/2 Log-Transformed**			
2828					Mean in Original Scale	0.0576			Mean in Log Scale	-4.642		
2829					SD in Original Scale	0.129			SD in Log Scale	1.624		
2830					95% t UCL (Assumes normality)	0.0727			95% H-Stat UCL	0.0498		
2831	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
2832												
2833	**Nonparametric Distribution Free UCL Statistics**											
2834	**Detected Data appear Approximate Normal Distributed at 5% Significance Level**											
2835												
2836	**Suggested UCL to Use**											
2837					95% KM (t) UCL	0.0396						
2838												
2839	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
2840	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
2841												
2842	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
2843	Recommendations are based upon data size, data distribution, and skewness.											
2844	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
2845	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
2846												
2847	**Aroclor-1254_virtual**											
2848												
2849	**General Statistics**											
2850					Total Number of Observations	329			Number of Distinct Observations	63		
2851									Number of Missing Observations	347		
2852					Number of Detects	61			Number of Non-Detects	268		
2853					Number of Distinct Detects	51			Number of Distinct Non-Detects	16		
2854					Minimum Detect	0.0175			Minimum Non-Detect	0.01		
2855					Maximum Detect	3.5			Maximum Non-Detect	0.2		
2856					Variance Detects	0.59			Percent Non-Detects	81.46%		
2857					Mean Detects	0.478			SD Detects	0.768		
2858					Median Detects	0.12			CV Detects	1.607		
2859					Skewness Detects	2.557			Kurtosis Detects	6.411		
2860					Mean of Logged Detects	-1.789			SD of Logged Detects	1.486		
2861												
2862	**Normal GOF Test on Detects Only**											

2863				Shapiro Wilk Test Statistic		0.627	**Normal GOF Test on Detected Observations Only**					
2864				5% Shapiro Wilk P Value		0	Detected Data Not Normal at 5% Significance Level					
2865				Lilliefors Test Statistic		0.274	**Lilliefors GOF Test**					
2866				5% Lilliefors Critical Value		0.113	Detected Data Not Normal at 5% Significance Level					
2867	**Detected Data Not Normal at 5% Significance Level**											
2868												
2869	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
2870				KM Mean		0.101	KM Standard Error of Mean					0.0208
2871				KM SD		0.374	95% KM (BCA) UCL					0.137
2872				95% KM (t) UCL		0.136	95% KM (Percentile Bootstrap) UCL					0.136
2873				95% KM (z) UCL		0.135	95% KM Bootstrap t UCL					0.15
2874				90% KM Chebyshev UCL		0.164	95% KM Chebyshev UCL					0.192
2875				97.5% KM Chebyshev UCL		0.231	99% KM Chebyshev UCL					0.309
2876												
2877	**Gamma GOF Tests on Detected Observations Only**											
2878				A-D Test Statistic		2.311	**Anderson-Darling GOF Test**					
2879				5% A-D Critical Value		0.807	Detected Data Not Gamma Distributed at 5% Significance Level					
2880				K-S Test Statistic		0.164	**Kolmogorov-Smirnov GOF**					
2881				5% K-S Critical Value		0.12	Detected Data Not Gamma Distributed at 5% Significance Level					
2882	**Detected Data Not Gamma Distributed at 5% Significance Level**											
2883												
2884	**Gamma Statistics on Detected Data Only**											
2885				k hat (MLE)		0.59	k star (bias corrected MLE)					0.572
2886				Theta hat (MLE)		0.811	Theta star (bias corrected MLE)					0.836
2887				nu hat (MLE)		71.93	nu star (bias corrected)					69.73
2888				Mean (detects)		0.478						
2889												
2890	**Gamma ROS Statistics using Imputed Non-Detects**											
2891	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
2892	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)											
2893	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
2894	This is especially true when the sample size is small.											
2895	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
2896				Minimum		0.01	Mean					0.0971
2897				Maximum		3.5	Median					0.01
2898				SD		0.376	CV					3.869
2899				k hat (MLE)		0.382	k star (bias corrected MLE)					0.38
2900				Theta hat (MLE)		0.255	Theta star (bias corrected MLE)					0.255
2901				nu hat (MLE)		251.1	nu star (bias corrected)					250.1
2902				Adjusted Level of Significance (β)		0.0493						
2903				Approximate Chi Square Value (250.11, α)		214.5	Adjusted Chi Square Value (250.11, β)					214.3
2904				95% Gamma Approximate UCL (use when n>=50)		0.113	95% Gamma Adjusted UCL (use when n<50)					0.113
2905												
2906	**Estimates of Gamma Parameters using KM Estimates**											
2907				Mean (KM)		0.101	SD (KM)					0.374
2908				Variance (KM)		0.14	SE of Mean (KM)					0.0208
2909				k hat (KM)		0.0731	k star (KM)					0.0745
2910				nu hat (KM)		48.13	nu star (KM)					49.02
2911				theta hat (KM)		1.384	theta star (KM)					1.359
2912				80% gamma percentile (KM)		0.0416	90% gamma percentile (KM)					0.229
2913				95% gamma percentile (KM)		0.586	99% gamma percentile (KM)					1.853
2914												
2915	**Gamma Kaplan-Meier (KM) Statistics**											

2916	Approximate Chi Square Value (49.02, α)					33.95	Adjusted Chi Square Value (49.02, β)					33.89
2917	95% Gamma Approximate KM-UCL (use when n>=50)					0.146	95% Gamma Adjusted KM-UCL (use when n<50)					0.146
2918												
2919	**Lognormal GOF Test on Detected Observations Only**											
2920	Shapiro Wilk Approximate Test Statistic					0.926	**Shapiro Wilk GOF Test**					
2921	5% Shapiro Wilk P Value					0.00123	Detected Data Not Lognormal at 5% Significance Level					
2922	Lilliefors Test Statistic					0.131	**Lilliefors GOF Test**					
2923	5% Lilliefors Critical Value					0.113	Detected Data Not Lognormal at 5% Significance Level					
2924	**Detected Data Not Lognormal at 5% Significance Level**											
2925												
2926	**Lognormal ROS Statistics Using Imputed Non-Detects**											
2927	Mean in Original Scale					0.0961	Mean in Log Scale					-5.305
2928	SD in Original Scale					0.376	SD in Log Scale					2.526
2929	95% t UCL (assumes normality of ROS data)					0.13	95% Percentile Bootstrap UCL					0.129
2930	95% BCA Bootstrap UCL					0.14	95% Bootstrap t UCL					0.145
2931	95% H-UCL (Log ROS)					0.201						
2932												
2933	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
2934	KM Mean (logged)					-3.845	KM Geo Mean					0.0214
2935	KM SD (logged)					1.249	95% Critical H Value (KM-Log)					2.335
2936	KM Standard Error of Mean (logged)					0.0899	95% H-UCL (KM -Log)					0.0548
2937	KM SD (logged)					1.249	95% Critical H Value (KM-Log)					2.335
2938	KM Standard Error of Mean (logged)					0.0899						
2939												
2940	**DL/2 Statistics**											
2941	**DL/2 Normal**						**DL/2 Log-Transformed**					
2942	Mean in Original Scale					0.107	Mean in Log Scale					-3.478
2943	SD in Original Scale					0.373	SD in Log Scale					1.115
2944	95% t UCL (Assumes normality)					0.141	95% H-Stat UCL					0.0658
2945	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
2946												
2947	**Nonparametric Distribution Free UCL Statistics**											
2948	**Data do not follow a Discernible Distribution at 5% Significance Level**											
2949												
2950	**Suggested UCL to Use**											
2951	95% KM (Chebyshev) UCL					0.192						
2952												
2953	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
2954	Recommendations are based upon data size, data distribution, and skewness.											
2955	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
2956	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
2957												
2958	**Aroclor-1260_virtual**											
2959												
2960	**General Statistics**											
2961	Total Number of Observations					328	Number of Distinct Observations					74
2962							Number of Missing Observations					348
2963	Number of Detects					117	Number of Non-Detects					211
2964	Number of Distinct Detects					71	Number of Distinct Non-Detects					13
2965	Minimum Detect					0.0129	Minimum Non-Detect					0.01
2966	Maximum Detect					3.5	Maximum Non-Detect					0.2
2967	Variance Detects					0.311	Percent Non-Detects					64.33%
2968	Mean Detects					0.282	SD Detects					0.558

2969					Median Detects	0.063					CV Detects	1.979
2970					Skewness Detects	3.133					Kurtosis Detects	11.17
2971					Mean of Logged Detects	-2.354					SD of Logged Detects	1.292
2972												
2973					**Normal GOF Test on Detects Only**							
2974					Shapiro Wilk Test Statistic	0.522	**Normal GOF Test on Detected Observations Only**					
2975					5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level					
2976					Lilliefors Test Statistic	0.36	**Lilliefors GOF Test**					
2977					5% Lilliefors Critical Value	0.0822	Detected Data Not Normal at 5% Significance Level					
2978					**Detected Data Not Normal at 5% Significance Level**							
2979												
2980					**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**							
2981					KM Mean	0.113	KM Standard Error of Mean					0.0197
2982					KM SD	0.355	95% KM (BCA) UCL					0.149
2983					95% KM (t) UCL	0.146	95% KM (Percentile Bootstrap) UCL					0.146
2984					95% KM (z) UCL	0.146	95% KM Bootstrap t UCL					0.155
2985					90% KM Chebyshev UCL	0.173	95% KM Chebyshev UCL					0.199
2986					97.5% KM Chebyshev UCL	0.236	99% KM Chebyshev UCL					0.309
2987												
2988					**Gamma GOF Tests on Detected Observations Only**							
2989					A-D Test Statistic	12.43	**Anderson-Darling GOF Test**					
2990					5% A-D Critical Value	0.812	Detected Data Not Gamma Distributed at 5% Significance Level					
2991					K-S Test Statistic	0.269	**Kolmogorov-Smirnov GOF**					
2992					5% K-S Critical Value	0.0895	Detected Data Not Gamma Distributed at 5% Significance Level					
2993					**Detected Data Not Gamma Distributed at 5% Significance Level**							
2994												
2995					**Gamma Statistics on Detected Data Only**							
2996					k hat (MLE)	0.572	k star (bias corrected MLE)					0.563
2997					Theta hat (MLE)	0.492	Theta star (bias corrected MLE)					0.5
2998					nu hat (MLE)	133.9	nu star (bias corrected)					131.8
2999					Mean (detects)	0.282						
3000												
3001					**Gamma ROS Statistics using Imputed Non-Detects**							
3002					GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs							
3003					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)							
3004					For such situations, GROS method may yield incorrect values of UCLs and BTVs							
3005					This is especially true when the sample size is small.							
3006					For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates							
3007					Minimum	0.01	Mean					0.108
3008					Maximum	3.5	Median					0.01
3009					SD	0.357	CV					3.317
3010					k hat (MLE)	0.422	k star (bias corrected MLE)					0.42
3011					Theta hat (MLE)	0.255	Theta star (bias corrected MLE)					0.256
3012					nu hat (MLE)	276.7	nu star (bias corrected)					275.5
3013					Adjusted Level of Significance (β)	0.0493						
3014					Approximate Chi Square Value (275.46, α)	238	Adjusted Chi Square Value (275.46, β)					237.9
3015					95% Gamma Approximate UCL (use when n>=50)	0.124	95% Gamma Adjusted UCL (use when n<50)					0.124
3016												
3017					**Estimates of Gamma Parameters using KM Estimates**							
3018					Mean (KM)	0.113	SD (KM)					0.355
3019					Variance (KM)	0.126	SE of Mean (KM)					0.0197
3020					k hat (KM)	0.102	k star (KM)					0.103
3021					nu hat (KM)	67.13	nu star (KM)					67.85

3022					theta hat (KM)	1.109					theta star (KM)	1.097
3023					80% gamma percentile (KM)	0.0826					90% gamma percentile (KM)	0.306
3024					95% gamma percentile (KM)	0.657					99% gamma percentile (KM)	1.772
3025												
3026	**Gamma Kaplan-Meier (KM) Statistics**											
3027					Approximate Chi Square Value (67.85, α)	49.89					Adjusted Chi Square Value (67.85, β)	49.82
3028					95% Gamma Approximate KM-UCL (use when n>=50)	0.154					95% Gamma Adjusted KM-UCL (use when n<50)	0.154
3029												
3030	**Lognormal GOF Test on Detected Observations Only**											
3031					Shapiro Wilk Approximate Test Statistic	0.852	**Shapiro Wilk GOF Test**					
3032					5% Shapiro Wilk P Value	0	Detected Data Not Lognormal at 5% Significance Level					
3033					Lilliefors Test Statistic	0.183	**Lilliefors GOF Test**					
3034					5% Lilliefors Critical Value	0.0822	Detected Data Not Lognormal at 5% Significance Level					
3035	**Detected Data Not Lognormal at 5% Significance Level**											
3036												
3037	**Lognormal ROS Statistics Using Imputed Non-Detects**											
3038					Mean in Original Scale	0.11					Mean in Log Scale	-3.975
3039					SD in Original Scale	0.356					SD in Log Scale	1.75
3040					95% t UCL (assumes normality of ROS data)	0.142					95% Percentile Bootstrap UCL	0.145
3041					95% BCA Bootstrap UCL	0.151					95% Bootstrap t UCL	0.153
3042					95% H-UCL (Log ROS)	0.114						
3043												
3044	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
3045					KM Mean (logged)	-3.469					KM Geo Mean	0.0311
3046					KM SD (logged)	1.226					95% Critical H Value (KM-Log)	2.314
3047					KM Standard Error of Mean (logged)	0.0814					95% H-UCL (KM -Log)	0.0773
3048					KM SD (logged)	1.226					95% Critical H Value (KM-Log)	2.314
3049					KM Standard Error of Mean (logged)	0.0814						
3050												
3051	**DL/2 Statistics**											
3052	**DL/2 Normal**						**DL/2 Log-Transformed**					
3053					Mean in Original Scale	0.115					Mean in Log Scale	-3.351
3054					SD in Original Scale	0.355					SD in Log Scale	1.152
3055					95% t UCL (Assumes normality)	0.147					95% H-Stat UCL	0.0785
3056	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
3057												
3058	**Nonparametric Distribution Free UCL Statistics**											
3059	**Data do not follow a Discernible Distribution at 5% Significance Level**											
3060												
3061	**Suggested UCL to Use**											
3062					95% KM (Chebyshev) UCL	0.199						
3063												
3064	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
3065	Recommendations are based upon data size, data distribution, and skewness.											
3066	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
3067	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
3068												
3069	**Polychlorinated biphenyls (PCBs)_virtual**											
3070												
3071	**General Statistics**											
3072					Total Number of Observations	329					Number of Distinct Observations	108
3073											Number of Missing Observations	347
3074					Number of Detects	151					Number of Non-Detects	178

3075					Number of Distinct Detects	105					Number of Distinct Non-Detects	11
3076					Minimum Detect	0.0193					Minimum Non-Detect	0.01
3077					Maximum Detect	6.3					Maximum Non-Detect	0.2
3078					Variance Detects	1.006					Percent Non-Detects	54.1%
3079					Mean Detects	0.432					SD Detects	1.003
3080					Median Detects	0.067					CV Detects	2.32
3081					Skewness Detects	3.563					Kurtosis Detects	13.76
3082					Mean of Logged Detects	-2.213					SD of Logged Detects	1.425
3083												
3084					**Normal GOF Test on Detects Only**							
3085					Shapiro Wilk Test Statistic	0.465					**Normal GOF Test on Detected Observations Only**	
3086					5% Shapiro Wilk P Value	0					Detected Data Not Normal at 5% Significance Level	
3087					Lilliefors Test Statistic	0.377					**Lilliefors GOF Test**	
3088					5% Lilliefors Critical Value	0.0725					Detected Data Not Normal at 5% Significance Level	
3089					**Detected Data Not Normal at 5% Significance Level**							
3090												
3091					**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**							
3092					KM Mean	0.212					KM Standard Error of Mean	0.0391
3093					KM SD	0.707					95% KM (BCA) UCL	0.284
3094					95% KM (t) UCL	0.276					95% KM (Percentile Bootstrap) UCL	0.28
3095					95% KM (z) UCL	0.276					95% KM Bootstrap t UCL	0.299
3096					90% KM Chebyshev UCL	0.329					95% KM Chebyshev UCL	0.382
3097					97.5% KM Chebyshev UCL	0.456					99% KM Chebyshev UCL	0.601
3098												
3099					**Gamma GOF Tests on Detected Observations Only**							
3100					A-D Test Statistic	17.72					**Anderson-Darling GOF Test**	
3101					5% A-D Critical Value	0.828					Detected Data Not Gamma Distributed at 5% Significance Level	
3102					K-S Test Statistic	0.26					**Kolmogorov-Smirnov GOF**	
3103					5% K-S Critical Value	0.081					Detected Data Not Gamma Distributed at 5% Significance Level	
3104					**Detected Data Not Gamma Distributed at 5% Significance Level**							
3105												
3106					**Gamma Statistics on Detected Data Only**							
3107					k hat (MLE)	0.467					k star (bias corrected MLE)	0.462
3108					Theta hat (MLE)	0.926					Theta star (bias corrected MLE)	0.935
3109					nu hat (MLE)	141					nu star (bias corrected)	139.6
3110					Mean (detects)	0.432						
3111												
3112					**Gamma ROS Statistics using Imputed Non-Detects**							
3113					GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs							
3114					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)							
3115					For such situations, GROS method may yield incorrect values of UCLs and BTVs							
3116					This is especially true when the sample size is small.							
3117					For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates							
3118					Minimum	0.01					Mean	0.204
3119					Maximum	6.3					Median	0.01
3120					SD	0.71					CV	3.485
3121					k hat (MLE)	0.351					k star (bias corrected MLE)	0.35
3122					Theta hat (MLE)	0.581					Theta star (bias corrected MLE)	0.583
3123					nu hat (MLE)	230.8					nu star (bias corrected)	230
3124					Adjusted Level of Significance (β)	0.0493						
3125					Approximate Chi Square Value (229.99, α)	195.9					Adjusted Chi Square Value (229.99, β)	195.7
3126					95% Gamma Approximate UCL (use when n>=50)	0.239					95% Gamma Adjusted UCL (use when n<50)	0.239
3127												

3128	**Estimates of Gamma Parameters using KM Estimates**											
3129					Mean (KM)	0.212					SD (KM)	0.707
3130					Variance (KM)	0.5					SE of Mean (KM)	0.0391
3131					k hat (KM)	0.0899					k star (KM)	0.0911
3132					nu hat (KM)	59.14					nu star (KM)	59.94
3133					theta hat (KM)	2.358					theta star (KM)	2.327
3134					80% gamma percentile (KM)	0.127					90% gamma percentile (KM)	0.541
3135					95% gamma percentile (KM)	1.235					99% gamma percentile (KM)	3.526
3136												
3137	**Gamma Kaplan-Meier (KM) Statistics**											
3138					Approximate Chi Square Value (59.94, α)	43.13					Adjusted Chi Square Value (59.94, β)	43.07
3139					95% Gamma Approximate KM-UCL (use when n>=50)	0.295					95% Gamma Adjusted KM-UCL (use when n<50)	0.295
3140												
3141	**Lognormal GOF Test on Detected Observations Only**											
3142					Shapiro Wilk Approximate Test Statistic	0.834					**Shapiro Wilk GOF Test**	
3143					5% Shapiro Wilk P Value	0					Detected Data Not Lognormal at 5% Significance Level	
3144					Lilliefors Test Statistic	0.18					**Lilliefors GOF Test**	
3145					5% Lilliefors Critical Value	0.0725					Detected Data Not Lognormal at 5% Significance Level	
3146	**Detected Data Not Lognormal at 5% Significance Level**											
3147												
3148	**Lognormal ROS Statistics Using Imputed Non-Detects**											
3149					Mean in Original Scale	0.209					Mean in Log Scale	-3.418
3150					SD in Original Scale	0.709					SD in Log Scale	1.699
3151					95% t UCL (assumes normality of ROS data)	0.274					95% Percentile Bootstrap UCL	0.276
3152					95% BCA Bootstrap UCL	0.289					95% Bootstrap t UCL	0.291
3153					95% H-UCL (Log ROS)	0.18						
3154												
3155	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
3156					KM Mean (logged)	-3.092					KM Geo Mean	0.0454
3157					KM SD (logged)	1.327					95% Critical H Value (KM-Log)	2.406
3158					KM Standard Error of Mean (logged)	0.0829					95% H-UCL (KM -Log)	0.131
3159					KM SD (logged)	1.327					95% Critical H Value (KM-Log)	2.406
3160					KM Standard Error of Mean (logged)	0.0829						
3161												
3162	**DL/2 Statistics**											
3163	**DL/2 Normal**										**DL/2 Log-Transformed**	
3164					Mean in Original Scale	0.211					Mean in Log Scale	-3.097
3165					SD in Original Scale	0.708					SD in Log Scale	1.314
3166					95% t UCL (Assumes normality)	0.275					95% H-Stat UCL	0.127
3167	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
3168												
3169	**Nonparametric Distribution Free UCL Statistics**											
3170	**Data do not follow a Discernible Distribution at 5% Significance Level**											
3171												
3172	**Suggested UCL to Use**											
3173					95% KM (Chebyshev) UCL	0.382						
3174												
3175	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
3176	Recommendations are based upon data size, data distribution, and skewness.											
3177	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
3178	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
3179												

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.13/13/2023 12:07:54 PM
From File	SV ProUCL Input Final - 50 feet - 10-20.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Chloroform

General Statistics

Total Number of Observations	11	Number of Distinct Observations	11
		Number of Missing Observations	1
Number of Detects	10	Number of Non-Detects	1
Number of Distinct Detects	10	Number of Distinct Non-Detects	1
Minimum Detect	76.6	Minimum Non-Detect	2
Maximum Detect	640	Maximum Non-Detect	2
Variance Detects	42118	Percent Non-Detects	9.091%
Mean Detects	277.4	SD Detects	205.2
Median Detects	215	CV Detects	0.74
Skewness Detects	0.619	Kurtosis Detects	-1.1
Mean of Logged Detects	5.344	SD of Logged Detects	0.816

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.874	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.842	Detected Data appear Normal at 5% Significance Level
Lilliefors Test Statistic	0.255	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.262	Detected Data appear Normal at 5% Significance Level

Detected Data appear Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	252.4	KM Standard Error of Mean	64.14
KM SD	201.8	95% KM (BCA) UCL	358.4
95% KM (t) UCL	368.6	95% KM (Percentile Bootstrap) UCL	352.9
95% KM (z) UCL	357.9	95% KM Bootstrap t UCL	386.5
90% KM Chebyshev UCL	444.8	95% KM Chebyshev UCL	531.9
97.5% KM Chebyshev UCL	652.9	99% KM Chebyshev UCL	890.6

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.539	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.736	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.236	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.27	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	1.924	k star (bias corrected MLE)	1.414
Theta hat (MLE)	144.2	Theta star (bias corrected MLE)	196.2
nu hat (MLE)	38.48	nu star (bias corrected)	28.27
Mean (detects)	277.4		

Gamma ROS Statistics using Imputed Non-Detects

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	252.2	
60					Maximum	640				Median	136	
61					SD	211.9				CV	0.84	
62					k hat (MLE)	0.571				k star (bias corrected MLE)	0.476	
63					Theta hat (MLE)	441.9				Theta star (bias corrected MLE)	530.2	
64					nu hat (MLE)	12.55				nu star (bias corrected)	10.46	
65					Adjusted Level of Significance (β)	0.0278						
66					Approximate Chi Square Value (10.46, α)	4.233				Adjusted Chi Square Value (10.46, β)	3.61	
67					95% Gamma Approximate UCL (use when n>=50)	623.3				95% Gamma Adjusted UCL (use when n<50)	730.9	
68												
69	**Estimates of Gamma Parameters using KM Estimates**											
70					Mean (KM)	252.4				SD (KM)	201.8	
71					Variance (KM)	40728				SE of Mean (KM)	64.14	
72					k hat (KM)	1.564				k star (KM)	1.198	
73					nu hat (KM)	34.4				nu star (KM)	26.35	
74					theta hat (KM)	161.4				theta star (KM)	210.7	
75					80% gamma percentile (KM)	399.7				90% gamma percentile (KM)	555.8	
76					95% gamma percentile (KM)	709.7				99% gamma percentile (KM)	1063	
77												
78	**Gamma Kaplan-Meier (KM) Statistics**											
79					Approximate Chi Square Value (26.35, α)	15.65				Adjusted Chi Square Value (26.35, β)	14.32	
80					95% Gamma Approximate KM-UCL (use when n>=50)	424.9				95% Gamma Adjusted KM-UCL (use when n<50)	464.4	
81												
82	**Lognormal GOF Test on Detected Observations Only**											
83					Shapiro Wilk Test Statistic	0.889				**Shapiro Wilk GOF Test**		
84					5% Shapiro Wilk Critical Value	0.842				Detected Data appear Lognormal at 5% Significance Level		
85					Lilliefors Test Statistic	0.201				**Lilliefors GOF Test**		
86					5% Lilliefors Critical Value	0.262				Detected Data appear Lognormal at 5% Significance Level		
87	**Detected Data appear Lognormal at 5% Significance Level**											
88												
89	**Lognormal ROS Statistics Using Imputed Non-Detects**											
90					Mean in Original Scale	254.8				Mean in Log Scale	5.164	
91					SD in Original Scale	208.6				SD in Log Scale	0.976	
92					95% t UCL (assumes normality of ROS data)	368.8				95% Percentile Bootstrap UCL	357.8	
93					95% BCA Bootstrap UCL	367.6				95% Bootstrap t UCL	398	
94					95% H-UCL (Log ROS)	700.5						
95												
96	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
97					KM Mean (logged)	4.921				KM Geo Mean	137.1	
98					KM SD (logged)	1.527				95% Critical H Value (KM-Log)	4.092	
99					KM Standard Error of Mean (logged)	0.485				95% H-UCL (KM -Log)	3174	
100					KM SD (logged)	1.527				95% Critical H Value (KM-Log)	4.092	
101					KM Standard Error of Mean (logged)	0.485						
102												
103	**DL/2 Statistics**											
104	**DL/2 Normal**									**DL/2 Log-Transformed**		
105					Mean in Original Scale	252.3				Mean in Log Scale	4.858	
106					SD in Original Scale	211.8				SD in Log Scale	1.787	

107			95% t UCL (Assumes normality)			368					95% H-Stat UCL	8914
108	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
109												
110	**Nonparametric Distribution Free UCL Statistics**											
111	**Detected Data appear Normal Distributed at 5% Significance Level**											
112												
113	**Suggested UCL to Use**											
114			95% KM (t) UCL			368.6						
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												
121												
122	**Carbon tetrachloride**											
123												
124	**General Statistics**											
125			Total Number of Observations			16			Number of Distinct Observations			16
126									Number of Missing Observations			2
127			Minimum			8.6			Mean			35.04
128			Maximum			126			Median			26.7
129			SD			30.28			Std. Error of Mean			7.571
130			Coefficient of Variation			0.864			Skewness			1.895
131												
132	**Normal GOF Test**											
133			Shapiro Wilk Test Statistic			0.795			**Shapiro Wilk GOF Test**			
134			5% Shapiro Wilk Critical Value			0.887			Data Not Normal at 5% Significance Level			
135			Lilliefors Test Statistic			0.191			**Lilliefors GOF Test**			
136			5% Lilliefors Critical Value			0.213			Data appear Normal at 5% Significance Level			
137	**Data appear Approximate Normal at 5% Significance Level**											
138												
139	**Assuming Normal Distribution**											
140			**95% Normal UCL**						**95% UCLs (Adjusted for Skewness)**			
141			95% Student's-t UCL			48.32			95% Adjusted-CLT UCL (Chen-1995)			51.33
142									95% Modified-t UCL (Johnson-1978)			48.91
143												
144	**Gamma GOF Test**											
145			A-D Test Statistic			0.544			**Anderson-Darling Gamma GOF Test**			
146			5% A-D Critical Value			0.753			Detected data appear Gamma Distributed at 5% Significance Level			
147			K-S Test Statistic			0.197			**Kolmogorov-Smirnov Gamma GOF Test**			
148			5% K-S Critical Value			0.218			Detected data appear Gamma Distributed at 5% Significance Level			
149	**Detected data appear Gamma Distributed at 5% Significance Level**											
150												
151	**Gamma Statistics**											
152			k hat (MLE)			1.74			k star (bias corrected MLE)			1.456
153			Theta hat (MLE)			20.14			Theta star (bias corrected MLE)			24.07
154			nu hat (MLE)			55.69			nu star (bias corrected)			46.58
155			MLE Mean (bias corrected)			35.04			MLE Sd (bias corrected)			29.04
156									Approximate Chi Square Value (0.05)			31.92
157			Adjusted Level of Significance			0.0335			Adjusted Chi Square Value			30.54
158												
159	**Assuming Gamma Distribution**											

160	95% Approximate Gamma UCL (use when n>=50))					51.14	95% Adjusted Gamma UCL (use when n<50)					53.45
161												
162	**Lognormal GOF Test**											
163	Shapiro Wilk Test Statistic					0.918	**Shapiro Wilk Lognormal GOF Test**					
164	5% Shapiro Wilk Critical Value					0.887	Data appear Lognormal at 5% Significance Level					
165	Lilliefors Test Statistic					0.194	**Lilliefors Lognormal GOF Test**					
166	5% Lilliefors Critical Value					0.213	Data appear Lognormal at 5% Significance Level					
167	**Data appear Lognormal at 5% Significance Level**											
168												
169	**Lognormal Statistics**											
170	Minimum of Logged Data					2.152	Mean of logged Data					3.243
171	Maximum of Logged Data					4.836	SD of logged Data					0.824
172												
173	**Assuming Lognormal Distribution**											
174	95% H-UCL					60.44	90% Chebyshev (MVUE) UCL					58.2
175	95% Chebyshev (MVUE) UCL					68.71	97.5% Chebyshev (MVUE) UCL					83.31
176	99% Chebyshev (MVUE) UCL					112						
177												
178	**Nonparametric Distribution Free UCL Statistics**											
179	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
180												
181	**Nonparametric Distribution Free UCLs**											
182	95% CLT UCL					47.5	95% Jackknife UCL					48.32
183	95% Standard Bootstrap UCL					46.98	95% Bootstrap-t UCL					55.1
184	95% Hall's Bootstrap UCL					72.24	95% Percentile Bootstrap UCL					47.5
185	95% BCA Bootstrap UCL					52.16						
186	90% Chebyshev(Mean, Sd) UCL					57.76	95% Chebyshev(Mean, Sd) UCL					68.04
187	97.5% Chebyshev(Mean, Sd) UCL					82.32	99% Chebyshev(Mean, Sd) UCL					110.4
188												
189	**Suggested UCL to Use**											
190	95% Student's-t UCL					48.32						
191												
192	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
193	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
194												
195	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
196	Recommendations are based upon data size, data distribution, and skewness.											
197	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
198	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
199												
200												
201	**Tetrachloroethene**											
202												
203	**General Statistics**											
204	Total Number of Observations					10	Number of Distinct Observations					10
205							Number of Missing Observations					0
206	Minimum					250	Mean					704.3
207	Maximum					1900	Median					433
208	SD					559.3	Std. Error of Mean					176.9
209	Coefficient of Variation					0.794	Skewness					1.376
210												
211	**Normal GOF Test**											
212	Shapiro Wilk Test Statistic					0.778	**Shapiro Wilk GOF Test**					

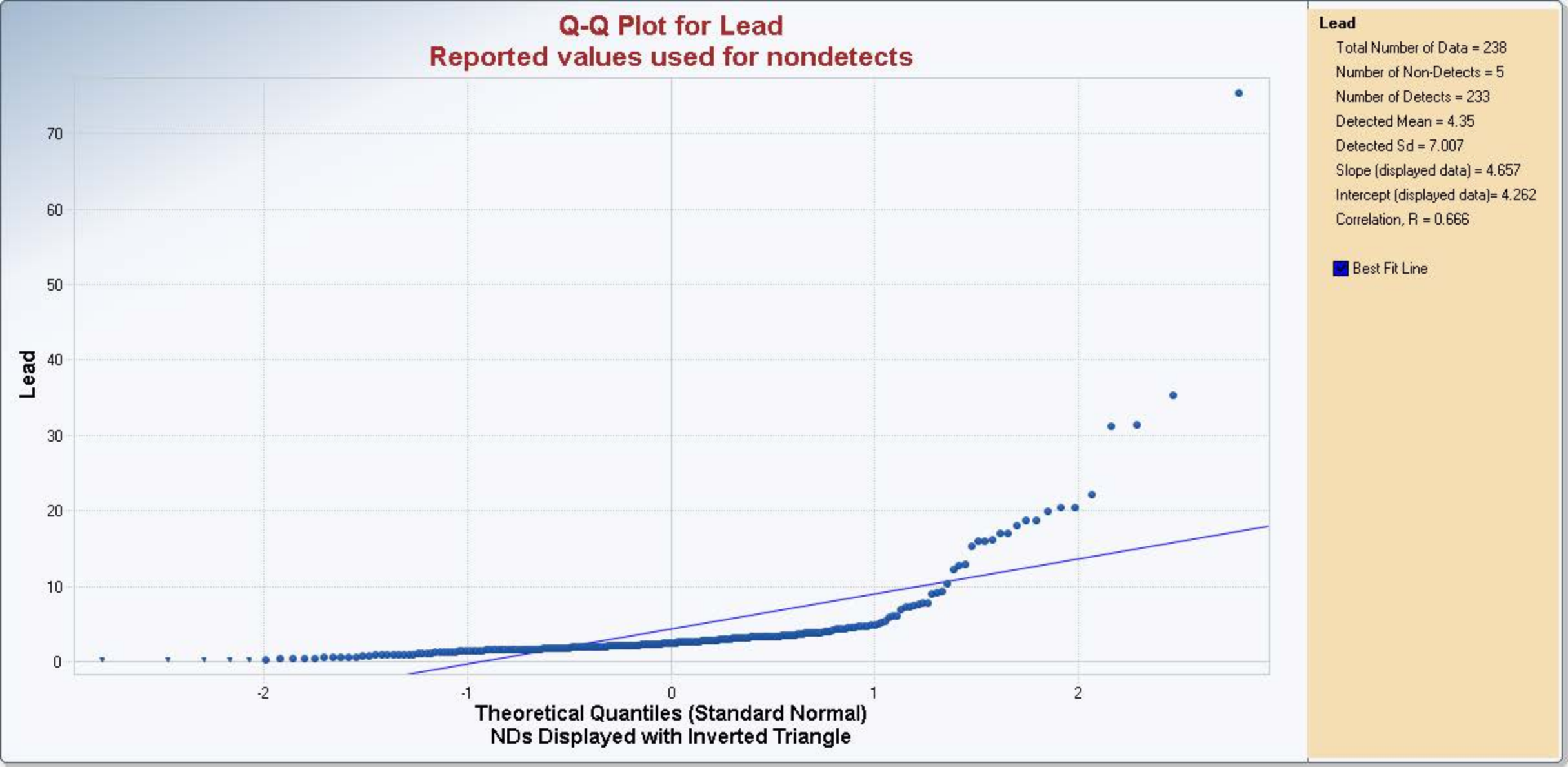
213				5% Shapiro Wilk Critical Value		0.842		Data Not Normal at 5% Significance Level				
214				Lilliefors Test Statistic		0.322		**Lilliefors GOF Test**				
215				5% Lilliefors Critical Value		0.262		Data Not Normal at 5% Significance Level				
216				**Data Not Normal at 5% Significance Level**								
217												
218				**Assuming Normal Distribution**								
219				**95% Normal UCL**				**95% UCLs (Adjusted for Skewness)**				
220				95% Student's-t UCL		1029		95% Adjusted-CLT UCL (Chen-1995)				1077
221								95% Modified-t UCL (Johnson-1978)				1041
222												
223				**Gamma GOF Test**								
224				A-D Test Statistic		0.784		**Anderson-Darling Gamma GOF Test**				
225				5% A-D Critical Value		0.735		Data Not Gamma Distributed at 5% Significance Level				
226				K-S Test Statistic		0.269		**Kolmogorov-Smirnov Gamma GOF Test**				
227				5% K-S Critical Value		0.269		Detected data appear Gamma Distributed at 5% Significance Level				
228				**Detected data follow Appr. Gamma Distribution at 5% Significance Level**								
229												
230				**Gamma Statistics**								
231				k hat (MLE)		2.228		k star (bias corrected MLE)				1.627
232				Theta hat (MLE)		316.1		Theta star (bias corrected MLE)				433
233				nu hat (MLE)		44.57		nu star (bias corrected)				32.53
234				MLE Mean (bias corrected)		704.3		MLE Sd (bias corrected)				552.2
235								Approximate Chi Square Value (0.05)				20.49
236				Adjusted Level of Significance		0.0267		Adjusted Chi Square Value				18.85
237												
238				**Assuming Gamma Distribution**								
239				95% Approximate Gamma UCL (use when n>=50)		1118		95% Adjusted Gamma UCL (use when n<50)				1216
240												
241				**Lognormal GOF Test**								
242				Shapiro Wilk Test Statistic		0.879		**Shapiro Wilk Lognormal GOF Test**				
243				5% Shapiro Wilk Critical Value		0.842		Data appear Lognormal at 5% Significance Level				
244				Lilliefors Test Statistic		0.224		**Lilliefors Lognormal GOF Test**				
245				5% Lilliefors Critical Value		0.262		Data appear Lognormal at 5% Significance Level				
246				**Data appear Lognormal at 5% Significance Level**								
247												
248				**Lognormal Statistics**								
249				Minimum of Logged Data		5.521		Mean of logged Data				6.316
250				Maximum of Logged Data		7.55		SD of logged Data				0.699
251												
252				**Assuming Lognormal Distribution**								
253				95% H-UCL		1276		90% Chebyshev (MVUE) UCL				1157
254				95% Chebyshev (MVUE) UCL		1370		97.5% Chebyshev (MVUE) UCL				1665
255				99% Chebyshev (MVUE) UCL		2246						
256												
257				**Nonparametric Distribution Free UCL Statistics**								
258				**Data appear to follow a Discernible Distribution at 5% Significance Level**								
259												
260				**Nonparametric Distribution Free UCLs**								
261				95% CLT UCL		995.2		95% Jackknife UCL				1029
262				95% Standard Bootstrap UCL		982.1		95% Bootstrap-t UCL				1201
263				95% Hall's Bootstrap UCL		964.4		95% Percentile Bootstrap UCL				995.2
264				95% BCA Bootstrap UCL		1056						
265				90% Chebyshev(Mean, Sd) UCL		1235		95% Chebyshev(Mean, Sd) UCL				1475

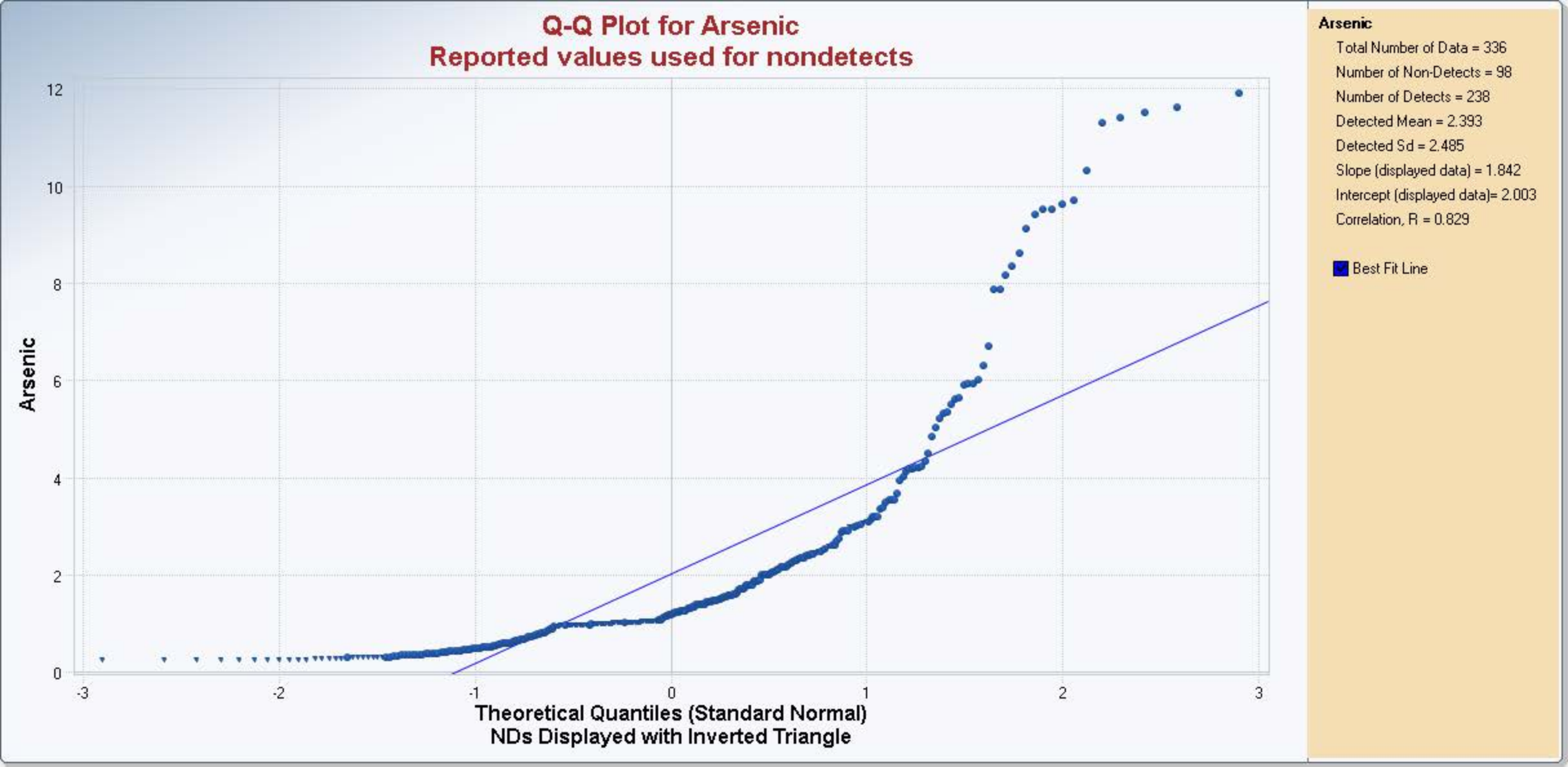
266					97.5% Chebyshev(Mean, Sd) UCL	1809					99% Chebyshev(Mean, Sd) UCL	2464
267												
268					**Suggested UCL to Use**							
269					95% Adjusted Gamma UCL	1216						
270												
271	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
272	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
273												
274	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
275	Recommendations are based upon data size, data distribution, and skewness.											
276	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
277	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
278												
279												
280	**1,1-Dichloroethane**											
281												
282					**General Statistics**							
283					Total Number of Observations	12					Number of Distinct Observations	12
284											Number of Missing Observations	0
285					Minimum	52					Mean	1221
286					Maximum	3290					Median	1055
287					SD	1149					Std. Error of Mean	331.6
288					Coefficient of Variation	0.941					Skewness	0.856
289												
290					**Normal GOF Test**							
291					Shapiro Wilk Test Statistic	0.854	**Shapiro Wilk GOF Test**					
292					5% Shapiro Wilk Critical Value	0.859	Data Not Normal at 5% Significance Level					
293					Lilliefors Test Statistic	0.198	**Lilliefors GOF Test**					
294					5% Lilliefors Critical Value	0.243	Data appear Normal at 5% Significance Level					
295	**Data appear Approximate Normal at 5% Significance Level**											
296												
297					**Assuming Normal Distribution**							
298					**95% Normal UCL**		**95% UCLs (Adjusted for Skewness)**					
299					95% Student's-t UCL	1816					95% Adjusted-CLT UCL (Chen-1995)	1853
300											95% Modified-t UCL (Johnson-1978)	1830
301												
302					**Gamma GOF Test**							
303					A-D Test Statistic	0.323	**Anderson-Darling Gamma GOF Test**					
304					5% A-D Critical Value	0.758	Detected data appear Gamma Distributed at 5% Significance Level					
305					K-S Test Statistic	0.163	**Kolmogorov-Smirnov Gamma GOF Test**					
306					5% K-S Critical Value	0.253	Detected data appear Gamma Distributed at 5% Significance Level					
307	**Detected data appear Gamma Distributed at 5% Significance Level**											
308												
309					**Gamma Statistics**							
310					k hat (MLE)	0.975					k star (bias corrected MLE)	0.787
311					Theta hat (MLE)	1252					Theta star (bias corrected MLE)	1551
312					nu hat (MLE)	23.4					nu star (bias corrected)	18.89
313					MLE Mean (bias corrected)	1221					MLE Sd (bias corrected)	1376
314											Approximate Chi Square Value (0.05)	10.03
315					Adjusted Level of Significance	0.029					Adjusted Chi Square Value	9.064
316												
317					**Assuming Gamma Distribution**							
318					95% Approximate Gamma UCL (use when n>=50))	2297					95% Adjusted Gamma UCL (use when n<50)	2543

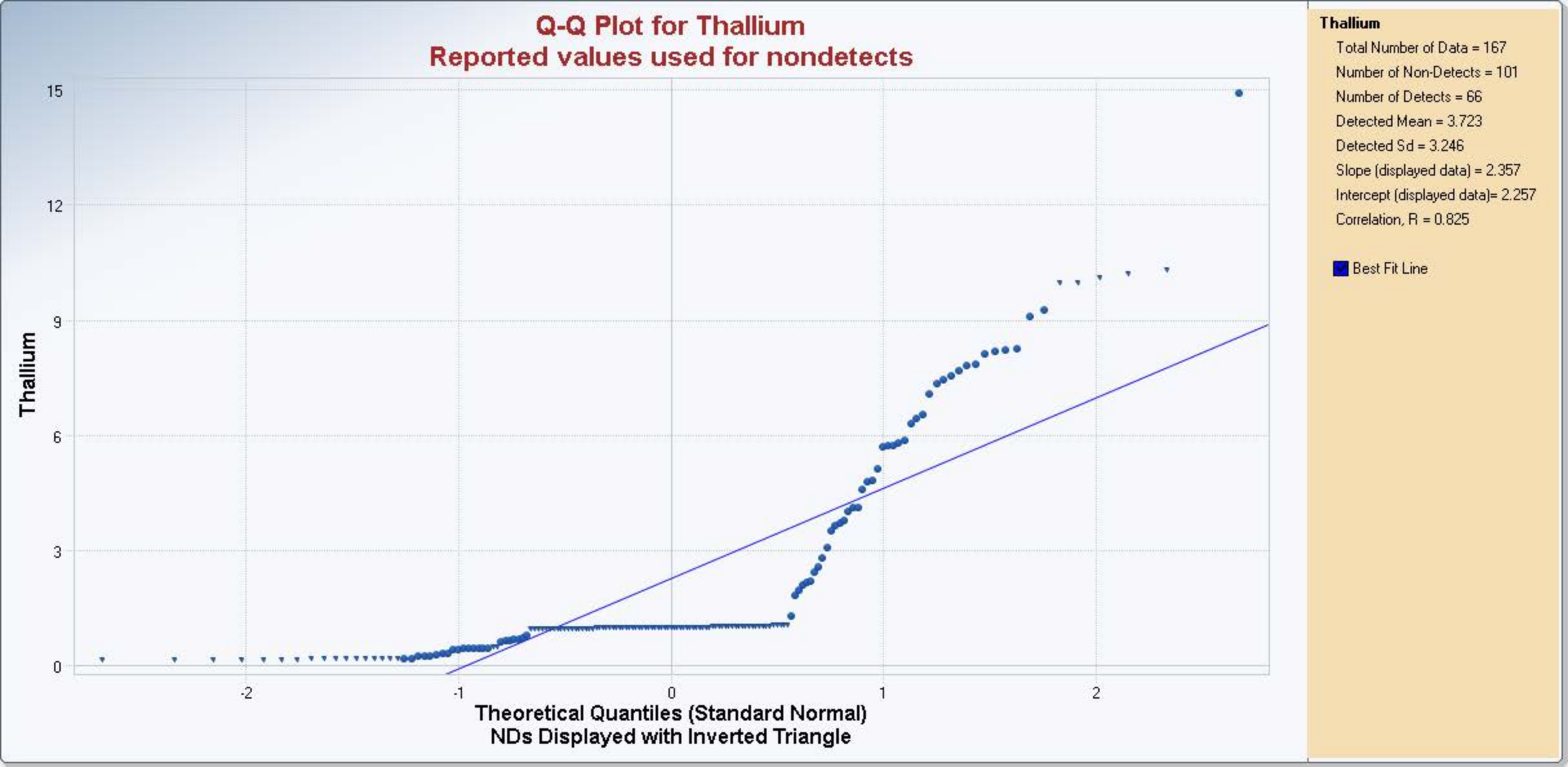
319												
320	**Lognormal GOF Test**											
321					Shapiro Wilk Test Statistic	0.93	**Shapiro Wilk Lognormal GOF Test**					
322					5% Shapiro Wilk Critical Value	0.859	Data appear Lognormal at 5% Significance Level					
323					Lilliefors Test Statistic	0.216	**Lilliefors Lognormal GOF Test**					
324					5% Lilliefors Critical Value	0.243	Data appear Lognormal at 5% Significance Level					
325	**Data appear Lognormal at 5% Significance Level**											
326												
327	**Lognormal Statistics**											
328					Minimum of Logged Data	3.951			Mean of logged Data	6.513		
329					Maximum of Logged Data	8.099			SD of logged Data	1.311		
330												
331	**Assuming Lognormal Distribution**											
332					95% H-UCL	6374			90% Chebyshev (MVUE) UCL	3179		
333					95% Chebyshev (MVUE) UCL	3975			97.5% Chebyshev (MVUE) UCL	5080		
334					99% Chebyshev (MVUE) UCL	7251						
335												
336	**Nonparametric Distribution Free UCL Statistics**											
337	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
338												
339	**Nonparametric Distribution Free UCLs**											
340					95% CLT UCL	1766			95% Jackknife UCL	1816		
341					95% Standard Bootstrap UCL	1736			95% Bootstrap-t UCL	1888		
342					95% Hall's Bootstrap UCL	1749			95% Percentile Bootstrap UCL	1755		
343					95% BCA Bootstrap UCL	1836						
344					90% Chebyshev(Mean, Sd) UCL	2215			95% Chebyshev(Mean, Sd) UCL	2666		
345					97.5% Chebyshev(Mean, Sd) UCL	3291			99% Chebyshev(Mean, Sd) UCL	4519		
346												
347	**Suggested UCL to Use**											
348					95% Student's-t UCL	1816						
349												
350	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
351	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
352												
353	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
354	Recommendations are based upon data size, data distribution, and skewness.											
355	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
356	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
357												

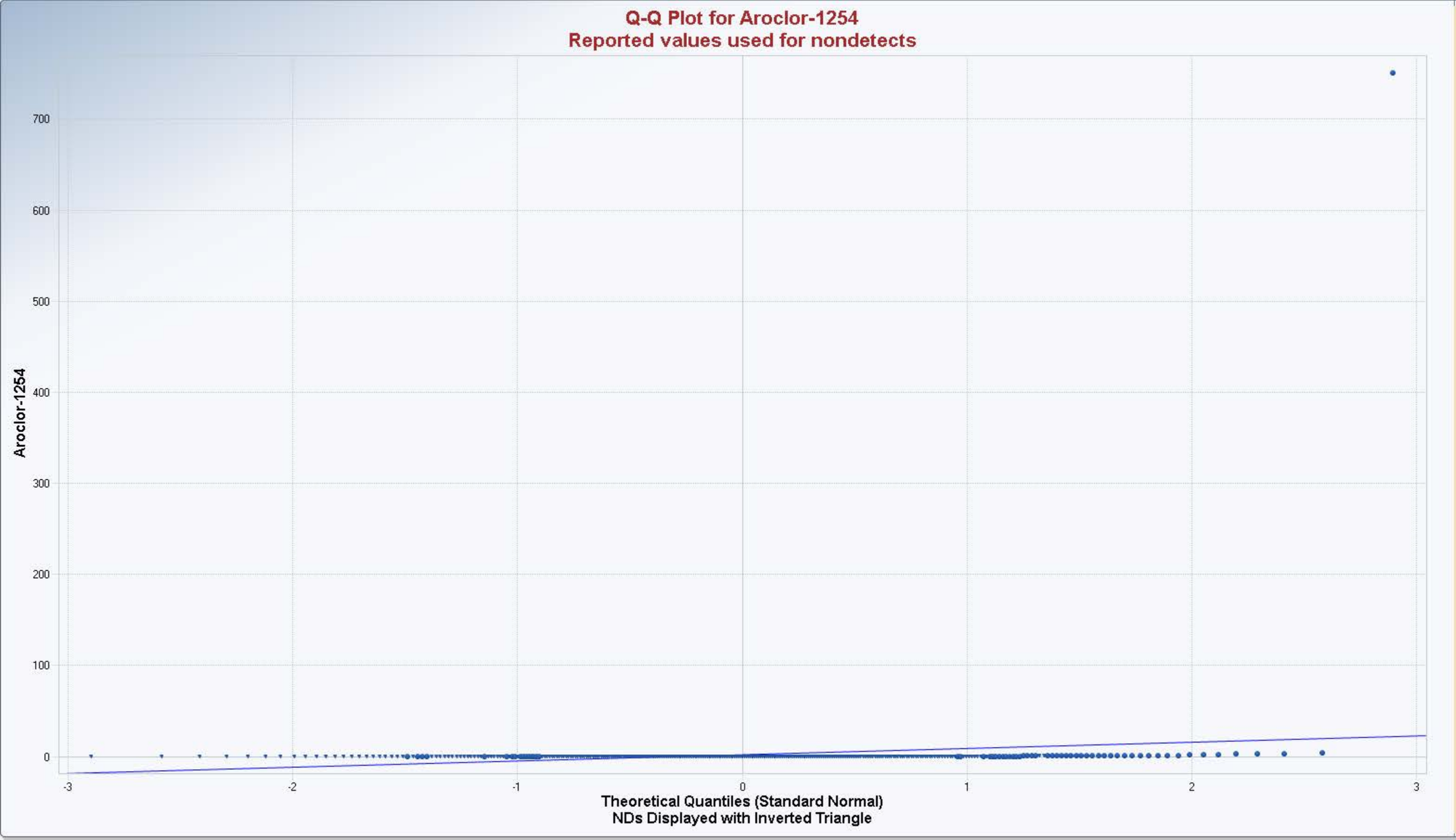
ATTACHMENT 3

Q-Q Plots – Thallium, Aroclor 1254, Lead and Arsenic


Q-Q Plot for Lead
Reported values used for nondetects
Lead
70
60
50
40
30
20
10
0
-2
-1
0
1
2
Theoretical Quantiles (Standard Normal)
NDs Displayed with Inverted Triangle
Lead
Total Number of Data = 238
Number of Non-Detects = 5
Number of Detects = 233
Detected Mean = 4.35
Detected Sd = 7.007
Slope (displayed data) = 4.657
Intercept (displayed data)= 4.262
Correlation, R = 0.666
Best Fit Line


Q-Q Plot for Arsenic
Reported values used for nondetects
Arsenic
12
10
8
6
4
2
0
-3
-2
-1
0
1
2
3
Theoretical Quantiles (Standard Normal)
NDs Displayed with Inverted Triangle
Arsenic
Total Number of Data = 336
Number of Non-Detects = 98
Number of Detects = 238
Detected Mean = 2.393
Detected Sd = 2.485
Slope (displayed data) = 1.842
Intercept (displayed data)= 2.003
Correlation, R = 0.829
Best Fit Line


Q-Q Plot for Thallium
Reported values used for nondetects
Thallium
15
12
9
6
3
0
-2
-1
0
1
2
Theoretical Quantiles (Standard Normal)
NDs Displayed with Inverted Triangle
Thallium
Total Number of Data = 167
Number of Non-Detects = 101
Number of Detects = 66
Detected Mean = 3.723
Detected Sd = 3.246
Slope (displayed data) = 2.357
Intercept (displayed data)= 2.257
Correlation, R = 0.825
Best Fit Line



Aroclor-1254

Total Number of Data = 330
Number of Non-Detects = 268
Number of Detects = 62
Detected Mean = 12.57
Detected Sd = 95.19
Slope (displayed data) = 6.83
Intercept (displayed data)= 2.398
Correlation, R = 0.165

Best Fit Line

ATTACHMENT 4

Summary of Samples Assigned to Exposure Units

Attachment 2 : Sampling Locations Included in Exposure Units
8996 Etiwanda Avenue, Rancho Cucamonga, California

Soil Vapor Sampling Locations	Depth	Location Area (AOI)	Exposure Unit
DT-1-5	5	1	EU1
DT-1-5-RERUN	5	1	EU1
DT-1-10	10	1	EU1
DT-2-5	5	1	EU1
DT-2-10	10	1	EU1
DT-3-5	5	1	EU1
DT-3-10	10	1	EU1
DT-4-5	5	1	EU1
DT-4-10	10	1	EU1
F5-1-5	5	5	EU1
F5-1-10	10	5	EU1
F5-2-5	5	5	EU1
F5-2-10	10	5	EU1
P-1-5	5	6	EU1
P-1-10	10	6	EU1
P-1B-20	20	6	EU1
P-1B-40	40	6	EU1
P-2-5	5	6	EU1
P-2-10	10	6	EU1
P-2-10-REP	10	6	EU1
P-3-5	5	6	EU1
P-3-10	10	6	EU1
P-4-5	5	6	EU1
P-4-10	10	6	EU1
P-5-5	5	6	EU1
P-5-20	20	6	EU1
P-5-20-REP	20	6	EU1
P-6-5	5	6	EU1
P-6-20	20	6	EU1
P-7-5	5	6	EU2
P-8-5	5	6	EU1
P-8-20	20	6	EU1
P-9-5	5	6	EU1
P-9-5R	5	6	EU1
P-9-20	20	6	EU1
F14-1-5	5	14	-
F14-1-10	10	14	-
F15-1-5	5	15	EU2
SS-1B-5	5	17	EU2
SS-1B-10	10	17	EU2
SS-1B-20	20	17	EU2
MS-10-5	5	17	EU2
MS-10R-5	5	17	EU2
MS-10-10	10	17	EU2
MS-10-20	20	17	EU2

Attachment 2 : Sampling Locations Included in Exposure Units
8996 Etiwanda Avenue, Rancho Cucamonga, California

Soil Vapor Sampling Locations	Depth	Location Area (AOI)	Exposure Unit
MS-10R-20	20	17	EU2
MS-11-5	5	17	EU2
MS-11-10	10	17	EU2
MS-11-20	20	17	EU2
MS-12-5	5	17	EU2
MS-12-10	10	17	EU2
MS-12-20	20	17	EU2
MS-13-5	5	17	EU2
MS-13R-5	5	17	EU2
MS-13-10	10	17	EU2
MS-13-10-REP	10	17	EU2
MS-13-20	20	17	EU2
MS-13R-20	20	17	EU2
MS-13B-35	35	17	EU2
MS-13B-50	50	17	EU2
MS-13R-46	46	17	EU2
MS-14-5	5	17	EU2
MS-14-10	10	17	EU2
MS-14-20	20	17	EU2
MS-15-5	5	17	EU2
MS-15-10	10	17	EU2
MS-15-20	20	17	EU2
MS-16-5	5	17	EU2
MS-16-10	10	17	EU2
MS-16-20	20	17	EU2
MS-16-20-REP	20	17	EU2
MS-17-5	5	17	EU2
MS-17R-5	5	17	EU2
MS-17-10	10	17	EU2
MS-17-20	20	17	EU2
MS-17R-20	20	17	EU2
MS-17B-40	40	17	EU2
MS-17R-40	40	17	EU2
MS-17B-60	60	17	EU2
MS-18-5	5	17	EU2
MS-18-10	10	17	EU2
MS-18-20	20	17	EU2
MS-19-5	5	17	EU2
MS-19-10	10	17	EU2
MS-19-20	20	17	EU2
MS-20-5	5	17	EU2
MS-20-10	10	17	EU2
MS-20-20	20	17	EU2
MS-21-5	5	17	EU2
MS-21-5R	5	17	EU2

Attachment 2 : Sampling Locations Included in Exposure Units
8996 Etiwanda Avenue, Rancho Cucamonga, California

Soil Vapor Sampling Locations	Depth	Location Area (AOI)	Exposure Unit
MS-21R-5	5	17	EU2
MS-21R-5REP	5	17	EU2
MS-21-20	20	17	EU2
MS-21R-20	20	17	EU2
MS-22-5	5	17	-
MS-22-20	20	17	-
MS-23-5	5	17	EU2
MS-23-5 REP	5	17	EU2
MS-23-20	20	17	EU2
MS-23B-40	40	17	EU2
MS-23B-40-REP	40	17	EU2
MS-23B-60	60	17	EU2
MS-23B-80	80	17	EU2
MS-23B-100	100	17	EU2
MS-23B-100-REP	100	17	EU2
MS-23C-125	125	17	-
MS-23C-150	150	17	-
MS-23C-175	175	17	-
MS-23C-200	200	17	-
MS-23D-250	250	17	-
MS-23D-250 REP	250	17	-
MS-23D-300	300	17	-
MS-23D-350	350	17	-
MS-23D-400	400	17	-
MS-24-5	5	17	-
MS-24-20	20	17	-
MS-25-5	5	17	-
MS-25-20	20	17	-
MS-26-5	5	17	EU2
MS-26R-5	5	17	EU2
MS-26-20	20	17	EU2
MS-26R-20	20	17	EU2
MS-27-5	5	17	EU2
MS-27-20	20	17	EU2
MS-28-5	5	17	-
MS-28-20	20	17	-
MS-29-5	5	17	EU2
MS-29-20	20	17	EU2
MS-30-5	5	17	EU2
MS-30-20	20	17	EU2
MS-31-5	5	17	-
MS-31-20	20	17	-
MS-32-5	5	17	EU2
MS-32-20	20	17	EU2
MS-32-20-REP	20	17	EU2

Attachment 2 : Sampling Locations Included in Exposure Units
8996 Etiwanda Avenue, Rancho Cucamonga, California

Soil Vapor Sampling Locations	Depth	Location Area (AOI)	Exposure Unit
SS-4-5	5	17	EU2
SS-4-10	10	17	EU2
SS-4-20	20	17	EU2
SS-5-5	5	17	EU2
SS-5-5-REP	10	17	EU2
SS-5-10	10	17	EU2
SS-5-20	20	17	EU2
SS-6-5	5	17	EU2
SS-6-10	10	17	EU2
SS-6-20	20	17	EU2
SS-7-5	5	17	EU2
SS-7-5-RERUN	5	17	EU2
SS-7-10	10	17	EU2
SS-7-20	20	17	EU2
SS-8-5	5	17	EU2
SS-8-10	10	17	EU2
SS-8-20	20	17	EU2
SS-9-5	5	17	EU2
SS-9-10	10	17	EU2
SS-9-20	20	17	EU2
SS-10-5	5	17	EU2
SS-10R-5	5	17	EU2
SS-10-10	10	17	EU2
SS-10-20	20	17	EU2
SS-10R-20	20	17	EU2
SS-11-5	5	17	EU2
SS-11-10	10	17	EU2
SS-11-20	20	17	EU2
SS-12-5	5	17	EU2
SS-12-5-RERUN	5	17	EU2
SS-12-5R	5	17	EU2
SS-12-10	10	17	EU2
SS-12-20	20	17	EU2
F36-1-5	5	36	EU2
F36-1-10	10	36	EU2
F36-2-5	5	36	EU2
F36-2-10	10	36	EU2
F36-3-5	5	36	-
F36-3-10	10	36	-
FHW-1	5	36	EU2
FHW-2	5	36	EU2
FHW-3	5	36	EU2
FHW-4	5	36	EU2
EHW-1	5	14	-
EHW-2	5	14	-

Attachment 2 : Sampling Locations Included in Exposure Units
8996 Etiwanda Avenue, Rancho Cucamonga, California

Soil Vapor Sampling Locations	Depth	Location Area (AOI)	Exposure Unit
MS-1	5	17	EU2
MS-2	5	17	EU2
MS-2 (DUP)	5	17	EU2
MS-3	5	17	EU2
MS-4	5	17	EU2
MS-5	5	17	EU2
MS-6	5	17	EU2
MS-7	5	17	EU2
MS-8SS	Sub Slab	17	EU2
MS-9SS	Sub Slab	17	EU2
SS-1	5	37	EU2
SS-2	5	37	EU2
SS-3	5	37	EU2
PFP-01	5.0	6	EU1
PFP-02	5.0	6	EU1
PFP-03	5.0	15	EU2
PFP-07	5.0	15	EU2
PFP-09	4.5	13	EU2
PFP-10	4.5	13	EU2

ATTACHMENT 5

EPA RSL Calculator Output – Construction Worker Screening Levels

Site-specific
Construction Worker Inputs

Variable	Construction Worker Soil - Other Default Value	Site-Specific Value
A (PEF Dispersion Constant)	2.4538	2.4538
A_{surf} (areal extent of site) m^2	2023.43	2023.43
A (VF Dispersion Constant)	2.4538	2.4538
B (PEF Dispersion Constant)	17.566	17.566
B (VF Dispersion Constant)	17.566	17.566
C (PEF Dispersion Constant)	189.0426	189.0426
C (VF Dispersion Constant)	189.0426	189.0426
DW_{con} (days worked - construction worker) days/week	5	5
EW_{con} (weeks worked - construction worker) weeks/year	50	50
F_D Unitless Dispersion Correction Factor	0.185837208	0.185837208
foc (fraction organic carbon in soil) g/g	0.006	0.006
F(x) (function dependant on U_m/U_t derived using Cowherd et al. (1985))	0.194	0.194
$M_{m\text{-}doz}$ (Gravimetric soil moisture content) %	7.9	7.9
$M_{m\text{-}excav}$ (Gravimetric soil moisture content) %	12	12
M_{wind} (dust emitted by wind erosion) g	8803.913546	8803.913546
$N_{A\text{-}dump}$ (number of times soil is dumped)	2	2
$N_{A\text{-}till}$ (number of times soil is tilled)	2	2
n (total soil porosity) L_{pore}/L_{soil}	0.43396	0.43396
p_b (dry soil bulk density) g/cm^3	1.5	1.5
p_b (dry soil bulk density - mass limit) g/cm^3	1.5	1.5
p_s (soil particle density) g/cm^3	2.65	2.65
Q/C_{sa} (g/m^2-s per kg/m^3)	14.31407	14.31407
Q/C_{vol} (g/m^2-s per kg/m^3)	14.31407	14.31407
Q/C_{sa} (g/m^2-s per kg/m^3)	14.31407	14.31407
p_{soil} (density) g/cm^3 - chemical-specific	1.68	1.68
A_s ($VF_{mlim\text{-}sc}$ acres)	0.5	0.5
A_s ($VF_{ulim\text{-}sc}$ acres)	0.5	0.5
s_{doz} (soil silt content) %	6.9	6.9
AF_{con} (skin adherence factor - construction worker) mg/cm^2	0.3	0.8
AT_{con} (averaging time - construction worker) days	365	365
$AT_{con\text{-}a}$ (averaging time - construction worker) days	350	350
BW_{con} (body weight - construction worker) kg	80	80
ED_{con} (exposure duration - construction worker) yr	1	1
EF_{con} (exposure frequency - construction worker) day/yr	250	250
ET_{con} (exposure time - construction worker) hr/day	8	8
THQ (target hazard quotient) unitless	0.1	1
IRS_{con} (soil ingestion rate - construction worker) mg/day	330	330
LT (lifetime) yr	70	70
SA_{con} (surface area - construction worker) cm^2/day	3527	6032
TR (target cancer risk) unitless	0.000001	0.000001
S_{doz} (dozing speed) kph	11.4	11.4
S_{grade} (dozing speed) kph	11.4	11.4
s_{till} (soil silt content) %	18	18
t_c (overall duration of construction) hours	8400	8400
T_c (overall duration of construction) s	30240000	30240000
$Theta_a$ (air-filled soil porosity) L_{air}/L_{soil}	0.28396	0.28396
$Theta_w$ (water-filled soil porosity) L_{water}/L_{soil}	0.15	0.15
T (time over which traffic occurs) s	7200000	7200000
T_t (overall duration of traffic) s	7200000	7200000
U_m (mean annual wind speed) m/s	4.69	4.69
U_t (equivalent threshold value) m/s	11.32	11.32
V (fraction of vegetative cover)	0	0

Output generated 21SEP2023:10:26:15

Site-specific

Construction Worker Risk-Based Regional Screening Levels (RSL) for Soil - Other Construction Activities

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; W = TEF applied; E = RPF applied; G = see user guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Subchronic toxicity values will be used where available. RfC and RfD references will be followed by either 'Chronic' or 'Subchronic' to indicate which toxicity value was used.

Chemical	CAS Number	Mutagen?	Volatile?	Chemical Type	SF_o (mg/kg-day)$^{-1}$	SF_o Ref	IUR (ug/m^3)$^{-1}$	IUR Ref	RfD (mg/kg-day)	RfD Ref	RfC (mg/m^3)	RfC Ref	GIABS	ABS	RBA	Soil Saturation Concentration (mg/kg)	S (mg/L)	K_{oc} (cm^3/g)	K_d (cm^3/g)	HLC (atm-m^3/mole)	Henry's Law Constant Used in Calcs (unitless)	H` and HLC Ref	Normal Boiling Point BP (K)	BP Ref	Critical Temperature T_C (K)	T_C Ref	Chemical Type	D_{ia} (cm^2/s)	D_{iw} (cm^2/s)	D_A (cm^2/s)	Particulate Emission Factor (m^3/kg)	Volatilization Factor UnlimitedReservoir (m^3/kg)	Volatilization Factor Mass Limit (m^3/kg)	Volatilization Factor Selected (m^3/kg)	Ingestion SL TR=1E-06 (mg/kg)	Dermal SL TR=1E-06 (mg/kg)
Acenaphthene	83-32-9	No	Yes	Organics	-		-		6.00E-02	U	2.40E-01	U	1.00E+00	1.30E-01	1.00E+00	-	3.90E+00	5.03E+03	3.02E+01	1.84E-04	7.52E-03	U	5.52E+02	U	8.03E+02	U	PAH	5.06E-02	8.33E-06	6.71E-07	1.00E+06	-	-	3.05E+04	-	-
Acenaphthylene	208-96-8	No	Yes	Organics	-		-		-		-		1.00E+00	1.30E-01	1.00E+00	-	1.61E+01	5.03E+03	3.02E+01	1.14E-04	4.66E-03	U	5.53E+02	U	7.92E+02	U	PAH	4.50E-02	6.98E-06	3.70E-07	1.00E+06	-	-	4.11E+04	-	-
Acetone	67-64-1	No	Yes	Organics	-		-		9.00E-01	U	-		1.00E+00	-	1.00E+00	1.14E+05	1.00E+06	2.36E+00	1.42E-02	3.50E-05	1.43E-03	U	3.29E+02	U	5.08E+02	U	VOC	1.06E-01	1.15E-05	7.13E-05	1.00E+06	-	-	2.96E+03	-	-
Antimony (metallic)	7440-36-0	No	No	Inorgani	-		-		4.00E-04	U	3.00E-04	U	1.50E-01	-	1.00E+00	-	-	-	4.50E+01	-	-		1.91E+03	U	5.07E+03	U	INORGANIC	-	-	-	1.00E+06	-	-	-	-	-
Aroclor 1254	11097-69-1	No	Yes	Organics	2.00E+00	U	5.70E-04	U	2.00E-05	U	8.00E-05	U	1.00E+00	1.40E-01	1.00E+00	-	4.30E-02	1.30E+05	7.80E+02	2.83E-04	1.16E-02	U	6.51E+02	U	9.57E+02	U	PCB	2.37E-02	6.10E-06	1.88E-08	1.00E+06	-	-	1.83E+05	1.24E+01	6.05E+00
Aroclor-1262	37324-23-5	No	No	Organics	2.00E+00	U	5.70E-04	U	2.00E-05	U	8.00E-05	U	-	-	-	-	-	-	-	-	-		-		-		PCB	-	-	-	1.00E+06	-	-	-	-	-
Aroclor-1268	11100-14-4	No	No	Organics	2.00E+00	U	5.70E-04	U	2.00E-05	U	8.00E-05	U	-	-	-	-	-	-	-	-	-		-		-		PCB	-	-	-	1.00E+06	-	-	-	-	-
Arsenic, Inorganic	7440-38	No	No	Inorgani	1.50E+00	U	4.30E-03	U	-		-		1.00E+00	3.00E-02	6.00E-01	-	-	-	2.90E+01	-	-		8.88E+02	U	1.67E+03	U	INORGANIC	-	-	-	1.00E+06	-	-	-	2.75E+01	3.77E+01
Barium	7440-39-3	No	No	Inorgani	-		-		2.00E-01	U	5.00E-04	U	7.00E-02	-	1.00E+00	-	-	-	4.10E+01	-	-		1.87E+03	U	3.57E+03	U	INORGANIC	-	-	-	1.00E+06	-	-	-	-	-
Benzene	71-43-2	No	Yes	Organics	1.00E-01	U	2.90E-05	U	4.00E-03	U	3.00E-03	U	1.00E+00	-	1.00E+00	1.82E+03	1.79E+03	1.46E+02	8.76E-01	5.55E-03	2.27E-01	U	3.53E+02	U	5.62E+02	U	VOC	8.95E-02	1.03E-05	1.06E-03	1.00E+06	-	-	7.68E+02	2.48E+02	-
Benzo(a)anthracene	56-55-3	No	No	Organics	1.00E-01	U	1.10E-04	U	-		-		-	-	-	-	-	-	-	-	-		-		-		PAH	-	-	-	1.00E+06	-	-	-	-	-
Benzo[a]pyrene	50-32-8	Yes	No	Organics	1.00E+00	U	1.10E-03	U	3.00E-04	U	2.00E-06	U	1.00E+00	1.30E-01	1.00E+00	-	1.62E-03	5.87E+05	-	4.57E-07	1.87E-05	U	7.68E+02	U	9.69E+02	U	PAH	2.55E-02	6.58E-06	-	1.00E+06	-	-	-	2.48E+01	1.30E+01
Benzo[b]fluoranthene	205-99-2	Yes	No	Organics	1.00E-01	U	1.10E-04	U	-		-		1.00E+00	1.30E-01	1.00E+00	-	1.50E-03	5.99E+05	-	6.57E-07	2.69E-05	U	7.16E+02	U	9.69E+02	U	PAH	2.50E-02	6.43E-06	-	1.00E+06	-	-	-	2.48E+02	1.30E+02
Benzo[g,h,i]perylene	191-24-2	No	No	Organics	-		-		-		-		1.00E+00	1.30E-01	1.00E+00	-	2.60E-04	1.95E+06	-	3.31E-07	1.35E-05	U	7.59E+02	U	1.09E+03	U	PAH	2.39E-02	6.09E-06	-	1.00E+06	-	-	-	-	-
Benzo[k]fluoranthene	207-08-9	Yes	No	Organics	1.00E-02	U	1.10E-04	U	-		-		1.00E+00	1.30E-01	1.00E+00	-	8.00E-04	5.87E+05	-	5.84E-07	2.39E-05	U	7.53E+02	U	1.02E+03	U	PAH	2.50E-02	6.43E-06	-	1.00E+06	-	-	-	2.48E+03	1.30E+03
Beryllium and compounds	7440-41-7	No	No	Inorgani	-		2.40E-03	U	2.00E-04	U	7.00E-06	U	7.00E-03	-	1.00E+00	-	-	-	7.90E+02	-	-		3.04E+03	U	5.20E+03	U	INORGANIC	-	-	-	1.00E+06	-	-	-	-	-
Butyl Alcohol, t-	75-65-0	No	Yes	Organics	5.00E-04	U	-		4.00E-01	U	5.00E+00	U	1.00E+00	-	1.00E+00	-	1.00E+06	2.11E+00	1.27E-02	9.05E-06	3.70E-04	U	3.56E+02	U	5.06E+02	U	VOC	8.90E-02	9.94E-06	1.61E-05	1.00E+06	-	-	6.23E+03	4.96E+04	-
Butyl Benzyl Phthalate	85-68-7	No	No	Organics	1.90E-03	U	-		2.00E-01	U	-		1.00E+00	1.00E-01	1.00E+00	-	2.69E+00	7.16E+03	-	1.26E-06	5.15E-05	U	6.43E+02	U	9.65E+02	U	SVOC	2.08E-02	5.17E-06	-	1.00E+06	-	-	-	1.30E+04	8.92E+03
Cadmium (Diet)	7440-43-9	No	No	Inorgani	-		1.80E-03	U	1.00E-04	U	1.00E-05	U	2.50E-02	1.00E-03	1.00E+00	-	-	-	7.50E+01	-	-		1.04E+03	U	2.29E+03	U	INORGANIC	-	-	-	1.00E+06	-	-	-	-	-
Carbon Disulfide	75-15-0	No	No	Organics	-		-		1.00E-01	U	7.00E-01	U	1.00E+00	-	1.00E+00	7.38E+02	2.16E+03	2.17E+01	1.30E-01	1.44E-02	5.89E-01	U	3.19E+02	U	5.52E+02	U	VOC	1.06E-01	1.30E-05	9.73E-03	1.00E+06	-	-	2.54E+02	-	-
Chromium, Total	16065-83-1	No	No	Inorgani	-		-		1.50E+00	U	-		1.30E-02	-	1.00E+00	-	-	-	1.80E+06	-	-		2.91E+03	U	8.56E+03	U	INORGANIC	-	-	-	1.00E+06	-	-	-	-	-
Chrysene	218-01-9	Yes	No	Organics	1.00E-03	U	1.10E-05	U	-		-		1.00E+00	1.30E-01	1.00E+00	-	2.00E-03	1.80E+05	-	5.23E-06	2.14E-04	U	7.21E+02	U	9.79E+02	U	PAH	2.61E-02	6.75E-06	-	1.00E+06	-	-	-	2.48E+04	1.30E+04
Cobalt	7440-48-4	No	No	Inorgani	-		9.00E-03	U	3.00E-04	U	6.00E-06	U	1.00E+00	-	1.00E+00	-	-	-	4.50E+01	-	-		3.20E+03	U	7.40E+03	U	INORGANIC	-	-	-	1.00E+06	-	-	-	-	-
Copper	7440-50-8	No	No	Inorgani	-		-		4.00E-02	U	-		1.00E+00	-	1.00E+00	-	-	-	3.50E+01	-	-		2.87E+03	U	5.12E+03	U	INORGANIC	-	-	-	1.00E+06	-	-	-	-	-
Dibenz[a,h]anthracene	53-70-3	Yes	No	Organics	4.10E+00	U	1.20E-03	U	-		-		1.00E+00	1.30E-01	1.00E+00	-	2.49E-03	1.91E+06	-	1.41E-07	5.76E-06	U	7.97E+02	U	9.90E+02	U	PAH	2.36E-02	6.02E-06	-	1.00E+06	-	-	-	6.04E+00	3.18E+00
Dichloroethane, 1,1-	75-34-3	No	Yes	Organics	5.70E-03	U	1.60E-06	U	2.00E-01	U	8.00E-01	U	1.00E+00	-	1.00E+00	1.68E+03	5.04E+03	3.18E+01	1.91E-01	5.62E-03	2.30E-01	U	3.31E+02	U	5.23E+02	U	VOC	8.36E-02	1.06E-05	3.06E-03	1.00E+06	-	-	4.52E+02	4.35E+03	-
Ethanol	64-17-5	No	Yes	Organics	-		-		-		-		1.00E+00	-	1.00E+00	1.06E+05	1.00E+06	1.04E+00	6.24E-03	5.00E-06	2.04E-04	U	3.51E+02	U	5.15E+02	U	VOC	1.24E-01	1.32E-05	1.35E-05	1.00E+06	-	-	6.81E+03	-	-
Ethylbenzene	100-41-4	No	Yes	Organics	1.10E-02	U	2.50E-06	U	5.00E-02	U	1.00E+00	U	1.00E+00	-	1.00E+00	4.79E+02	1.69E+02	4.46E+02	2.68E+00	7.88E-03	3.22E-01	U	4.09E+02	U	6.17E+02	U	VOC	6.85E-02	8.46E-06	4.14E-04	1.00E+06	-	-	1.23E+03	2.25E+03	-
Fluoranthene	206-44-0	No	No	Organics	-		-		4.00E-02	U	-		1.00E+00	1.30E-01	1.00E+00	-	2.60E-01	5.54E+04	-	8.86E-06	3.62E-04	U	6.57E+02	U	9.05E+02	U	PAH	2.76E-02	7.18E-06	-	1.00E+06	-	-	-	-	-
Fluorene	86-73-7	No	Yes	Organics	-		-		4.00E-02	U	1.60E-01	U	1.00E+00	1.30E-01	1.00E+00	-	1.69E+00	9.16E+03	5.50E+01	9.62E-05	3.93E-03	U	5.68E+02	U	8.26E+02	U	PAH	4.40E-02	7.89E-06	1.68E-07	1.00E+06	-	-	6.10E+04	-	-
Hexanone, 2-	591-78-6	No	Yes	Organics	-		-		5.00E-03	U	3.00E-02	U	1.00E+00	-	1.00E+00	3.28E+03	1.72E+04	1.50E+01	9.00E-02	9.32E-05	3.81E-03	U	4.01E+02	U	5.87E+02	U	VOC	7.04E-02	8.44E-06	7.52E-05	1.00E+06	-	-	2.88E+03	-	-
Indeno[1,2,3-cd]pyrene	193-39-5	Yes	No	Organics	1.00E-01	U	1.10E-04	U	-		-		1.00E+00	1.30E-01	1.00E+00	-	1.90E-04	1.95E+06	-	3.48E-07	1.42E-05	U	8.09E+02	U	1.08E+03	U	PAH	2.47E-02	6.37E-06	-	1.00E+06	-	-	-	2.48E+02	1.30E+02
Isopropyltoluene, p-	99-87-6	No	Yes	Organics	-		-		-		-		1.00E+00	-	1.00E+00	1.62E+02	2.34E+01	1.12E+03	6.72E+00	1.10E-02	4.50E-01	U	4.50E+02	U	6.54E+02	U	VOC	5.27E-02	7.32E-06	1.83E-04	1.00E+06	-	-	1.85E+03	-	-
Lead and Compounds	7439-92	No	No	Inorgani	-		-		-		-		1.00E+00	-	1.00E+00	-	-	-	9.00E+02	-	-		2.02E+03	U	5.40E+03	U	INORGANIC	-	-	-	1.00E+06	-	-	-	-	-
Mercury (elemental)	7439-97-6	No	No	Inorgani	-		-		1.60E-04	U	3.00E-05	U	1.00E+00	-	1.00E+00	3.13E+00	6.00E-02	-	5.20E+01	8.62E-03	3.52E-01	U	6.30E+02	U	1.76E+03	U	INORGANIC	3.07E-02	6.30E-06	1.11E-05	1.00E+06	-	-	7.53E+03	-	-
Methyl Ethyl Ketone (2-Butanone)	78-93-3	No	Yes	Organics	-		-		6.00E-01	U	5.00E+00	U	1.00E+00	-	1.00E+00	2.84E+04	2.23E+05	4.51E+00	2.71E-02	5.69E-05	2.33E-03	U	3.53E+02	U	5.37E+02	U	VOC	9.14E-02	1.02E-05	8.94E-05	1.00E+06	-	-	2.65E+03	-	-
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	No	Yes	Organics	-		-		-		3.00E+00	U	1.00E+00	-	1.00E+00	3.36E+03	1.90E+04	1.26E+01	7.56E-02	1.38E-04	5.64E-03	U	3.89E+02	U	5.75E+02	U	VOC	6.98E-02	8.35E-06	1.19E-04	1.00E+06	-	-	2.29E+03	-	-
Methylnaphthalene, 1-	90-12-0	No	Yes	Organics	2.90E-02	U	7.25E-06	U	7.00E-02	U	2.80E-01	U	1.00E+00	1.30E-01	1.00E+00	3.94E+02	2.58E+01	2.53E+03	1.52E+01	5.14E-04	2.10E-02	U	5.18E+02	U	7.71E+02	U	PAH	5.28E-02	7.85E-06	3.87E-06	1.00E+06	-	-	1.27E+04	8.54E+02	4.49E+02
Methylnaphthalene, 2-	91-57-6	No	Yes	Organics	-		-		4.00E-03	U	1.60E-02	U	1.00E+00	1.30E-01	1.00E+00	-	2.46E+01	2.48E+03	1.49E+01	5.18E-04	2.12E-02	U	5.14E+02	U	7.61E+02	U	PAH	5.24E-02	7.78E-06	3.95E-06	1.00E+06	-	-	1.26E+04	-	-
Molybdenum	7439-98-7	No	No	Inorgani	-		-		5.00E-03	U	2.00E-03	U	1.00E+00	-	1.00E+00	-	-	-	2.00E+01	-	-		4.91E+03	U	9.62E+03	U	INORGANIC	-	-	-	1.00E+06	-	-	-	-	-
Naphthalene	91-20-3	No	Yes	Organics	1.20E-01	U	3.40E-05	U	2.00E-02	U	3.00E-03	U	1.00E+00	1.30E-01	1.00E+00	-	3.10E+01	1.54E+03	9.24E+00	4.40E-04	1.80E-02	U	4.91E+02	U	7.48E+02	U	PAH	6.05E-02	8.38E-06	6.21E-06	1.00E+06	-	-	1.00E+04	2.06E+02	1.09E+02
Nickel Soluble Salts	7440-02-0	No	No	Inorgani	-		2.60E-04	U	1.10E-02	U	1.40E-05	U	4.00E-02	-	1.00E+00	-	-	-	6.50E+01	-	-		3.18E+03	U	6.99E+03	U	INORGANIC	-	-	-	1.00E+06	-	-	-	-	-
Petroleum-diesel	TPH Diesel C13-C22	No	No	Organics	-		-		1.93E-02	U	2.55E-01	U	-	-	-	-	-	-	-	-	-		-		-		BTEX	-	-	-	1.00E+06	-	-	-	-	-
Petroleum-gasoline	Gasoline C4-C12	No	No	Organics	-		-		3.88E-02	U	5.71E-01	U	-	-	-	-	-	-	-	-	-		-		-		BTEX	-	-	-	1.00E+06	-	-	-	-	-
Petroleum-motoroil	Oil C23-C32	No	No	Organics	-		-		1.54E-01	U	-		-	-	-	-	-	-	-	-	-		-		-		BTEX	-	-	-	1.00E+06	-	-	-	-	-
Polychlorinated Biphenyls (high risk)	1336-36	No	Yes	Organics	2.00E+00	U	5.71E-04	U	-		-		1.00E+00	1.40E-01	1.00E+00	-	7.00E-01	7.81E+04	4.69E+02	4.15E-04	1.70E-02	U	6.33E+02	U	-		PCB	2.43E-02	6.27E-06	4.69E-08	1.00E+06	-	-	1.15E+05	1.24E+01	6.05E+00
Pyrene	129-00-0	No	Yes	Organics	-		-		3.00E-02	U	1.20E-01	U	1.00E+00	1.30E-01	1.00E+00	-	1.35E-01	5.43E+04	3.26E+02	1.19E-05	4.87E-04	U	6.77E+02	U	9.36E+02	U	PAH	2.78E-02	7.25E-06	2.35E-09	1.00E+06	-	-	5.16E+05	-	-
Selenium	7782-49-2	No	No	Inorgani	-		-		5.00E-03	U	2.00E-02	U	1.00E+00	-	1.00E+00	-	-	-	5.00E+00	-	-		9.58E+02	U	1.77E+03	U	INORGANIC	-	-	-	1.00E+06	-	-	-	-	-
Silver	7440-22-4	No	No	Inorgani	-		-		5.00E-03	U	-		4.00E-02	-	1.00E+00	-	-	-	8.30E+00	-	-		2.27E+03	U	6.41E+03	U	INORGANIC	-	-	-	1.00E+06	-	-	-	-	-
Thallium (Soluble Salts)	7440-28-0	No	No	Inorgani	-		-		1.00E-05	U	-		1.00E+00	-	1.00E+00	-	-	-	7.10E+01	-	-		1.73E+03	U	4.65E+03	U	INORGANIC	-	-	-	1.00E+06	-	-	-	-	-
Toluene	108-88-3	No	Yes	Organics	-		-		8.00E-02	U	3.00E-01	U	1.00E+00	-	1.00E+00	8.18E+02	5.26E+02	2.34E+02	1.40E+00	6.64E-03	2.71E-01	U	3.84E+02	U	5.92E+02	U	VOC	7.78E-02	9.20E-06	7.23E-04	1.00E+06	-	-	9.30E+02	-	-
Vanadium and Compounds	7440-62-2	No	No	Inorgani	-		-		5.00E-03	U	1.00E-04	U	2.60E-02	-	1.00E+00	-	-	-	1.00E+03	-	-		3.68E+03	U	1.13E+04	U	INORGANIC	-	-	-	1.00E+06	-	-	-	-	-
Xylenes	1330-20-7	No	Yes	Organics	-		-		2.00E-01	U	1.00E-01	U	1.00E+00	-	1.00E+00	2.60E+02	1.06E+02	3.83E+02	2.30E+00	6.63E-03	2.71E-01	U	4.11E+02	U	6.20E+02	U	VOC	6.85E-02	8.46E-06	4.04E-04	1.00E+06	-	-	1.24E+03	-	-
Zinc and Compounds	7440-66-6	No	No	Inorgani	-		-		3.00E-01	U	-		1.00E+00	-	1.00E+00	-	-	-	6.20E+01	-	-		1.18E+03	U	3.17E+03	U	INORGANIC	-	-	-	1.00E+06	-	-	-	-	-

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Phenanthrene 85-01-8

Site-specific

Construction Worker Risk-Based Re

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C =

Subchronic toxicity values will be used where available. R

Chemical	CAS Number	Inhalation SL TR=1E-06 (mg/kg)	Carcinogenic SL TR=1E-06 (mg/kg)	Ingestion SL THQ=1 (mg/kg)	Dermal SL THQ=1 (mg/kg)	Inhalation SL THQ=1 (mg/kg)	Noncarcinogenic SL THI=1 (mg/kg)	Screening Level (mg/kg)	CW Soil Screening Level Cancer	CW Soil Screening Level Non-Cancer
Acenaphthene	83-32-9	-	-	2.04E+04	1.07E+04	2.99E+04	5.68E+03	5.68E+03 nc	NS	5680
Acenaphthylene	208-96-8	-	-	-	-	-	-		NS	NS
Acetone	67-64-1	-	-	3.05E+05	-	-	3.05E+05	3.05E+05 nc sat max	NS	305000
Antimony (metallic)	7440-36-0	-	-	1.36E+02	-	1.26E+03	1.23E+02	1.23E+02 nc	NS	123
Aroclor 1254	11097-69-1	8.30E+01	3.88E+00	6.79E+00	3.32E+00	5.19E+01	2.14E+00	2.14E+00 nc	3.88	2.14
Aroclor-1262	37324-23-5	5.38E+02	5.38E+02	-	-	3.36E+02	3.36E+02	3.36E+02 nc	538	336
Aroclor-1268	11100-14-4	5.38E+02	5.38E+02	-	-	3.36E+02	3.36E+02	3.36E+02 nc	538	336
Arsenic, Inorganic	7440-38	7.13E+01	1.30E+01	-	-	-	-	1.30E+01 ca	13	NS
Barium	7440-39-3	-	-	6.79E+04	-	2.10E+03	2.04E+03	2.04E+03 nc	NS	2040
Benzene	71-43-2	8.11E+00	7.85E+00	1.36E+03	-	9.67E+00	9.60E+00	7.85E+00 ca**	7.85	9.6
Benzo(a)anthracene	56-55-3	2.79E+03	2.79E+03	-	-	-	-	2.79E+03 ca	2790	NS
Benzo[a]pyrene	50-32-8	2.79E+02	8.29E+00	1.02E+02	5.36E+01	8.40E+00	6.78E+00	6.78E+00 nc	8.29	6.78
Benzo[b]fluoranthene	205-99-2	2.79E+03	8.29E+01	-	-	-	-	8.29E+01 ca	82.9	NS
Benzo[g,h,i]perylene	191-24-2	-	-	-	-	-	-		NS	NS
Benzo[k]fluoranthene	207-08-9	2.79E+03	6.54E+02	-	-	-	-	6.54E+02 ca	654	NS
Beryllium and compounds	7440-41-7	1.28E+02	1.28E+02	6.79E+01	-	2.94E+01	2.05E+01	2.05E+01 nc	128	20.5
Butyl Alcohol, t-	75-65-0	-	4.96E+04	1.36E+05	-	1.30E+05	6.64E+04	4.96E+04 ca**	49600	66400
Butyl Benzyl Phthalate	85-68-7	-	5.30E+03	6.79E+04	4.64E+04	-	2.76E+04	5.30E+03 ca**	5300	27600
Cadmium (Diet)	7440-43-9	1.70E+02	1.70E+02	3.39E+01	5.80E+01	4.20E+01	1.42E+01	1.42E+01 nc	170	14.2
Carbon Disulfide	75-15-0	-	-	3.39E+04	-	7.45E+02	7.29E+02	7.29E+02 nc	NS	729
Chromium, Total	16065-83-1	-	-	5.09E+05	-	-	5.09E+05	5.09E+05 nc max	NS	509000
Chrysene	218-01-9	2.79E+04	6.54E+03	-	-	-	-	6.54E+03 ca	6540	NS
Cobalt	7440-48-4	3.41E+01	3.41E+01	1.02E+02	-	2.52E+01	2.02E+01	2.02E+01 nc	34.1	20.2
Copper	7440-50-8	-	-	1.36E+04	-	-	1.36E+04	1.36E+04 nc	NS	13600
Dibenz[a,h]anthracene	53-70-3	2.56E+02	2.07E+00	-	-	-	-	2.07E+00 ca	2.07	NS
Dichloroethane, 1,1-	75-34-3	8.66E+01	8.49E+01	6.79E+04	-	1.52E+03	1.49E+03	8.49E+01 ca*	84.9	1490
Ethanol	64-17-5	-	-	-	-	-	-		NS	NS
Ethylbenzene	100-41-4	1.51E+02	1.41E+02	1.70E+04	-	5.16E+03	3.95E+03	1.41E+02 ca*	141	3950
Fluoranthene	206-44-0	-	-	1.36E+04	7.14E+03	-	4.68E+03	4.68E+03 nc	NS	4680
Fluorene	86-73-7	-	-	1.36E+04	7.14E+03	3.86E+04	4.17E+03	4.17E+03 nc	NS	4170
Hexanone, 2-	591-78-6	-	-	1.70E+03	-	3.62E+02	2.99E+02	2.99E+02 nc	NS	299
Indeno[1,2,3-cd]pyrene	193-39-5	2.79E+03	8.29E+01	-	-	-	-	8.29E+01 ca	82.9	NS
Isopropyltoluene, p-	99-87-6	-	-	-	-	-	-		NS	NS
Lead and Compounds	7439-92	-	-	-	-	-	-		NS	NS
Mercury (elemental)	7439-97-6	-	-	5.43E+01	-	9.41E-01	9.25E-01	9.25E-01 nc	NS	0.925
Methyl Ethyl Ketone (2-Butanone)	78-93-3	-	-	2.04E+05	-	5.54E+04	4.36E+04	4.36E+04 nc sat	NS	43600
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	-	-	-	-	2.88E+04	2.88E+04	2.88E+04 nc sat	NS	28800
Methylnaphthalene, 1-	90-12-0	5.31E+02	1.89E+02	2.38E+04	1.25E+04	1.48E+04	5.27E+03	1.89E+02 ca*	189	5270
Methylnaphthalene, 2-	91-57-6	-	-	1.36E+03	7.14E+02	8.36E+02	3.00E+02	3.00E+02 nc	NS	300
Molybdenum	7439-98-7	-	-	1.70E+03	-	8.40E+03	1.41E+03	1.41E+03 nc	NS	1410
Naphthalene	91-20-3	8.96E+01	3.97E+01	6.79E+03	3.57E+03	1.25E+02	1.19E+02	3.97E+01 ca**	39.7	119
Nickel Soluble Salts	7440-02-0	1.18E+03	1.18E+03	3.73E+03	-	5.88E+01	5.79E+01	5.79E+01 nc	1180	57.9
Petroleum-diesel	TPH Diesel C13-C22	-	-	-	-	1.07E+06	1.07E+06	1.07E+06 nc max	NS	1070000
Petroleum-gasoline	Gasoline C4-C12	-	-	-	-	2.40E+06	2.40E+06	2.40E+06 nc max	NS	2400000
Petroleum-motoroil	Oil C23-C32	-	-	-	-	-	-		NS	NS
Polychlorinated Biphenyls (high risk)	1336-36	5.56E+01	3.79E+00	-	-	-	-	3.79E+00 ca	3.79	NS
Pyrene	129-00-0	-	-	1.02E+04	5.36E+03	1.72E+05	3.44E+03	3.44E+03 nc	NS	3440
Selenium	7782-49-2	-	-	1.70E+03	-	8.40E+04	1.66E+03	1.66E+03 nc	NS	1660
Silver	7440-22-4	-	-	1.70E+03	-	-	1.70E+03	1.70E+03 nc	NS	1700
Thallium (Soluble Salts)	7440-28-0	-	-	3.39E+00	-	-	3.39E+00	3.39E+00 nc	NS	3.39
Toluene	108-88-3	-	-	2.72E+04	-	1.17E+03	1.12E+03	1.12E+03 nc sat	NS	1120
Vanadium and Compounds	7440-62-2	-	-	1.70E+03	-	4.20E+02	3.37E+02	3.37E+02 nc	NS	337
Xylenes	1330-20-7	-	-	6.79E+04	-	5.22E+02	5.18E+02	5.18E+02 nc sat	NS	518
Zinc and Compounds	7440-66-6	-	-	1.02E+05	-	-	1.02E+05	1.02E+05 nc max	NS	102000

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Phenanthrene	85-01-8		-				-		NS	NS

NS NS

Site-specific
Construction Worker Inputs

Variable	Construction Worker Soil - Other Default Value	Site-Specific Value
A (PEF Dispersion Constant)	2.4538	2.4538
A_{surf} (areal extent of site) m^2	2023.43	2023.43
A (VF Dispersion Constant)	2.4538	2.4538
B (PEF Dispersion Constant)	17.566	17.566
B (VF Dispersion Constant)	17.566	17.566
C (PEF Dispersion Constant)	189.0426	189.0426
C (VF Dispersion Constant)	189.0426	189.0426
DW_{con} (days worked - construction worker) days/week	5	5
EW_{con} (weeks worked - construction worker) weeks/year	50	50
F_D Unitless Dispersion Correction Factor	0.185837208	0.185837208
foc (fraction organic carbon in soil) g/g	0.006	0.006
F(x) (function dependant on U_m/U_t derived using Cowherd et al. (1985))	0.194	0.194
$M_{m\text{-}doz}$ (Gravimetric soil moisture content) %	7.9	7.9
$M_{m\text{-}excav}$ (Gravimetric soil moisture content) %	12	12
M_{wind} (dust emitted by wind erosion) g	8803.913546	8803.913546
$N_{A\text{-}dump}$ (number of times soil is dumped)	2	2
$N_{A\text{-}till}$ (number of times soil is tilled)	2	2
n (total soil porosity) L_{pore}/L_{soil}	0.43396	0.43396
p_b (dry soil bulk density) g/cm^3	1.5	1.5
p_b (dry soil bulk density - mass limit) g/cm^3	1.5	1.5
p_s (soil particle density) g/cm^3	2.65	2.65
Q/C_{sa} (g/m^2-s per kg/m^3)	14.31407	14.31407
Q/C_{vol} (g/m^2-s per kg/m^3)	14.31407	14.31407
Q/C_{sa} (g/m^2-s per kg/m^3)	14.31407	14.31407
p_{soil} (density) g/cm^3 - chemical-specific	1.68	1.68
A_s ($VF_{mlim\text{-}sc}$ acres)	0.5	0.5
A_s ($VF_{ulim\text{-}sc}$ acres)	0.5	0.5
s_{doz} (soil silt content) %	6.9	6.9
AF_{con} (skin adherence factor - construction worker) mg/cm^2	0.3	0.8
AT_{con} (averaging time - construction worker) days	365	365
$AT_{con\text{-}a}$ (averaging time - construction worker) days	350	350
BW_{con} (body weight - construction worker) kg	80	80
ED_{con} (exposure duration - construction worker) yr	1	1
EF_{con} (exposure frequency - construction worker) day/yr	250	250
ET_{con} (exposure time - construction worker) hr/day	8	8
THQ (target hazard quotient) unitless	0.1	1
IRS_{con} (soil ingestion rate - construction worker) mg/day	330	330
LT (lifetime) yr	70	70
SA_{con} (surface area - construction worker) cm^2/day	3527	6032
TR (target cancer risk) unitless	0.000001	0.000001
S_{doz} (dozing speed) kph	11.4	11.4
S_{grade} (grading speed) kph	11.4	11.4
s_{till} (soil silt content) %	18	18
t_c (overall duration of construction) hours	8400	8400
T_c (overall duration of construction) s	30240000	30240000
$Theta_a$ (air-filled soil porosity) L_{air}/L_{soil}	0.28396	0.28396
$Theta_w$ (water-filled soil porosity) L_{water}/L_{soil}	0.15	0.15
T (time over which traffic occurs) s	7200000	7200000
T_t (overall duration of traffic) s	7200000	7200000
U_m (mean annual wind speed) m/s	4.69	4.69
U_t (equivalent threshold value) m/s	11.32	11.32
V (fraction of vegetative cover)	0	0

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Site-specific

Construction Worker Risk-Based Regional Screening Levels (RSL) for Soil - Other Construction Activities

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; R = ORD; N = WI; W = TEF applied; E = RPF applied; G = see user guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values a
Subchronic toxicity values will be used where available. RfC and RfD references will be followed by either 'Chronic' or 'Subchronic' to indicate which toxicity value was used.

Chemical	CAS Number	Mutagen?	Volatile?	Chemical Type	SF_o(mg/kg-day)$^{-1}$	SF_oRef	IUR (ug/m^3)$^{-1}$	IUR Ref	RfD (mg/kg-day)	RfD Ref	RfC (mg/m^3)	RfC Ref	GIABS	ABS	RBA	Soil Saturation Concentration (mg/kg)	S (mg/L)	K_{oc} (cm^3/g)	K_d (cm^3/g)	HLC (atm-m^3/mole)	Henry's Law Constant Used in Calcs (unitless)	H` and HLC Ref	Normal Boiling Point BP (K)	BP Ref
Aroclor 1248	12672-29-6	No	Yes	Organics	2.00E+00	U	5.70E-04	U	2.00E-05	U	8.00E-05	U	1.00E+00	1.40E-01	1.00E+00	-	1.00E-01	7.65E+04	4.59E+02	4.40E-04	1.80E-02	U	6.13E+02	U
Aroclor 1260	11096-82-5	No	Yes	Organics	2.00E+00	U	5.70E-04	U	2.00E-05	U	8.00E-05	U	1.00E+00	1.40E-01	1.00E+00	-	1.44E-02	3.50E+05	2.10E+03	3.36E-04	1.37E-02	U	6.89E+02	U

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ıre based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Critical Temperature T_C (K)	T_C Ref	Chemical Type	D_{ia} (cm^2/s)	D_{iw} (cm^2/s)	D_A (cm^2/s)	Particulate Emission Factor (m^3/kg)	Volatilization Factor Unlimited Reservoir (m^3/kg)	Volatilization Factor Mass Limit (m^3/kg)	Volatilization Factor Selected (m^3/kg)	Ingestion SL TR=1E-06 (mg/kg)	Dermal SL TR=1E-06 (mg/kg)	Inhalation SL TR=1E-06 (mg/kg)	Carcinogenic SL TR=1E-06 (mg/kg)	Ingestion SL THQ=1 (mg/kg)	Dermal SL THQ=1 (mg/kg)	Inhalation SL THQ=1 (mg/kg)	Noncarcinogenic SL THI=1 (mg/kg)	Screening Level (mg/kg)
9.20E+02	U	PCB	2.41E-02	6.18E-06	5.04E-08	1.00E+06	1.11E+05	-	1.11E+05	1.24E+01	6.05E+00	5.39E+01	3.78E+00	6.79E+00	3.32E+00	3.37E+01	2.09E+00	2.09E+00 nc
9.87E+02	U	PCB	2.20E-02	5.61E-06	7.68E-09	1.00E+06	2.85E+05	-	2.85E+05	1.24E+01	6.05E+00	1.19E+02	3.93E+00	6.79E+00	3.32E+00	7.46E+01	2.16E+00	2.16E+00 nc

ATTACHMENT 6

DTSC's Lead Risk Assessment Spreadsheet

LeadSpread 9- LEAD RISK ASSESSMENT SPREADSHEET
CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL

USERS GUIDE to Leadspread Version 9

INPUT

MEDIUM	LEVEL
Lead in Soil/Dust (µg/g)	8
Respirable Dust (µg/cubic m)	1.5

EXPOSURE PARAMETERS

Parameter	units	adults	children
Days per week	days/wk	7	
Days per week, occupational	-	5	
Geometric Standard Deviation	-	1.6	
Blood lead level of concern	(µg/dl)	1.1	1
Skin area, residential	square cm	6032	2373
Skin area occupational	square cm	6032	
Soil adherence	µg/square cm	70	200
Dermal uptake constant	(µg/dl)/(µg/day)	0.00027	0.00048
Soil ingestion	mg/day	30	80
Soil ingestion, pica	mg/day		1000
Ingestion constant	(µg/dl)/(µg/day)	0.09	0.16
Bioavailability	unitless	0.6	
Breathing rate	cubic meter/day	20	10
Inhalation constant	(µg/dl)/(µg/day)	0.082	0.192

Click here for REFERENCES

OUTPUT

ENDPOINT and RECEPTOR	50th Percentile Change in Blood Pb (µg/dl)	90th Percentile Change in Blood Pb (µg/dl)	95th Percentile Change in Blood Pb (µg/dl)	PRG-90 (µg/g)	PRG-95 (µg/g)
BLOOD Pb, ADULT	0.01	0.02	0.03	356	301
BLOOD Pb, CHILD	0.1	0.1	0.1	70	59
BLOOD Pb, PICA CHILD	0.7	1.3	1.6	6	5
BLOOD Pb, OCCUPATIONAL	0.0	0.0	0.0	499	421

PATHWAYS

ADULTS	Residential Pathway Contribution	Residential Pathway Contribution	Residential Pathway Contribution	Occupational Pathway contribution	Occupational Pathway contribution	Occupational Pathway contribution
Pathway	PEF*	µg/dl	percent	PEF	µg/dl	percent
Soil Contact	6.8E-5	0.00	4%	4.9E-5	0.00	4%
Soil Ingestion	1.6E-3	0.01	96%	1.2E-3	0.01	96%
Inhalation	2.5E-6	0.00	0.1%	1.8E-6	0.00	0.1%

CHILDREN	Typical Pathway contribution	Typical Pathway contribution	Typical Pathway contribution	with pica Pathway contribution	with pica Pathway contribution	with pica Pathway contribution
Pathway	PEF*	µg/dl	percent	PEF	µg/dl	percent
Soil Contact	1.4E-4	0.00	1.7%		0.00	0.1%
Soil Ingestion	7.7E-3	0.06	98%	9.6E-2	0.73	100%
Inhalation	2.9E-6	0.00	0.0%		0.00	0.0%

Click here for Equations

*Pathway Exposure Factor