**Bradley Rogers**
Operations Lead, US West, Chevron Environmental Management and Real Estate Company

August 31, 2021

Mr. Noel Liner

Ms. Dilan Roe
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94607

Attached for your review is the *Corrective Action Implementation Plan* for:

Former Signal Oil Station No. 206145 and Adjacent Parcels
800 Center Street
Oakland, CA 94603
ACDEH Case No. RO0000454 and No. RO0003272

I declare under penalty of perjury that the information and/or recommendations contained in the attached report are true and correct, to the best of my knowledge.

If you should have any further questions, please do not hesitate to contact me at (510) 242-9700.

Sincerely,

Bradley Rogers
Operations Lead, US West

Chevron Environmental Management and Real Estate Company
940 Hensley Street, Richmond, CA 94801
Tel 510 242 9700 Mobile 714 504 4792
BRogers@chevron.com

ARCADIS Design & Consultancy for natural and built assets

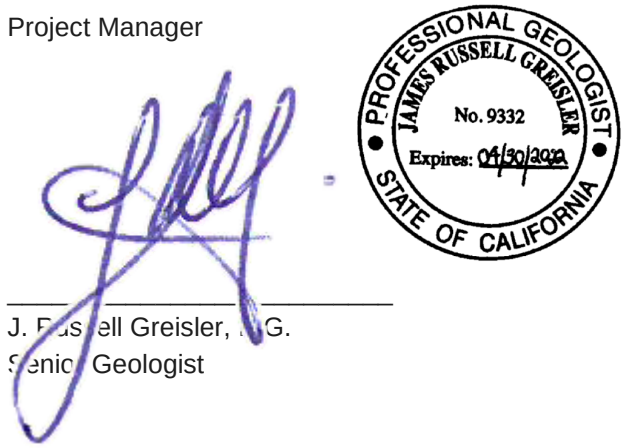
Chevron Environmental Management Company

# CORRECTIVE ACTION IMPLEMENTATION PLAN (REVISION 1)

Former Signal Oil Station No. 206145 and Adjacent Parcels
800 Center Street, Oakland, California
ACDEH Case Nos. RO0000454 & RO0003272

August 31, 2021

Ross LaGrandeur
Project Manager




J. Russell Greisler, P.G.
Senior Geologist

# CORRECTIVE ACTION IMPLEMENTATION PLAN (REVISION 1)

Former Signal Oil Station
No. 206145 and Adjacent Parcels
800 Center Street
Oakland, California
ACDEH Case Nos. RO0000454 & RO0003272

Prepared for:

Chevron Environmental Management Company

Prepared by:

Arcadis U.S., Inc.
2300 Clayton Road
Suite 400
Concord
California 94519
Tel 925 296 7850

Our Ref.:
30045659

Date:
August 31, 2021

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# ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| AASHTO | American Association of State Highway Transportation Officials |
| ACDEH | Alameda County Department of Environmental Health |
| ACWA | Alameda County Water Agency |
| Arcadis | Arcadis U.S., Inc. |
| BAAQMD | Bay Area Air Quality Management District |
| BTEX | benzene, toluene, ethylbenzene, and total xylenes |
| CAIP | Corrective Action Implementation Plan |
| Cal/OSHA | California Occupational Safety and Health Administration |
| CAP | Corrective Action Plan |
| CCR | California Code of Regulations |
| CEMC | Chevron Environmental Management Company |
| CFR | Code of Federal Regulations |
| COC | constituent of concern |
| CRA | Conestoga-Rovers & Associates |
| CY | cubic yard |
| EBMUD | East Bay Municipal Utility District |
| ESL | Environmental Screening Level |
| ft bgs | feet below ground surface |
| HASP | Health and Safety Plan |
| HAZWOPER | Hazardous Waste Operations and Emergency Response |
| LTCP | Low-Threat Underground Storage Tank Case Closure Policy |
| mg/kg | milligrams per kilogram |
| MTBE | methyl tertiary-butyl ether |
| OCP | organochloride pesticide |
| OSHA | Occupational Safety and Health Administration |
| PAH | polycyclic aromatic hydrocarbons |
| PCB | polychlorinated biphenyl |
| PID | photo-ionization detector |
| PPE | personal protective equipment |

| | |
|---|---|
| SGMP | Soil and Groundwater Management Plan |
| Site | 800 Center Street, Oakland, California |
| SWRCB | State Water Resources Control Board |
| TPH | total petroleum hydrocarbons |
| TPH-d | total petroleum hydrocarbons as diesel |
| TPH-g | total petroleum hydrocarbons as gasoline |
| USA | Underground Service Alert |
| USEPA | United States Environmental Protection Agency |
| UST | underground storage tank |
| µg/L | micrograms per liter |
| µg/$m^3$ | micrograms per cubic meter |

# 1 Introduction

On behalf of Chevron Environmental Management Company (CEMC), Arcadis U.S., Inc. (Arcadis) has prepared this *Corrective Action Implementation Plan* (CAIP) to present a comprehensive and detailed plan for the remedial actions to be undertaken at the former Signal Oil Station located at 800 Center Street, Oakland, California, as well as two adjacent parcels. The three parcels, currently owned by Chevron U.S.A. Inc. (Chevron), are hereafter referred to as "the Site" and are comprised of Parcel 15 (4-67-15), Parcel 16 (4-67-16) and Parcel 17 (4-67-17). The CAIP presents planned activities to address residual petroleum hydrocarbon impacted soil and groundwater on the 800 Center Street parcel. Additionally, this CAIP presents the remedial actions to be undertaken at the three parcels to address residual lead, organochlorine pesticide (OCP), and/or polychlorinated biphenyl (PCB) impacted shallow soil, at concentrations that exceed the Environmental Screening Levels (ESLs) associated with shallow soil direct contact exposure at residential sites, established by the San Francisco Bay Regional Water Quality Control Board (SFRWQCB); it is noted that these impacts are not related to former service station operations but rather due to the presence of former residential structures and/or particulates from long-term exposure to vehicle exhaust. As requested by Alameda County Department of Environmental Health (ACDEH) during a meeting with CEMC and Arcadis on June 29, 2020, a combined CAIP to address the activities on all three parcels was to be submitted. A draft CAIP was submitted to ACDEH on August 31, 2020 for review, and technical comments from ACDEH were received in a letter dated October 15, 2020. A follow-up meeting between ACDEH, CEMC and Arcadis on October 29, 2020 discussed and clarified the technical comments and how to address them. A revised CAIP was submitted on November 25, 2020 for review, and technical comments from ACDEH were received in a letter dated December 31, 2020. A follow-up meeting between ACDEH, CEMC, and Arcadis was held on January 13, 2021. Additional Site characterization was detailed in the *Remedial Data Gap Work Plan,* submitted on April 7, 2021 to address remaining Site data gaps (Arcadis 2021). The CAIP has been updated to include data gathered during the execution of the remedial data gap work plan and address technical comments, including written and verbal communications from ACDEH. The location and general area of the Site and a Site plan are shown as Figures 1 and 2.

The proposed activities were generally presented in the December 3, 2019 *Corrective Action Plan* (CAP) (Arcadis 2019d) and the September 19, 2019 *Lead Abatement Report* (Arcadis 2019b). This CAIP presents the details of the proposed work, which consists of excavation of petroleum hydrocarbon-impacted soil to depths up to 14 ft below ground surface (ft bgs) in areas that were not previously excavated and excavation of lead/OCP/PCB-impacted soil to depths up to 5 ft bgs. Altogether, the proposed excavations total approximately 3,460 cubic yards (CY).

The remainder of this report is organized into the following sections:

- Section 2 – Site Summary. Describes historical Site information, current use, 2021 remedial data gap investigation results, constituents of concern (COCs), Site geology and hydrogeology, and remaining soil and groundwater impacts.
- Section 3 – Remedial Data Gap Investigation. Provides a summary of the groundwater, soil, and soil vapor investigation.

- Section 4 – Corrective Action Implementation. Discusses details of the implementation of the proposed corrective actions.
- Section 5 – References. Includes references cited in this report.

# 2 Site Summary

Information pertinent to this CAIP is summarized below.

## 2.1 Site Description and Current Use

The 0.3-acre Site includes three adjacent parcels (Parcels 15, 16, 17) located on the northeastern corner of 8th Street and Center Street in a mixed commercial and residential area of West Oakland (Figures 1 and 2). The Site is currently a vacant dirt lot surrounded by chain-link fencing and posted with no trespassing and multi-lingual Proposition 65 notification signs due to the shallow soil impacts. The Site is bounded by Center Street and 8th Street to the west and south, and by adjacent residential properties to the north and east. Currently, there are no plans for redevelopment. The property is zoned as mixed commercial/residential.

### 2.1.1 Site Geology and Hydrogeology

The Site is part of the Oakland sub-area of the East Bay Plain. Sediments beneath the Site are likely Holocene and late Pleistocene alluvial fans (Conestoga-Rovers & Associates [CRA] 2010). Encountered soil has consisted of silty sand with gravel (likely fill) encountered at ground surface to a depth of approximately 1 fbg. Underlying the fill, medium estimated permeability sand and silty sand has been encountered to the maximum depth explored of 80 ft bgs. Silt, with thin clayey silt and silty clay stringers, occurs between approximately 50 and 65 ft bgs. Local topography is relatively flat, and the Site elevation is about 15 feet above mean sea level.

Groundwater in the East Bay Plain basin is designated as a potential drinking water source; however, groundwater in the basin is not currently used as a municipal drinking water supply due to readily available imported surface water provided by East Bay Municipal Utility District (GHD 2017). Groundwater beneath the Site is monitored by wells installed at two different depth intervals. Shallow groundwater monitoring wells have been monitored since 1997. Monitoring of intermediate and deep screened wells occurred from 2007 through 2012. Monitoring and sampling of the deeper screened wells was discontinued in 2012 because no dissolved hydrocarbons had been detected for some time. Intermediate and deep screened wells were sampled again in 2021. Historical depth to groundwater in the shallow screened wells has ranged from approximately 3 to 13 ft bgs, and shallow groundwater consistently flows toward the southwest (see rose diagram on Figures 3). Groundwater gradients in the intermediate and deep screened wells has been less consistent and historically ranged from the north to northeast. During the most recent groundwater monitoring event in April 2021, the groundwater depth ranged from 9.59 (MW-4) to 11.89 (MW-17) feet below top of casing (btoc) (Arcadis 2021). The groundwater elevation maps for the shallow, intermediate, and deep zones are presented on Figures 3 through 5.

Three cross sections (A-A', B-B' and C-C') were developed to better analyze the below ground stratigraphy of the Site. The base map presenting the cross-section lines is presented as Figure 8. Cross section A-A' depicts the subsurface geology of Parcel 17 from west to east, cross section B-B' depicts the subsurface geology of Parcel 15 from south to north and cross section C-C' depicts the subsurface geology of Parcel 16 from southwest to northeast, Figures 9-11, respectively. The cross sections show that the predominant lithology across the Site is sand with lenses of silty sand and sandy silt.

### 2.1.2 Constituents of Concern

The primary COCs at the Site are TPH-g, TPH-d (likely weathered gasoline as there were no documented diesel tanks on-site), and benzene, toluene, ethylbenzene, and total xylenes (BTEX) in soil and groundwater; and lead, OCPs, and PCBs in shallow soil only.

## 2.2 Site History

A summary of known historical details about each parcel is presented below:

- Parcel 16 is where the former Signal Oil service station operated from 1947 to 1965. The parcel was also occupied by a service station operated by others from 1932 to 1947 and 1965 to 1973. Four 1,000-gallon fuel underground storage tanks (USTs) were removed in 1973 when the station was closed. In 2001, an additional 1,000-gallon gasoline UST, a 550-gallon used-oil UST, a subsurface 55-gallon drum, and a hydraulic hoist were removed. To date, 18 groundwater monitoring wells, 8 air sparge wells, 76 exploratory borings, and 15 soil vapor probes have been installed, and numerous surface, near- surface, and deeper soil samples have been collected both on and near Parcel 16 to characterize and monitor environmental conditions.
- Parcels 15 and 17 are adjacent to the east and north of Parcel 16. Numerous surface and near-surface samples have been collected across the parcels to characterize soil quality. Of the points mentioned above, parcels 15 and 17 include 1 permanent monitoring well, 4 shallow soil borings with grab groundwater samples, 3 deep soil borings with grab groundwater samples, and 2 soil vapor probes. Lead is present in shallow surface soils, most likely related to lead-based paint from houses that formerly were located on the parcels or from deposition of particulates from automobile exhaust over a long period of time when tetraethyl lead was used as a gasoline additive. OCPs are also present in surface soils and are likely from termite abatement and use of similar pest-control products when the former buildings were in use. PCBs were also detected in several soil samples, however the concentrations are below environmental screening levels; the source of the detected PCBs is unknown. It does not appear that historical service station operations on Parcel 16 have affected Parcels 15 and 17.
- Chevron purchased all three parcels in 2012 after all structures had been removed. Chevron's land use plan is to keep all three parcels vacant until all remediation is completed.

A review of available Sanborn maps and evaluation of the findings are presented in the *Remedial Data Gap Work Plan* (Arcadis 2021).

## 2.3 Previous Site Work

Environmental investigation has been ongoing at the Site since 1989. To date, 18 groundwater monitoring wells, 8 air sparge wells, 76 exploratory borings, and 15 soil vapor probes have been advanced/installed, and numerous surface, near-surface, and deeper soil samples have been collected at the Site to characterize and monitor environmental conditions. Groundwater quality has been monitored by 14 on-site monitoring wells (MW-1 [later destroyed], MW-1A, MW-2, MW-3, MW-7, and MW-9 through MW-17), and four off-site monitoring wells (MW-4, MW-5, MW-6, and MW-8).

In 2002, 1,584 tons of impacted soil were removed from the areas of the former gasoline USTs and dispenser islands, the former hoist, and a former sump to depths of 12 to 14 ft bgs to address residual petroleum hydrocarbons in soil. Additionally, 900 pounds of biodegradation amendment were placed in the excavation. In 2011, a 3-month air sparge (AS) pilot test was performed.

In 2018, a non-petroleum case was opened for the lead, OCP, and PCB impacts, designated as Site Cleanup Program (SCP) Case No. RO0003272.

Comprehensive tables of soil analytical data are presented in Table 1a through Table 4. A groundwater table with select analytical results are presented in Tables 5 and 6. Soil vapor analytical data is presented in Table 7.

## 2.4 Historical Soil Investigations and Impacts

### 2.4.1 Petroleum Hydrocarbons

As discussed above, in 2002, 1,584 tons of petroleum hydrocarbon-impacted soil were excavated from the former gasoline USTs, dispenser island, hydraulic hoist, and sump areas to depths of 12 to 14 ft bgs. Thus, the remaining impacted soil is primarily outside these areas.

In April 2019, Arcadis advanced 11 borings on the former service station parcel to 18 or 20 ft bgs to further evaluate residual petroleum hydrocarbons in soil outside of the prior excavated areas. Elevated concentrations of TPH-g (up to 33,000 milligrams per kilogram [mg/kg]) and TPH-d (up to 7,800 mg/kg) were detected in samples collected from 7.5 to 12.5 ft bgs from the borings; only low concentrations were detected (or the constituents were non-detect) in the shallower and deeper samples collected. A similar distribution was seen for BTEX (up to 110 mg/kg, 2,300 mg/kg, 870 mg/kg, and 4,000 mg/kg, respectively) and naphthalene (up to 160 mg/kg). The detected benzene, ethylbenzene, and naphthalene concentrations in several of the samples exceeded the Low-Threat Underground Storage Tank Closure Policy (LTCP) residential criteria for the 0 to 5 ft bgs and the 5 to 10 ft bgs depth intervals. It is noted that saturated soil was observed around 7 ft bgs during this investigation and soil samples that were collected below this depth may have concentrations that are not entirely representative of actual soil quality due to contact with impacted groundwater (Arcadis 2019a). The results of the 2019 investigation confirmed the presence of impacted soil in this area of the Site, which was not previously excavated.

The results of the most recent data gap investigation are discussed below in Section *3. Remedial Data Gap Investigation*.

### 2.4.2 Lead, OCPs, and PCBs

In July 2002, Gettler-Ryan Inc. collected soil samples at depths of 5 and 10 ft bgs from 21 borings across the former service station parcel (G-1 through G-21). Lead was detected in all the samples with the concentrations at the majority of the locations below the residential ESL of 80 mg/kg with the exception of G-17 at 5 ft bgs (368 mg/kg). This detection appears to have been anomalous, as this is not in the area of shallow lead impacts with surrounding samples containing lead at much lower concentrations. Arcadis completed confirmation sampling as detailed in sections below.

In January 2010, CRA collected surface soil samples and at depths from 0.5 to 2.5 ft bgs from 12 locations (SS-1 through SS-12) across the Site. The detected lead concentrations at most of the locations exceeded the residential ESL of 80 mg/kg. The highest lead concentrations were detected at locations SS-1, SS-2, SS-3, and SS-6 (up to 806 mg/kg, 980 mg/kg, 5,760 mg/kg, and 669 mg/kg, respectively). These soil samples were located on the two parcels adjacent to the former service station. Detected concentrations of OCPs at one or more depths also exceeded the ESLs at all the locations except SS-4, SS-7, and SS-11 (Figures 7). PCBs were detected in several of the samples but only exceeded the ESL in the surface sample at SS-6 (Figure 8) (CRA 2010), which was later confirmed below the ESL in 2021 and discussed below in Section 3.

In April 2019, Arcadis advanced 69 soil borings to 1 or 3 ft bgs in grid patterns across the Site both surrounding the previous samples from 2014 with elevated lead and in areas where no prior sampling had been performed; and collected samples at 0.5-foot intervals to further evaluate the extent of lead impacts. Lead was detected in the majority of the samples at concentrations above the ESL. The highest concentrations of lead were observed in soils in SS-3-SE at the surface (2,700 mg/kg), SS-3-SW at 0.5 ft bgs (12,000 mg/kg), SS-10-SW at 1 ft bgs (4,000 mg/kg), SS-1-S at 1.5 ft bgs (2,600 mg/kg), SS-14-NW and SS-2-NW at 2.0 ft bgs (3,900 mg/kg), SS-6-A at 2.5 ft bgs (24,000 mg/kg), and SS-14-W at 3.0 ft bgs (3,000 mg/kg) (Arcadis 2019b). The investigation showed that soil impacted with lead greater than the ESL remained across most of the unexcavated portion of the Site.

# 3 Remedial Data Gap Investigation

The goal of the *Remedial Data Gap Work Plan* (Work Plan) was to complete Site characterization in areas previously not investigated and confirm historical data in order to confirm the appropriate remedial design. The additional characterization was accomplished through pre-remediation monitoring events at the Site for existing and new soil vapor probes (SVPs) and groundwater monitoring wells, including intermediate and deep screened wells. Soil was also further characterized through the installation of additional soil borings, temporary monitoring wells, and SVPs. The Work Plan was requested by ACDEH in a letter dated December 31, 2020 and, in a meeting, held January 13, 2021 attended by CEMC, Arcadis, and ACDEH. As discussed in the meeting, data collected during the execution of the Work Plan were to be analyzed and discussed in this CAIP.

The fieldwork for the data gap investigation occurred from April 5 through May 6, 2021. Fieldnotes for the monitoring well re-development, monitoring well sampling event, soil borings, temporary well installation, SVP installation, and sampling are presented in Appendix B.

## 3.1 Deviations from the Work Plan

During fieldwork, several deviations from the Work Plan occurred which included: TPH-d samples were not collected at depths greater than ten (10) feet due to a bottle ware error, SSD-26 was collected from the wrong location due to incorrect measurements, G-16-C at the 15 ft interval was collected but no analysis was performed. Additionally, MW-18 is still pending installation as the approval of the Excavation Permit from the City of Oakland has not been received.

The fieldwork and analytical results are discussed in the section below along with any conclusions that were achieved through the investigation and how the proposed excavation has been altered based on the data received. Field points were surveyed by a licensed Surveyor and uploaded to GeoTracker.

## 3.2 Soil Petroleum Hydrocarbon Results

The soil borings, SVPs, and temporary wells were advanced from April 12 through April 14, 2021. The field notes from this event are presented in Appendix B, the laboratory reports and chain of custodies are included as Appendix C, and the boring logs are included as Appendix D. The summarized analytical data from the event are presented in Table 1A through Table 4. The locations of the soil borings and temporary wells are presented on Figure 2.

### 3.2.1 Parcel 15 Soil Characterization

A summary of known historical details for Parcel 15 was discussed in the Work Plan. To address the general characterization of petroleum hydrocarbons on Parcel 15, two temporary deep wells and two soil borings were advanced, and soil was analyzed for TPH-d and TPH-g using USEPA Method 8015 Modified, full list VOCs using USEPA Method 8260B, and PAHs and naphthalene using USEPA Method 8270B. Semi-volatiles were only analyzed in the top 10 feet of each boring.

- Temporary wells

Temporary well TW-2 was drilled at the north end of the parcel while TW-3 was drilled in the middle of Parcel 15. Both temporary wells were advanced to a total depth of 60 ft bgs. Lithology was generally sand, with water levels recorded at 27.5 ft (TW-2) and 28 ft bgs (TW-3). Soil samples were taken at 5,10, 20, 30, 40, 50, and 60 ft. bgs and a grab groundwater water sample was collected from each location.

Soil analytical results indicate that concentrations are below the Low Threat Closure Policy (LTCP) ESLs for residential properties. The groundwater results are discussed below in *Section 3.5.3. Groundwater Grab Sample Results.*

- Soil Borings

Soil borings SB-3 and SB-4 were drilled in the central northern and southern part of Parcel 15, respectively. Both soil borings were advanced to a total depth of 15 ft bgs. Lithology was generally sandy silt in the top several feet followed by sand, with first water reported between 10-13 ft bgs. Soil samples were collected at 5, 10, and 15 ft bgs and a grab groundwater sample was collected at each location. Soil analytical results indicate that concentrations are below the LTCP ESLs for residential threshold. The groundwater results are discussed below in *Section 3.5.3. Groundwater Grab Sample Results.*

Results from the soil samples collected on Parcel 15 indicate that the soils generally contain very low levels of petroleum hydrocarbons to non-detectable levels that do not pose a risk to human health. Therefore, Parcel 15 is not considered in need of remediation for petroleum hydrocarbons.

### 3.2.2 Parcel 16 Soil Characterization

A summary of known historical details for Parcel 16 was discussed in the Work Plan. Previous investigations performed by Chevron are summarized above. Parcel 16 had seven confirmation borings advanced to confirm eight locations with historical LTCP residential ESL exceedances.

ACDEH specifically called out eight previous boring locations on Parcel 16 that have some form of LTCP soil exceedance within the top 10 feet that are not located within the originally proposed excavation extent. Arcadis completed confirmation borings G-15-C, G-16-C, G-17-C, SW-2-C, SW-3-C, G-27-C, and MW-14/SW-4-C in areas adjacent to previous locations G-15, G-16, G-17, SW-2, SW-3, SW-4, G-27, and MW-14. The locations for well MW-14 and sidewall sample SW-4 are approximately five feet apart and therefore one confirmation sample was advanced between them for confirmation.

Samples were collected at 5, 10, and 15 ft bgs and analyzed for TPH-g and TPH-d using USEPA Method 8015 Modified, full list VOCs using USEPA Method 8260B, and PAHs and naphthalene using USEPA Method 8270B. Each of these borings were advanced not only confirm the previous LTCP exceedances, but also address the lack of PAH data in the 0- to 5 ft interval and naphthalene data in the 0- to 10 ft interval outside the former excavation extents, as requested by ACDEH.

Samples from each boring at the 5- and 15 ft intervals were either non-detect or below the LTCP residential ESL for each constituent. The 10 ft interval had one or more LTCP residential ESL exceedances for each location:

Benzene: G-15-C (6.9 mg/kg), G-16-C (45 mg/kg), SW-2-C (8.7 mg/kg), SW-3-C (40 mg/kg), and SW-4/MW-14-C (19 mg/kg)

Ethylbenzene: G-15-C (120 mg/kg), G-16-C (240 mg/kg), G-17-C (50 mg/kg), G-27-C (67 mg/kg), SW-2-C (320 mg/kg), SW-3-C (190 mg/kg), and SW-4/MW-14-C (240 mg/kg)

Naphthalene: G-15-C (33 mg/kg), G-16-C (43 mg/kg), G-17-C (12 mg/kg), G-27-C (non-detect at 40 mg/kg), SW-2-C (52 mg/kg), SW-3-C (41 mg/kg), and SW-4/MW-14-C (39 mg/kg)

G-17-C was advanced primarily to confirm elevated lead concentrations in G-17 at 5 ft bgs. Lead was below the ESL at 5, 10, and 15 ft bgs.

Additional delineation of PAHs showed that analytes were non-detect above the laboratory method detection limits at each depth in each boring. Full list VOCs were mostly non-detect, with few detections that were below applicable ESLs if established.

Results from the confirmation soil samples collected on Parcel 16 indicate that soils at the 10 ft bgs interval contain concentrations of benzene, ethylbenzene, and naphthalene above the LTCP residential ESLs. The elevated concentrations are delineated at the 5 and 15 ft bgs interval and are proposed to be removed via excavation. PAHs were not detected and therefore are not required for further evaluation or confirmation. The full list VOC evaluation did not reveal any concentrations of COCs in any location that

indicated the presence of a previously unknown release and therefore do not need to be further evaluated or confirmed during remedial activities.

### 3.2.3 Parcel 17 Characterization

A summary of known historical details for Parcel 17 was discussed in the Work Plan. To address the general characterization of petroleum hydrocarbons on Parcel 17, one temporary deep well and two soil borings were advanced, and soil was analyzed for TPH-d and TPH-g using USEPA Method 8015 Modified, full list VOCs using USEPA Method 8260B, and PAHs and naphthalene using USEPA Method 8270B. Semi-volatiles were only analyzed in the top 10 feet of each boring.

- Temporary well

Temporary well TW-1 was drilled in the approximate middle of the parcel, see Figure 2 for locations. The temporary well was drilled through sand and sandy silt to 60 ft bgs with water level recorded at 28 ft bgs. Soil samples were taken at 5,10, 20, 30, 40, 50, and 60 ft bgs. Results show that the analytical concentrations remain below the LTCP residential ESLs except for PAH analytes detected at 5 ft bgs. Only one of the 7 carcinogenic PAHs utilized in the benzo(a)pyrene toxicity equivalent calculations was detected, however, benzo(a)pyrene was the constituent detected with a concentration of 0.086 mg/kg, which exceeds the LTCP residential ESL.

- Soil Borings

Soil borings SB-1 and SB-2 were drilled in the central western and eastern part of the parcel, respectively. Both soil borings were drilled through sand to 15 ft bgs with first water reported at 13 ft bgs in each boring. Soil samples were collected at 5, 10 and 15 ft bgs. Results show that the analytical concentrations remain below the LTCP residential ESLs.

Results from the soil samples collected on Parcel 17 indicate that the soils generally contain very low levels of petroleum hydrocarbons to non-detectable levels that do not pose a risk to human health. Since there were no other petroleum hydrocarbon detections at the 5 ft bgs depth or other exceedances of hydrocarbons on Parcel 17, the PAH detection is likely not associated with the former service station operations or indicative of a larger uncharacterized release. The PAH exceedance detected in TW-1 at 5 ft bgs will be removed with the lead excavations proposed in this area. Therefore, Parcel 17 is no longer considered in need of remediation for petroleum hydrocarbons.

### 3.2.4 Benzo(a)pyrene Equivalents

Site PAH data was analyzed from 36 locations. In each location, only one PAH constituent was detected, the remaining locations had PAH constituents that were non-detect above the laboratory method detection limit (MDL). Initial evaluation of PAHs through the benzo(a)pyrene equivalents (BaPe) calculation showed that total values exceeded the LTCP residential criteria of 0.068 mg/kg. In the ACDEH directive dated July 29, 2021, it states that Table 4 of the CAIP should be revised to use the BaPe calculation with the commonly accepted calculation methodology of ½ the method detection limit (MDL) when values are non-detect.

BaPe equivalent calculations using half the MDL value are now presented in Table 4. With the new calculations there were eight samples with no detected concentrations of PAHs that technically exceeded the LTCP residential value of 0.068 mg/kg. Of these eight locations, three will be removed during the currently proposed excavation activities. The five remaining locations each have a value of 0.069 mg/kg. Arcadis believes that in the context of the Site, and potential remaining impacts after the remedy is completed, these remaining locations do not present a risk that would warrant additional removal and proposes to have these locations remain in place.

## 3.3 Soil Non-Petroleum Hydrocarbon Results

ACDEH had identified that portions of the previously proposed excavation boundary were defined by soil samples that exceed the residential ESLs for lead, OCPs, and/or PCBs without bounding data that support the proposed lateral extents of the excavations.

To address these areas requiring further delineation, soil borings were advanced across Parcel 15, 16, and 17. Each location is labeled “SSD” for soil sample delineation and labeled numerically for a total of 31 locations, see Figure 7 for SSD locations. Sample locations were placed so that areas beyond the sampling locations are either property boundaries or areas of previous or planned excavation; therefore, no additional future delineation would be needed for the Site.

### 3.3.1 Lead Samples

Hand auger soil borings SSD-1 through SSD-21, SSD-23, SSD-25, and SSD-29 had soil samples that were collected from 1- to 4 ft bgs at 1-foot intervals. Additionally, sample locations SSD-22, SSD-24, SSD-26, SSD-27, and SSD-29 delineated lead vertically deeper than 3 ft bgs. These locations had lead samples collected at 3.5- to 4 ft bgs. The samples were analyzed for lead using USEPA Method 6010B.

Sample location SSD-12 and SSD-26 are the only location where each depth interval had lead concentrations below the ESL, however SSD-26 was only analyzed at 3.5 ft bgs for vertical delineation in that area. The other 26 locations analyzed for lead each had one or more lead detection above the ESL. Due to the extensive nature of the lead characterization, detailed written discussion is not included. The non-petroleum excavation figure (Figure 7) shows depth of excavation in areas across the Site, where the depth shown is a minimum of 0.5 ft below the deepest concentration detected above the ESL. Table 1a shows sample locations sorted by location, where Table 1b shows locations sorted by depth to 10 ft bgs. The lab reports are presented in Appendix C.

### 3.3.2 Organochlorine Pesticide Samples

Sample locations SSD-26, SSD-28, SSD-30, and SSD-31 addressed OCPs vertical delineation below 2.5 ft bgs at 3 and 3.5 ft bgs intervals. Additionally, sample locations SW-3-C, SSD-6, SSD-11, SSD-12, and SSD-19 were completed to address OCP delineation from 0- to 3 ft bgs at 1-foot intervals. These samples were analyzed for OCPs using USEPA Method 8081A. The lab report is presented in Appendix C and a summary of the OCP results are presented in Table 2. Planned non-petroleum excavation depths are depicted on Figure 7.

Samples collected for OCPs were below the ESL residential direct exposure except for:

SSD-6 at ground surface was above the residential ESL for chlordane (0.010 J,p mg/kg), , and dieldrin (0.0066 mg/kg). while at the surface and at 2 ft bgs there were DDT exceedances (0.043 and 0.0013 mg/kg, respectively). Additional samples to 3 ft bgs were below the residential ESLs, vertically delineating the OCPs. This location is planned to be excavated to 5 ft bgs.

SSD-11 at ground surface was above the Residential ESL for dieldrin (0.00078 J, p mg/kg) and below the residential ESL at 1, 2, and 3 ft bgs, delineating the OCPs vertically. This location is planned to be excavated to 2 ft bgs.

SSD-19 at ground surface was above the residential ESL for DDT (0.0021 J mg/kg) and below the residential ESLs at 1, 2, and 3 ft bgs, delineating the OCPs vertically. This location is planned to be excavated to 3 ft bgs.

SSD-26 at 3 ft bgs was above the Residential ESL for chlordane (0.014 J mg/kg), DDT (0.016 mg/kg) and dieldrin (0.0022 J, p mg/kg). This location is planned to be excavated to 4 ft. bgs.

SSD-30 at 3 ft bgs. was above the residential ESL for chlordane (0.056 J mg/kg) and at 3.5 ft bgs was above the residential ESL for chlordane (0.029 mg/kg) and DDT (0.0027J mg/kg). This location is planned to be excavated to 5 ft. bgs.

SSD-31 at 3 ft. bgs. was above the residential ESL for DDT (0.0037 J mg/kg) and dieldrin (0.00056 J mg/kg) and at 3.5 ft. bgs. was above the residential ESL for dieldrin (0.0013 J mg/kg). This location is planned to be excavated to 5 ft. bgs.

Results from this sampling event indicate that OCPs that exceed the residential ESL will be removed during the excavation event. Vertical delineation was obtained in each location except for SSD-26, SSD-30, and SSD-31.

### 3.3.3 Polychlorinated Biphenyl Samples

One historical PCB exceedance was identified at the surface from SS-6 collected in 2010. Delineation samples SSD-27 and SSD-28 were collected to confirm if there is a presence of PCB to the east and southwest of SS-6. These locations were sampled at 0, 0.5, and 1.0-foot bgs. Sample locations SW-3-C, SSD-6, SSD-11, SSD-12, and SSD-19 were sampled to help characterize potential PCBs across the Site. These locations were sampled from 0- to 3 ft bgs at 1-foot intervals. PCBs were analyzed using USEPA Method 8082 with 3541 – Automated Soxhlet Extraction. Sample results indicate that all samples taken remained below the residential ESLs and PCB is not considered a COC at the Site and additional sampling will not be completed. The lab report is presented in Appendix B and a summary of the lead results are presented in Table 2.

### 3.3.4 Asbestos

ACDEH requested that asbestos be analyzed in soil at five locations across the Site. Sample locations SW-3-C, SSD-6, SSD-11, SSD-12, and SSD-19 were sampled for asbestos from 0- to 3 ft bgs at 1-foot intervals and were analyzed for Asbestos using California Air Resource Board 435 Method (CARB435A).

Results at each location for every depth were non-detect and no asbestos was detected in the soil at the Site. Therefore, asbestos is not a Site COC. The locations of the asbestos samples are shown on Figure 7. The lab report is located in Appendix C.

## 3.4 Soil Vapor Probe Network

Prior to executing work as detailed in the Work Plan, the Site had six permanent SVPs (VP-1 through VP-6) installed, which were last sampled in May 2012. ACDEH's review of the soil vapor data presented in the draft CAIP indicated the Site meets the LTCP media-specific criteria for direct measurement of soil gas concentrations for sites without a bioattenuation zone, however, some data gaps remained at the Site. Remaining data gaps include evaluation of potential soil gas vapors associated with the former 550-gallon waste oil UST, the former hydraulic lifts, the former sumps, and the evaluation of data to be collected from Parcels 15 and 17.

To complete this data gap four new SVPs were installed including one each on Parcel 15 and 17, adjacent to the former sump, and adjacent to the former hydraulic lift. New SVPs and old SVPs were analyzed for previous constituents as well as full list VOCs.

### 3.4.1 Additional Soil Vapor Point Installation and Sampling Event

Four new SVPs were installed with the primary purpose of characterizing soil vapor concentrations as discussed above.

From April 12 to 15, the SVPs were installed on the three parcels. Soil vapor point SVP-1 was installed on the eastern end of Parcel 17 in sand with silt to 6.5 ft bgs. SVP-2 was installed on the northeastern corner of Parcel 16 just northeast of the former hydraulic lift in sand with silt to 6.5 bgs. SVP-3 was installed along the eastern side of Parcel 16, just north of the former sumps, in sandy silt and sand to 6.5 ft. bgs. SVP-4 was installed in the southern half of Parcel 15 in sand with sandy silt to 6.5 ft. bgs. Previously install VP-4 is located directly to the west of the former waste oil UST and additional analyte collection was proposed to complete characterization of the data gap in this area. See soil boring logs in Appendix D for the SVP construction. Locations of the four new and six previous SVPs are shown in Figure 2.

The soil vapor points at each location were sampled for VOCs, Naphthalene, and TPH-g by USEPA Method TO-15. Fixed gases oxygen, carbon dioxide, methane, and helium were analyzed by Modified ASTM International Method D-1946-90. Results from the sampling events found that no sample, including the samples from VP-1 through VP-6, were found to be above the LTCP ESLs for residential properties with a bioattenuation zone. Each sample form the 10 SVPs had oxygen detected greater than four percent, qualifying the use of ESLs with a bioattenuation zone. Soil vapor results are presented in Table 7 and laboratory reports are included as Appendix C.

Based on these results, there is no evidence of an immediate health risk and soil vapor is not considered a pathway for exposure. The soil vapor wells will be abandoned before the excavation event.

## 3.5 Groundwater Monitoring Well Network

ACDEH requested an analysis of the adequacy of the monitoring well network due to the discrepancy between the elevated concentrations of petroleum hydrocarbons detected in soil as well as the grab-groundwater samples collected in 2019 and the much lower or non-detect concentrations recently/historically observed in the monitoring wells. ACDEH has postulated that the wells may have silt buildup, which may be artificially depressing groundwater analytical results. Additionally, ACDEH's review of historical groundwater monitoring data indicated there were data gaps in the conceptual site model regarding groundwater flow direction in the deep monitoring wells, lateral, and vertical delineation of the petroleum hydrocarbon groundwater plume in deep and shallow wells, and other potential COCs related to releases from the former waste oil UST, hydraulic hoist, and sump.

The highest petroleum hydrocarbon concentrations generally continue to be detected in well MW-3 located on the down-gradient side of the Site with only low concentrations in the remaining wells. However, it is noted that there is a lack of shallow wells in the central portion of the Site where elevated concentrations in grab-groundwater samples were detected. The only shallow wells are on the down-gradient sides of the Site. As a result, it is likely that residual impacted shallow groundwater is present in this area but is not observed with the current shallow well network. However, it is noted that this secondary source area is to be excavated and thus additional wells in this area do not appear warranted at this time.

### 3.5.1 Monitoring Well Redevelopment

From April 5 to April 7, 2021, Blaine Tech Services (Blaine Tech) redeveloped the wells in accordance with the Work Plan. Purging was conducted using positive air displacement pumps or peristaltic pumps along with a two inch (2") well swab until a hard bottom was encountered and water parameters had stabilized unless water recharge rates limited this. All re-used equipment was decontaminated prior to use at each location. Purge water and rinse solution was collected and transported under bill of lading for proper disposal by Blaine Tech. Well re-development results can be found in Appendix B and on Table 8. Predevelopment versus post-development depth to bottom measurements in Site wells showed that a maximum of 5.15 ft of screen was exposed in MW-7 to 0.3 ft in MW-6. It was noted that MW-1A had a negative depth after Site activities. This was due to the recent Site survey as well as the previous total depth being based off construction drawings that may be inaccurate. The additional screen that was exposed by redeveloping the wells is presented in Table 9.

### 3.5.2 Groundwater Grab Sample Results

To further delineate shallow groundwater at the Site and to characterize potential releases from former land use on Parcels 15 and 17, grab samples were collected from soil borings advanced on these parcels. Arcadis drilled four soil borings (SB-1 through SB-4) and three temporary wells (TW-1 through TW-3). SB-1 and SB-2 were installed on Parcel 17 and SB-3 and SB-4 were installed on Parcel 15. These soil borings had temporary well casings constructed with schedule 40 0.010-inch slotted PVC screen installed from 5 to 15 ft bgs. Borings TW-1, TW-2, and TW-3 were also advanced on Parcels 15 and 17 with temporary wells installed in the deep interval with screens from 55 to 60 ft bgs. The temporary well points were left in the place for a minimum of 24 hours prior to sampling so that a

representative sample was collected. After sampling activities were completed, the pre-pack well points were removed, and the locations abandoned by a California-licensed driller. Locations are presented on Figure 2. Groundwater samples were analyzed for TPH-g and TPH-d using USEPA Method 8015 modified and full scan VOCs using USEPA Method 8260B. The grab groundwater sample analytical results found low levels of petroleum hydrocarbons in the TPH-g and TPH-d ranges. Volatiles in each sample had several low concentration detections below ESLs where ESLs are provided, showing that shallow and deep groundwater intervals on Parcels 15 and 17 do not have groundwater impacts present at concentrations that require further characterization or delineation. Select analytical results are presented in Table 5 and laboratory reports are provided in Appendix C.

### 3.5.3 Groundwater Baseline Sampling Event

The Site has had 18 monitoring wells installed on-site and off-site with one well previously abandoned (MW-1) for a total of 17 current Site wells. Wells have been installed at different depth intervals, including shallow monitoring wells (MW-1A through MW-8) with screen intervals up to 20 ft bgs, intermediate wells (MW-9, MW-11, MW-13, and MW-15) with screen intervals up to 40 ft bgs, and deep wells (MW-10, MW-12, MW-14, MW-16, and MW-17) with screen intervals up to 75 ft bgs. Well construction data is included in Table 9. Monitoring wells have been sampled at variable intervals since 1995. Historical analytical and gauging data is presented in Table 5).

During the most recent event in April 2021, wells were sampled for TPH-g, TPH-d, and TPH-d with silica gel cleanup using USEPA Method 8015 Modified, full scan VOCs using USEPA Method 8260B, and natural attenuation parameters. The summarized data is presented in Table 5 and Table 6 and the laboratory reports are presented in Appendix C.

The maximum detected concentrations of COCs during the most recent groundwater sampling event on April 27, 2021, as well as the historical maximum concentrations in the wells, are shown below in Table 10. The *Semi-Annual Status Report for the First Half of 2021* was submitted to GeoTracker on June 16, 2021, and summarizes the findings of the April 27, 2021 sampling event (Arcadis 2021).

**Table 10. Maximum Concentrations for COCs in Groundwater**

| COC | April 2021 Concentration (µg/L) | Well ID | Maximum Historical Concentration (µg/L) | Well ID (Year) |
|---|---|---|---|---|
| TPH-d w/ SGT | 270 | MW-1A | 4,400 | MW-1A (2014) |
| TPH-g | 1,500 | MW-3 | 30,000 | MW-1A (2007) |
| Benzene | 2.2 | MW-3 | 19,000 | MW-1 (1995) |
| Toluene | 0.59 J | MW-3 | 34,000 | MW-1 (1995) |
| Ethylbenzene | 0.35 J | MW-3 | 4,800 | MW-1 (1995) |
| Total Xylenes | 0.73 J | MW-3 | 26,000 | MW-1 (1995) |

Notes:
J = Estimated value
ND = not detected at or above reporting limit
µg/L = micrograms per liter

As seen in the table above, COC concentrations in Site wells have declined from the historical maximums.

Based on the above results, the remaining groundwater impacts appear to be located primarily in the southwestern portion of the Site (Figure 3). Monitoring and sampling of the intermediate and deep screened wells found limited to no dissolved phase hydrocarbons had been detected for several years. Based on the current and historical data, groundwater in these zones do not require further characterization or sampling.

# 4 CORRECTIVE ACTION IMPLEMENTATION

Remedial excavation was the selected corrective action to remove petroleum hydrocarbon-impacted source area soils exceeding LTCP criteria and ESLs associated with potential leaching to groundwater. This work will be combined with the targeted lead and OCP-impacted soil removal. Additionally, gypsum placement into the petroleum hydrocarbon excavations prior to and during backfilling is proposed as an additional measure to reduce petroleum hydrocarbon concentrations in on-site groundwater and soil within the saturated zone at the depth of excavation. Gypsum was selected to be placed in the excavation due to its low solubility, which allows a slower release of sulfate over time to continually treat the residual impacts. Arcadis recommends continuation of groundwater monitoring at shallow monitoring wells for one-year post-excavation (some wells will be destroyed during remedial excavation).

This section discusses the details of the implementation of the corrective actions proposed for the Site.

## 4.1 On-Site Well Destruction Activities

Remedial excavation activities at the Site require the removal of existing wells located within or near the excavation areas. The proposed plan is to destroy each onsite groundwater monitoring well (MW-1A, MW-2, MW-3, MW-7, and MW-9 through MW-17), ten vapor probes (VP-1 through VP-6 and SVP-1 through SVP-4), and eight air sparge wells (AS-1 through AS-8; Figure 2).

Each well will be inspected prior to destruction to determine its integrity and ensure that obstructions are not present in or around the well that would interfere with pressure grouting and sealing. Soil vapor probes are proposed to be removed manually using hand auger methods. Before the well destruction activities are implemented, well destruction permits will be obtained through Alameda County Public Works Agency (ACPWA). Wells will be destroyed according to agency requirements. The well destruction activities will be completed in accordance with ACPWA guidelines and the California Well Standards. The well destruction will be completed by a C-57 licensed drilling contractor and supervised by Arcadis.

Table 9 presents well construction details for all wells including the depths, status of wells including date of installation and destruction, screen intervals, and re-development information.

## 4.2 Pre-Implementation Activities

The activities to be conducted prior to implementation of the selected corrective actions are discussed below and include preparing a Health and Safety Plan (HASP), permitting, utility clearance, and site security.

### 4.2.1 Health and Safety Planning

Prior to commencement of work, Arcadis will prepare a site-specific HASP. The HASP will follow both the California Occupational Safety and Health Administration (Cal/OSHA) and the federal OSHA standards for hazardous waste operations (8 California Code of Regulations [CCR] 5192 and 29 Code of Federal Regulations [CFR] 1910.120, respectively) and any other applicable health and safety standards. The HASP will describe health and safety training requirements for on-site construction personnel, personal protective equipment (PPE) to be used, and any other applicable precautions to be undertaken to minimize direct contact with soil by workers and the general public. All contractors will hold a joint site safety tailgate meeting each day before the start of work.

Site workers whose activities could potentially result in contact with impacted soil are required to have certification that they have completed OSHA 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training, annual 8-hour refresher training (as appropriate), and other training and monitoring as needed to meet OSHA and Cal/OSHA requirements. The construction contractor must have the HAZWOPER training certificates for the individual workers on-site during all construction activities.

### 4.2.2 Permitting

The work will be conducted in accordance with applicable federal, state, and local regulations. These may include, but are not limited to:

- OSHA, 29 CFR 1910.120, regulations applicable to hazardous waste site operations (HAZWOPER)
- California Health and Safety Code Division 20, Chapters 6.5 and 6.8
- Title 8 of the CCR General Industry Safety Orders 5192 and Title 8 of the CCR 1532.1
- Title 22, CCR Sections 66261.2 and 66261.3
- Bay Area Air Quality Management District (BAAQMD) permit
- ACPWA well destruction permits
- City of Oakland grading permit

### 4.2.3 Site Security

Unauthorized access by vehicles and the public will be limited by fencing and access controls around the work areas. In addition, the HASP will establish construction exclusion zones, contaminant reduction zones, and support zones to ensure that impacted soil is not inadvertently transported outside the

construction areas. Access will be limited to Arcadis employees and any subcontractors. During non-working hours, the fencing will be fully closed and locked.

### 4.2.4 Utility Clearance

Arcadis and the excavation contractor will notify Underground Service Alert (USA) a minimum of 2 working days prior to commencing field activities to identify public utility lines that are located within the proposed excavation areas in compliance with state regulations. In conjunction with USA, a private utility locating company will further evaluate the potential presence of underground utilities or other subsurface obstructions across the Site. As a conservative safety measure, any unknown utilities identified will be treated as live electrical until proven otherwise.

### 4.2.5 Soil Erosion and Sediment Controls

The objective of the temporary erosion and sediment control program is to develop and maintain rooted vegetation on-Site to enhance soil stabilization and reduce potential migration of dust or sediment-laden runoff. Vegetation will be established through the seeding of bare areas to obtain uniform plant cover that supports a matrix of below-ground soil-stabilizing roots. Routine and continued maintenance of the property following excavation will be conducted, including the maintenance of a fence surrounding the Site to control access and evaluation of Site vegetation cover. Details of the temporary erosion and sediment control program are included in Appendix E.

#### 4.2.1.1 4.2.6 Soil and Groundwater Management Plan

A *Contingent Construction Soil and Groundwater Management Plan* (SGMP) was prepared to identify project personnel, responsibilities, notifications, and environmental measures to be implemented during construction to protect project personnel and the public during the excavation of impacted soil. The SGMP is attached to this report as Appendix A.

## 4.3 Remedial Excavation

The proposed excavation extents are shown on Figures 6 and 7. The excavations will be classified and implemented in two phases: an excavation of petroleum hydrocarbon impacted areas and a non-petroleum (Lead and OCPs) excavation.

There are two areas with proposed petroleum hydrocarbon excavations, outlined in blue on Figure 6. The norther area is approximately 880 square feet in the area with a generally proposed depth of 14 ft bgs. The second area to the south is approximately 1900 square feet in the area with a proposed depth of 14 ft bgs. Total area including slough and slope is approximately 4,750 square feet. Since extensive characterization has been completed and nearly every square foot of the parcel has either been excavated or is proposed to be excavated, it is not anticipated that new or unknown impacts will be encountered or removed. A volume of approximately 2,355 CY (includes slough and sloping) is anticipated to be generated.

The proposed lead and OCP excavation will be performed to depths shown on Figure 7. Colors on this figure represent varying one-foot intervals that are a minimum of 0.5 ft below the deepest recorded soil exceedance. The lead and OCP excavation area covers approximately 9,500 square feet, including the entire surface of Parcels 15 and 17. The total volume to be excavated will be approximately 1,105 CY (includes slough and sloping). This remedial target volume has been designed to cost-effectively remove impacted soil while leaving as much non-impacted soil (or soil where concentrations do not exceed ESLs) in place as possible. The excavation limits will not be extended without a comprehensive review of safety concerns, feasibility, and cost effectiveness. More in-depth technical details on the excavations are provided in the Excavation Design Plan in Appendix F.

### 4.3.1 Excavation

Excavation work may proceed in small sequential areas for ease of implementation. There will be some overlap between the excavations; the lead-impacted soil excavation will be excavated and segregated from the petroleum impacted soil as needed pending waste characterization, which will occur prior to the start of excavation activities.

Groundwater is anticipated to be encountered below 7 ft bgs. Excavation will continue in the groundwater and managed to allow soils to drain within the excavation and be loaded into waste hauling trucks. The excavation extents approach the property boundary in each direction. To protect existing structures including sidewalks and buildings, sloping will be utilized at a 1.7 to 1 ft per foot based on a geotechnical review is Site geology. The sloping proposed to protect existing infrastructure may limit the excavation of known impacted material in these areas. If soil left in place are known to contain concentrations of COCs above applicable ESLs in the lead and OCP excavation areas, then orange non-woven geotextile fabric that indicates no digging allowed beyond that point, will be placed prior to backfill. If this geotextile fabric is utilized, then a future soil management plan will be incorporated into any closure documentation and the areas and extents of the geotextile fabric will be detailed.

Excavation work will be performed using low-emission diesel-powered excavators and diesel-powered front-end loaders. Dust will be mitigated on an ongoing basis throughout the project using practical means such as plastic sheeting and watering. The duration of excavation activities depends on many factors, including weather, dust, the number of trucks that can be directly loaded daily, restrictions on truck traffic, and soil disposal facility restrictions. If soil is not directly loaded into trucks, excavated soil will be stockpiled and covered with plastic sheeting before being loaded into trucks. Excavated soil will be transported to licensed disposal facilities. Initial evaluation of analytical data collected to profile the lead waste indicates that soil containing lead concentrations above 50 mg/kg will likely be disposed of together at a single facility and no segregation of different lead concentrations will occur. Waste profiles and disposal facilities will be determined prior to starting excavation activities. Waste disposal sequencing and disposal facility acceptance letters will be provided under sperate cover.

A plan for the loading, unloading, and staging of trucks during the project hauling and fill will be prepared and submitted to the City of Oakland for review and approval.

### 4.3.2 Dust Control and Air Monitoring

During excavation activities, there is the potential to generate airborne dust. Dust control measures will

comply with the BAAQMD's feasible control measures to protect on-site and off-site receptors from contaminants in soil and nuisance dust. Therefore, as required by the BAAQMD, the contractor will apply a water mist to the excavation and soil handling equipment as necessary to reduce the potential for dust generation. Soil will be wetted as needed to reduce the occurrence of visible dust. Care will be taken to not over-water soil that could potentially create storm water runoff or excess mud that would require additional equipment decontamination prior to leaving the work zone. Trucks loaded with soil for disposal will be covered prior to leaving the Site. Work areas at the Site will be monitored for dust, and the street will be swept as necessary to reduce the potential for airborne dust generation.

Air monitoring for dust levels will be conducted to evaluate the effectiveness of dust control measures. The presence of airborne dust will be evaluated through visual observations and perimeter and work zone air sampling using an MIE Personal Data Ram (or equivalent) will be conducted continuously during earth work activities. Results will be compared with the site-specific dust action level presented in the HASP. Information gathered will be used to ensure the adequacy of the levels of protection being employed at the Site and may be used as the basis for upgrading or downgrading levels of worker PPE or modifying engineering controls, at the discretion of the Site Safety Officer. If dust levels cannot be maintained below the action level, work will cease until additional measures can be implemented. Work zone and perimeter monitoring standards are detailed in the attached SGMP (Appendix A). Perimeter and work zone action levels were developed using Site specific concentrations of COCs, including lead. Action levels are based on the California Ambient Air Quality Standards (perimeter monitoring), Cal/OSHA permissible exposure limits for lead and the American Conference of Governmental Industrial Hygienists 8-hour threshold limit value for lead (work zone monitoring). A detailed Dust Monitoring Plan for the site is presented in Appendix C of the SGMP (Appendix A).

Due to the high volatility of COC fumes, the airspace in the breathing zone of the workers will be continuously monitored with a photo-ionization detector (PID). Site workers will don appropriate PPE based on action levels outlined in the HASP for site-specific COCs. Soils containing volatile COCs will be direct loaded and taken off site as soon as possible; however, any stockpiles left temporarily onsite during the work day will be covered with a vapor-resistant barrier. Stockpiled soil is not expected to remain overnight at the Site.

### 4.3.3 Noise Control

Due to the proximity of residential structures adjacent to the Site, the Contractor will be responsible for controlling noise in accordance with local ordinances. Construction related noise will adhere to the City of Oakland noise ordinances and the Alameda County General Ordinance Code, Title 6, Chapter 6.60, Section 6.60.070, Special Provisions or Exceptions, which states that the provisions of noise limit shall not apply to noise sources associated with construction, provided the construction activities do not take place before 7 a.m. or after 7 p.m. on any day except Saturday or Sunday, or before 8 a.m. or after 5 p.m. on Saturday or Sunday. These time frames will be applied to construction working hours.

# 4.4 Post-Excavation Activities

## 4.4.1 Confirmation Sampling

Confirmation soil samples will be collected directly from the excavation sidewalls and bottom using properly decontaminated hand tools or, if conditions warrant, from the bucket of the excavation equipment. At a minimum, one discrete sidewall soil sample will be collected for every 20 linear feet of sidewall, with a minimum of one sample per sidewall. A minimum of four excavation bottom confirmation soil samples will be collected in locations equally spaced throughout the excavation footprint.

For the petroleum excavation, confirmation soil samples will be analyzed for TPH-g and TPH-d by United States Environmental Protection Agency (USEPA) Method 8015M; and BTEX and naphthalene by USEPA Method 8260B. Cleanup goals for petroleum are presented on Table 1a and 1b. The LTCP cleanup goals take precedence except for TPH-g and TPH-d where LTCP has no applicable cleanup level, for these COCs the California State Water Boards ESL cleanup levels will be used.

If laboratory analytical results indicate that a confirmation soil sample exceeds the LTCP criteria or ESLs for residential direct contact or leaching to groundwater, specified geotextile fabric may be placed in the excavation to delineate clean backfill from soils left in place. This may be dictated in the field based on visual observations and/or the presence of obstructions at the Site that may limit the ability to excavate soil adjacent to or beneath foundations. If COCs are detected in confirmation soil samples at concentrations greater than cleanup levels in areas of the Site where further excavation is not feasible due to safety constraints, it may be necessary to leave such materials in place.

**Table 11. Proposed Petroleum Cleanup Goals**

| COC | Residential[1] | | Leaching to Groundwater[2] | ESL[3] |
|---|---|---|---|---|
| | 0 to 5 ft bgs (mg/kg) | Volatilization to outdoor air 5 to 10 ft bgs (mg/kg) | Non-drinking water (mg/kg) | (mg/kg) |
| Benzene | 1.9 | 2.8 | 0.025 | Not Applicable |
| Ethylbenzene | 21 | 32 | 0.43 | Not Applicable |
| Naphthalene | 9.7 | 9.7 | 1.2 | Not Applicable |
| TPH-g | Not applicable | Not applicable | 4,900 | 120 |
| TPH-d | Not applicable | Not applicable | 7,300 | 260 |

Notes:
[1] Low-Threat Underground Storage Tank Case Closure Policy (SWRCB 2012) criteria (Direct Contact Residential).
[2] Leaching to Groundwater Environmental Screening Levels for Non-Drinking Water (ESLs; San Francisco Bay Regional Water Quality Control Board 2019).
[3] Human Health Risk Environmental Screening Levels for Direct Exposure (ESLs; San Francisco Bay Regional Water Quality Control Board 2019).

For the lead excavation, confirmation sampling will be completed in areas/previous sample locations where lead was not delineated vertically to less than 80 mg/kg. Upon completion of the excavation to the specified depth as presented in Figure 7, confirmation soil samples will be collected 0.5 feet beneath the approximate historical soil sample location that exceeded the cleanup goal to vertically delineate the soil. The lead excavation may utilize in field use of an XRF to confirm lead concentrations to help evaluate areas that may require additional soil removal. Lead confirmation samples will be collected for laboratory analysis by USEPA Method 6010b and for OCPs by USEPA Method 8081A. Soil confirmation samples collected near the previous PCB ESL exceedance occurred during the execution of the Work Plan as previously discussed. The OCP soil data has been reviewed for vertical delineation to verify soil excavation extent. Cleanup goals for lead, PCBs, and OCPs are presented in Table 2 along with the basis for which goals were used.

If laboratory analytical results indicate that a confirmation soil sample exceeds the ESLs for residential direct contact, additional excavation may be performed to the extent feasible. If additional excavation is warranted, the area of the excavation where the cleanup level was not achieved may be extended a minimum of 1 foot laterally or vertically. This may be adjusted in the field based on visual observations and/or the presence of obstructions at the Site that may limit the ability to excavate soil adjacent to or beneath foundations. If COCs are detected in confirmation soil samples at concentrations greater than cleanup levels in areas of the Site where further excavation is not feasible due to safety constraints, it may be necessary to leave such materials in place and orange geotextile fabric may be placed to delineate clean fill material from areas with impacted soils left in place.

Table 12 outlines the proposed cleanup goals for shallow soil as residential direct exposure ESLs. In a directive letter dated October 15, 2020 ACDEH concurred with Chevron Environmental Management Company (CEMC) and their consultant (Arcadis) that the use of the January 2019 San Francisco Bay Regional Water Quality Control Board's Environmental Screening Levels (ESLs) for residential direct exposure is the appropriate cleanup goal for lead in soil for a Site that will be redeveloped in the near future for human habitation, however, ACDEH stipulated that if the Site is left as a bare dirt lot for an extended amount of time then terrestrial habitat ESL (Tier I) is more appropriate. In their directive letter, ACDEH requested that the draft CAIP propose mitigation measures to disrupt the terrestrial habitat exposure pathway. Arcadis has proposed post-remedial soil vegetative cover described in the Temporary Erosion and Sediment Control Program. The Site is not planned on being left as a bare dirt lot for an extended amount of time and after development, any landscaped areas such as planters, will be covered with clean topsoil. Therefore, the use of the more conservative terrestrial habitat ESLs as cleanup goals are not appropriate.

**Table 12. Proposed Lead, PCB, and OCP Cleanup Goals**

| COC | Tier 1 ESL[1] (mg/kg) |
|---|---|
| Lead | 80 |
| PCBs | 0.23 |
| Aldrin | 0.0024 |

| | |
|---|---|
| Gamma BHC -Lindane | 0.55 |
| Alpha Chlordane | NA |
| Chlordane | 0.0085 |
| Gamma Chlordane | NA |
| DDD | 2.7 |
| DDE | 0.33 |
| DDT | 0.0011 |
| Dieldrin | 0.00046 |
| Heptachlor | 0.12 |

Notes:
[1] Environmental Screening Levels (ESLs; San Francisco Bay Regional Water Quality Control Board 2019);.Direct Exposure Human Health Risk Levels, Residential; shallow soil exposure
DDD - dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethene
DDT – dichlorodiphenyltrichloroethane
NA - Not applicable

### 4.4.2 Backfill and Compaction

Imported structural fill material to be used to backfill the remedial excavation areas will follow ACDEH guidance documents for soil import requirements (ACDEH 2019). A stone bridging layer will likely need to be used to backfill any areas where there is standing groundwater, prior to placement of fill material to the ground surface. Upon approval, the selected material will be used to backfill the excavated area. The fill material will be placed and compacted accordingly, and in accordance with any City of Oakland building department requirements of 90% for unimproved areas. Requisite documentation for imported fill material, including information on proposed sources, sampling and profiling protocols, analytical laboratory reports, and tables with analytical results and applicable environmental screening levels, will be collected.

The final amount of backfill material placed, compaction details, and analytical results will be included in the final summary report.

### 4.4.3 Transportation Plan

Excavated soil will be loaded in licensed haul trucks (end dumps or transfers) and transported off-site to an appropriate disposal facility following necessary California and federal waste manifesting procedures. Soil will be profiled, and waste streams will be segregated based on waste profile analytical results. Waste will be profiled, and disposal facilities identified prior to the start of excavation activities. Waste segregation plans and disposal facility details will be provided under separate cover prior to the start of excavations. Loading activities will be conducted on-site. The appropriate waste manifest documentation will be provided to truck drivers hauling the impacted soil off-site. As each haul truck is filled, it will be inspected to ensure that the soil is securely covered and that the tires of each haul truck are reasonably free of accumulated soil prior to leaving the Site. In addition, each truck driver will be requested to provide

a valid driver's license and hazardous waste transporter documentation. Steps will be taken as described above to minimize dust emissions associated with trucking.

Soil will not be stockpiled overnight, however if it is not feasible to direct load soil onto trucks, the soil will be stockpiled on, and covered with, plastic sheeting for future off-site transport and disposal. If warranted, the area designated for soil stockpile(s) will be bermed in the event of rainfall to prevent potential runoff during rain events. If rainfall is anticipated to exceed the holding capacity of the berm, the stockpiled soil will be transferred to lined storage bins. Soil will be profiled and an excavation sequencing plan established prior to the start of excavation activities, allowing for direct loading of trucks during excavation or to expedite off-site transport when trucks are available. Disposal documentation will be provided with the final summary report.

### 4.4.4 Decontamination

Equipment used to excavate, transport, and manage impacted soil will be decontaminated prior to leaving the Site. The equipment will be decontaminated by removing visible soil by sweeping or brushing. Soil that cannot be removed by this procedure will be removed from equipment by other methods such as washing with water in a prepared decontamination area.

### 4.4.5 Waste Disposal

In addition to the impacted soil, waste generated during the remediation activities may include decontamination fluids, PPE, and other disposable sampling materials. If not direct loaded, soil derived from the excavations will be placed in stockpiles within the security fencing, pending removal. Water used for decontamination procedures will be collected in portable tanks and stored on-site pending characterization and removal. PPE, disposable supplies, and other household-type waste will be treated as municipal waste. Waste disposal sequencing and disposal facility details will be provided prior to the start of the excavation under separate cover. Waste disposal is discussed in detail in the SGMP (Appendix A).

### 4.4.6 Gypsum Placement in Excavation

Pulverized gypsum (calcium sulfate dihydrate) will be placed in the petroleum excavation area as an additional measure in order to further enhance the anaerobic degradation of residual petroleum hydrocarbons. Anaerobic bio-oxidation (glycolysis) is the utilization of non-oxygen electron acceptors, such as sulfate, in metabolizing a carbon source. Under appropriate biogeochemical conditions, sulfate-reducing microorganisms proliferate by consuming sulfate as an electron acceptor and organic compounds as an electron donor.

Of the electron acceptors that can be used for bio-oxidation of petroleum hydrocarbons, oxygen and sulfate are the most practical and safe to apply as an amendment. The advantages of sulfate over oxygen include higher solubility and lack of natural sinks or scavengers, which can decrease the longevity and effectiveness of an oxygen-based amendment. Gypsum provides a consistent source with increased longevity of an electron acceptor in the subsurface, thereby facilitating anaerobic bio-oxidation of petroleum hydrocarbons over time.

As areas of the petroleum hydrocarbon excavation are determined to be complete, approximately 4 pounds of gypsum per square foot will be evenly applied to the top of the stone backfill. The gypsum application to the top of the stone bridging layer allows the gypsum to both filter down through the rock base to treat groundwater at lower elevations and creates a highly concentrated zone of anaerobic oxidation in groundwater as it rises into clean backfill soils. This helps to limit or eliminate petroleum impacted groundwater from impacting the clean fill material above the stone backfill. The application of gypsum will be performed according to the site-specific HASP, which will include procedures on the safe application of gypsum to the soil. Wet methods to control potential gypsum dust will be considered. The estimated gypsum application dosage has been calculated based on an anticipated groundwater table during excavation. In addition, the estimated quantity of gypsum is based on the delivered gypsum being at least 98 percent gypsum by weight. The vertical extent of gypsum emplacement may be adjusted based on site-specific variables, such as depth to groundwater and real-time field information.

### 4.4.7 Deviations from CAIP

Any proposed deviation from this CAIP, if necessary, will be discussed with and approved by ACDEH prior to implementation. Deviations will be identified and explained in the final summary report documenting the implementation of the removal action.

### 4.4.8 Field Documentation

Daily entries into the logbook will contain the following minimum information pertaining to excavation activities: weather, deviations from the CAIP, visitors and/or personnel present, and general observations. Excavation procedures will also be documented in the field logbook. Information that will be recorded in the logbook or on field forms includes field screening data such as air monitoring readings.

### 4.4.9 Schedule

Completion of this work is dependent on the concurrence of ACDEH, the results of public participation activities, securing the necessary permits, and weather conditions. As discussed, to reduce the amount of water that may be generated due to necessary dewatering, and to keep conditions as clean as possible, the excavation work should be performed when groundwater levels are at their lowest. Upon concurrence, a project schedule will be submitted and provide details of the sequencing of corrective actions. The schedule will include, but not be limited to, destruction of wells in the work area, confirmation sampling, excavation of impacted soil, gypsum application, soil import characterization, import soil, backfill, and reporting.

### 4.4.10 Report Preparation

Following completion of the corrective actions, a report will be prepared and submitted to ACDEH to describe the remedial excavation work performed (with limits and volume of soil removed), field procedures, confirmation soil sample locations and analytical results; and to provide waste disposal documentation and laboratory analytical reports.

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# Tables

**Table 1a. Soil Analytical Results - VOCs, TPH, Metals**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| LTCP Residential Threshold | 0-5 ft bgs | | 1.9 | - | 21 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | - |
| | 5-10 ft bgs | | 2.8 | - | 32 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | 80 |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - |
| Sample ID | Sample Date | Sample Depth (ft) | 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 | mg/kg |
| ~~B-1~~ | ~~8/18/1989~~ | ~~10~~ | **~~50~~** | ~~220~~ | **~~46~~** | ~~240~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~<100~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~2,100~~ | ~~6,800~~ | ~~--~~ |
| ~~A-1~~ | ~~4/12/2001~~ | ~~8.5~~ | **~~10~~** | ~~4.4~~ | ~~15~~ | ~~48~~ | ~~<5.0~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~630~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ |
| ~~A-2~~ | ~~4/12/2001~~ | ~~8.5~~ | ~~0.11~~ | ~~0.24~~ | ~~0.37~~ | ~~0.98~~ | ~~0.38~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~32~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ |
| B-1 | 6/12/2006 | 15 | 0.0006 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | 4.3 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-1 | 6/12/2006 | 9.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-1 | 6/12/2006 | 19.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | 2.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| ~~B-1~~ | ~~8/18/1989~~ | ~~15~~ | ~~32~~ | ~~200~~ | ~~60~~ | ~~290~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~2,400~~ | ~~--~~ | ~~--~~ |
| B-2 | 6/12/2006 | 9.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-2 | 6/12/2006 | 15 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-2 | 6/12/2006 | 19.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| ~~B-2~~ | ~~8/18/1989~~ | ~~7~~ | **~~50~~** | ~~450~~ | **~~130~~** | ~~540~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~<100~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~4,100~~ | ~~14,000~~ | ~~--~~ |
| ~~B-2~~ | ~~8/18/1989~~ | ~~11.5~~ | ~~500~~ | ~~2,800~~ | ~~760~~ | ~~3,700~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~31,000~~ | ~~--~~ | ~~--~~ |
| B-3 | 6/12/2006 | 10 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-3 | 6/12/2006 | 15 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-3 | 6/12/2006 | 19.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| ~~B-3~~ | ~~8/18/1989~~ | ~~10.5~~ | ~~<1~~ | ~~2~~ | ~~2~~ | ~~7~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | | ~~<10~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~100~~ | ~~<10~~ | ~~--~~ |
| ~~B-3~~ | ~~8/18/1989~~ | ~~12.5~~ | **~~<5~~** | ~~44~~ | ~~32~~ | ~~130~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~<10~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~950~~ | ~~220~~ | ~~--~~ |
| ~~B-3~~ | ~~8/18/1989~~ | ~~3.5~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~<10~~ | ~~--~~ | ~~--~~ | ~~<50~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ |
| B-4 | 6/12/2006 | 9.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-4 | 6/12/2006 | 15 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-4 | 6/12/2006 | 19.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| ~~B-4~~ | ~~8/18/1989~~ | ~~7.5~~ | **~~57~~** | ~~250~~ | **~~140~~** | ~~610~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~<100~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~5,400~~ | ~~5,100~~ | ~~--~~ |
| ~~B-4~~ | ~~8/18/1989~~ | ~~10.5~~ | ~~92~~ | ~~360~~ | ~~1,100~~ | ~~670~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~5,800~~ | ~~--~~ | ~~--~~ |
| B-5 | 6/12/2006 | 9.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-5 | 6/12/2006 | 14.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-5 | 6/12/2006 | 19.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| ~~B-5~~ | ~~8/18/1989~~ | ~~3.5~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~16,000~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ |
| B-6 | 6/12/2006 | 15 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | 4.6 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-6 | 6/12/2006 | 19.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-6 | 6/12/2006 | 9.5 | <0.002 | <0.005 | <0.005 | <0.002 | -- | -- | -- | -- | 47 | 26 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-7 | 6/12/2006 | 10 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-7 | 6/12/2006 | 14.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-7 | 6/12/2006 | 19.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-8 | 6/12/2006 | 9.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-8 | 6/12/2006 | 14.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-8 | 6/12/2006 | 19.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| BH-1 | 11/16/2002 | 12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <10 | <10 | -- | -- | -- | --- | --- | -- |
| Boring MW-8 | 12/18/1996 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| Boring MW-8 | 12/18/1996 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| Boring MW-8 | 12/18/1996 | 15 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| BWO-1 | 11/18/2002 | 12 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | -- | <1.0 | <10 | -- | -- | <230 | ND [a] | ND [b] | --- | --- | -- |
| C-1 | 11/1/2004 | 5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | 2.8 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-1 | 11/1/2004 | 10 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-1 | 11/1/2004 | 15 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-1 | 11/1/2004 | 20 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-1 | 11/1/2004 | 24.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-2 | 11/1/2004 | 5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | 450 | -- | -- | -- | -- | -- | --- | --- | -- |

**Table 1a. Soil Analytical Results - VOCs, TPH, Metals**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| **LTCP Residential Threshold** | **0-5 ft bgs** | | **1.9** | **-** | **21** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **5-10 ft bgs** | | **2.8** | **-** | **32** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **80** |
| **Leaching to Groundwater Levels (Non Drinking Water)** | **-** | | **0.025** | **10.29** | **0.43** | **10.40** | **2.53** | **0.031** | **0.0019** | **-** | **4,932** | **7,284** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| C-2 | 11/1/2004 | 10 | <0.0005 | 0.002 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | 67 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-2 | 11/1/2004 | 15 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-2 | 11/1/2004 | 20 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | 13 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-2 | 11/1/2004 | 24.5 | <0.0005 | 0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-3 | 11/1/2004 | 15 | <0.001 | <0.002 | 0.003 | 0.005 | <0.001 | <0.002 | <0.002 | -- | 9.7 | 22 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-3 | 11/1/2004 | 10 | 0.75 | 94 | **66** | 310 | <0.63 | <1.3 | <1.3 | -- | 4,800 | 640 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-3 | 11/1/2004 | 20 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-3 | 11/1/2004 | 24.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-4 | 11/2/2004 | 10 | **11** | 410 | **200** | 780 | <0.63 | <1.3 | <1.3 | -- | 6,300 | 1,000 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-4 | 11/2/2004 | 15 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | 3.1 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-4 | 11/2/2004 | 20 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-4 | 11/2/2004 | 24.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-4 | 11/1/2004 | 5 | 0.001 | 0.008 | <0.001 | 0.003 | <0.0005 | <0.001 | <0.001 | -- | 9.2 | 160 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-5 | 11/2/2004 | 10 | <0.0005 | 0.002 | <0.001 | 0.002 | <0.0005 | <0.001 | <0.001 | -- | 2.3 | 330 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-5 | 11/2/2004 | 15 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-5 | 11/2/2004 | 20 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-5 | 11/2/2004 | 24.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-5 | 11/1/2004 | 5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | 1.0 | 160 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-6 | 11/2/2004 | 15 | <0.002 | <0.005 | 0.11 | 0.052 | <0.002 | <0.005 | <0.005 | -- | 27 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-6 | 11/2/2004 | 10 | <0.063 | 3.8 | 6.9 | 36 | <0.063 | <0.13 | <0.13 | -- | 880 | 94 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-6 | 11/2/2004 | 20 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | 4.3 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-6 | 11/2/2004 | 24.5 | <0.0005 | 0.003 | <0.001 | 0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-7 | 11/1/2004 | 15 | <0.063 | 1.9 | 5.7 | 33 | <0.063 | <0.13 | <0.13 | -- | 1,100 | 39 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-7 | 11/1/2004 | 10 | <0.0005 | 0.003 | <0.001 | 0.002 | <0.0005 | <0.001 | <0.001 | -- | <10 | 520 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-7 | 11/1/2004 | 20 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-7 | 11/1/2004 | 24.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-8 | 11/2/2004 | 15 | 0.001 | <0.002 | 0.003 | 0.002 | <0.001 | <0.002 | <0.002 | -- | 19 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-8 | 11/2/2004 | 10 | **20** | 590 | **240** | 990 | <0.62 | <1.2 | 2.5 | -- | 6,200 | 1,200 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-8 | 11/2/2004 | 20 | <0.0005 | <0.001 | <0.001 | 0.001 | <0.0005 | <0.001 | <0.001 | -- | 2.7 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-8 | 11/2/2004 | 24.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-8 | 11/1/2004 | 5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | 38 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-9 | 11/2/2004 | 10 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-9 | 11/2/2004 | 15 | <0.0005 | 0.002 | <0.001 | 0.002 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-9 | 11/2/2004 | 20 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-9 | 11/2/2004 | 24.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-9 | 11/1/2004 | 5 | <0.0005 | 0.003 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <4.0 | 47 | -- | -- | -- | -- | -- | --- | --- | -- |
| CB-1 | 5/21/2014 | 7 | **13** | -- | **250** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1A-S-10.0 | 4/2/2019 | 10 | **32** | 780 | **300** | 1,200 | <10 | -- | -- | **34** | 11,000 | 440 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1A-S-12.5 | 4/3/2019 | 12.5 | 1.9 | 3.3 | 4.9 | 12 | <0.28 | -- | -- | 1.1 | 150 | 26 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1A-S-15.0 | 4/3/2019 | 15 | 5.2 | 100 | 44 | 180 | <2.9 | -- | -- | 5.4 J | 1,200 | 100 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1A-S-17.5 | 4/3/2019 | 17.5 | 0.37 | 0.13 | 0.062 J | 0.16 J | <0.11 | -- | -- | <0.11 | 2 | 7.2 J | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1A-S-2.5 | 4/2/2019 | 2.5 | <0.00048 | <0.00048 | <0.00048 | <0.0012 | <0.0005 | -- | -- | <0.00097 | <0.078 | <2.8 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1A-S-5.0 | 4/2/2019 | 5 | <0.00045 | <0.00045 | <0.00045 | <0.0012 | <0.00090 | -- | -- | <0.00090 | <0.078 | <3.1 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1A-S-7.5 | 4/2/2019 | 7.5 | **<3.1** | 110 | **77** | 340 | <6.2 | -- | -- | **23** | 2,900 | 290 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1B-S-10.0 | 4/9/2019 | 10 | **44** | 1,600 | **360** | 2,300 | <8.2 | -- | -- | **46** | 13,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1B-S-12.5 | 4/9/2019 | 12.5 | 2.6 J | 130 | 62 | 280 | <4.7 | -- | -- | **11 J** | 2,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1B-S-15.0 | 4/9/2019 | 15 | 0.0023 | 0.0042 | 0.0017 | 0.0034 | <0.00069 | -- | -- | <0.00069 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1B-S-17.5 | 4/9/2019 | 17.5 | <0.00056 | 0.005 | 0.0059 | 0.024 | <0.0011 | -- | -- | 0.0015 J | <24 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1B-S-2.5 | 4/9/2019 | 2.5 | <0.00049 | 0.0011 | <0.00049 | 0.0016 J | <0.00097 | -- | -- | <0.00097 | <0.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1B-S-5.0 | 4/9/2019 | 5 | <0.00040 | 0.0023 | 0.00068 J | 0.003 | <0.00079 | -- | -- | <0.00079 | <0.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1B-S-7.5 | 4/9/2019 | 7.5 | **7.6 J** | 320 | **180** | 790 | <9.9 | -- | -- | **30** | 6,200 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2 | 5/21/2014 | 6 | **6.4** | -- | **96** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Table 1a. Soil Analytical Results - VOCs, TPH, Metals**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| **LTCP Residential Threshold** | **0-5 ft bgs** | | **1.9** | **-** | **21** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **5-10 ft bgs** | | **2.8** | **-** | **32** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **80** |
| **Leaching to Groundwater Levels (Non Drinking Water)** | **-** | | **0.025** | **10.29** | **0.43** | **10.40** | **2.53** | **0.031** | **0.0019** | **-** | **4,932** | **7,284** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| CB-2 | 5/21/2014 | 9 | **49** | -- | **300** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2A-S-10 | 4/4/2019 | 10 | **12** | 180 | **64** | 290 | <2.3 | -- | -- | **12** | 2,700 | 1,700 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2A-S-15 | 4/4/2019 | 15 | 2 | 2 | 6.2 | 11 | <0.14 | -- | -- | 1.4 | 260 | 76 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2A-S-17.5 | 4/4/2019 | 17.5 | 0.51 | <0.039 | 0.51 | 0.17 | <0.078 | -- | -- | <0.078 | 2.7 | 3.2 J | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2A-S-2.5 | 4/4/2019 | 2.5 | <0.00050 | 0.00060 J | <0.00050 | <0.0013 | <0.00099 | -- | -- | <0.00099 | <0.13 | 8.2 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2A-S-20.0 | 4/4/2019 | 20 | 0.23 | 0.00074 J | 0.041 | 0.0016 J | <0.00095 | -- | -- | 0.0016 J | 1.2 | 2.9 J | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2A-S-5.0 | 4/4/2019 | 5 | <0.00045 | 0.00052 J | <0.00045 | <0.0012 | <0.00090 | -- | -- | <0.00090 | <0.14 | 4.1 J | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2A-S-7.5 | 4/4/2019 | 7.5 | **<26** | 470 | **280** | 1,200 | <5.2 | -- | -- | **60** | 10,000 | 2,300 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2B-S-10.0 | 4/4/2019 | 10 | **70** | 1,200 | **470** | 2,300 | <9.4 | -- | -- | **94** | 21,000 | 910 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2B-S-12.5 | 4/4/2019 | 12.5 | 79 | 910 | 300 | 1,500 | <8.3 | -- | -- | 66 | 15,000 | 2,400 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2B-S-15.0 | 4/4/2019 | 15 | 2 | 1.5 | 9.6 | 16 | <0.20 | -- | -- | 1.7 | 530 | 9.5 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2B-S-17.5 | 4/4/2019 | 17.5 | 0.31 | 0.0021 | 0.12 | 0.0051 | <0.00075 | -- | -- | 0.0034 | 1.2 | <2.8 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2B-S-2.5 | 4/4/2019 | 2.5 | 0.0016 | 0.0025 | <0.00051 | <0.0013 | <0.0010 | -- | -- | <0.0010 | <0.17 | 4.1 J | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2B-S-5.0 | 4/4/2019 | 5 | <0.00043 | 0.00069 J | <0.00043 | <0.0011 | <0.00085 | -- | -- | <0.00085 | <0.12 | 0.0011 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2B-S-7.5 | 4/4/2019 | 7.5 | **30** | 710 | **370** | 1,500 | <9.9 | -- | -- | **73** | 14,000 | 2,600 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3 | 5/21/2014 | 7 | **12** | -- | **200** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3 | 5/21/2014 | 9 | **32** | -- | **330** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3 | 5/21/2014 | 2 | 0.001 | -- | <0.001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3A-S-10.0 | 4/5/2019 | 10 | 0.083 | 0.019 | 0.028 | 0.027 | <0.00087 | -- | -- | <0.00087 | 0.47 | 5.7 J | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3A-S-12.5 | 4/5/2019 | 12.5 | 83 | 1,100 | **410** | 2,000 | <9.6 | -- | -- | 81 | 13,000 | 1,900 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3A-S-15.0 | 4/5/2019 | 15 | 0.81 | 2.6 | 1.8 | 6.8 | <0.12 | -- | -- | 0.45 | 90 | 6.7 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3A-S-17.5 | 4/5/2019 | 17.5 | 0.12 | 0.074 J | 0.075 J | 0.11 J | <0.085 | -- | -- | <0.085 | 1.5 | 7.6 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3A-S-2.5 | 4/5/2019 | 2.5 | <0.00047 | 0.00099 | <0.00047 | 0.0019 | <0.00094 | -- | -- | <0.00094 | <0.17 | 5.2 J | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3A-S-5.0 | 4/5/2019 | 5 | 0.00089 J | 0.0049 | 0.0014 | 0.0059 | <0.0012 | -- | -- | <0.0012 | 0.14 J | 58 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3A-S-7.5 | 4/5/2019 | 7.5 | 1.1 J | 40 | 29 | 140 | <2.0 | -- | -- | 8.6 | 1,200 | 86 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3B-S-10.0 | 4/5/2019 | 10 | **26** | 550 | **210** | 940 | <7.9 | -- | -- | **33** | 9,500 | 1,300 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3B-S-12.5 | 4/5/2019 | 12.5 | 41 | 670 | 220 | 1,000 | <8.8 | -- | -- | 37 | 11,000 | 1,400 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3B-S-15.0 | 4/5/2019 | 15 | 0.6 | 1.1 | 2.7 | 6.1 | <0.11 | -- | -- | 0.53 | 87 | 88 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3B-S-17.5 | 4/5/2019 | 17.5 | 0.18 | 0.046 J | <0.045 | <0.091 | <0.091 | -- | -- | <0.091 | 1 | 5.1 J | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3B-S-2.5 | 4/5/2019 | 2.5 | 0.0011 J | 0.0022 | <0.00065 | <0.0017 | <0.0013 | -- | -- | <0.0013 | <0.15 | <2.7 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3B-S-5.0 | 4/5/2019 | 5 | <0.00044 | 0.00096 | <0.00044 | <0.0011 | <0.00088 | -- | -- | <0.00088 | <0.13 | 3.2 J | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3B-S-7.5 | 4/5/2019 | 7.5 | **15** | 440 | **240** | 1,000 | <4.8 | -- | -- | **41** | 8,900 | 1,000 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4 | 5/21/2014 | 4 | 0.002 | -- | 0.006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4 | 5/21/2014 | 6 | 0.02 | -- | 0.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4A-S-10.0 | 4/8/2019 | 10 | **4.7** | 210 | **96** | 480 | <3.4 | -- | -- | **24** | 2,700 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4A-S-12.5 | 4/8/2019 | 12.5 | 6.7 | 200 | 73 | 360 | <3.3 | -- | -- | 14 | 2,600 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4A-S-15.0 | 4/8/2019 | 15 | 0.51 | 0.0027 | 0.019 | 0.0058 | <0.00090 | -- | -- | 0.002 | <17 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4A-S-17.5 | 4/8/2019 | 17.5 | 0.0014 | 0.0017 | <0.00040 | <0.0010 | <0.078 | -- | -- | <0.00080 | 0.45 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4A-S-2.5 | 4/8/2019 | 2.5 | 0.00081 J | 0.0037 | 0.002 | 0.0059 | <0.0011 | -- | -- | <0.0011 | <0.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4A-S-5.0 | 4/8/2019 | 5 | 0.0012 | 0.017 | 0.0018 | 0.026 | <0.00089 | -- | -- | <0.00089 | 0.24 J | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4A-S-7.5 | 4/8/2019 | 7.5 | <2.6 | 99 | **77** | 350 | <5.2 | -- | -- | **23** | 2,600 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4B-S-10.0 | 4/9/2019 | 10 | **61** | 1,600 | **430** | 2,800 | <8.6 | -- | -- | **61** | 15,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4B-S-12.5 | 4/9/2019 | 12.5 | 0.22 | 3.6 | 1.3 | 5.9 | <0.18 | -- | -- | 0.29 J | 47 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4B-S-15.0 | 4/9/2019 | 15 | 0.003 | 0.0081 | 0.0019 | 0.0058 | <0.00089 | -- | -- | <0.00089 | 0.89 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4B-S-17.5 | 4/9/2019 | 17.5 | 2.5 | 28 | 8 | 33 | <0.74 | -- | -- | 0.75 J | 420 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4B-S-2.5 | 4/9/2019 | 2.5 | <0.00051 | 0.0027 | <0.00051 | 0.0013 J | <0.0010 | -- | -- | <0.0010 | <0.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4B-S-5.0 | 4/9/2019 | 5 | <0.00043 | 0.00096 | <0.00043 | 0.0012 J | <0.00086 | -- | -- | <0.00086 | <0.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4B-S-7.5 | 4/9/2019 | 7.5 | **<2.0** | 52 | 32 | 140 | <4.0 | -- | -- | **13** | 1,400 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4C-S-10.0 | 4/3/2019 | 10 | **110** | 2,300 | **870** | 4,000 | <12 | -- | -- | **160** | 33,000 | 7,800 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4C-S-12.5 | 4/4/2019 | 12.5 | 7.4 | 87 | 32 | 140 | <5.2 | -- | -- | 5.3 J | 1,500 | 130 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4C-S-15.0 | 4/4/2019 | 15 | 5.1 | 41 | 20 | 71 | <1.5 | -- | -- | 3.1 J | 810 | 44 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4C-S-17.5 | 4/4/2019 | 17.5 | 0.57 | <0.045 | 0.17 | <0.090 | <0.090 | -- | -- | <0.090 | <18 | <2.9 | -- | -- | -- | -- | -- | -- | -- | -- |

**Table 1a. Soil Analytical Results - VOCs, TPH, Metals**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| **LTCP Residential Threshold** | **0-5 ft bgs** | | **1.9** | **-** | **21** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **5-10 ft bgs** | | **2.8** | **-** | **32** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **80** |
| **Leaching to Groundwater Levels (Non Drinking Water)** | **-** | | **0.025** | **10.29** | **0.43** | **10.40** | **2.53** | **0.031** | **0.0019** | **-** | **4,932** | **7,284** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| CB-4C-S-2.5 | 4/3/2019 | 2.5 | <0.00059 | 0.00086 J | <0.00059 | <0.0015 | <0.0012 | -- | -- | <0.0012 | <0.21 | 4.8 J | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4C-S-5.0 | 4/3/2019 | 5 | <0.00054 | 0.00081 J | <0.00054 | <0.0014 | <0.0011 | -- | -- | <0.0011 | 0.20 J | <3.7 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4C-S-7.5 | 4/3/2019 | 7.5 | **24** | 900 | **470** | 2,000 | <12 | -- | -- | **86** | 16,000 | 2,700 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-5 | 5/21/2014 | 7 | **2.9** | -- | **56** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-5 | 5/21/2014 | 9 | **28** | -- | **280** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-5A-S-10.0 | 4/5/2019 | 10 | **29** | 500 | **210** | 840 | <4.1 | -- | -- | **28** | 10,000 | 1,300 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-5A-S-12.5 | 4/5/2019 | 12.5 | 89 | 2,000 | 610 | 3,300 | <9.2 | -- | -- | 73 | 28,000 | 1,900 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-5A-S-15.0 | 4/5/2019 | 15 | 0.78 | 8.1 | 4.1 | 17 | <0.22 | -- | -- | 0.67 | 210 | 52 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-5A-S-17.5 | 4/5/2019 | 17.5 | 0.0011 | 0.018 | 0.0032 | 0.012 | <0.00082 | -- | -- | <0.00082 | 0.14 J | <2.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-5A-S-2.5 | 4/5/2019 | 2.5 | 0.0011 J | 0.0042 | <0.00076 | 0.0038 | <0.0015 | -- | -- | <0.0015 | 0.16 J | 6.8 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-5A-S-5.0 | 4/5/2019 | 5 | <0.00045 | 0.00075 J | <0.00045 | <0.0012 | <0.00090 | -- | -- | <0.00090 | 0.20 J | 5.0 J | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-5A-S-7.5 | 4/5/2019 | 7.5 | 0.011 | 0.046 | 0.016 | 0.061 | <0.0012 | -- | -- | 0.014 | 0.75 | 8 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-6 | 5/21/2014 | 7 | 2.2 | -- | 31 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-6A-S-10.0 | 4/8/2019 | 10 | **17** | 320 | **120** | 540 | <0.44 | -- | -- | **18** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-6A-S-12.5 | 4/8/2019 | 12.5 | 1.8 | 4 | 2 | 7.9 | <0.080 | -- | -- | 0.28 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-6A-S-15.0 | 4/8/2019 | 15 | 0.011 | 0.00098 | 0.00051 J | <0.0010 | <0.00078 | -- | -- | <0.00078 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-6A-S-17.5 | 4/8/2019 | 17.5 | 0.059 | 0.014 | 0.042 | 0.019 | <0.00081 | -- | -- | 0.0024 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-6A-S-2.5 | 4/8/2019 | 2.5 | 0.007 | 0.021 | <0.00046 | 0.0024 | <0.00092 | -- | -- | <0.00092 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-6A-S-20.0 | 4/8/2019 | 20 | 0.74 | 110 | 4.1 | 190 | <0.088 | -- | -- | 0.77 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-6A-S-5.0 | 4/8/2019 | 5 | <0.00042 | 0.00063 J | <0.00042 | <0.0011 | <0.00085 | -- | -- | <0.00085 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-6A-S-7.5 | 4/8/2019 | 7.5 | **2.9** | 88 | **58** | 250 | <0.42 | -- | -- | **12** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-7 | 5/21/2014 | 9 | **3.2** | -- | 29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-7 | 5/21/2014 | 4.5 | 0.0006 | -- | <0.001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-1 | 10/6/2004 | 35 | 0.0005 | 0.005 | 0.004 | 0.023 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-1 | 10/6/2004 | 40 | 0.01 | 0.098 | 0.040 | 0.20 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-1 | 10/6/2004 | 10.5 | 10 | 230 | 92 | 460 | <0.62 | <1.2 | <1.2 | -- | 5,300 | 860 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-1 | 10/6/2004 | 14.5 | 0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | 2.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-1 | 10/6/2004 | 25.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-1 | 10/6/2004 | 29.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-2 | 10/7/2004 | 10.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-2 | 10/7/2004 | 14.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-2 | 10/7/2004 | 20.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-2 | 10/7/2004 | 25.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-2 | 10/7/2004 | 29.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-2 | 10/7/2004 | 35.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-2 | 10/7/2004 | 40.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-2 | 10/6/2004 | 5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <4.0 | 560 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-3 | 10/12/2004 | 25.5 | 0.001 | 0.009 | 0.001 | 0.005 | <0.0005 | <0.001 | <0.001 | -- | 1.3 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-3 | 10/12/2004 | 40.5 | 0.008 | 0.032 | 0.002 | 0.13 | <0.0005 | <0.001 | <0.001 | -- | 4.5 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-3 | 10/12/2004 | 20.5 | 0.002 | 0.003 | 0.01 | 0.025 | <0.0005 | <0.001 | <0.001 | -- | 14 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-3 | 10/12/2004 | 15.5 | 0.094 | 0.028 | 0.34 | 0.31 | <0.003 | <0.005 | <0.005 | -- | 18 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-3 | 10/12/2004 | 10.5 | 1.9 | 200 | 130 | 660 | <0.25 | <0.50 | <0.50 | -- | 9,000 | 890 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-3 | 10/12/2004 | 35.5 | 0.013 | 0.031 | <0.001 | 0.11 | <0.0005 | <0.001 | <0.001 | -- | 3.3 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-3 | 10/12/2004 | 29.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-4 | 10/8/2004 | 14.5 | <0.0005 | 0.005 | 0.001 | 0.005 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-4 | 10/8/2004 | 29.5 | <0.0005 | 0.004 | 0.001 | 0.005 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-4 | 10/8/2004 | 10.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | 1.2 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-4 | 10/8/2004 | 20.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-4 | 10/8/2004 | 25.5 | <0.0005 | 0.002 | <0.001 | 0.002 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-4 | 10/8/2004 | 35.5 | <0.0005 | 0.001 | <0.001 | 0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-4 | 10/8/2004 | 40.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-4 | 10/6/2004 | 5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | 46 | -- | -- | -- | -- | -- | --- | --- | -- |

**Table 1a. Soil Analytical Results - VOCs, TPH, Metals**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| **LTCP Residential Threshold** | **0-5 ft bgs** | | **1.9** | **-** | **21** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **5-10 ft bgs** | | **2.8** | **-** | **32** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **80** |
| **Leaching to Groundwater Levels (Non Drinking Water)** | **-** | | **0.025** | **10.29** | **0.43** | **10.40** | **2.53** | **0.031** | **0.0019** | **-** | **4,932** | **7,284** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| CPT-5 | 10/11/2004 | 29.5 | 0.0005 | 0.005 | 0.002 | 0.010 | <0.0005 | <0.001 | <0.001 | -- | 13 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-5 | 10/11/2004 | 50.5 | <0.0005 | 0.003 | 0.002 | 0.010 | <0.0005 | <0.001 | <0.001 | -- | 4.8 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-5 | 10/11/2004 | 35.5 | <0.0005 | 0.006 | 0.003 | 0.015 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-5 | 10/11/2004 | 25.5 | 0.081 | 0.75 | 0.12 | 0.74 | <0.0005 | <0.001 | <0.001 | -- | 7.6 | 22 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-5 | 10/11/2004 | 9.5 | **13** | 260 | **100** | 550 | <0.25 | <0.50 | 1.5 | -- | 7,200 | 530 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-5 | 10/11/2004 | 5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | 1.5 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-5 | 10/11/2004 | 69.5 | <0.0005 | 0.001 | <0.001 | 0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-5 | 10/11/2004 | 15.5 | <0.063 | <0.13 | <0.13 | 0.13 | <0.063 | <0.13 | <0.13 | -- | 140 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| EXB-1 | 11/14/2002 | 12 | 25 | 230 | 87 | 380 | 59 | -- | -- | -- | 4,000 | 1,100 | -- | -- | -- | -- | -- | --- | --- | -- |
| EXB-2 | 11/15/2002 | 14 | 7.3 | 71 | 42 | 200 | 19 | -- | -- | -- | 1,900 | 270 | -- | -- | -- | -- | -- | --- | --- | -- |
| EXB-3 | 11/16/2002 | 12 | 9.5 | 170 | 86 | 370 | 18 | -- | -- | -- | 3,400 | 920 | -- | -- | -- | -- | -- | --- | --- | -- |
| EXB-4 | 11/16/2002 | 12 | 22 | 310 | 150 | 640 | 36 | -- | -- | -- | 6,900 | 1,100 | -- | -- | -- | -- | -- | --- | --- | -- |
| ~~G-1~~ | ~~6/21/2002~~ | ~~5~~ | ~~0.95~~ | ~~46~~ | ~~**52**~~ | ~~240~~ | <5 | -- | -- | -- | ~~3,000~~ | ~~----~~ | -- | -- | -- | -- | -- | --- | --- | 4.7 |
| ~~G-1~~ | ~~6/21/2002~~ | ~~10~~ | ~~**31**~~ | ~~660~~ | ~~**290**~~ | ~~1,100~~ | 76 | -- | -- | -- | ~~12,000~~ | ~~----~~ | -- | -- | -- | -- | -- | --- | --- | 15.6 |
| ~~G-10~~ | ~~6/21/2002~~ | ~~5~~ | ~~0.014~~ | ~~0.073~~ | ~~0.012~~ | ~~0.052~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ~~----~~ | -- | -- | -- | -- | -- | --- | --- | 2.6 |
| ~~G-10~~ | ~~6/21/2002~~ | ~~10~~ | ~~1.4~~ | ~~32~~ | ~~**52**~~ | ~~270~~ | <1 | -- | -- | -- | ~~2,100~~ | ~~----~~ | -- | -- | -- | -- | -- | --- | --- | 7.3 |
| ~~G-11~~ | ~~6/21/2002~~ | ~~5~~ | ~~<0.0050~~ | ~~0.035~~ | ~~0.019~~ | ~~0.084~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ~~----~~ | -- | -- | -- | -- | -- | --- | --- | 5.2 |
| ~~G-11~~ | ~~6/21/2002~~ | ~~10~~ | ~~<0.080~~ | ~~0.43~~ | ~~0.53~~ | ~~3.1~~ | <0.2 | -- | -- | -- | ~~100~~ | ~~----~~ | -- | -- | -- | -- | -- | --- | --- | 5.5 |
| ~~G-12~~ | ~~6/21/2002~~ | ~~10~~ | ~~**50**~~ | ~~540~~ | ~~**240**~~ | ~~1,200~~ | 58 | -- | -- | -- | ~~9,000~~ | ~~----~~ | -- | -- | -- | -- | -- | --- | --- | 7.0 |
| ~~G-12~~ | ~~6/21/2002~~ | ~~5~~ | ~~<0.0050~~ | ~~0.034~~ | ~~0.010~~ | ~~0.057~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ~~----~~ | -- | -- | -- | -- | -- | --- | --- | 16.1 |
| ~~G-13~~ | ~~6/21/2002~~ | ~~10~~ | ~~**56**~~ | ~~600~~ | ~~**290**~~ | ~~1,400~~ | 70 | -- | -- | -- | ~~12,000~~ | ~~----~~ | -- | -- | -- | -- | -- | --- | --- | 6.2 |
| ~~G-13~~ | ~~6/21/2002~~ | ~~5~~ | ~~<0.0050~~ | ~~0.0062~~ | ~~<0.0050~~ | ~~0.019~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ~~----~~ | -- | -- | -- | -- | -- | --- | --- | 7.5 |
| ~~G-14~~ | ~~6/21/2002~~ | ~~5~~ | ~~**<20**~~ | ~~190~~ | ~~**120**~~ | ~~510~~ | 19 | -- | -- | -- | ~~3,900~~ | ~~----~~ | -- | -- | -- | -- | -- | --- | --- | 5.2 |
| ~~G-14~~ | ~~6/21/2002~~ | ~~10~~ | ~~**65**~~ | ~~940~~ | ~~**400**~~ | ~~1,700~~ | 170 | -- | -- | -- | ~~14,000~~ | ~~----~~ | -- | -- | -- | -- | -- | --- | --- | 11.9 |
| G-15 | 6/21/2002 | 10 | **12** | 320 | **110** | 450 | 31 | -- | -- | -- | 5,800 | --- | -- | -- | -- | -- | -- | --- | --- | 6.5d |
| G-15 | 6/21/2002 | 5 | <0.0050 | 0.020 | <0.0050 | 0.017 | <0.050 | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | 22.5d |
| G-15-C | 4/15/2021 | 15 | 0.00018 J | 0.0014 | 0.00094 | 0.0021 | <0.0014 | <0.00070 | <0.00070 | <0.0070 | 0.046 J | -- | -- | -- | -- | -- | -- | --- | --- | -- |
| G-15-C | 4/15/2021 | 10 | **6.9** | 280 | **120** | 430 | <8.0 | <4.0 | <4.0 | **33 J** | 4,700 | 80 | <5.0 | -- | -- | -- | -- | --- | --- | -- |
| G-15-C | 4/12/2021 | 5 | 0.00023 J | <0.00089 | <0.00089 | <0.0018 | <0.0018 | <0.00089 | <0.00089 | <0.0089 | <0.081 | <4.7 | <4.7 | -- | -- | -- | -- | --- | --- | -- |
| G-16 | 6/21/2002 | 10 | **5.1** | 110 | **52** | 230 | 11 | -- | -- | -- | 2,100 | --- | -- | -- | -- | -- | -- | --- | --- | 6.5d |
| G-16 | 6/21/2002 | 5 | <0.0050 | 0.015 | <0.0050 | <0.015 | <0.050 | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | 2.4d |
| G-16-C | 4/15/2021 | 10 | **45** | 890 | **240** | 780 | <7.6 | <3.8 | <3.8 | **43** | 8,100 | 170 | <4.9 | -- | -- | -- | -- | --- | --- | -- |
| G-16-C | 4/13/2021 | 5 | <0.00071 | <0.00071 | <0.00071 | <0.0014 | <0.0014 | <0.00071 | <0.00071 | <0.0071 | <0.079 | <4.9 | <4.9 | -- | -- | -- | -- | --- | --- | -- |
| G-17 | 6/21/2002 | 5 | 0.082 | 0.78 | 0.54 | 1.2 | 0.22 | -- | -- | -- | 35 | --- | -- | -- | -- | -- | -- | --- | --- | 368d |
| G-17 | 6/21/2002 | 10 | 0.62 | 9.2 | 9.9 | 41 | <5.0 | -- | -- | -- | 420 | --- | -- | -- | -- | -- | -- | --- | --- | 5.7d |
| G-17-C | 4/15/2021 | 10 | 2 | 100 | **50** | 170 | <1.6 | <0.82 | <0.82 | **12** | 2,400 | 40 | <4.9 | -- | -- | -- | -- | --- | --- | 12 |
| G-17-C | 4/15/2021 | 15 | <0.00073 | 0.0012 | 0.0017 | 0.0032 | <0.0015 | <0.00073 | <0.00073 | <0.0073 | 0.75 | <4.9 | <4.9 | -- | -- | -- | -- | --- | --- | 2.7 J |
| G-17-C | 4/13/2021 | 5 | 0.0054 | 0.067 | 0.03 | 0.087 | <0.0015 | <0.00075 | <0.00075 | 0.0074 J | 1.6 | <4.9 | <4.9 | -- | -- | -- | -- | --- | --- | 9.6 |
| G-18 | 6/21/2002 | 5 | 0.11 | 1.1 | 0.76 | 2.6 | <0.20 | -- | -- | -- | 81 | --- | -- | -- | -- | -- | -- | --- | --- | 3.7d |
| G-18 | 6/21/2002 | 10 | **4.9** | 68 | **51** | 220 | <5.0 | -- | -- | -- | 1,700 | --- | -- | -- | -- | -- | -- | --- | --- | 5d |
| G-19 | 6/21/2002 | 10 | **20** | 230 | **110** | 450 | <5.0 | -- | -- | -- | 4,500 | --- | -- | -- | -- | -- | -- | --- | --- | 5.8d |
| G-19 | 6/21/2002 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.050 | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | 2.6d |
| ~~G-2~~ | ~~6/21/2002~~ | ~~5~~ | ~~**2.8**~~ | ~~84~~ | ~~**77**~~ | ~~310~~ | 5.5 | -- | -- | -- | ~~2,700~~ | ~~----~~ | -- | -- | -- | -- | -- | --- | --- | 7.1 |
| ~~G-2~~ | ~~6/21/2002~~ | ~~10~~ | ~~**7.5**~~ | ~~200~~ | ~~**120**~~ | ~~500~~ | 11 | -- | -- | -- | ~~3,800~~ | ~~----~~ | -- | -- | -- | -- | -- | --- | --- | 8.7 |
| ~~G-20~~ | ~~6/21/2002~~ | ~~5~~ | ~~**3.2**~~ | ~~31~~ | ~~30~~ | ~~140~~ | <5.0 | -- | -- | -- | ~~1,700~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 4.3d |
| ~~G-20~~ | ~~6/21/2002~~ | ~~10~~ | ~~**26**~~ | ~~360~~ | ~~**200**~~ | ~~860~~ | <20 | -- | -- | -- | ~~6,900~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 5.1d |
| G-21 | 6/21/2002 | 10 | 0.0091 | 0.18 | 0.055 | 0.23 | <0.50 | -- | -- | -- | 1.0 | --- | -- | -- | -- | -- | -- | --- | --- | 44.0d |
| G-21 | 6/21/2002 | 5 | <0.0050 | 0.016 | <0.0050 | 0.016 | <0.50 | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | 4.2d |
| G-22[1] | 6/21/2002 | 2.5,5,7.5,10 | 0.063 | 0.47 | 0.28 | 2 | <0.50 | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| G-23[1] | 6/21/2002 | 2.5,5,7.5,10 | <0.0050 | 0.012 | <0.0050 | 0.017 | <0.050 | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| G-24 | 1/29/2003 | 15 | 0.026 | 0.012 | 0.0096 | <0.015 | <0.050 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| G-24 | 1/29/2003 | 10 | 0.0074 | 0.014 | <0.0050 | <0.015 | <0.050 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |

**Table 1a. Soil Analytical Results - VOCs, TPH, Metals**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| **LTCP Residential Threshold** | **0-5 ft bgs** | | **1.9** | **-** | **21** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **5-10 ft bgs** | | **2.8** | **-** | **32** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **80** |
| **Leaching to Groundwater Levels (Non Drinking Water)** | **-** | | **0.025** | **10.29** | **0.43** | **10.40** | **2.53** | **0.031** | **0.0019** | **-** | **4,932** | **7,284** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| G-24 | 1/29/2003 | 5 | <0.0050 | 0.012 | <0.0050 | <0.015 | <0.050 | -- | -- | -- | <1.0 | 52 | -- | -- | -- | -- | -- | --- | --- | -- |
| G-25 | 1/29/2003 | 15 | 8.5 | 90 | 35 | 140 | 16 | -- | -- | -- | 1,200 | 350 | -- | -- | -- | -- | -- | --- | --- | -- |
| G-25 | 1/29/2003 | 10 | **27** | 560 | **290** | 1,200 | <53 | -- | -- | -- | 8,800 | 1,400 | -- | -- | -- | -- | -- | --- | --- | -- |
| G-25 | 1/29/2003 | 5 | <0.0050 | 0.0095 | <0.0050 | <0.015 | <0.050 | -- | -- | -- | <1.0 | 53 | -- | -- | -- | -- | -- | --- | --- | -- |
| G-26 | 1/29/2003 | 5 | <0.0050 | 0.020 | 0.0076 | 0.036 | <0.05 | -- | -- | -- | 2.2 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| G-26 | 1/29/2003 | 15 | 0.0092 | <0.020 | 0.019 | 0.031 | <0.05 | -- | -- | -- | 2.2 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| G-26 | 1/29/2003 | 10 | <0.0050 | 0.0092 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| G-27 | 1/29/2003 | 10 | **13** | 250 | **180** | 700 | 20 | -- | -- | -- | 5,500 | 1,600 | -- | -- | -- | -- | -- | --- | --- | -- |
| G-27 | 1/29/2003 | 15 | 58 | 790 | 350 | 1,300 | 94 | -- | -- | -- | 10,000 | 170 | -- | -- | -- | -- | -- | --- | --- | -- |
| G-27 | 1/29/2003 | 5 | <0.0050 | 0.020 | <0.0050 | 0.018 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| G-27-C | 4/15/2021 | 15 | 0.00032 J | 0.00093 | 0.001 | 0.002 | <0.0015 | <0.00073 | <0.00073 | <0.0073 | 0.32 | -- | -- | -- | -- | -- | -- | --- | --- | -- |
| G-27-C | 4/15/2021 | 10 | 1.5 J | 94 | **67** | 210 | <8.1 | <4.0 | <4.0 | **<40** | 2,700 | -- | -- | -- | -- | -- | -- | --- | --- | -- |
| G-27-C | 4/13/2021 | 5 | <0.00078 | <0.00078 | <0.00078 | <0.0016 | <0.0016 | <0.00078 | <0.00078 | <0.0078 | <0.082 | <5.2 | <5.2 | -- | -- | -- | -- | --- | --- | -- |
| G-28 | 1/29/2003 | 5 | 0.0054 | 0.030 | 0.0063 | 0.026 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| G-28 | 1/29/2003 | 10 | 0.027 | 0.096 | 0.056 | 0.28 | <0.05 | -- | -- | -- | 16 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| G-28 | 1/29/2003 | 15 | 2.3 | 34 | 17 | 71 | <10 | -- | -- | -- | 620 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| G-29 | 1/29/2003 | 5 | <0.0050 | 0.021 | 0.0057 | 0.021 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| G-29 | 1/29/2003 | 10 | **39** | 380 | **160** | 640 | 95 | -- | -- | -- | 5,200 | 410 | -- | -- | -- | -- | -- | --- | --- | -- |
| G-29 | 1/29/2003 | 15 | 14 | 290 | **170** | 670 | 18 | -- | -- | -- | 4,800 | 1,100 | -- | -- | -- | -- | -- | --- | --- | -- |
| ~~G-3~~ | ~~6/21/2002~~ | ~~5~~ | ~~0.0059~~ | ~~0.049~~ | ~~0.016~~ | ~~0.057~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 5.8 |
| ~~G-3~~ | ~~6/21/2002~~ | ~~10~~ | ~~**19**~~ | ~~520~~ | ~~**290**~~ | ~~1,100~~ | 63 | -- | -- | -- | ~~7,700~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 5.9 |
| G-30 | 1/29/2003 | 5 | 0.014 | 0.25 | 0.14 | 0.70 | <0.05 | -- | -- | -- | 7.1 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| G-30 | 1/29/2003 | 15 | 27 | 210 | 85 | 370 | <10 | -- | -- | -- | 3,500 | 500 | -- | -- | -- | -- | -- | --- | --- | -- |
| G-30 | 1/29/2003 | 10 | **92** | 1,000 | **480** | 1,900 | 150 | -- | -- | -- | 16,000 | 1,600 | -- | -- | -- | -- | -- | --- | --- | -- |
| ~~G-4~~ | ~~6/21/2002~~ | ~~5~~ | ~~<0.0050~~ | ~~0.021~~ | ~~0.0056~~ | ~~0.027~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 2.7 |
| ~~G-4~~ | ~~6/21/2002~~ | ~~10~~ | ~~**3.5**~~ | ~~140~~ | ~~**120**~~ | ~~480~~ | 6.2 | -- | -- | -- | ~~3,300~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 7.4 |
| ~~G-5~~ | ~~6/21/2002~~ | ~~5~~ | ~~<0.0050~~ | ~~0.041~~ | ~~0.022~~ | ~~0.064~~ | <0.05 | -- | -- | -- | ~~7.1~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 4.3 |
| ~~G-5~~ | ~~6/21/2002~~ | ~~10~~ | ~~0.062~~ | ~~0.58~~ | ~~0.62~~ | ~~2.4~~ | 0.094 | -- | -- | -- | ~~45~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 9.7 |
| ~~G-6~~ | ~~6/21/2002~~ | ~~5~~ | ~~<0.0050~~ | ~~0.0069~~ | ~~0.0054~~ | ~~0.022~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 3.5 |
| ~~G-6~~ | ~~6/21/2002~~ | ~~10~~ | ~~**19**~~ | ~~360~~ | ~~**190**~~ | ~~900~~ | 28 | -- | -- | -- | ~~6,300~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 9.2 |
| ~~G-7~~ | ~~6/21/2002~~ | ~~5~~ | ~~0.0057~~ | ~~0.045~~ | ~~0.012~~ | ~~0.046~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 3.0 |
| ~~G-7~~ | ~~6/21/2002~~ | ~~10~~ | ~~**18**~~ | ~~420~~ | ~~**250**~~ | ~~1,100~~ | 28 | -- | -- | -- | ~~7,300~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 15.6 |
| ~~G-8~~ | ~~6/21/2002~~ | ~~5~~ | ~~**8.4**~~ | ~~280~~ | ~~**210**~~ | ~~960~~ | <20 | -- | -- | -- | ~~7,100~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 5.6 |
| ~~G-8~~ | ~~6/21/2002~~ | ~~10~~ | ~~**69**~~ | ~~1,100~~ | ~~**470**~~ | ~~1,900~~ | 150 | -- | -- | -- | ~~16,000~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 12.3 |
| ~~G-9~~ | ~~6/21/2002~~ | ~~10~~ | ~~**83**~~ | ~~1,200~~ | ~~**520**~~ | ~~2,200~~ | 150 | -- | -- | -- | ~~19,000~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 17 |
| ~~G-9~~ | ~~6/21/2002~~ | ~~5~~ | ~~1.9~~ | ~~54~~ | ~~**57**~~ | ~~350~~ | <5 | -- | -- | -- | ~~3,700~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 17.7 |
| ~~MW-1~~ | ~~10/17/1995~~ | ~~5~~ | ~~0.091~~ | ~~0.49~~ | ~~0.14~~ | ~~1.9~~ | ~~--~~ | ~~--~~ | ~~--~~ | -- | ~~11~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ |
| ~~MW-1~~ | ~~10/17/1995~~ | ~~10~~ | ~~**120**~~ | ~~800~~ | ~~**270**~~ | ~~1,300~~ | ~~--~~ | ~~--~~ | ~~--~~ | -- | ~~14,000~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ |
| MW-10 | 4/10/2007 | 41.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | 2.5 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-10 | 4/10/2007 | 44.5 | <0.0005 | 0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-10 | 4/10/2007 | 49.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-10 | 4/10/2007 | 54.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-10 | 4/10/2007 | 59.5 | <0.0005 | 0.003 | <0.001 | 0.005 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-11 | 4/9/2007 | 9.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-11 | 4/9/2007 | 14.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-11 | 4/9/2007 | 19.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-11 | 4/9/2007 | 24.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-11 | 4/9/2007 | 29.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-11 | 4/9/2007 | 34.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-11 | 4/9/2007 | 39.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-12 | 4/10/2007 | 39.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-12 | 4/10/2007 | 44.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |

**Table 1a. Soil Analytical Results - VOCs, TPH, Metals**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| **LTCP Residential Threshold** | **0-5 ft bgs** | | **1.9** | **-** | **21** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **5-10 ft bgs** | | **2.8** | **-** | **32** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **80** |
| **Leaching to Groundwater Levels (Non Drinking Water)** | **-** | | **0.025** | **10.29** | **0.43** | **10.40** | **2.53** | **0.031** | **0.0019** | **-** | **4,932** | **7,284** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| MW-12 | 4/10/2007 | 49.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-12 | 4/10/2007 | 54.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-12 | 4/10/2007 | 59.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-14 | 4/11/2007 | 49.5 | 0.004 | 0.011 | 0.005 | 0.024 | -- | -- | -- | -- | 1.5 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-14 | 4/11/2007 | 14.5 | 0.097 | 0.45 | 3.2 | 10 | -- | -- | -- | -- | 880 | 13 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-14 | 4/11/2007 | 9.0 | 0.23 | 35 | **34** | 180 | -- | -- | -- | -- | 3,400 | 33 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-14 | 4/11/2007 | 44.5 | 0.0005 | 0.004 | <0.001 | 0.004 | -- | -- | -- | -- | 2.1 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-14 | 4/11/2007 | 19.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | 7.3 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-14 | 4/11/2007 | 24.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | 1.2 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-14 | 4/11/2007 | 29.5 | <0.0005 | 0.002 | <0.001 | 0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-14 | 4/11/2007 | 34.5 | <0.0005 | 0.002 | <0.001 | 0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-14 | 4/11/2007 | 39.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-14 | 4/11/2007 | 54.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-14 | 4/11/2007 | 59.5 | <0.0005 | 0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-17 | 4/13/2007 | 14.5 | 0.003 | 0.002 | 0.002 | 0.005 | -- | -- | -- | -- | 1.5 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-17 | 4/13/2007 | 19.5 | <0.0005 | 0.004 | 0.002 | 0.011 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-17 | 4/13/2007 | 49.5 | 0.001 | 0.019 | 0.007 | 0.018 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-17 | 4/13/2007 | 44.5 | 0.002 | 0.032 | 0.014 | 0.032 | -- | -- | -- | -- | 3.1 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-17 | 4/13/2007 | 9.5 | **7.2** | 330 | **150** | 650 | -- | -- | -- | -- | 7,300 | 710 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-17 | 4/13/2007 | 59.5 | 0.0006 | 0.004 | <0.001 | 0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-17 | 4/13/2007 | 24.5 | <0.0005 | 0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-17 | 4/13/2007 | 29.5 | <0.0005 | 0.002 | <0.001 | 0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-17 | 4/13/2007 | 34.5 | <0.0005 | 0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-17 | 4/13/2007 | 39.5 | <0.0005 | 0.003 | <0.001 | 0.003 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-17 | 4/13/2007 | 54.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-17 | 4/13/2007 | 64.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-17 | 4/13/2007 | 69.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-17 | 4/13/2007 | 74.5 | <0.0005 | 0.002 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-1A | 1/29/2003 | 16 | 0.013 | 0.033 | 0.0087 | 0.027 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-2 | 10/17/1995 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-2 | 10/17/1995 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-3 | 10/17/1995 | 10 | 0.24 | 0.010 | 0.016 | 0.019 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-3 | 10/17/1995 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-4 | 10/18/1995 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-4 | 10/18/1995 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-5 | 12/18/1996 | 5 | <0.0050 | 0.016 | 0.0083 | 0.046 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-5 | 12/18/1996 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-5 | 12/18/1996 | 15 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-6 | 12/18/1996 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-6 | 12/18/1996 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-6 | 12/18/1996 | 15 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-7 | 12/18/1996 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-7 | 12/18/1996 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-7 | 12/18/1996 | 15 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-8 | 1/9/2002 | 11 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.050 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-8 | 1/9/2002 | 15 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.050 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-8 | 1/9/2002 | 20 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.050 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-9 | 4/9/2007 | 19.5 | 0.001 | <0.001 | 0.001 | 0.001 | -- | -- | -- | -- | 7.1 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-9 | 4/9/2007 | 14.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | 1.6 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-9 | 4/9/2007 | 24.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-9 | 4/9/2007 | 29.5 | <0.0005 | 0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-9 | 4/9/2007 | 34.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |

**Table 1a. Soil Analytical Results - VOCs, TPH, Metals**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| **LTCP Residential Threshold** | **0-5 ft bgs** | | **1.9** | **-** | **21** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **5-10 ft bgs** | | **2.8** | **-** | **32** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **80** |
| **Leaching to Groundwater Levels (Non Drinking Water)** | **-** | | **0.025** | **10.29** | **0.43** | **10.40** | **2.53** | **0.031** | **0.0019** | **-** | **4,932** | **7,284** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| MW-9 | 4/9/2007 | 39.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| P-1 | 3/22/1996 | 17 | <0.0050 | <0.0050 | 0.0080 | 0.0090 | <0.025 | -- | -- | -- | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-1 | 3/22/1996 | 10 | <0.5 | 18 | 9.7 | 46 | <2.5 | -- | -- | -- | 510 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-1 | 3/22/1996 | 6 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.025 | -- | -- | -- | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-2 | 3/22/1996 | 6 | **<4.0** | 120 | **71** | 330 | <20 | -- | -- | -- | 4,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-3 | 3/22/1996 | 20 | 3.7 | 21 | 6.2 | 27 | <0.62 | -- | -- | -- | 260 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-3 | 3/22/1996 | 16 | 41 | 310 | **110** | 1,400 | <20 | -- | -- | -- | 5,400 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~P-3~~ | ~~3/22/1996~~ | ~~10~~ | **38** | ~~780~~ | **280** | ~~1,400~~ | ~~<50~~ | -- | -- | -- | ~~13,000~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7 | 3/22/1996 | 15 | <0.0050 | 0.31 | 0.15 | 0.71 | <0.025 | -- | -- | -- | 13 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7 | 3/22/1996 | 6 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.025 | -- | -- | -- | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7 | 3/22/1996 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.025 | -- | -- | -- | 1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-8 | 3/22/1996 | 6 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.025 | -- | -- | -- | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-8 | 3/22/1996 | 12 | <0.0050 | 0.0068 | <0.0050 | <0.0050 | <0.025 | -- | -- | -- | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SB-1 | 4/13/2021 | 10 | <0.00090 | <0.00090 | <0.00090 | <0.0018 | <0.0018 | <0.00090 | <0.00090 | <0.0090 | <0.076 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SB-1 | 4/13/2021 | 15 | 0.00050 J | 0.00082 J | <0.0013 | <0.0026 | <0.0026 | <0.0013 | <0.0013 | <0.013 | 0.055 J | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SB-1 | 4/12/2021 | 5 | <0.00091 | <0.00091 | <0.00091 | <0.0018 | <0.0018 | <0.00091 | <0.00091 | <0.0091 | <0.093 | <5.0 | 14 | -- | -- | -- | -- | -- | -- | -- |
| ~~SB-1~~ | ~~10/17/1995~~ | ~~5~~ | ~~0.34~~ | ~~1.2~~ | ~~1.2~~ | ~~1.3~~ | -- | -- | -- | -- | ~~87~~ | ~~--~~ | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SB-1~~ | ~~10/17/1995~~ | ~~10~~ | ~~**72**~~ | ~~640~~ | ~~**240**~~ | ~~1,100~~ | -- | -- | -- | -- | ~~8,100~~ | ~~--~~ | -- | -- | -- | -- | -- | -- | -- | -- |
| SB-2 | 4/13/2021 | 15 | <0.00072 | <0.00072 | <0.00072 | <0.0014 | <0.0014 | <0.00072 | <0.00072 | <0.0072 | <0.074 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SB-2 | 4/13/2021 | 10 | <0.00075 | <0.00075 | <0.00075 | <0.0015 | <0.0015 | <0.00075 | <0.00075 | <0.0075 | <0.078 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SB-2 | 4/12/2021 | 5 | <0.00087 | <0.00087 | <0.00087 | <0.0017 | <0.0017 | <0.00087 | <0.00087 | <0.0087 | <0.091 | <5.1 | <5.1 | -- | -- | -- | -- | -- | -- | -- |
| ~~SB-2~~ | ~~10/17/1995~~ | ~~5~~ | ~~0.19~~ | ~~4.8~~ | ~~5.1~~ | ~~26~~ | -- | -- | -- | -- | ~~240~~ | ~~--~~ | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SB-2~~ | ~~10/17/1995~~ | ~~10~~ | ~~**28**~~ | ~~440~~ | ~~**150**~~ | ~~630~~ | -- | -- | -- | -- | ~~4,700~~ | ~~--~~ | -- | -- | -- | -- | -- | -- | -- | -- |
| SB-3 | 4/14/2021 | 10 | <0.00075 | <0.00075 | <0.00075 | <0.0015 | <0.0015 | <0.00075 | <0.00075 | <0.0075 | <0.082 | <4.9 | <4.9 | -- | -- | -- | -- | -- | -- | -- |
| SB-3 | 4/14/2021 | 15 | <0.00081 | <0.00081 | <0.00081 | <0.0016 | <0.0016 | <0.00081 | <0.00081 | <0.0081 | <0.080 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SB-3 | 4/12/2021 | 5 | <0.00091 | <0.00091 | <0.00091 | <0.0018 | <0.0018 | <0.00091 | <0.00091 | <0.0091 | <0.093 | <5.0 | <5.0 | -- | -- | -- | -- | -- | -- | -- |
| ~~SB-3~~ | ~~10/18/1995~~ | ~~5~~ | ~~<0.0050~~ | ~~0.019~~ | ~~0.0087~~ | ~~0.049~~ | -- | -- | -- | -- | ~~<1.0~~ | ~~--~~ | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SB-3~~ | ~~10/18/1995~~ | ~~10~~ | ~~<0.0050~~ | ~~<0.0050~~ | ~~<0.0050~~ | ~~<0.0050~~ | -- | -- | -- | -- | ~~<1.0~~ | ~~--~~ | -- | -- | -- | -- | -- | -- | -- | -- |
| SB-4 | 4/14/2021 | 15 | <0.00072 | <0.00072 | <0.00072 | <0.0014 | <0.0014 | <0.00072 | <0.00072 | <0.0072 | <0.068 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SB-4 | 4/14/2021 | 10 | <0.00075 | <0.00075 | <0.00075 | <0.0015 | <0.0015 | <0.00075 | <0.00075 | <0.0075 | <0.073 | <5.0 | <5.0 | -- | -- | -- | -- | -- | -- | -- |
| SB-4 | 4/12/2021 | 5 | <0.00085 | <0.00085 | <0.00085 | <0.0017 | <0.0017 | <0.00085 | <0.00085 | <0.0085 | <0.086 | <4.9 | 5.8 | -- | -- | -- | -- | -- | -- | -- |
| SS-1 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 55.0 |
| SS-1 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **753** |
| SS-1 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **806** |
| SS-10 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **83.1** |
| SS-10 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **179** |
| SS-10 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **198** |
| SS-10-A | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.4 |
| SS-10-A | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 19 |
| SS-10-A | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 76 |
| SS-10-A | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **100** |
| SS-10-A | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **190** |
| SS-10-A | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **710** |
| SS-10-E | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.9 |
| SS-10-E | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **140** |
| SS-10-E | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **190** |
| SS-10-E | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **220** |
| SS-10-E | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **270** |
| SS-10-E | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **290** |
| SS-10-E | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **340** |
| SS-10-N | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.2 |
| SS-10-N | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 51 |

**Table 1a. Soil Analytical Results - VOCs, TPH, Metals**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| **LTCP Residential Threshold** | **0-5 ft bgs** | | **1.9** | **-** | **21** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **5-10 ft bgs** | | **2.8** | **-** | **32** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **80** |
| **Leaching to Groundwater Levels (Non Drinking Water)** | **-** | | **0.025** | **10.29** | **0.43** | **10.40** | **2.53** | **0.031** | **0.0019** | **-** | **4,932** | **7,284** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| SS-10-N | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **83** |
| SS-10-N | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **120** |
| SS-10-N | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **210** |
| SS-10-N | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **310** |
| SS-10-N | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **960** |
| SS-10-NE | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 29 |
| SS-10-NE | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 63 |
| SS-10-NE | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **120** |
| SS-10-NE | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **230** |
| SS-10-NE | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **380** |
| SS-10-NE | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **480** |
| SS-10-NE | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **590** |
| SS-10-NW | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 36 |
| SS-10-NW | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **130** |
| SS-10-NW | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **400** |
| SS-10-NW | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **420** |
| SS-10-NW | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **510** |
| SS-10-NW | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **820** |
| SS-10-NW | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,800** |
| SS-10-S | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.8 |
| SS-10-S | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 23 |
| SS-10-S | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 70 |
| SS-10-S | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **210** |
| SS-10-S | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,800** |
| SS-10-S | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,200** |
| SS-10-SE | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.8 |
| SS-10-SE | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 23 |
| SS-10-SE | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 67 |
| SS-10-SE | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **90** |
| SS-10-SE | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **110** |
| SS-10-SE | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **150** |
| SS-10-SE | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **200** |
| SS-10-SW | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.2 |
| SS-10-SW | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.3 |
| SS-10-SW | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 14 |
| SS-10-SW | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **510** |
| SS-10-SW | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,900** |
| SS-10-SW | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **4,000** |
| SS-10-W | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.7 |
| SS-10-W | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **88** |
| SS-10-W | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **610** |
| SS-10-W | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **750** |
| SS-10-W | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **760** |
| SS-10-W | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,300** |
| SS-11 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.01 |
| SS-11 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.36 |
| SS-11 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.19 |
| SS-12 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.17 |
| SS-12 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 11 |
| SS-12 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **120** |
| SS-12-A | 4/2/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.8 |
| SS-12-A | 4/2/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **170** |

**Table 1a. Soil Analytical Results - VOCs, TPH, Metals**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| **LTCP Residential Threshold** | **0-5 ft bgs** | | **1.9** | **-** | **21** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **5-10 ft bgs** | | **2.8** | **-** | **32** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **80** |
| **Leaching to Groundwater Levels (Non Drinking Water)** | **-** | | **0.025** | **10.29** | **0.43** | **10.40** | **2.53** | **0.031** | **0.0019** | **-** | **4,932** | **7,284** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| SS-12-A | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **450** |
| SS-12-A | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **690** |
| SS-12-E | 4/2/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.8 |
| SS-12-E | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **87** |
| SS-12-E | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **5,300** |
| SS-12-N | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 51 |
| SS-12-N | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **250** |
| SS-12-N | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **490** |
| SS-12-NE | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.3 |
| SS-12-NE | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 50 |
| SS-12-NE | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **88** |
| SS-12-NE | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **99** |
| SS-12-NW | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 14 |
| SS-12-NW | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 26 |
| SS-12-S | 4/2/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 16 |
| SS-12-S | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **210** |
| SS-12-S | 4/2/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **770** |
| SS-12-S | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,800** |
| SS-12-SE | 4/2/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.4 |
| SS-12-SE | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.1 |
| SS-12-SE | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **430** |
| SS-12-SW | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.6 |
| SS-12-SW | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 15 |
| SS-12-W | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.2 |
| SS-12-W | 4/2/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 11 |
| SS-12-W | 4/2/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **400** |
| SS-12-W | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **670** |
| SS-14-A | 4/3/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.7 |
| SS-14-A | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **150** |
| SS-14-A | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **220** |
| SS-14-A | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **670** |
| SS-14-A | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,400** |
| SS-14-E | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 38 |
| SS-14-E | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **400** |
| SS-14-E | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,600** |
| SS-14-E | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,700** |
| SS-14-N | 4/3/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **--** | 27 |
| SS-14-N | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **250** |
| SS-14-N | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **730** |
| SS-14-N | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SS-14-N | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,300** |
| SS-14-NE | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 17 |
| SS-14-NE | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **430** |
| SS-14-NE | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **920** |
| SS-14-NE | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,100** |
| SS-14-NW | 4/3/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.5 |
| SS-14-NW | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **560** |
| SS-14-NW | 4/3/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **660** |
| SS-14-NW | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **690** |
| SS-14-NW | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,400** |
| SS-14-NW | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,900** |
| SS-14-NW | 4/3/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **--** | **3,900** |

**Table 1a. Soil Analytical Results - VOCs, TPH, Metals**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| **LTCP Residential Threshold** | **0-5 ft bgs** | | **1.9** | **-** | **21** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **5-10 ft bgs** | | **2.8** | **-** | **32** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **80** |
| **Leaching to Groundwater Levels (Non Drinking Water)** | **-** | | **0.025** | **10.29** | **0.43** | **10.40** | **2.53** | **0.031** | **0.0019** | **-** | **4,932** | **7,284** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| SS-14-S | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 34 |
| SS-14-S | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **110** |
| SS-14-SE | 4/3/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5 |
| SS-14-SE | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **450** |
| SS-14-SE | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **940** |
| SS-14-SE | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,000** |
| SS-14-SE | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,000** |
| SS-14-SW | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 30 |
| SS-14-SW | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **90** |
| SS-14-SW | 4/3/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **340** |
| SS-14-SW | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **430** |
| SS-14-SW | 4/3/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **540** |
| SS-14-SW | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,100** |
| SS-14-SW | 4/3/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,800** |
| SS-14-W | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **130** |
| SS-14-W | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **180** |
| SS-14-W | 4/3/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **260** |
| SS-14-W | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **530** |
| SS-14-W | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **770** |
| SS-14-W | 4/3/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,100** |
| SS-14-W | 4/3/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **3,000** |
| SS-1-A | 4/8/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **220** |
| SS-1-A | 4/8/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **270** |
| SS-1-A | 4/8/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **570** |
| SS-1-A | 4/8/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **690** |
| SS-1-A | 4/8/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SS-1-A | 4/8/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,800** |
| SS-1-A | 4/8/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,300** |
| SS-1-E | 4/5/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **160** |
| SS-1-E | 4/5/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **280** |
| SS-1-E | 4/5/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **400** |
| SS-1-E | 4/5/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **500** |
| SS-1-E | 4/5/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **530** |
| SS-1-E | 4/5/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **630** |
| SS-1-E | 4/5/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **790** |
| SS-1-N | 4/8/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 45 |
| SS-1-N | 4/8/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **350** |
| SS-1-N | 4/8/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **390** |
| SS-1-N | 4/8/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **480** |
| SS-1-N | 4/8/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **500** |
| SS-1-N | 4/8/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **550** |
| SS-1-N | 4/8/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **560** |
| SS-1-NE | 4/5/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 15 |
| SS-1-NE | 4/5/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **440** |
| SS-1-NE | 4/5/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **460** |
| SS-1-NE | 4/5/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **670** |
| SS-1-NE | 4/5/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **800** |
| SS-1-NE | 4/5/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **810** |
| SS-1-NE | 4/5/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,400** |
| SS-1-NW | 4/8/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **340** |
| SS-1-NW | 4/8/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **340** |
| SS-1-NW | 4/8/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **650** |

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**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| **LTCP Residential Threshold** | **0-5 ft bgs** | | **1.9** | **-** | **21** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **5-10 ft bgs** | | **2.8** | **-** | **32** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **80** |
| **Leaching to Groundwater Levels (Non Drinking Water)** | **-** | | **0.025** | **10.29** | **0.43** | **10.40** | **2.53** | **0.031** | **0.0019** | **-** | **4,932** | **7,284** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| SS-1-NW | 4/8/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **730** |
| SS-1-NW | 4/8/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,300** |
| SS-1-NW | 4/8/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,300** |
| SS-1-NW | 4/8/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,700** |
| SS-1-S | 4/5/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 11 |
| SS-1-S | 4/5/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 27 |
| SS-1-S | 4/5/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **120** |
| SS-1-S | 4/5/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **340** |
| SS-1-S | 4/5/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **590** |
| SS-1-S | 4/5/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **650** |
| SS-1-S | 4/5/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,600** |
| SS-1-SE | 4/5/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **210** |
| SS-1-SE | 4/5/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **240** |
| SS-1-SE | 4/5/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **960** |
| SS-1-SE | 4/5/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,100** |
| SS-1-SE | 4/5/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SS-1-SE | 4/5/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SS-1-SE | 4/5/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,300** |
| SS-1-SW | 4/5/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 40 |
| SS-1-SW | 4/5/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **96** |
| SS-1-SW | 4/5/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **330** |
| SS-1-SW | 4/5/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **640** |
| SS-1-SW | 4/5/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SS-1-SW | 4/5/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **3,300** |
| SS-1-W | 4/8/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 24 |
| SS-1-W | 4/8/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 42 |
| SS-2 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.29 |
| SS-2 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.85 |
| SS-2 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **980** |
| SS-2-E | 4/3/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.4 |
| SS-2-E | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **110** |
| SS-2-E | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **510** |
| SS-2-E | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **530** |
| SS-2-E | 4/3/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **670** |
| SS-2-E | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,700** |
| SS-2-NE | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8 |
| SS-2-NE | 4/3/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 13 |
| SS-2-NE | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **110** |
| SS-2-NE | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **130** |
| SS-2-NE | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **890** |
| SS-2-NE | 4/3/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **3,900** |
| SS-2-NW | 4/3/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.8 |
| SS-2-NW | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **250** |
| SS-2-NW | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **430** |
| SS-2-NW | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **600** |
| SS-2-NW | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **980** |
| SS-2-SE | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 25 |
| SS-2-SE | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **250** |
| SS-2-SW | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 13 |
| SS-2-SW | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **200** |
| SS-2-W | 4/3/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.9 |
| SS-2-W | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **370** |

**Table 1a. Soil Analytical Results - VOCs, TPH, Metals**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| **LTCP Residential Threshold** | **0-5 ft bgs** | | **1.9** | **-** | **21** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **5-10 ft bgs** | | **2.8** | **-** | **32** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **80** |
| **Leaching to Groundwater Levels (Non Drinking Water)** | **-** | | **0.025** | **10.29** | **0.43** | **10.40** | **2.53** | **0.031** | **0.0019** | **-** | **4,932** | **7,284** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| SS-2-W | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,100** |
| SS-2-W | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,400** |
| SS-2-W | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,500** |
| SS-3 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.63 |
| SS-3 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **491** |
| SS-3 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **5760** |
| SS-3-A | 4/9/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 40 |
| SS-3-A | 4/9/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **430** |
| SS-3-A | 4/9/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SS-3-A | 4/9/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,300** |
| SS-3-E | 4/9/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.8 |
| SS-3-E | 4/9/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **260** |
| SS-3-E | 4/9/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **390** |
| SS-3-E | 4/9/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **430** |
| SS-3-E | 4/9/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **440** |
| SS-3-E | 4/9/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,700** |
| SS-3-N | 4/9/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 17 |
| SS-3-N | 4/9/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **160** |
| SS-3-N | 4/9/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **170** |
| SS-3-N | 4/9/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **220** |
| SS-3-N | 4/9/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **490** |
| SS-3-N | 4/9/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **600** |
| SS-3-NE | 4/9/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 16 |
| SS-3-NE | 4/9/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **160** |
| SS-3-NE | 4/9/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **850** |
| SS-3-NE | 4/9/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SS-3-NW | 4/9/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 69 |
| SS-3-NW | 4/9/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **690** |
| SS-3-NW | 4/9/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SS-3-S | 4/9/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 29 |
| SS-3-S | 4/9/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **600** |
| SS-3-S | 4/9/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **660** |
| SS-3-S | 4/9/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SS-3-S | 4/9/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,900** |
| SS-3-SE | 4/9/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.6 |
| SS-3-SE | 4/9/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **110** |
| SS-3-SE | 4/9/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,300** |
| SS-3-SE | 4/9/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,800** |
| SS-3-SE | 4/9/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,100** |
| SS-3-SE | 4/9/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,700** |
| SS-3-SW | 4/9/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 78 |
| SS-3-SW | 4/9/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **620** |
| SS-3-SW | 4/9/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **12,000** |
| SS-3-W | 4/9/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 38 |
| SS-3-W | 4/9/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **110** |
| SS-3-W | 4/9/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **380** |
| SS-3-W | 4/9/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,000** |
| SS-4 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.02 |
| SS-4 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.06 |
| SS-4 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.24 |
| SS-5 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.11 |
| SS-5 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **123** |

**Table 1a. Soil Analytical Results - VOCs, TPH, Metals**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| **LTCP Residential Threshold** | **0-5 ft bgs** | | **1.9** | **-** | **21** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **5-10 ft bgs** | | **2.8** | **-** | **32** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **80** |
| **Leaching to Groundwater Levels (Non Drinking Water)** | **-** | | **0.025** | **10.29** | **0.43** | **10.40** | **2.53** | **0.031** | **0.0019** | **-** | **4,932** | **7,284** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| SS-5 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **237** |
| SS-5-A | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 16 |
| SS-5-E | 4/2/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.9 |
| SS-5-E | 4/2/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **120** |
| SS-5-E | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **200** |
| SS-5-E | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **490** |
| SS-5-N | 4/2/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 13 |
| SS-5-N | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 60 |
| SS-5-N | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **94** |
| SS-5-NE | 4/2/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.3 |
| SS-5-NE | 4/2/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **390** |
| SS-5-NE | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **460** |
| SS-5-NE | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **540** |
| SS-5-NW | 4/2/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 35 |
| SS-5-NW | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **83** |
| SS-5-NW | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **170** |
| SS-5-S | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 44 |
| SS-5-S | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 62 |
| SS-5-SE | 4/2/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.4 |
| SS-5-SE | 4/2/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.6 |
| SS-5-SE | 4/2/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **150** |
| SS-5-SE | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **200** |
| SS-5-SE | 4/2/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **550** |
| SS-5-SE | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **620** |
| SS-5-SW | 4/2/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 49 |
| SS-5-SW | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **120** |
| SS-5-SW | 4/2/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **190** |
| SS-5-SW | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **330** |
| SS-5-SW | 4/2/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **810** |
| SS-5-W | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 37 |
| SS-5-W | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **310** |
| SS-6 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **174** |
| SS-6 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **216** |
| SS-6 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **669** |
| SS-6-A | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **210** |
| SS-6-A | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **280** |
| SS-6-A | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **350** |
| SS-6-A | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **590** |
| SS-6-A | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **740** |
| SS-6-A | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,400** |
| SS-6-A | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **24,000** |
| SS-6-E | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.5 |
| SS-6-E | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 13 |
| SS-6-E | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 62 |
| SS-6-E | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **160** |
| SS-6-E | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **270** |
| SS-6-N | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.1 |
| SS-6-N | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **170** |
| SS-6-N | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **190** |
| SS-6-N | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **210** |
| SS-6-N | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,000** |
| SS-6-N | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |

**Table 1a. Soil Analytical Results - VOCs, TPH, Metals**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| **LTCP Residential Threshold** | **0-5 ft bgs** | | **1.9** | **-** | **21** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **5-10 ft bgs** | | **2.8** | **-** | **32** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **80** |
| **Leaching to Groundwater Levels (Non Drinking Water)** | **-** | | **0.025** | **10.29** | **0.43** | **10.40** | **2.53** | **0.031** | **0.0019** | **-** | **4,932** | **7,284** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| SS-6-NE | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.4 |
| SS-6-NE | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 17 |
| SS-6-NE | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **82** |
| SS-6-NE | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **290** |
| SS-6-NE | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **470** |
| SS-6-NW | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6 |
| SS-6-NW | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **170** |
| SS-6-NW | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **220** |
| SS-6-NW | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **280** |
| SS-6-NW | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **360** |
| SS-6-NW | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **370** |
| SS-6-S | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **94** |
| SS-6-S | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **130** |
| SS-6-S | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **170** |
| SS-6-S | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **290** |
| SS-6-S | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **420** |
| SS-6-S | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **590** |
| SS-6-S | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **760** |
| SS-6-SE | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.7 |
| SS-6-SE | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.1 |
| SS-6-SE | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **240** |
| SS-6-SE | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **970** |
| SS-6-SE | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,000** |
| SS-6-SW | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 24 |
| SS-6-SW | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 44 |
| SS-6-SW | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 72 |
| SS-6-SW | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **230** |
| SS-6-SW | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **300** |
| SS-6-SW | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **370** |
| SS-6-W | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 40 |
| SS-6-W | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 50 |
| SS-6-W | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **81** |
| SS-6-W | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **360** |
| SS-6-W | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **500** |
| SS-6-W | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,100** |
| SS-6-W | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,100** |
| SS-7 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.98 |
| SS-7 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.03 |
| SS-7 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.38 |
| SS-8 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 13.4 |
| SS-8 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 23.7 |
| SS-9 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.89 |
| SS-9 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.82 |
| SS-9 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 24.1 |
| SSD-1 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 44 |
| SSD-1 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **95** |
| SSD-1 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **780** |
| SSD-1 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **910** |
| SSD-10 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.7 |
| SSD-10 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9.2 |
| SSD-10 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 11 |
| SSD-10 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **160** |

**Table 1a. Soil Analytical Results - VOCs, TPH, Metals**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| **LTCP Residential Threshold** | **0-5 ft bgs** | | **1.9** | **-** | **21** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **5-10 ft bgs** | | **2.8** | **-** | **32** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **80** |
| **Leaching to Groundwater Levels (Non Drinking Water)** | **-** | | **0.025** | **10.29** | **0.43** | **10.40** | **2.53** | **0.031** | **0.0019** | **-** | **4,932** | **7,284** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| SSD-11 | 4/13/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.8 |
| SSD-11 | 4/13/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 15 |
| SSD-11 | 4/13/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 35 |
| SSD-11 | 4/13/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **380** |
| SSD-11 | 4/13/2021 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| SSD-11 | 4/13/2021 | 5 | -- | -- | -- | -- | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| SSD-12 | 4/13/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9.8 |
| SSD-12 | 4/13/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 30 |
| SSD-12 | 4/13/2021 | 5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| SSD-12 | 4/13/2021 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| SSD-12 | 4/13/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.7 J |
| SSD-12 | 4/13/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.4 J |
| SSD-13 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 10 |
| SSD-13 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 77 |
| SSD-13 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **180** |
| SSD-13 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.8 J |
| SSD-14 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 23 |
| SSD-14 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **130** |
| SSD-14 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **280** |
| SSD-14 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **320** |
| SSD-15 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.2 |
| SSD-15 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 25 |
| SSD-15 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 33 |
| SSD-15 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,600** |
| SSD-16 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.9 |
| SSD-16 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **180** |
| SSD-16 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **410** |
| SSD-16 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.7 J |
| SSD-17 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 17 |
| SSD-17 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 63 |
| SSD-17 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **220** |
| SSD-17 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **250** |
| SSD-18 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 11 |
| SSD-18 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 58 |
| SSD-18 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **99** |
| SSD-18 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **160** |
| SSD-19 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **97** |
| SSD-19 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **140** |
| SSD-19 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **800** |
| SSD-19 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,100** |
| SSD-2 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 60 |
| SSD-2 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **240** |
| SSD-2 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **750** |
| SSD-2 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,400** |
| SSD-20 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 53 |
| SSD-20 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **150** |
| SSD-20 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **280** |
| SSD-20 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,100** |
| SSD-21 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **310** |
| SSD-21 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **550** |
| SSD-21 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **840** |
| SSD-21 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **3,500** |

**Table 1a. Soil Analytical Results - VOCs, TPH, Metals**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| **LTCP Residential Threshold** | **0-5 ft bgs** | | **1.9** | **-** | **21** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **5-10 ft bgs** | | **2.8** | **-** | **32** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **80** |
| **Leaching to Groundwater Levels (Non Drinking Water)** | **-** | | **0.025** | **10.29** | **0.43** | **10.40** | **2.53** | **0.031** | **0.0019** | **-** | **4,932** | **7,284** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| SSD-22 | 4/15/2021 | 3.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **170** |
| SSD-22 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.6 J |
| SSD-23 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 13 |
| SSD-23 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **140** |
| SSD-23 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **190** |
| SSD-23 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **550** |
| SSD-24 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 13 |
| SSD-24 | 4/15/2021 | 3.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **160** |
| SSD-25 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 17 |
| SSD-25 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 23 |
| SSD-25 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 38 |
| SSD-25 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **100** |
| SSD-26 | 4/15/2021 | 3.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 15 |
| SSD-27 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 15 |
| SSD-27 | 4/15/2021 | 3.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SSD-29 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **290** |
| SSD-29 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **720** |
| SSD-29 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **810** |
| SSD-29 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SSD-29 | 4/15/2021 | 3.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,700** |
| SSD-3 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **130** |
| SSD-3 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **310** |
| SSD-3 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,300** |
| SSD-3 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,600** |
| SSD-4 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 34 |
| SSD-4 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 45 |
| SSD-4 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **100** |
| SSD-4 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,900** |
| SSD-5 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **110** |
| SSD-5 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **160** |
| SSD-5 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **530** |
| SSD-5 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,300** |
| SSD-6 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 17 |
| SSD-6 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 45 |
| SSD-6 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **90** |
| SSD-6 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **180** |
| SSD-7 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 15 |
| SSD-7 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 16 |
| SSD-7 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 29 |
| SSD-7 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **950** |
| SSD-8 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 10 |
| SSD-8 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 12 |
| SSD-8 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 24 |
| SSD-8 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SSD-9 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **340** |
| SSD-9 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **380** |
| SSD-9 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,300** |
| SSD-9 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 80 LN, AY |
| ~~SV-1~~ | ~~5/30/1997~~ | ~~6~~ | ~~<2.5~~ | ~~46~~ | ~~**57**~~ | ~~300~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~2,100~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~**--**~~ |
| ~~SV-1~~ | ~~5/30/1997~~ | ~~8.5~~ | ~~**52**~~ | ~~360~~ | ~~**140**~~ | ~~720~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~7,600~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~**--**~~ |
| ~~SV-1~~ | ~~5/30/1997~~ | ~~3~~ | ~~<0.0050~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~<1.0~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ |
| ~~SV-2~~ | ~~5/30/1997~~ | ~~6~~ | ~~<0.005~~ | ~~0.009~~ | ~~0.01~~ | ~~0.057~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~11~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~**--**~~ |

**Table 1a. Soil Analytical Results - VOCs, TPH, Metals**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| **LTCP Residential Threshold** | **0-5 ft bgs** | | **1.9** | **-** | **21** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **5-10 ft bgs** | | **2.8** | **-** | **32** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **80** |
| **Leaching to Groundwater Levels (Non Drinking Water)** | **-** | | **0.025** | **10.29** | **0.43** | **10.40** | **2.53** | **0.031** | **0.0019** | **-** | **4,932** | **7,284** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| ~~SV-2~~ | ~~5/30/1997~~ | ~~9~~ | **~~12~~** | ~~420~~ | **~~150~~** | ~~710~~ | -- | -- | -- | -- | ~~8,000~~ | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| ~~SV-2~~ | ~~5/30/1997~~ | ~~3.5~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | -- | -- | -- | -- | ~~<1.0~~ | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| SV-3 | 5/30/1997 | 3 | <0.005 | 0.029 | 0.014 | 0.1 | -- | -- | -- | -- | 1.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-3 | 5/30/1997 | 6 | 0.13 | 0.28 | 1.4 | 1.9 | -- | -- | -- | -- | 84 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| SV-3 | 5/30/1997 | 9 | **5.8** | 130 | **83** | 340 | -- | -- | -- | -- | 3,200 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| ~~SV-4~~ | ~~5/30/1997~~ | ~~9~~ | **~~86~~** | ~~470~~ | **~~210~~** | ~~960~~ | -- | -- | -- | -- | ~~10,000~~ | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| ~~SV-4~~ | ~~5/30/1997~~ | ~~3~~ | ~~<0.005~~ | ~~0.0058~~ | ~~<0.005~~ | ~~0.01~~ | -- | -- | -- | -- | ~~<1.0~~ | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| ~~SV-4~~ | ~~5/30/1997~~ | ~~6~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.05~~ | -- | -- | -- | -- | ~~1.3~~ | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| ~~SV-5~~ | ~~5/30/1997~~ | ~~9~~ | **~~20~~** | ~~410~~ | **~~130~~** | ~~690~~ | -- | -- | -- | -- | ~~7,900~~ | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| ~~SV-5~~ | ~~5/30/1997~~ | ~~3~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | -- | -- | -- | -- | ~~<1.0~~ | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| ~~SV-5~~ | ~~5/30/1997~~ | ~~6~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | -- | -- | -- | -- | ~~<1.0~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SVP-1 | 4/14/2021 | 6.5 | 0.0028 | 0.0015 | 0.00024 J | <0.0019 | <0.0019 | <0.00097 | <0.00097 | <0.0097 | <0.092 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| SVP-2 | 4/14/2021 | 6.5 | <0.00079 | <0.00079 | <0.00079 | <0.0016 | <0.0016 | <0.00079 | <0.00079 | <0.0079 | <0.084 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| SVP-3 | 4/13/2021 | 6.5 | 0.00045 J | <0.00089 | <0.00089 | <0.0018 | <0.0018 | <0.00089 | <0.00089 | <0.0089 | <0.085 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| SVP-4 | 4/14/2021 | 6.5 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.0020 | <0.0010 | <0.0010 | <0.010 | <0.094 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| SW-1 | 11/15/2002 | 5 | <0.0050 | 0.0073 | <0.0050 | 0.017 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-1 | 11/15/2002 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-10 | 11/15/2002 | 10 | <0.10 | 0.66 | 3.7 | 21 | <1 | -- | -- | -- | 570 | 240 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-10 | 11/15/2002 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-2 | 11/18/2002 | 10 | 2.5 | 75 | **52** | 250 | <10 | -- | -- | -- | 2,800 | 1,600 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-2 | 11/18/2002 | 5 | <0.0050 | 0.0088 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-2-C | 4/15/2021 | 10 | **8.7** | 460 | **320** | 1,100 | <8.2 | <4.1 | <4.1 | **52** | 11,000 | 250 | <99 | -- | -- | -- | -- | --- | --- | **--** |
| SW-2-C | 4/15/2021 | 15 | 0.54 | 0.0039 | 0.022 | 0.013 | <0.0015 | <0.00074 | <0.00074 | <0.0074 | 3.3 | -- | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-2-C | 4/13/2021 | 5 | <0.00089 | <0.00089 | <0.00089 | <0.0018 | <0.0018 | <0.00089 | <0.00089 | <0.0089 | <0.089 | <4.8 | <4.8 | -- | -- | -- | -- | --- | --- | **--** |
| SW-3 | 11/18/2002 | 10 | **19** | 330 | **170** | 650 | 26 | -- | -- | -- | 7,300 | 1,200 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-3 | 11/18/2002 | 5 | <0.0050 | 0.0089 | <0.0050 | 0.021 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-3-C | 4/15/2021 | 10 | **40** | 590 | **190** | 650 | <7.7 | <3.9 | <3.9 | **41** | 6,500 | 130 | <5.0 | -- | -- | -- | -- | --- | --- | **--** |
| SW-3-C | 4/15/2021 | 15 | 2.8 | 4.8 | 9.4 | 22 | <0.80 | <0.40 | <0.40 | 2.6 J | 610 | -- | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-3-C | 4/13/2021 | 5 | 0.00097 | 0.00052 J | 0.0022 | 0.007 | <0.0013 | <0.00067 | <0.00067 | <0.0067 | 0.26 | <4.7 | <4.7 | -- | -- | -- | -- | --- | --- | **--** |
| SW-4 | 11/18/2002 | 10 | **91** | 1,200 | **440** | 1,900 | 150 | -- | -- | -- | 18,000 | 3,400 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-4 | 11/18/2002 | 5 | <0.0050 | 0.0081 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| SW-4/MW-14-C | 4/15/2021 | 15 | 0.024 | 0.018 | 0.012 | 0.04 | <0.0014 | 0.018 | <0.00069 | 0.0082 | 0.53 | -- | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-4/MW-14-C | 4/15/2021 | 10 | **19** | 640 | **240** | 770 | <7.9 | <3.9 | <3.9 | **39** | 13,000 | 180 | <5.0 | -- | -- | -- | -- | --- | --- | **--** |
| SW-4/MW-14-C | 4/13/2021 | 5 | 0.00022 J | 0.00082 J | 0.00068 J | 0.0035 | <0.0017 | <0.00085 | <0.00085 | 0.018 | 0.53 | -- | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-5 | 11/16/2002 | 5 | 0.0072 | 0.039 | 0.0057 | 0.022 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-5 | 11/16/2002 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-6 | 11/16/2002 | 5 | 0.0084 | 0.15 | 0.079 | 0.41 | <0.05 | -- | -- | -- | 4.1 | 110 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-6 | 11/16/2002 | 10 | **7.3** | 140 | **110** | 450 | 10 | -- | -- | -- | 3,900 | 920 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-7 | 11/15/2002 | 10 | **11** | 250 | **130** | 540 | 13 | -- | -- | -- | 4,800 | 700 | -- | -- | -- | -- | -- | --- | --- | -- |
| SW-7 | 11/15/2002 | 5 | <0.0050 | 0.011 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-8 | 11/15/2002 | 5 | <0.0050 | 0.016 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-8 | 11/15/2002 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-9 | 11/15/2002 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-9 | 11/15/2002 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SWH-1 | 11/16/2002 | 7.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <10 | <10 | -- | -- | -- | --- | --- | **--** |
| SWH-2 | 11/16/2002 | 7.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <10 | <10 | -- | -- | -- | --- | --- | **--** |
| SWH-3 | 11/16/2002 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <10 | <10 | -- | -- | -- | --- | --- | **--** |
| SWH-4 | 11/16/2002 | 7.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <10 | <10 | -- | -- | -- | --- | --- | **--** |
| SWW-1 | 11/18/2002 | 7.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <230 | -- | -- | --- | --- | **--** |
| SWW-2 | 11/18/2002 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <230 | -- | -- | --- | --- | **--** |
| SWW-3 | 11/18/2002 | 7.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <230 | -- | -- | --- | --- | **--** |
| SWW-4 | 11/18/2002 | 7.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <230 | -- | -- | --- | --- | -- |

**Table 1a. Soil Analytical Results - VOCs, TPH, Metals**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| **LTCP Residential Threshold** | **0-5 ft bgs** | | **1.9** | **-** | **21** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **5-10 ft bgs** | | **2.8** | **-** | **32** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **80** |
| **Leaching to Groundwater Levels (Non Drinking Water)** | **-** | | **0.025** | **10.29** | **0.43** | **10.40** | **2.53** | **0.031** | **0.0019** | **-** | **4,932** | **7,284** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| TW-1 | 4/14/2021 | 10 | <0.00069 | <0.00069 | <0.00069 | <0.0014 | <0.0014 | <0.00069 | <0.00069 | <0.0069 | <0.074 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| TW-1 | 4/14/2021 | 20 | <0.00070 | <0.00070 | <0.00070 | <0.0014 | <0.0014 | <0.00070 | <0.00070 | <0.0070 | <0.073 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| TW-1 | 4/14/2021 | 30 | <0.00072 | <0.00072 | <0.00072 | <0.0014 | <0.0014 | <0.00072 | <0.00072 | <0.0072 | <0.075 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| TW-1 | 4/14/2021 | 60 | <0.00076 | <0.00076 | <0.00076 | <0.0015 | <0.0015 | <0.00076 | <0.00076 | <0.0076 | <0.070 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TW-1 | 4/14/2021 | 50 | <0.00078 | 0.00078 | <0.00078 | <0.0016 | <0.0016 | <0.00078 | <0.00078 | <0.0078 | <0.083 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| TW-1 | 4/14/2021 | 40 | <0.00094 | <0.00094 | <0.00094 | <0.0019 | <0.0019 | <0.00094 | <0.00094 | <0.0094 | <0.075 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| TW-1 | 4/12/2021 | 5 | <0.00092 | <0.00092 | <0.00092 | <0.0018 | <0.0018 | <0.00092 | <0.00092 | <0.0092 | <0.088 | <4.9 | 21 | -- | -- | -- | -- | -- | -- | **--** |
| TW-2 | 4/13/2021 | 60 | <0.00088 | <0.00088 | <0.00088 | <0.0018 | <0.0018 | <0.00088 | <0.00088 | <0.0088 | <0.086 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| TW-2 | 4/13/2021 | 50 | <0.0011 | <0.0011 | <0.0011 | <0.0023 | <0.0023 | <0.0011 | <0.0011 | <0.011 | 0.051 J | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TW-2 | 4/12/2021 | 20 | <0.00071 | <0.00071 | <0.00071 | <0.0014 | <0.0014 | <0.00071 | <0.00071 | <0.0071 | <0.071 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| TW-2 | 4/12/2021 | 40 | <0.00073 | <0.00073 | <0.00073 | <0.0015 | <0.0015 | <0.00073 | <0.00073 | <0.0073 | <0.073 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| TW-2 | 4/12/2021 | 30 | <0.00075 | <0.00075 | <0.00075 | <0.0015 | <0.0015 | <0.00075 | <0.00075 | <0.0075 | <0.072 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| TW-2 | 4/12/2021 | 10 | <0.00081 | <0.00081 | <0.00081 | <0.0016 | <0.0016 | <0.00081 | <0.00081 | <0.0081 | <0.076 | <4.9 | <4.9 | -- | -- | -- | -- | -- | -- | **--** |
| TW-2 | 4/12/2021 | 5 | <0.00092 | <0.00092 | <0.00092 | <0.0018 | <0.0018 | <0.00092 | <0.00092 | <0.0092 | 0.068 J | 4.1 J | 8.6 | -- | -- | -- | -- | -- | -- | **--** |
| TW-3 | 4/12/2021 | 40 | <0.00073 | <0.00073 | <0.00073 | <0.0015 | <0.0015 | <0.00073 | <0.00073 | <0.0073 | <0.074 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| TW-3 | 4/12/2021 | 30 | <0.00075 | <0.00075 | <0.00075 | <0.0015 | <0.0015 | <0.00075 | <0.00075 | <0.0075 | <0.071 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| TW-3 | 4/12/2021 | 10 | <0.00079 | <0.00079 | <0.00079 | <0.0016 | <0.0016 | <0.00079 | <0.00079 | <0.0079 | <0.074 | <5.0 | <5.0 | -- | -- | -- | -- | -- | -- | **--** |
| TW-3 | 4/12/2021 | 20 | <0.00082 | <0.00082 | <0.00082 | <0.0016 | <0.0016 | <0.00082 | <0.00082 | <0.0082 | <0.071 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| TW-3 | 4/12/2021 | 5 | <0.00092 | <0.00092 | <0.00092 | <0.0018 | <0.0018 | <0.00092 | <0.00092 | <0.0092 | 0.060 J | <10 | 100 | -- | -- | -- | -- | -- | -- | **--** |
| TW-3 | 4/12/2021 | 50 | <0.00098 | <0.00098 | <0.00098 | <0.0020 | <0.0020 | <0.00098 | <0.00098 | <0.0098 | <0.072 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| TW-3 | 4/12/2021 | 60 | <0.0019 | <0.0019 | <0.0019 | <0.0037 | <0.0037 | <0.0019 | <0.0019 | <0.019 | <0.080 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| VP-1 | 10/25/2007 | 6 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | -- | -- | -- | -- | 4.9 | -- | -- | -- | -- | -- | --- | --- | **--** |
| VP-2 | 10/25/2007 | 6 | <0.0005 | <0.001 | <0.001 | 0.001 | <0.0005 | -- | -- | -- | -- | 300 | -- | -- | -- | -- | -- | --- | --- | **--** |
| VP-3 | 10/25/2007 | 6 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | -- | -- | -- | -- | 6.4 | -- | -- | -- | -- | -- | --- | --- | **--** |
| VP-4 | 10/25/2007 | 6 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | -- | -- | -- | -- | 44 | -- | -- | -- | -- | -- | --- | --- | **--** |
| VP-5 | 10/25/2007 | 6 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | -- | -- | -- | -- | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| VP-6 | 10/25/2007 | 6 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | -- | -- | -- | -- | <4.0 | -- | -- | -- | -- | -- | --- | --- | **--** |
| ~~WOT~~ | ~~4/12/2001~~ | ~~8~~ | ~~0.0092~~ | ~~0.04~~ | ~~0.058~~ | ~~0.24~~ | ~~0.058~~ | ~~--~~ | ~~--~~ | -- | ~~10~~ | ~~3.2~~ | ~~--~~ | ~~--~~ | ~~110~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ |

**Notes:**
1. Benzene, toluene, ethybenzene, and total xylenes (collectively BTEX) was analyzed by by USEPA Method 8260B.
2. TPH-g was analyzed by USEPA Method 8015M.
3. TPH-d analyzed by by USEPA Method 8015M with silca gel cleanup.
4. Metals were analyzed by USEPA Method 6010B (Cadmium 0.7; Chromium 18; and Zinc 19). Lead 18 was analyzed by USEPA Method 7420.
**Bolded values** indicate the result exceeds the LTCP Residential Threshold.
-- = Not Applicable / Not Analyzed
< = Not detected at or above the laboratory Limit of Quantitation.
ND = Not detected at or above the stated Method Detection Limit.
~~3,000~~ = Overexcavated samples collected in 2002; these reported analytical results are no longer applicable.
[d] = Total Lead analyzed by USEPA Method 6010B.

**Data Qualifier:**
J = Estimated value (between Method Detection Limit and Limit of Quantitation).

**Acronyms and Abbreviations:**
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
ft bgs = feet below ground surface
LTCP = Low-Threat Underground Storage Tank Case Closure Policy
mg/kg = milligrams per kilogram
SVOC = Semi-Volatile Organic Compounds
TEH = Total Extractable Hydrocarbons as Gasoline
TOG = Total Oil and Grease
TPH = Total Petroleum Hydrocarbons
TPH-d = Total Petroleum Hydrocarbons as Diesel Range
TPH-g = Total Petroleum Hydrocarbons as Gasoline Range
TPH-ho = Total Petroleum Hydrocarbons as Heavy Oil Range
TPH-mo = Total Petroleum Hydrocarbons as Motor Oil Range
TVH = Total Volatile Hydrocarbons.
USEPA = United States Environmental Protection Agency
VOC = Volatile Organic Compound

**Table 1B. Soil Analytical Results VOCs, TPH, Metals 0-10 ft bgs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| LTCP Residential Threshold | 0-5 ft bgs | | 1.9 | - | 21 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | - |
| | 5-10 ft bgs | | 2.8 | - | 32 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | 80 |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - |
| Sample ID | Sample Date | Sample Depth (feet) | 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 | mg/kg |
| SS-1 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **753** |
| SS-10 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **83.1** |
| SS-10-A | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 76 |
| SS-10-E | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **140** |
| SS-10-N | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **83** |
| SS-10-NE | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **120** |
| SS-10-NW | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 36 |
| SS-10-S | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 70 |
| SS-10-SE | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 67 |
| SS-10-SW | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **510** |
| SS-10-W | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **610** |
| SS-11 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.19 |
| SS-12 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **120** |
| SS-12-A | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **690** |
| SS-12-E | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **87** |
| SS-12-N | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **490** |
| SS-12-NE | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 50 |
| SS-12-NW | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 14 |
| SS-12-S | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **210** |
| SS-12-SE | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **430** |
| SS-12-SW | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 15 |
| SS-12-W | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.2 |
| SS-14-A | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **150** |
| SS-14-E | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **400** |
| SS-14-N | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,300** |
| SS-14-NE | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **430** |
| SS-14-NW | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,400** |
| SS-14-S | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **110** |
| SS-14-SE | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **450** |
| SS-14-SW | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **430** |
| SS-14-W | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **180** |
| SS-1-A | 4/8/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **220** |
| SS-1-E | 4/5/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **530** |
| SS-1-N | 4/8/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 45 |
| SS-1-NE | 4/5/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **670** |
| SS-1-NW | 4/8/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **340** |
| SS-1-S | 4/5/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 27 |
| SS-1-SE | 4/5/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **210** |
| SS-1-SW | 4/5/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **330** |
| SS-1-W | 4/8/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 24 |
| SS-2 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **980** |
| SS-2-E | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,700** |
| SS-2-NE | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8 |
| SS-2-NW | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **600** |
| SS-2-SE | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **250** |
| SS-2-SW | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **200** |
| SS-2-W | 4/3/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,100** |
| SS-3 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **491** |
| SS-3-A | 4/9/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **430** |

**Table 1B. Soil Analytical Results VOCs, TPH, Metals 0-10 ft bgs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| LTCP Residential Threshold | 0-5 ft bgs | | 1.9 | - | 21 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | - |
| | 5-10 ft bgs | | 2.8 | - | 32 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | 80 |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - |
| Sample ID | Sample Date | Sample Depth (feet) | 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 | mg/kg |
| SS-3-E | 4/9/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **440** |
| SS-3-N | 4/9/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **600** |
| SS-3-NE | 4/9/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **850** |
| SS-3-NW | 4/9/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **690** |
| SS-3-S | 4/9/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **660** |
| SS-3-SE | 4/9/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,700** |
| SS-3-SW | 4/9/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **620** |
| SS-3-W | 4/9/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **380** |
| SS-4 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.24 |
| SS-5 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **237** |
| SS-5-E | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **200** |
| SS-5-N | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 60 |
| SS-5-NE | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **540** |
| SS-5-NW | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **170** |
| SS-5-S | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 62 |
| SS-5-SE | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **200** |
| SS-5-SW | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **330** |
| SS-5-W | 4/2/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **310** |
| SS-6 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **174** |
| SS-6-A | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **210** |
| SS-6-E | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **270** |
| SS-6-N | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **210** |
| SS-6-NE | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **470** |
| SS-6-NW | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **170** |
| SS-6-S | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **94** |
| SS-6-SE | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **970** |
| SS-6-SW | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **300** |
| SS-6-W | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **360** |
| SS-7 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.98 |
| SS-8 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 13.4 |
| SS-9 | 1/27/2010 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.89 |
| SS-1 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **806** |
| SS-10 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **179** |
| SS-10-A | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **100** |
| SS-10-E | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **190** |
| SS-10-N | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **210** |
| SS-10-NE | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **230** |
| SS-10-NW | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **510** |
| SS-10-S | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **210** |
| SS-10-SE | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **110** |
| SS-10-SW | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,900** |
| SS-10-W | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **750** |
| SS-11 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.01 |
| SS-12 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 11 |
| SS-12-A | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **450** |
| SS-12-E | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **5,300** |
| SS-12-N | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **250** |
| SS-12-NE | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **99** |
| SS-12-NW | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 26 |
| SS-12-S | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,800** |

**Table 1B. Soil Analytical Results VOCs, TPH, Metals 0-10 ft bgs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| LTCP Residential Threshold | 0-5 ft bgs | | 1.9 | - | 21 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | - |
| | 5-10 ft bgs | | 2.8 | - | 32 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | 80 |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - |
| Sample ID | Sample Date | Sample Depth (feet) | 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 | mg/kg |
| SS-12-SE | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.1 |
| SS-12-SW | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.6 |
| SS-12-W | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **670** |
| SS-14-A | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **220** |
| SS-14-E | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,700** |
| SS-14-N | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **730** |
| SS-14-NE | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,100** |
| SS-14-NW | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,900** |
| SS-14-S | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 34 |
| SS-14-SE | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,000** |
| SS-14-SW | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 30 |
| SS-14-W | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **130** |
| SS-1-A | 4/8/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **690** |
| SS-1-E | 4/5/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **400** |
| SS-1-N | 4/8/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **550** |
| SS-1-NE | 4/5/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,400** |
| SS-1-NW | 4/8/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,300** |
| SS-1-S | 4/5/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **340** |
| SS-1-SE | 4/5/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SS-1-SW | 4/5/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SS-1-W | 4/8/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 42 |
| SS-2 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.85 |
| SS-2-E | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **530** |
| SS-2-NE | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **110** |
| SS-2-NW | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **250** |
| SS-2-SE | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 25 |
| SS-2-SW | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 13 |
| SS-2-W | 4/3/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,400** |
| SS-3 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **5760** |
| SS-3-A | 4/9/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SS-3-E | 4/9/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,700** |
| SS-3-N | 4/9/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **490** |
| SS-3-NE | 4/9/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SS-3-NW | 4/9/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SS-3-S | 4/9/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **600** |
| SS-3-SE | 4/9/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,100** |
| SS-3-SW | 4/9/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **12,000** |
| SS-3-W | 4/9/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,000** |
| SS-4 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.06 |
| SS-5 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **123** |
| SS-5-A | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 16 |
| SS-5-E | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **490** |
| SS-5-N | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **94** |
| SS-5-NE | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **460** |
| SS-5-NW | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **83** |
| SS-5-S | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 44 |
| SS-5-SE | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **620** |
| SS-5-SW | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **120** |
| SS-5-W | 4/2/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 37 |
| SS-6 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **216** |

**Table 1B. Soil Analytical Results VOCs, TPH, Metals 0-10 ft bgs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| LTCP Residential Threshold | 0-5 ft bgs | | 1.9 | - | 21 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | - |
| | 5-10 ft bgs | | 2.8 | - | 32 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | 80 |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - |
| Sample ID | Sample Date | Sample Depth (feet) | 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 | mg/kg |
| SS-6-A | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **280** |
| SS-6-E | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 62 |
| SS-6-N | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **190** |
| SS-6-NE | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **290** |
| SS-6-NW | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **220** |
| SS-6-S | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **130** |
| SS-6-SE | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,000** |
| SS-6-SW | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **370** |
| SS-6-W | 4/1/2019 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 50 |
| SS-7 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.38 |
| SS-8 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 23.7 |
| SS-9 | 1/27/2010 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.82 |
| SS-10-A | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **190** |
| SS-10-E | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **220** |
| SS-10-N | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **310** |
| SS-10-NE | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 63 |
| SS-10-NW | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **400** |
| SS-10-S | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,200** |
| SS-10-SE | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **150** |
| SS-10-SW | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **4,000** |
| SS-10-W | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **760** |
| SS-12-A | 4/2/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **170** |
| SS-12-E | 4/2/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.8 |
| SS-12-N | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 51 |
| SS-12-NE | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **88** |
| SS-12-S | 4/2/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **770** |
| SS-12-W | 4/2/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **400** |
| SS-14-A | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,400** |
| SS-14-E | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,600** |
| SS-14-N | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SS-14-NE | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **920** |
| SS-14-NW | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **690** |
| SS-14-SE | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,000** |
| SS-14-SW | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **90** |
| SS-14-W | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **770** |
| SS-1-A | 4/8/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,800** |
| SS-1-E | 4/5/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **280** |
| SS-1-N | 4/8/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **500** |
| SS-1-NE | 4/5/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **800** |
| SS-1-NW | 4/8/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **730** |
| SS-1-S | 4/5/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **650** |
| SS-1-SE | 4/5/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,100** |
| SS-1-SW | 4/5/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **3,300** |
| SS-2-E | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **510** |
| SS-2-NE | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **130** |
| SS-2-NW | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **980** |
| SS-2-W | 4/3/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,500** |
| SS-3-A | 4/9/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,300** |
| SS-3-E | 4/9/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **260** |
| SS-3-N | 4/9/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **170** |

**Table 1B. Soil Analytical Results VOCs, TPH, Metals 0-10 ft bgs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| LTCP Residential Threshold | 0-5 ft bgs | | 1.9 | - | 21 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | - |
| | 5-10 ft bgs | | 2.8 | - | 32 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | 80 |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - |
| Sample ID | Sample Date | Sample Depth (feet) | 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 | mg/kg |
| SS-3-NE | 4/9/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **160** |
| SS-3-NW | 4/9/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 69 |
| SS-3-S | 4/9/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SS-3-SE | 4/9/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,300** |
| SS-3-SW | 4/9/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 78 |
| SS-3-W | 4/9/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **110** |
| SS-5-E | 4/2/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **120** |
| SS-5-N | 4/2/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 13 |
| SS-5-NE | 4/2/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **390** |
| SS-5-NW | 4/2/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 35 |
| SS-5-SE | 4/2/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **550** |
| SS-5-SW | 4/2/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **190** |
| SS-6-A | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **590** |
| SS-6-E | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 13 |
| SS-6-N | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,000** |
| SS-6-NE | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **82** |
| SS-6-NW | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **360** |
| SS-6-S | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **170** |
| SS-6-SE | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **240** |
| SS-6-SW | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 44 |
| SS-6-W | 4/1/2019 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 40 |
| SSD-1 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **780** |
| SSD-10 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **160** |
| SSD-11 | 4/13/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **380** |
| SSD-12 | 4/13/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 30 |
| SSD-13 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **180** |
| SSD-14 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **320** |
| SSD-15 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,600** |
| SSD-16 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **410** |
| SSD-17 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **220** |
| SSD-18 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **160** |
| SSD-19 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,100** |
| SSD-2 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,400** |
| SSD-20 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,100** |
| SSD-21 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **310** |
| SSD-23 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **140** |
| SSD-25 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **100** |
| SSD-29 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **720** |
| SSD-3 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,300** |
| SSD-4 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,900** |
| SSD-5 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,300** |
| SSD-6 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **180** |
| SSD-7 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **950** |
| SSD-8 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SSD-9 | 4/14/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,300** |
| SS-10-A | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **710** |
| SS-10-E | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **340** |
| SS-10-N | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 51 |
| SS-10-NE | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **590** |
| SS-10-NW | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **820** |

**Table 1B. Soil Analytical Results VOCs, TPH, Metals 0-10 ft bgs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| LTCP Residential Threshold | 0-5 ft bgs | | 1.9 | - | 21 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | - |
| | 5-10 ft bgs | | 2.8 | - | 32 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | 80 |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - |
| Sample ID | Sample Date | Sample Depth (feet) | 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 | mg/kg |
| SS-10-S | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,800** |
| SS-10-SE | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **200** |
| SS-10-SW | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 14 |
| SS-10-W | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,300** |
| SS-12-A | 4/2/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.8 |
| SS-12-NE | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.3 |
| SS-12-S | 4/2/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 16 |
| SS-12-SE | 4/2/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.4 |
| SS-12-W | 4/2/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 11 |
| SS-14-A | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **670** |
| SS-14-E | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 38 |
| SS-14-N | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **250** |
| SS-14-NE | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 17 |
| SS-14-NW | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **560** |
| SS-14-SE | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **940** |
| SS-14-SW | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,100** |
| SS-14-W | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **530** |
| SS-1-A | 4/8/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SS-1-E | 4/5/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **630** |
| SS-1-N | 4/8/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **560** |
| SS-1-NE | 4/5/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **440** |
| SS-1-NW | 4/8/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **650** |
| SS-1-S | 4/5/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,600** |
| SS-1-SE | 4/5/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,300** |
| SS-1-SW | 4/5/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **640** |
| SS-2-E | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **110** |
| SS-2-NE | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **890** |
| SS-2-NW | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **430** |
| SS-2-W | 4/3/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **370** |
| SS-3-A | 4/9/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 40 |
| SS-3-E | 4/9/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **430** |
| SS-3-N | 4/9/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **220** |
| SS-3-NE | 4/9/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 16 |
| SS-3-S | 4/9/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,900** |
| SS-3-SE | 4/9/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,800** |
| SS-3-W | 4/9/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 38 |
| SS-5-E | 4/2/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.9 |
| SS-5-NE | 4/2/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.3 |
| SS-5-SE | 4/2/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **150** |
| SS-5-SW | 4/2/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **810** |
| SS-6-A | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **350** |
| SS-6-E | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **160** |
| SS-6-N | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SS-6-NE | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 17 |
| SS-6-NW | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **370** |
| SS-6-S | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **420** |
| SS-6-SE | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.1 |
| SS-6-SW | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 72 |
| SS-6-W | 4/1/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,100** |
| CB-3 | 5/21/2014 | 2 | 0.001 | -- | <0.001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Table 1B. Soil Analytical Results VOCs, TPH, Metals 0-10 ft bgs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| LTCP Residential Threshold | 0-5 ft bgs | | 1.9 | - | 21 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | - |
| | 5-10 ft bgs | | 2.8 | - | 32 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | 80 |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - |
| Sample ID | Sample Date | Sample Depth (feet) | 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 | mg/kg |
| SS-10-A | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 19 |
| SS-10-E | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **270** |
| SS-10-N | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **120** |
| SS-10-NE | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **480** |
| SS-10-NW | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,800** |
| SS-10-S | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 23 |
| SS-10-SE | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 23 |
| SS-10-SW | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.3 |
| SS-10-W | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **88** |
| SS-14-A | 4/3/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.7 |
| SS-14-N | 4/3/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 27 |
| SS-14-NW | 4/3/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **3,900** |
| SS-14-SE | 4/3/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5 |
| SS-14-SW | 4/3/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **540** |
| SS-14-W | 4/3/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **260** |
| SS-1-A | 4/8/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **570** |
| SS-1-E | 4/5/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **160** |
| SS-1-N | 4/8/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **480** |
| SS-1-NE | 4/5/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **460** |
| SS-1-NW | 4/8/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,700** |
| SS-1-S | 4/5/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **590** |
| SS-1-SE | 4/5/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SS-1-SW | 4/5/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **96** |
| SS-2-E | 4/3/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **670** |
| SS-2-NE | 4/3/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **3,900** |
| SS-2-NW | 4/3/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.8 |
| SS-2-W | 4/3/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.9 |
| SS-3-E | 4/9/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **390** |
| SS-3-N | 4/9/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **160** |
| SS-3-S | 4/9/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 29 |
| SS-3-SE | 4/9/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **110** |
| SS-5-SE | 4/2/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.6 |
| SS-5-SW | 4/2/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 49 |
| SS-6-A | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **740** |
| SS-6-E | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.5 |
| SS-6-N | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **170** |
| SS-6-NE | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.4 |
| SS-6-NW | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **280** |
| SS-6-S | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **760** |
| SS-6-SE | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.7 |
| SS-6-SW | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **230** |
| SS-6-W | 4/1/2019 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **81** |
| SSD-1 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **910** |
| SSD-10 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9.2 |
| SSD-11 | 4/13/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 35 |
| SSD-12 | 4/13/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.4 J |
| SSD-13 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 10 |
| SSD-14 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **280** |
| SSD-15 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 33 |
| SSD-16 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **180** |

**Table 1B. Soil Analytical Results VOCs, TPH, Metals 0-10 ft bgs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| LTCP Residential Threshold | 0-5 ft bgs | | 1.9 | - | 21 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | - |
| | 5-10 ft bgs | | 2.8 | - | 32 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | 80 |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - |
| Sample ID | Sample Date | Sample Depth (feet) | 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 | mg/kg |
| SSD-17 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **250** |
| SSD-18 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 58 |
| SSD-19 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **800** |
| SSD-2 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **750** |
| SSD-20 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **150** |
| SSD-21 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **550** |
| SSD-23 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **550** |
| SSD-25 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 38 |
| SSD-29 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **810** |
| SSD-3 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,600** |
| SSD-4 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 34 |
| SSD-5 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **530** |
| SSD-6 | 4/15/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 45 |
| SSD-7 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 16 |
| SSD-8 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 12 |
| SSD-9 | 4/14/2021 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **380** |
| CB-1A-S-2.5 | 4/2/2019 | 2.5 | <0.00048 | <0.00048 | <0.00048 | <0.0012 | <0.0005 | -- | -- | <0.00097 | <0.078 | <2.8 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1B-S-2.5 | 4/9/2019 | 2.5 | <0.00049 | 0.0011 | <0.00049 | 0.0016 J | <0.00097 | -- | -- | <0.00097 | <0.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2A-S-2.5 | 4/4/2019 | 2.5 | <0.00050 | 0.00060 J | <0.00050 | <0.0013 | <0.00099 | -- | -- | <0.00099 | <0.13 | 8.2 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2B-S-2.5 | 4/4/2019 | 2.5 | 0.0016 | 0.0025 | <0.00051 | <0.0013 | <0.0010 | -- | -- | <0.0010 | <0.17 | 4.1 J | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3A-S-2.5 | 4/5/2019 | 2.5 | <0.00047 | 0.00099 | <0.00047 | 0.0019 | <0.00094 | -- | -- | <0.00094 | <0.17 | 5.2 J | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3B-S-2.5 | 4/5/2019 | 2.5 | 0.0011 J | 0.0022 | <0.00065 | <0.0017 | <0.0013 | -- | -- | <0.0013 | <0.15 | <2.7 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4A-S-2.5 | 4/8/2019 | 2.5 | 0.00081 J | 0.0037 | 0.002 | 0.0059 | <0.0011 | -- | -- | <0.0011 | <0.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4B-S-2.5 | 4/9/2019 | 2.5 | <0.00051 | 0.0027 | <0.00051 | 0.0013 J | <0.0010 | -- | -- | <0.0010 | <0.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4C-S-2.5 | 4/3/2019 | 2.5 | <0.00059 | 0.00086 J | <0.00059 | <0.0015 | <0.0012 | -- | -- | <0.0012 | <0.21 | 4.8 J | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-5A-S-2.5 | 4/5/2019 | 2.5 | 0.0011 J | 0.0042 | <0.00076 | 0.0038 | <0.0015 | -- | -- | <0.0015 | 0.16 J | 6.8 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-6A-S-2.5 | 4/8/2019 | 2.5 | 0.007 | 0.021 | <0.00046 | 0.0024 | <0.00092 | -- | -- | <0.00092 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-1 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 55.0 |
| SS-10 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **198** |
| SS-10-A | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.4 |
| SS-10-E | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **290** |
| SS-10-N | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **960** |
| SS-10-NE | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **380** |
| SS-10-NW | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **420** |
| SS-10-S | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.8 |
| SS-10-SE | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **90** |
| SS-10-SW | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.2 |
| SS-10-W | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.7 |
| SS-11 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.36 |
| SS-12 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.17 |
| SS-14-NW | 4/3/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **660** |
| SS-14-SW | 4/3/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **340** |
| SS-14-W | 4/3/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,100** |
| SS-1-A | 4/8/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,300** |
| SS-1-E | 4/5/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **500** |
| SS-1-N | 4/8/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **390** |
| SS-1-NE | 4/5/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **810** |
| SS-1-NW | 4/8/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,300** |
| SS-1-S | 4/5/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **120** |
| SS-1-SE | 4/5/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **960** |

**Table 1B. Soil Analytical Results VOCs, TPH, Metals 0-10 ft bgs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| LTCP Residential Threshold | 0-5 ft bgs | | 1.9 | - | 21 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | - |
| | 5-10 ft bgs | | 2.8 | - | 32 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | 80 |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - |
| Sample ID | Sample Date | Sample Depth (feet) | 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 | mg/kg |
| SS-1-SW | 4/5/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 40 |
| SS-2 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.29 |
| SS-2-E | 4/3/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.4 |
| SS-2-NE | 4/3/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 13 |
| SS-3 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.63 |
| SS-3-E | 4/9/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.8 |
| SS-3-N | 4/9/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 17 |
| SS-3-SE | 4/9/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.6 |
| SS-4 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.02 |
| SS-5 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.11 |
| SS-5-SE | 4/2/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.4 |
| SS-6 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **669** |
| SS-6-A | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **24,000** |
| SS-6-N | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.1 |
| SS-6-NW | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6 |
| SS-6-S | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **590** |
| SS-6-SW | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 24 |
| SS-6-W | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,100** |
| SS-7 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.03 |
| SS-9 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 24.1 |
| SS-10-E | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.9 |
| SS-10-N | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.2 |
| SS-10-NE | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 29 |
| SS-10-NW | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **130** |
| SS-10-SE | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.8 |
| SS-14-NW | 4/3/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.5 |
| SS-14-SW | 4/3/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,800** |
| SS-14-W | 4/3/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **3,000** |
| SS-1-A | 4/8/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **270** |
| SS-1-E | 4/5/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **790** |
| SS-1-N | 4/8/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **350** |
| SS-1-NE | 4/5/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 15 |
| SS-1-NW | 4/8/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **340** |
| SS-1-S | 4/5/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 11 |
| SS-1-SE | 4/5/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **240** |
| SS-6-A | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,400** |
| SS-6-S | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **290** |
| SS-6-W | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **500** |
| SSD-1 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **95** |
| SSD-10 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 11 |
| SSD-11 | 4/13/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.8 |
| SSD-12 | 4/13/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9.8 |
| SSD-13 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 77 |
| SSD-14 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **130** |
| SSD-15 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 25 |
| SSD-16 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.9 |
| SSD-17 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 63 |
| SSD-18 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 11 |
| SSD-19 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **140** |
| SSD-2 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **240** |

**Table 1B. Soil Analytical Results VOCs, TPH, Metals 0-10 ft bgs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| LTCP Residential Threshold | 0-5 ft bgs | | 1.9 | - | 21 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | - |
| | 5-10 ft bgs | | 2.8 | - | 32 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | 80 |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - |
| Sample ID | Sample Date | Sample Depth (feet) | 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 | mg/kg |
| SSD-20 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 53 |
| SSD-21 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **840** |
| SSD-23 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **190** |
| SSD-25 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 23 |
| SSD-29 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SSD-3 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **310** |
| SSD-4 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 45 |
| SSD-5 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **160** |
| SSD-6 | 4/15/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 17 |
| SSD-7 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 15 |
| SSD-8 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 24 |
| SSD-9 | 4/14/2021 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **340** |
| ~~SV-1~~ | ~~5/30/1997~~ | ~~3~~ | ~~<0.0050~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | -- | -- | -- | -- | ~~<1.0~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-3 | 5/30/1997 | 3 | <0.005 | 0.029 | 0.014 | 0.1 | -- | -- | -- | -- | 1.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SV-4~~ | ~~5/30/1997~~ | ~~3~~ | ~~<0.005~~ | ~~0.0058~~ | ~~<0.005~~ | ~~0.01~~ | -- | -- | -- | -- | ~~<1.0~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SV-5~~ | ~~5/30/1997~~ | ~~3~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | -- | -- | -- | -- | ~~<1.0~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~B-3~~ | ~~8/18/1989~~ | ~~3.5~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | ~~<10~~ | -- | -- | ~~<50~~ | -- | -- | -- | -- | -- |
| ~~B-5~~ | ~~8/18/1989~~ | ~~3.5~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ~~16,000~~ | -- | -- | -- | -- | -- |
| SSD-22 | 4/15/2021 | 3.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **170** |
| SSD-24 | 4/15/2021 | 3.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **160** |
| SSD-26 | 4/15/2021 | 3.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 15 |
| SSD-27 | 4/15/2021 | 3.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,200** |
| SSD-29 | 4/15/2021 | 3.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,700** |
| ~~SV-2~~ | ~~5/30/1997~~ | ~~3.5~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | -- | -- | -- | -- | ~~<1.0~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4 | 5/21/2014 | 4 | 0.002 | -- | 0.006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SSD-1 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 44 |
| SSD-10 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.7 |
| SSD-11 | 4/13/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 15 |
| SSD-12 | 4/13/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.7 J |
| SSD-13 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.8 J |
| SSD-14 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 23 |
| SSD-15 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.2 |
| SSD-16 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.7 J |
| SSD-17 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 17 |
| SSD-18 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **99** |
| SSD-19 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **97** |
| SSD-2 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 60 |
| SSD-20 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **280** |
| SSD-21 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **3,500** |
| SSD-22 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.6 J |
| SSD-23 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 13 |
| SSD-24 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 13 |
| SSD-25 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 17 |
| SSD-27 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 15 |
| SSD-29 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **290** |
| SSD-3 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **130** |
| SSD-4 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **100** |
| SSD-5 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **110** |
| SSD-6 | 4/15/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **90** |
| SSD-7 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 29 |

**Table 1B. Soil Analytical Results VOCs, TPH, Metals 0-10 ft bgs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| **LTCP Residential Threshold** | **0-5 ft bgs** | | **1.9** | **-** | **21** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **5-10 ft bgs** | | **2.8** | **-** | **32** | **-** | **-** | **-** | **-** | **9.7** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **80** |
| **Leaching to Groundwater Levels (Non Drinking Water)** | **-** | | **0.025** | **10.29** | **0.43** | **10.40** | **2.53** | **0.031** | **0.0019** | **-** | **4,932** | **7,284** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **Sample ID** | **Sample Date** | **Sample Depth (feet)** | **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** | **mg/kg** |
| SSD-8 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 10 |
| SSD-9 | 4/14/2021 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **80 F1** |
| CB-7 | 5/21/2014 | 4.5 | 0.0006 | -- | <0.001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| Boring MW-8 | 12/18/1996 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | **--** |
| C-1 | 11/1/2004 | 5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | 2.8 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| C-2 | 11/1/2004 | 5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | 450 | -- | -- | -- | -- | -- | --- | --- | **--** |
| C-4 | 11/1/2004 | 5 | 0.001 | 0.008 | <0.001 | 0.003 | <0.0005 | <0.001 | <0.001 | -- | 9.2 | 160 | -- | -- | -- | -- | -- | --- | --- | **--** |
| C-5 | 11/1/2004 | 5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | 1.0 | 160 | -- | -- | -- | -- | -- | --- | --- | **--** |
| C-8 | 11/1/2004 | 5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | 38 | -- | -- | -- | -- | -- | --- | --- | **--** |
| C-9 | 11/1/2004 | 5 | <0.0005 | 0.003 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <4.0 | 47 | -- | -- | -- | -- | -- | --- | --- | **--** |
| CB-1A-S-5.0 | 4/2/2019 | 5 | <0.00045 | <0.00045 | <0.00045 | <0.0012 | <0.00090 | -- | -- | <0.00090 | <0.078 | <3.1 | -- | -- | -- | -- | -- | -- | -- | **--** |
| CB-1B-S-5.0 | 4/9/2019 | 5 | <0.00040 | 0.0023 | 0.00068 J | 0.003 | <0.00079 | -- | -- | <0.00079 | <0.13 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| CB-2A-S-5.0 | 4/4/2019 | 5 | <0.00045 | 0.00052 J | <0.00045 | <0.0012 | <0.00090 | -- | -- | <0.00090 | <0.14 | 4.1 J | -- | -- | -- | -- | -- | -- | -- | **--** |
| CB-2B-S-5.0 | 4/4/2019 | 5 | <0.00043 | 0.00069 J | <0.00043 | <0.0011 | <0.00085 | -- | -- | <0.00085 | <0.12 | 0.0011 | -- | -- | -- | -- | -- | -- | -- | **--** |
| CB-3A-S-5.0 | 4/5/2019 | 5 | 0.00089 J | 0.0049 | 0.0014 | 0.0059 | <0.0012 | -- | -- | <0.0012 | 0.14 J | 58 | -- | -- | -- | -- | -- | -- | -- | **--** |
| CB-3B-S-5.0 | 4/5/2019 | 5 | <0.00044 | 0.00096 | <0.00044 | <0.0011 | <0.00088 | -- | -- | <0.00088 | <0.13 | 3.2 J | -- | -- | -- | -- | -- | -- | -- | **--** |
| CB-4A-S-5.0 | 4/8/2019 | 5 | 0.0012 | 0.017 | 0.0018 | 0.026 | <0.00089 | -- | -- | <0.00089 | 0.24 J | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| CB-4B-S-5.0 | 4/9/2019 | 5 | <0.00043 | 0.00096 | <0.00043 | 0.0012 J | <0.00086 | -- | -- | <0.00086 | <0.13 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| CB-4C-S-5.0 | 4/3/2019 | 5 | <0.00054 | 0.00081 J | <0.00054 | <0.0014 | <0.0011 | -- | -- | <0.0011 | 0.20 J | <3.7 | -- | -- | -- | -- | -- | -- | -- | **--** |
| CB-5A-S-5.0 | 4/5/2019 | 5 | <0.00045 | 0.00075 J | <0.00045 | <0.0012 | <0.00090 | -- | -- | <0.00090 | 0.20 J | 5.0 J | -- | -- | -- | -- | -- | -- | -- | **--** |
| CB-6A-S-5.0 | 4/8/2019 | 5 | <0.00042 | 0.00063 J | <0.00042 | <0.0011 | <0.00085 | -- | -- | <0.00085 | -- | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| CPT-2 | 10/6/2004 | 5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <4.0 | 560 | -- | -- | -- | -- | -- | --- | --- | **--** |
| CPT-4 | 10/6/2004 | 5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | 46 | -- | -- | -- | -- | -- | --- | --- | **--** |
| CPT-5 | 10/11/2004 | 5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | 1.5 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| ~~G-1~~ | ~~6/21/2002~~ | ~~5~~ | ~~0.95~~ | ~~46~~ | ~~**52**~~ | ~~240~~ | <5 | -- | -- | -- | ~~3,000~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 4.7 |
| ~~G-10~~ | ~~6/21/2002~~ | ~~5~~ | ~~0.014~~ | ~~0.073~~ | ~~0.012~~ | ~~0.052~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 2.6 |
| ~~G-11~~ | ~~6/21/2002~~ | ~~5~~ | ~~<0.0050~~ | ~~0.035~~ | ~~0.019~~ | ~~0.084~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 5.2 |
| ~~G-12~~ | ~~6/21/2002~~ | ~~5~~ | ~~<0.0050~~ | ~~0.034~~ | ~~0.010~~ | ~~0.057~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 16.1 |
| ~~G-13~~ | ~~6/21/2002~~ | ~~5~~ | ~~<0.0050~~ | ~~0.0062~~ | ~~<0.0050~~ | ~~0.019~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 7.5 |
| ~~G-14~~ | ~~6/21/2002~~ | ~~5~~ | ~~<20~~ | ~~190~~ | ~~**120**~~ | ~~510~~ | 19 | -- | -- | -- | ~~3,900~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 5.2 |
| G-15 | 6/21/2002 | 5 | <0.0050 | 0.020 | <0.0050 | 0.017 | <0.050 | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | 22.5d |
| G-15-C | 4/12/2021 | 5 | 0.00023 J | <0.00089 | <0.00089 | <0.0018 | <0.0018 | <0.00089 | <0.00089 | <0.0089 | <0.081 | <4.7 | <4.7 | -- | -- | -- | -- | --- | --- | **--** |
| G-16 | 6/21/2002 | 5 | <0.0050 | 0.015 | <0.0050 | <0.015 | <0.050 | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | 2.4d |
| G-16-C | 4/13/2021 | 5 | <0.00071 | <0.00071 | <0.00071 | <0.0014 | <0.0014 | <0.00071 | <0.00071 | <0.0071 | <0.079 | <4.9 | <4.9 | -- | -- | -- | -- | --- | --- | -- |
| G-17 | 6/21/2002 | 5 | 0.082 | 0.78 | 0.54 | 1.2 | 0.22 | -- | -- | -- | 35 | --- | -- | -- | -- | -- | -- | --- | --- | **368d** |
| G-17-C | 4/13/2021 | 5 | 0.0054 | 0.067 | 0.03 | 0.087 | <0.0015 | <0.00075 | <0.00075 | 0.0074 J | 1.6 | <4.9 | <4.9 | -- | -- | -- | -- | --- | --- | 9.6 |
| G-18 | 6/21/2002 | 5 | 0.11 | 1.1 | 0.76 | 2.6 | <0.20 | -- | -- | -- | 81 | --- | -- | -- | -- | -- | -- | --- | --- | 3.7d |
| G-19 | 6/21/2002 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.050 | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | 2.6d |
| ~~G-2~~ | ~~6/21/2002~~ | ~~5~~ | ~~**2.8**~~ | ~~84~~ | ~~**77**~~ | ~~310~~ | 5.5 | -- | -- | -- | ~~2,700~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 7.1 |
| ~~G-20~~ | ~~6/21/2002~~ | ~~5~~ | ~~**3.2**~~ | ~~31~~ | ~~30~~ | ~~140~~ | <5.0 | -- | -- | -- | ~~1,700~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 4.3d |
| G-21 | 6/21/2002 | 5 | <0.0050 | 0.016 | <0.0050 | 0.016 | <0.50 | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | 4.2d |
| G-24 | 1/29/2003 | 5 | <0.0050 | 0.012 | <0.0050 | <0.015 | <0.050 | -- | -- | -- | <1.0 | 52 | -- | -- | -- | -- | -- | --- | --- | **--** |
| G-25 | 1/29/2003 | 5 | <0.0050 | 0.0095 | <0.0050 | <0.015 | <0.050 | -- | -- | -- | <1.0 | 53 | -- | -- | -- | -- | -- | --- | --- | **--** |
| G-26 | 1/29/2003 | 5 | <0.0050 | 0.020 | 0.0076 | 0.036 | <0.05 | -- | -- | -- | 2.2 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| G-27 | 1/29/2003 | 5 | <0.0050 | 0.020 | <0.0050 | 0.018 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| G-27-C | 4/13/2021 | 5 | <0.00078 | <0.00078 | <0.00078 | <0.0016 | <0.0016 | <0.00078 | <0.00078 | <0.0078 | <0.082 | <5.2 | <5.2 | -- | -- | -- | -- | --- | --- | **--** |
| G-28 | 1/29/2003 | 5 | 0.0054 | 0.030 | 0.0063 | 0.026 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| G-29 | 1/29/2003 | 5 | <0.0050 | 0.021 | 0.0057 | 0.021 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| ~~G-3~~ | ~~6/21/2002~~ | ~~5~~ | ~~0.0059~~ | ~~0.049~~ | ~~0.016~~ | ~~0.057~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 5.8 |
| G-30 | 1/29/2003 | 5 | 0.014 | 0.25 | 0.14 | 0.70 | <0.05 | -- | -- | -- | 7.1 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |

**Table 1B. Soil Analytical Results VOCs, TPH, Metals 0-10 ft bgs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| LTCP Residential Threshold | 0-5 ft bgs | | 1.9 | - | 21 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | - |
| | 5-10 ft bgs | | 2.8 | - | 32 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | 80 |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - |
| Sample ID | Sample Date | Sample Depth (feet) | 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 | mg/kg |
| ~~G-4~~ | ~~6/21/2002~~ | ~~5~~ | ~~<0.0050~~ | ~~0.021~~ | ~~0.0056~~ | ~~0.027~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 2.7 |
| ~~G-5~~ | ~~6/21/2002~~ | ~~5~~ | ~~<0.0050~~ | ~~0.041~~ | ~~0.022~~ | ~~0.064~~ | <0.05 | -- | -- | -- | ~~7.1~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 4.3 |
| ~~G-6~~ | ~~6/21/2002~~ | ~~5~~ | ~~<0.0050~~ | ~~0.0069~~ | ~~0.0054~~ | ~~0.022~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 3.5 |
| ~~G-7~~ | ~~6/21/2002~~ | ~~5~~ | ~~0.0057~~ | ~~0.045~~ | ~~0.012~~ | ~~0.046~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 3.0 |
| ~~G-8~~ | ~~6/21/2002~~ | ~~5~~ | ~~**8.4**~~ | ~~280~~ | ~~**210**~~ | ~~960~~ | <20 | -- | -- | -- | ~~7,100~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 5.6 |
| ~~G-9~~ | ~~6/21/2002~~ | ~~5~~ | ~~1.9~~ | ~~54~~ | ~~**57**~~ | ~~350~~ | <5 | -- | -- | -- | ~~3,700~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 17.7 |
| ~~MW-1~~ | ~~10/17/1995~~ | ~~5~~ | ~~0.091~~ | ~~0.49~~ | ~~0.14~~ | ~~1.9~~ | ~~--~~ | ~~--~~ | ~~--~~ | -- | ~~11~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ |
| MW-2 | 10/17/1995 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-3 | 10/17/1995 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-4 | 10/18/1995 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-5 | 12/18/1996 | 5 | <0.0050 | 0.016 | 0.0083 | 0.046 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-6 | 12/18/1996 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-7 | 12/18/1996 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| SB-1 | 4/12/2021 | 5 | <0.00091 | <0.00091 | <0.00091 | <0.0018 | <0.0018 | <0.00091 | <0.00091 | <0.0091 | <0.093 | <5.0 | 14 | -- | -- | -- | -- | -- | -- | -- |
| ~~SB-1~~ | ~~10/17/1995~~ | ~~5~~ | ~~0.34~~ | ~~1.2~~ | ~~1.2~~ | ~~1.3~~ | ~~--~~ | ~~--~~ | ~~--~~ | -- | ~~87~~ | ~~---~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ |
| SB-2 | 4/12/2021 | 5 | <0.00087 | <0.00087 | <0.00087 | <0.0017 | <0.0017 | <0.00087 | <0.00087 | <0.0087 | <0.091 | <5.1 | <5.1 | -- | -- | -- | -- | -- | -- | -- |
| ~~SB-2~~ | ~~10/17/1995~~ | ~~5~~ | ~~0.19~~ | ~~4.8~~ | ~~5.1~~ | ~~26~~ | ~~--~~ | ~~--~~ | ~~--~~ | -- | ~~240~~ | ~~---~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ |
| SB-3 | 4/12/2021 | 5 | <0.00091 | <0.00091 | <0.00091 | <0.0018 | <0.0018 | <0.00091 | <0.00091 | <0.0091 | <0.093 | <5.0 | <5.0 | -- | -- | -- | -- | -- | -- | -- |
| ~~SB-3~~ | ~~10/18/1995~~ | ~~5~~ | ~~<0.0050~~ | ~~0.019~~ | ~~0.0087~~ | ~~0.049~~ | ~~--~~ | ~~--~~ | ~~--~~ | -- | ~~<1.0~~ | ~~---~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ |
| SB-4 | 4/12/2021 | 5 | <0.00085 | <0.00085 | <0.00085 | <0.0017 | <0.0017 | <0.00085 | <0.00085 | <0.0085 | <0.086 | <4.9 | 5.8 | -- | -- | -- | -- | -- | -- | -- |
| SSD-11 | 4/13/2021 | 5 | -- | -- | -- | -- | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SSD-12 | 4/13/2021 | 5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SW-1 | 11/15/2002 | 5 | <0.0050 | 0.0073 | <0.0050 | 0.017 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| SW-10 | 11/15/2002 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| SW-2 | 11/18/2002 | 5 | <0.0050 | 0.0088 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| SW-2-C | 4/13/2021 | 5 | <0.00089 | <0.00089 | <0.00089 | <0.0018 | <0.0018 | <0.00089 | <0.00089 | <0.0089 | <0.089 | <4.8 | <4.8 | -- | -- | -- | -- | --- | --- | -- |
| SW-3 | 11/18/2002 | 5 | <0.0050 | 0.0089 | <0.0050 | 0.021 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| SW-3-C | 4/13/2021 | 5 | 0.00097 | 0.00052 J | 0.0022 | 0.007 | <0.0013 | <0.00067 | <0.00067 | <0.0067 | 0.26 | <4.7 | <4.7 | -- | -- | -- | -- | --- | --- | -- |
| SW-4 | 11/18/2002 | 5 | <0.0050 | 0.0081 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| SW-4/MW-14-C | 4/13/2021 | 5 | 0.00022 J | 0.00082 J | 0.00068 J | 0.0035 | <0.0017 | <0.00085 | <0.00085 | 0.018 | 0.53 | -- | -- | -- | -- | -- | -- | --- | --- | -- |
| SW-5 | 11/16/2002 | 5 | 0.0072 | 0.039 | 0.0057 | 0.022 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| SW-6 | 11/16/2002 | 5 | 0.0084 | 0.15 | 0.079 | 0.41 | <0.05 | -- | -- | -- | 4.1 | 110 | -- | -- | -- | -- | -- | --- | --- | -- |
| SW-7 | 11/15/2002 | 5 | <0.0050 | 0.011 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| SW-8 | 11/15/2002 | 5 | <0.0050 | 0.016 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| SW-9 | 11/15/2002 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| TW-1 | 4/12/2021 | 5 | <0.00092 | <0.00092 | <0.00092 | <0.0018 | <0.0018 | <0.00092 | <0.00092 | <0.0092 | <0.088 | <4.9 | 21 | -- | -- | -- | -- | -- | -- | -- |
| TW-2 | 4/12/2021 | 5 | <0.00092 | <0.00092 | <0.00092 | <0.0018 | <0.0018 | <0.00092 | <0.00092 | <0.0092 | 0.068 J | 4.1 J | 8.6 | -- | -- | -- | -- | -- | -- | -- |
| TW-3 | 4/12/2021 | 5 | <0.00092 | <0.00092 | <0.00092 | <0.0018 | <0.0018 | <0.00092 | <0.00092 | <0.0092 | 0.060 J | <10 | 100 | -- | -- | -- | -- | -- | -- | -- |
| CB-2 | 5/21/2014 | 6 | **6.4** | -- | **96** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4 | 5/21/2014 | 6 | 0.02 | -- | 0.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-1 | 3/22/1996 | 6 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.025 | -- | -- | -- | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-2 | 3/22/1996 | 6 | <4.0 | 120 | **71** | 330 | <20 | -- | -- | -- | 4,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7 | 3/22/1996 | 6 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.025 | -- | -- | -- | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-8 | 3/22/1996 | 6 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.025 | -- | -- | -- | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SV-1~~ | ~~5/30/1997~~ | ~~6~~ | ~~<2.5~~ | ~~46~~ | ~~**57**~~ | ~~300~~ | ~~--~~ | ~~--~~ | ~~--~~ | -- | ~~2,100~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ |
| ~~SV-2~~ | ~~5/30/1997~~ | ~~6~~ | ~~<0.005~~ | ~~0.009~~ | ~~0.01~~ | ~~0.057~~ | ~~--~~ | ~~--~~ | ~~--~~ | -- | ~~11~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ |
| SV-3 | 5/30/1997 | 6 | 0.13 | 0.28 | 1.4 | 1.9 | -- | -- | -- | -- | 84 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SV-4~~ | ~~5/30/1997~~ | ~~6~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.05~~ | ~~--~~ | ~~--~~ | ~~--~~ | -- | ~~1.3~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ |
| ~~SV-5~~ | ~~5/30/1997~~ | ~~6~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | ~~--~~ | ~~--~~ | ~~--~~ | -- | ~~<1.0~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ |
| VP-1 | 10/25/2007 | 6 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | -- | -- | -- | -- | 4.9 | -- | -- | -- | -- | -- | --- | --- | -- |

**Table 1B. Soil Analytical Results VOCs, TPH, Metals 0-10 ft bgs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| LTCP Residential Threshold | 0-5 ft bgs | | 1.9 | - | 21 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | - |
| | 5-10 ft bgs | | 2.8 | - | 32 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | 80 |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - |
| Sample ID | Sample Date | Sample Depth (feet) | 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 | mg/kg |
| VP-2 | 10/25/2007 | 6 | <0.0005 | <0.001 | <0.001 | 0.001 | <0.0005 | -- | -- | -- | -- | 300 | -- | -- | -- | -- | -- | --- | --- | -- |
| VP-3 | 10/25/2007 | 6 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | -- | -- | -- | -- | 6.4 | -- | -- | -- | -- | -- | --- | --- | -- |
| VP-4 | 10/25/2007 | 6 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | -- | -- | -- | -- | 44 | -- | -- | -- | -- | -- | --- | --- | -- |
| VP-5 | 10/25/2007 | 6 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | -- | -- | -- | -- | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| VP-6 | 10/25/2007 | 6 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | -- | -- | -- | -- | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| SVP-1 | 4/14/2021 | 6.5 | 0.0028 | 0.0015 | 0.00024 J | <0.0019 | <0.0019 | <0.00097 | <0.00097 | <0.0097 | <0.092 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SVP-2 | 4/14/2021 | 6.5 | <0.00079 | <0.00079 | <0.00079 | <0.0016 | <0.0016 | <0.00079 | <0.00079 | <0.0079 | <0.084 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SVP-3 | 4/13/2021 | 6.5 | 0.00045 J | <0.00089 | <0.00089 | <0.0018 | <0.0018 | <0.00089 | <0.00089 | <0.0089 | <0.085 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SVP-4 | 4/14/2021 | 6.5 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.0020 | <0.0010 | <0.0010 | <0.010 | <0.094 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~B-2~~ | ~~8/18/1989~~ | ~~7~~ | **50** | ~~450~~ | **130** | ~~540~~ | -- | -- | -- | -- | -- | ~~<100~~ | -- | -- | -- | -- | -- | ~~4,100~~ | ~~14,000~~ | -- |
| CB-1 | 5/21/2014 | 7 | **13** | -- | **250** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3 | 5/21/2014 | 7 | **12** | -- | **200** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-5 | 5/21/2014 | 7 | **2.9** | -- | **56** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-6 | 5/21/2014 | 7 | 2.2 | -- | 31 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~B-4~~ | ~~8/18/1989~~ | ~~7.5~~ | **57** | ~~250~~ | **140** | ~~610~~ | -- | -- | -- | -- | -- | ~~<100~~ | -- | -- | -- | -- | -- | ~~5,400~~ | ~~5,100~~ | -- |
| CB-1A-S-7.5 | 4/2/2019 | 7.5 | <3.1 | 110 | **77** | 340 | <6.2 | -- | -- | **23** | 2,900 | 290 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1B-S-7.5 | 4/9/2019 | 7.5 | **7.6 J** | 320 | **180** | 790 | <9.9 | -- | -- | **30** | 6,200 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2A-S-7.5 | 4/4/2019 | 7.5 | <26 | 470 | **280** | 1,200 | <5.2 | -- | -- | **60** | 10,000 | 2,300 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2B-S-7.5 | 4/4/2019 | 7.5 | **30** | 710 | **370** | 1,500 | <9.9 | -- | -- | **73** | 14,000 | 2,600 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3A-S-7.5 | 4/5/2019 | 7.5 | 1.1 J | 40 | 29 | 140 | <2.0 | -- | -- | 8.6 | 1,200 | 86 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3B-S-7.5 | 4/5/2019 | 7.5 | **15** | 440 | **240** | 1,000 | <4.8 | -- | -- | **41** | 8,900 | 1,000 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4A-S-7.5 | 4/8/2019 | 7.5 | <2.6 | 99 | **77** | 350 | <5.2 | -- | -- | **23** | 2,600 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4B-S-7.5 | 4/9/2019 | 7.5 | <2.0 | 52 | 32 | 140 | <4.0 | -- | -- | **13** | 1,400 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4C-S-7.5 | 4/3/2019 | 7.5 | **24** | 900 | **470** | 2,000 | <12 | -- | -- | **86** | 16,000 | 2,700 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-5A-S-7.5 | 4/5/2019 | 7.5 | 0.011 | 0.046 | 0.016 | 0.061 | <0.0012 | -- | -- | 0.014 | 0.75 | 8 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-6A-S-7.5 | 4/8/2019 | 7.5 | **2.9** | 88 | **58** | 250 | <0.42 | -- | -- | **12** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SWH-1 | 11/16/2002 | 7.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <10 | <10 | -- | -- | -- | --- | --- | -- |
| SWH-2 | 11/16/2002 | 7.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <10 | <10 | -- | -- | -- | --- | --- | -- |
| SWH-4 | 11/16/2002 | 7.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <10 | <10 | -- | -- | -- | --- | --- | -- |
| SWW-1 | 11/18/2002 | 7.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <230 | -- | -- | --- | --- | -- |
| SWW-3 | 11/18/2002 | 7.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <230 | -- | -- | --- | --- | -- |
| SWW-4 | 11/18/2002 | 7.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <230 | -- | -- | --- | --- | -- |
| SSD-11 | 4/13/2021 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SSD-12 | 4/13/2021 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SWH-3 | 11/16/2002 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <10 | <10 | -- | -- | -- | --- | --- | -- |
| SWW-2 | 11/18/2002 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <230 | -- | -- | --- | --- | -- |
| ~~WOT~~ | ~~4/12/2001~~ | ~~8~~ | ~~0.0092~~ | ~~0.04~~ | ~~0.058~~ | ~~0.24~~ | ~~0.058~~ | -- | -- | -- | ~~10~~ | ~~3.2~~ | -- | -- | ~~110~~ | -- | -- | -- | -- | -- |
| ~~A-1~~ | ~~4/12/2001~~ | ~~8.5~~ | **10** | ~~4.4~~ | ~~15~~ | ~~48~~ | ~~<5.0~~ | -- | -- | -- | ~~630~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~A-2~~ | ~~4/12/2001~~ | ~~8.5~~ | ~~0.11~~ | ~~0.24~~ | ~~0.37~~ | ~~0.98~~ | ~~0.38~~ | -- | -- | -- | ~~32~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SV-1~~ | ~~5/30/1997~~ | ~~8.5~~ | **52** | ~~360~~ | **140** | ~~720~~ | -- | -- | -- | -- | ~~7,600~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2 | 5/21/2014 | 9 | **49** | -- | **300** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3 | 5/21/2014 | 9 | **32** | -- | **330** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-5 | 5/21/2014 | 9 | **28** | -- | **280** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-7 | 5/21/2014 | 9 | **3.2** | -- | 29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-14 | 4/11/2007 | 9.0 | 0.23 | 35 | **34** | 180 | -- | -- | -- | -- | 3,400 | 33 | -- | -- | -- | -- | -- | --- | --- | -- |
| ~~SV-2~~ | ~~5/30/1997~~ | ~~9~~ | **12** | ~~420~~ | **150** | ~~710~~ | -- | -- | -- | -- | ~~8,000~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-3 | 5/30/1997 | 9 | **5.8** | 130 | **83** | 340 | -- | -- | -- | -- | 3,200 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SV-4~~ | ~~5/30/1997~~ | ~~9~~ | **86** | ~~470~~ | **210** | ~~960~~ | -- | -- | -- | -- | ~~10,000~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SV-5~~ | ~~5/30/1997~~ | ~~9~~ | **20** | ~~410~~ | **130** | ~~690~~ | -- | -- | -- | -- | ~~7,900~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| B-1 | 6/12/2006 | 9.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |

**Table 1B. Soil Analytical Results VOCs, TPH, Metals 0-10 ft bgs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| LTCP Residential Threshold | 0-5 ft bgs | | 1.9 | - | 21 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | - |
| | 5-10 ft bgs | | 2.8 | - | 32 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | 80 |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - |
| Sample ID | Sample Date | Sample Depth (feet) | 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 | mg/kg |
| B-2 | 6/12/2006 | 9.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-4 | 6/12/2006 | 9.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-5 | 6/12/2006 | 9.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-6 | 6/12/2006 | 9.5 | <0.002 | <0.005 | <0.005 | <0.002 | -- | -- | -- | -- | 47 | 26 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-8 | 6/12/2006 | 9.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CPT-5 | 10/11/2004 | 9.5 | **13** | 260 | **100** | 550 | <0.25 | <0.50 | 1.5 | -- | 7,200 | 530 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-11 | 4/9/2007 | 9.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- |
| MW-17 | 4/13/2007 | 9.5 | **7.2** | 330 | **150** | 650 | -- | -- | -- | -- | 7,300 | 710 | -- | -- | -- | -- | -- | --- | --- | -- |
| ~~B-1~~ | ~~8/18/1989~~ | ~~10~~ | **50** | ~~220~~ | **46** | ~~240~~ | ~~--~~ | ~~--~~ | ~~--~~ | -- | ~~--~~ | ~~<100~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~2,100~~ | ~~6,800~~ | ~~--~~ |
| B-3 | 6/12/2006 | 10 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| B-7 | 6/12/2006 | 10 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| Boring MW-8 | 12/18/1996 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- |
| C-1 | 11/1/2004 | 10 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-2 | 11/1/2004 | 10 | <0.0005 | 0.002 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | 67 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-3 | 11/1/2004 | 10 | 0.75 | 94 | **66** | 310 | <0.63 | <1.3 | <1.3 | -- | 4,800 | 640 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-4 | 11/2/2004 | 10 | **11** | 410 | **200** | 780 | <0.63 | <1.3 | <1.3 | -- | 6,300 | 1,000 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-5 | 11/2/2004 | 10 | <0.0005 | 0.002 | <0.001 | 0.002 | <0.0005 | <0.001 | <0.001 | -- | 2.3 | 330 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-6 | 11/2/2004 | 10 | <0.063 | 3.8 | 6.9 | 36 | <0.063 | <0.13 | <0.13 | -- | 880 | 94 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-7 | 11/1/2004 | 10 | <0.0005 | 0.003 | <0.001 | 0.002 | <0.0005 | <0.001 | <0.001 | -- | <10 | 520 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-8 | 11/2/2004 | 10 | **20** | 590 | **240** | 990 | <0.62 | <1.2 | 2.5 | -- | 6,200 | 1,200 | -- | -- | -- | -- | -- | --- | --- | -- |
| C-9 | 11/2/2004 | 10 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |
| CB-1A-S-10.0 | 4/2/2019 | 10 | **32** | 780 | **300** | 1,200 | <10 | -- | -- | **34** | 11,000 | 440 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1B-S-10.0 | 4/9/2019 | 10 | **44** | 1,600 | **360** | 2,300 | <8.2 | -- | -- | **46** | 13,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2A-S-10 | 4/4/2019 | 10 | **12** | 180 | **64** | 290 | <2.3 | -- | -- | **12** | 2,700 | 1,700 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2B-S-10.0 | 4/4/2019 | 10 | **70** | 1,200 | **470** | 2,300 | <9.4 | -- | -- | **94** | 21,000 | 910 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3A-S-10.0 | 4/5/2019 | 10 | 0.083 | 0.019 | 0.028 | 0.027 | <0.00087 | -- | -- | <0.00087 | 0.47 | 5.7 J | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3B-S-10.0 | 4/5/2019 | 10 | **26** | 550 | **210** | 940 | <7.9 | -- | -- | **33** | 9,500 | 1,300 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4A-S-10.0 | 4/8/2019 | 10 | **4.7** | 210 | **96** | 480 | <3.4 | -- | -- | **24** | 2,700 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4B-S-10.0 | 4/9/2019 | 10 | **61** | 1,600 | **430** | 2,800 | <8.6 | -- | -- | **61** | 15,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4C-S-10.0 | 4/3/2019 | 10 | **110** | 2,300 | **870** | 4,000 | <12 | -- | -- | **160** | 33,000 | 7,800 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-5A-S-10.0 | 4/5/2019 | 10 | **29** | 500 | **210** | 840 | <4.1 | -- | -- | **28** | 10,000 | 1,300 | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-6A-S-10.0 | 4/8/2019 | 10 | **17** | 320 | **120** | 540 | <0.44 | -- | -- | **18** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~G-1~~ | ~~6/21/2002~~ | ~~10~~ | **31** | ~~660~~ | **290** | ~~1,100~~ | 76 | -- | -- | -- | ~~12,000~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 15.6 |
| ~~G-10~~ | ~~6/21/2002~~ | ~~10~~ | ~~1.4~~ | ~~32~~ | **52** | ~~270~~ | <1 | -- | -- | -- | ~~2,100~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 7.3 |
| ~~G-11~~ | ~~6/21/2002~~ | ~~10~~ | ~~<0.080~~ | ~~0.43~~ | ~~0.53~~ | ~~3.1~~ | <0.2 | -- | -- | -- | ~~100~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 5.5 |
| ~~G-12~~ | ~~6/21/2002~~ | ~~10~~ | **50** | ~~540~~ | **240** | ~~1,200~~ | 58 | -- | -- | -- | ~~9,000~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 7.0 |
| ~~G-13~~ | ~~6/21/2002~~ | ~~10~~ | **56** | ~~600~~ | **290** | ~~1,400~~ | 70 | -- | -- | -- | ~~12,000~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 6.2 |
| ~~G-14~~ | ~~6/21/2002~~ | ~~10~~ | **65** | ~~940~~ | **400** | ~~1,700~~ | 170 | -- | -- | -- | ~~14,000~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 11.9 |
| G-15 | 6/21/2002 | 10 | **12** | 320 | **110** | 450 | 31 | -- | -- | -- | 5,800 | --- | -- | -- | -- | -- | -- | --- | --- | 6.5d |
| G-15-C | 4/15/2021 | 10 | **6.9** | 280 | **120** | 430 | <8.0 | <4.0 | <4.0 | **33 J** | 4,700 | 80 | <5.0 | -- | -- | -- | -- | --- | --- | --- |
| G-16 | 6/21/2002 | 10 | **5.1** | 110 | **52** | 230 | 11 | -- | -- | -- | 2,100 | --- | -- | -- | -- | -- | -- | --- | --- | 6.5d |
| G-16-C | 4/15/2021 | 10 | **45** | 890 | **240** | 780 | <7.6 | <3.8 | <3.8 | **43** | 8,100 | 170 | <4.9 | -- | -- | -- | -- | --- | --- | --- |
| G-17 | 6/21/2002 | 10 | 0.62 | 9.2 | 9.9 | 41 | <5.0 | -- | -- | -- | 420 | --- | -- | -- | -- | -- | -- | --- | --- | 5.7d |
| G-17-C | 4/15/2021 | 10 | 2 | 100 | **50** | 170 | <1.6 | <0.82 | <0.82 | **12** | 2,400 | 40 | <4.9 | -- | -- | -- | -- | --- | --- | 12 |
| G-18 | 6/21/2002 | 10 | **4.9** | 68 | **51** | 220 | <5.0 | -- | -- | -- | 1,700 | --- | -- | -- | -- | -- | -- | --- | --- | 5d |
| G-19 | 6/21/2002 | 10 | **20** | 230 | **110** | 450 | <5.0 | -- | -- | -- | 4,500 | --- | -- | -- | -- | -- | -- | --- | --- | 8.8d |
| ~~G-2~~ | ~~6/21/2002~~ | ~~10~~ | ~~**7.5**~~ | ~~200~~ | ~~**120**~~ | ~~500~~ | 11 | -- | -- | -- | ~~3,800~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 8.7 |
| ~~G-20~~ | ~~6/21/2002~~ | ~~10~~ | ~~**26**~~ | ~~360~~ | ~~**200**~~ | ~~860~~ | <20 | -- | -- | -- | ~~6,900~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 5.1d |
| G-21 | 6/21/2002 | 10 | 0.0091 | 0.18 | 0.055 | 0.23 | <0.50 | -- | -- | -- | 1.0 | --- | -- | -- | -- | -- | -- | --- | --- | **44.0d** |
| G-24 | 1/29/2003 | 10 | 0.0074 | 0.014 | <0.0050 | <0.015 | <0.050 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- |

**Table 1B. Soil Analytical Results VOCs, TPH, Metals 0-10 ft bgs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| LTCP Residential Threshold | 0-5 ft bgs | | 1.9 | - | 21 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | - |
| | 5-10 ft bgs | | 2.8 | - | 32 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | 80 |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - |
| Sample ID | Sample Date | Sample Depth (feet) | 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 | mg/kg |
| G-25 | 1/29/2003 | 10 | **27** | 560 | **290** | 1,200 | <53 | -- | -- | -- | 8,800 | 1,400 | -- | -- | -- | -- | -- | --- | --- | **--** |
| G-26 | 1/29/2003 | 10 | <0.0050 | 0.0092 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| G-27 | 1/29/2003 | 10 | **13** | 250 | **180** | 700 | 20 | -- | -- | -- | 5,500 | 1,600 | -- | -- | -- | -- | -- | --- | --- | **--** |
| G-27-C | 4/15/2021 | 10 | 1.5 J | 94 | **67** | 210 | <8.1 | <4.0 | <4.0 | <40 | 2,700 | -- | -- | -- | -- | -- | -- | --- | --- | **--** |
| G-28 | 1/29/2003 | 10 | 0.027 | 0.096 | 0.056 | 0.28 | <0.05 | -- | -- | -- | 16 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| G-29 | 1/29/2003 | 10 | **39** | 380 | **160** | 640 | 95 | -- | -- | -- | 5,200 | 410 | -- | -- | -- | -- | -- | --- | --- | **--** |
| ~~G-3~~ | ~~6/21/2002~~ | ~~10~~ | ~~**19**~~ | ~~520~~ | ~~**290**~~ | ~~1,100~~ | 63 | -- | -- | -- | ~~7,700~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 5.9 |
| G-30 | 1/29/2003 | 10 | **92** | 1,000 | **480** | 1,900 | 150 | -- | -- | -- | 16,000 | 1,600 | -- | -- | -- | -- | -- | --- | --- | **--** |
| ~~G-4~~ | ~~6/21/2002~~ | ~~10~~ | ~~**3.5**~~ | ~~140~~ | ~~**120**~~ | ~~480~~ | 6.2 | -- | -- | -- | ~~3,300~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 7.4 |
| ~~G-5~~ | ~~6/21/2002~~ | ~~10~~ | ~~0.062~~ | ~~0.58~~ | ~~0.62~~ | ~~2.4~~ | 0.094 | -- | -- | -- | ~~45~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 9.7 |
| ~~G-6~~ | ~~6/21/2002~~ | ~~10~~ | ~~**19**~~ | ~~360~~ | ~~**190**~~ | ~~900~~ | 28 | -- | -- | -- | ~~6,300~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 9.2 |
| ~~G-7~~ | ~~6/21/2002~~ | ~~10~~ | ~~**18**~~ | ~~420~~ | ~~**250**~~ | ~~1,100~~ | 28 | -- | -- | -- | ~~7,300~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 15.6 |
| ~~G-8~~ | ~~6/21/2002~~ | ~~10~~ | ~~**69**~~ | ~~1,100~~ | ~~**470**~~ | ~~1,900~~ | 150 | -- | -- | -- | ~~16,000~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 12.3 |
| ~~G-9~~ | ~~6/21/2002~~ | ~~10~~ | ~~**83**~~ | ~~1,200~~ | ~~**520**~~ | ~~2,200~~ | 150 | -- | -- | -- | ~~19,000~~ | ~~---~~ | -- | -- | -- | -- | -- | --- | --- | 17 |
| ~~MW-1~~ | ~~10/17/1995~~ | ~~10~~ | ~~**120**~~ | ~~800~~ | ~~**270**~~ | ~~1,300~~ | ~~--~~ | ~~--~~ | ~~--~~ | -- | ~~14,000~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ |
| MW-2 | 10/17/1995 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | **--** |
| MW-3 | 10/17/1995 | 10 | 0.24 | 0.010 | 0.016 | 0.019 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | **--** |
| MW-4 | 10/18/1995 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | **--** |
| MW-5 | 12/18/1996 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | **--** |
| MW-6 | 12/18/1996 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | **--** |
| MW-7 | 12/18/1996 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | **--** |
| P-1 | 3/22/1996 | 10 | <0.5 | 18 | 9.7 | 46 | <2.5 | -- | -- | -- | 510 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| ~~P-3~~ | ~~3/22/1996~~ | ~~10~~ | ~~**38**~~ | ~~780~~ | ~~**280**~~ | ~~1,400~~ | ~~<50~~ | ~~--~~ | ~~--~~ | -- | ~~13,000~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ |
| P-7 | 3/22/1996 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.025 | -- | -- | -- | 1.0 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| SB-1 | 4/13/2021 | 10 | <0.00090 | <0.00090 | <0.00090 | <0.0018 | <0.0018 | <0.00090 | <0.00090 | <0.0090 | <0.076 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| ~~SB-1~~ | ~~10/17/1995~~ | ~~10~~ | ~~**72**~~ | ~~640~~ | ~~**240**~~ | ~~1,100~~ | ~~--~~ | ~~--~~ | ~~--~~ | -- | ~~8,100~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ |
| SB-2 | 4/13/2021 | 10 | <0.00075 | <0.00075 | <0.00075 | <0.0015 | <0.0015 | <0.00075 | <0.00075 | <0.0075 | <0.078 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| ~~SB-2~~ | ~~10/17/1995~~ | ~~10~~ | ~~**28**~~ | ~~440~~ | ~~**150**~~ | ~~630~~ | ~~--~~ | ~~--~~ | ~~--~~ | -- | ~~4,700~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ |
| SB-3 | 4/14/2021 | 10 | <0.00075 | <0.00075 | <0.00075 | <0.0015 | <0.0015 | <0.00075 | <0.00075 | <0.0075 | <0.082 | <4.9 | <4.9 | -- | -- | -- | -- | -- | -- | **--** |
| ~~SB-3~~ | ~~10/18/1995~~ | ~~10~~ | ~~<0.0050~~ | ~~<0.0050~~ | ~~<0.0050~~ | ~~<0.0050~~ | ~~--~~ | ~~--~~ | ~~--~~ | -- | ~~<1.0~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ | ~~--~~ |
| SB-4 | 4/14/2021 | 10 | <0.00075 | <0.00075 | <0.00075 | <0.0015 | <0.0015 | <0.00075 | <0.00075 | <0.0075 | <0.073 | <5.0 | <5.0 | -- | -- | -- | -- | -- | -- | **--** |
| SW-1 | 11/15/2002 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-10 | 11/15/2002 | 10 | <0.10 | 0.66 | 3.7 | 21 | <1 | -- | -- | -- | 570 | 240 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-2 | 11/18/2002 | 10 | 2.5 | 75 | **52** | 250 | <10 | -- | -- | -- | 2,800 | 1,600 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-2-C | 4/15/2021 | 10 | **8.7** | 460 | **320** | 1,100 | <8.2 | <4.1 | <4.1 | **52** | 11,000 | 250 | <99 | -- | -- | -- | -- | --- | --- | **--** |
| SW-3 | 11/18/2002 | 10 | **19** | 330 | **170** | 650 | 26 | -- | -- | -- | 7,300 | 1,200 | -- | -- | -- | -- | -- | --- | --- | -- |
| SW-3-C | 4/15/2021 | 10 | **40** | 590 | **190** | 650 | <7.7 | <3.9 | <3.9 | **41** | 6,500 | 130 | <5.0 | -- | -- | -- | -- | --- | --- | **--** |
| SW-4 | 11/18/2002 | 10 | **91** | 1,200 | **440** | 1,900 | 150 | -- | -- | -- | 18,000 | 3,400 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-4/MW-14-C | 4/15/2021 | 10 | **19** | 640 | **240** | 770 | <7.9 | <3.9 | <3.9 | **39** | 13,000 | 180 | <5.0 | -- | -- | -- | -- | --- | --- | **--** |

## Table 1B. Soil Analytical Results VOCs, TPH, Metals 0-10 ft bgs
## Former Signal Oil Service Station No. 206145
## 800 Center Street Oakland, California

| | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | Volatile Organic Compounds (VOCs) | | | | | | | | Total Petroleum Hydrocarbons (TPH) | | | | | | | | | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Lead |
| LTCP Residential Threshold | 0-5 ft bgs | | 1.9 | - | 21 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | - |
| | 5-10 ft bgs | | 2.8 | - | 32 | - | - | - | - | 9.7 | - | - | - | - | - | - | - | - | - | 80 |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - |
| Sample ID | Sample Date | Sample Depth (feet) | 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 | mg/kg |
| SW-5 | 11/16/2002 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-6 | 11/16/2002 | 10 | **7.3** | 140 | **110** | 450 | 10 | -- | -- | -- | 3,900 | 920 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-7 | 11/15/2002 | 10 | **11** | 250 | **130** | 540 | 13 | -- | -- | -- | 4,800 | 700 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-8 | 11/15/2002 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| SW-9 | 11/15/2002 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | **--** |
| TW-1 | 4/14/2021 | 10 | <0.00069 | <0.00069 | <0.00069 | <0.0014 | <0.0014 | <0.00069 | <0.00069 | <0.0069 | <0.074 | -- | -- | -- | -- | -- | -- | -- | -- | **--** |
| TW-2 | 4/12/2021 | 10 | <0.00081 | <0.00081 | <0.00081 | <0.0016 | <0.0016 | <0.00081 | <0.00081 | <0.0081 | <0.076 | <4.9 | <4.9 | -- | -- | -- | -- | -- | -- | **--** |
| TW-3 | 4/12/2021 | 10 | <0.00079 | <0.00079 | <0.00079 | <0.0016 | <0.0016 | <0.00079 | <0.00079 | <0.0079 | <0.074 | <5.0 | <5.0 | -- | -- | -- | -- | -- | -- | -- |

**Notes:**
1. Benzene, toluene, ethybenzene, and total xylenes (collectively BTEX) was analyzed by by USEPA Method 8260B.
2. TPH-g was analyzed by USEPA Method 8015M.
3. TPH-d analyzed by by USEPA Method 8015M with silca gel cleanup.
4. Metals were analyzed by USEPA Method 6010B (Cadmium 0.7; Chromium 18; and Zinc 19). Lead 18 was analyzed by USEPA Method 7420.
**Bolded values** indicate the result exceeds the LTCP Residential Threshold.
-- = Not Applicable / Not Analyzed
< = Not detected at or above the laboratory Limit of Quantitation.
ND = Not detected at or above the stated Method Detection Limit.
~~3,000~~ = Overexcavated samples collected in 2002; these reported analytical results are no longer applicable.
[d] = Total Lead analyzed by USEPA Method 6010B.

**Data Qualifiers:**
J = Estimated value (between Method Detection Limit and Limit of Quantitation).

**Acronyms and Abbreviations:**
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
ft bgs = feet below ground surface
LTCP = Low-Threat Underground Storage Tank Case Closure Policy
mg/kg = milligrams per kilogram
SVOC = Semi-Volatile Organic Compounds
TEH = Total Extractable Hydrocarbons as Gasoline
TOG = Total Oil and Grease
TPH = Total Petroleum Hydrocarbons
TPH-d = Total Petroleum Hydrocarbons as Diesel Range
TPH-g = Total Petroleum Hydrocarbons as Gasoline Range
TPH-ho = Total Petroleum Hydrocarbons as Heavy Oil Range
TPH-mo = Total Petroleum Hydrocarbons as Motor Oil Range
TVH = Total Volatile Hydrocarbons.
USEPA = United States Environmental Protection Agency
VOC = Volatile Organic Compound

**Table 2. Soil Analytical Results - OCPs and PCBs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | | | Organochlorine Pesticides (OCPs) | | | | | | | | | | Polychlorinated Biphenyls (PCBs) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Aldrin | Gamma BHC-Lindane | Alpha Chlordane | Chlordane | Gamma Chlordane | DDD | DDE | DDT | Dieldrin | Heptachlor | PCB-1016 | PCB-1211 | PCB-1232 | PCB-1248 | PCB-1254 | PCB-1260 |
| ESL - Residentital Direct Exposure | | | 0.0024 | -- | -- | 0.0085 | -- | 2.7 | 0.33 | 0.0011 | 0.00046 | 0.12 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 |
| DTSC Screenig Level | | | 33 | 500 | 430 | 430 | 430 | 2,300 | 1,600 | 1,600 | 35 | 130 | 0.300 | 0.300 | 0.300 | 0.300 | 0.300 | 0.300 |
| Sample ID | Sample Date | Sample Depth (feet) | 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 |
| SS-1 | 1/27/2010 | 0 | <0.00085 | 0.0043 | <0.0028 | <0.020 | <0.0041 | 0.0330 | 0.0076 | **0.0570** | <0.00017 | <0.00085 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | 0.080 |
| SS-1 | 1/27/2010 | 0.5 | <0.00085 | 0.0045 | <0.0013 | <0.020 | <0.00094 | 0.0030 | 0.0026 | <0.00017 | <0.00017 | <0.00085 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | 0.030 |
| SS-1 | 1/27/2010 | 2.5 | <0.00017 | <0.00017 | <0.00024 | <0.004 | <0.00023 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-2 | 1/27/2010 | 0 | <0.00085 | 0.0110 | 0.0043 | **0.0370** | 0.0360 | 0.0390 | 0.0098 | **0.0800** | **0.0032** | <0.00085 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | 0.070 |
| SS-2 | 1/27/2010 | 0.5 | <0.00017 | <0.00017 | <0.00045 | <0.004 | <0.00047 | <0.00033 | 0.0007 | **0.0043** | <0.00033 | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-2 | 1/27/2010 | 2.5 | <0.00017 | <0.00017 | <0.0004 | <0.004 | <0.00017 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-3 | 1/27/2010 | 0 | <0.00085 | 0.0036 | <0.0025 | <0.004 | 0.0042 | 0.0300 | 0.0430 | **0.1300** | **0.0043** | <0.00085 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | 0.098 | 0.029 |
| SS-3 | 1/27/2010 | 0.5 | 0.0012 | 0.0150 | <0.0030 | <0.004 | 0.0064 | 0.0057 | 0.0100 | **0.0700** | **0.0028** | <0.00085 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | 0.068 |
| SS-3 | 1/27/2010 | 2.5 | <0.00017 | <0.00017 | <0.00022 | <0.004 | <0.00029 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-4 | 1/27/2010 | 0 | <0.00017 | 0.0013 | <0.00018 | <0.004 | <0.00017 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-4 | 1/27/2010 | 0.5 | <0.00017 | 0.0013 | <0.00017 | <0.004 | <0.00017 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-4 | 1/27/2010 | 2.5 | <0.00017 | <0.00017 | <0.00017 | <0.004 | <0.00017 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-5 | 1/27/2010 | 0 | 0.0002 | 0.0006 | 0.0009 | **0.0110** | 0.0012 | 0.0003 | <0.00033 | 0.0010 | <0.00033 | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | 0.013 | <0.0033 |
| SS-5 | 1/27/2010 | 0.5 | <0.00017 | 0.0003 | <0.00017 | <0.004 | <0.00017 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-5 | 1/27/2010 | 2.5 | <0.00017 | <0.00017 | <0.00017 | <0.004 | <0.00017 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-6 | 1/27/2010 | 0 | 0.0011 | <0.00085 | 0.0280 | **0.1400** | 0.0180 | 0.0110 | 0.0460 | **0.0870** | **0.0750** | <0.00085 | <0.017 | <0.017 | <0.017 | <0.017 | **0.48** | 0.059 |
| SS-6 | 1/27/2010 | 0.5 | <0.00085 | <0.00085 | 0.0062 | **0.0330** | 0.0037 | 0.0039 | 0.0076 | **0.0420** | **0.0081** | <0.00085 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | 0.079 | 0.046 |
| SS-6 | 1/27/2010 | 2.5 | <0.00085 | 0.0021 | 0.0120 | <0.020 | 0.0120 | 0.0110 | 0.0190 | **0.0200** | **0.0072** | <0.00085 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | 0.15 | 0.044 |
| SS-7 | 1/27/2010 | 0 | <0.00017 | 0.0110 | <0.00017 | <0.004 | <0.00017 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-7 | 1/27/2010 | 0.5 | <0.00017 | 0.0110 | <0.00017 | <0.004 | <0.00017 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-7 | 1/27/2010 | 2.5 | <0.00017 | 0.0008 | <0.00017 | <0.004 | <0.00017 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-8 | 1/27/2010 | 0 | <0.00017 | 0.0007 | <0.00017 | <0.004 | <0.00017 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-8 | 1/27/2010 | 0.5 | <0.00017 | 0.0013 | <0.00017 | <0.004 | 0.0028 | <0.00033 | 0.0008 | **0.0032** | **0.00048** | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | 0.0057 |
| SS-9 | 1/27/2010 | 0 | <0.00017 | 0.0010 | <0.00017 | <0.004 | <0.00017 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-9 | 1/27/2010 | 0.5 | <0.00017 | 0.0016 | <0.00017 | <0.004 | <0.00017 | 0.0008 | <0.00033 | <0.00033 | <0.00033 | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-9 | 1/27/2010 | 2.5 | <0.00017 | 0.0006 | 0.0017 | **0.0180** | 0.0019 | 0.0027 | 0.0009 | **0.0023** | **0.00089** | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-10 | 1/27/2010 | 0 | 0.0002 | 0.0020 | <0.0023 | <0.044 | 0.0017 | 0.0013 | 0.0160 | **0.0120** | **0.0041** | 0.0003 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | 0.034 |
| SS-10 | 1/27/2010 | 0.5 | <0.00085 | 0.0012 | <0.0033 | <0.140 | 0.0020 | 0.0052 | 0.0053 | **0.0510** | **0.0091** | <0.00085 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | 0.15 | 0.040 |
| SS-10 | 1/27/2010 | 2.5 | <0.00085 | 0.0018 | <0.0058 | <0.020 | 0.0025 | 0.0025 | 0.0300 | **0.0860** | **0.0170** | <0.00085 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-11 | 1/27/2010 | 0 | <0.00017 | 0.0009 | <0.00017 | <0.004 | <0.00017 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-11 | 1/27/2010 | 0.5 | <0.00017 | 0.0010 | <0.00017 | <0.004 | <0.00017 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-11 | 1/27/2010 | 2.5 | <0.00017 | 0.0012 | <0.00017 | <0.004 | <0.00017 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-12 | 1/27/2010 | 0 | <0.00017 | 0.0004 | <0.00017 | <0.004 | 0.0003 | <0.00033 | <0.00033 | **0.0038** | **0.00052** | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-12 | 1/27/2010 | 0.5 | <0.00017 | 0.0002 | <0.00017 | <0.004 | <0.00017 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SS-12 | 1/27/2010 | 2.5 | <0.00017 | <0.00017 | <0.00017 | <0.004 | <0.00017 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00017 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 | <0.0033 |
| SSD-6 | 4/15/2021 | 0 | <0.00030 | <0.00062 | 0.013 J p | **0.010 J, p** | 0.022 J | 0.041 J, p | 0.02 | **0.043** | **0.0066** | <0.00036 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 |
| SSD-6 | 4/15/2021 | 1 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | <0.00026 | <0.00099 | <0.00054 | <0.00036 | <0.00025 | <0.00036 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 |
| SSD-6 | 4/15/2021 | 2 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | <0.00026 | <0.00099 | <0.00054 | **0.0013 J** | <0.00025 | <0.00036 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 |
| SSD-6 | 4/15/2021 | 3 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | <0.00026 | <0.00099 | <0.00054 | .00042 J | <0.00025 | <0.00036 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 |
| SSD-11 | 4/13/2021 | 0 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | 0.00042 J | 0.0014 J | 0.0018 J | <0.00036 | **0.00078 J, p** | <0.00036 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | 0.035 |
| SSD-11 | 4/13/2021 | 1 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | <0.00026 | <0.00099 | 0.0025 J | <0.00036 | <0.00025 | <0.00036 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | 0.0086 J |
| SSD-11 | 4/13/2021 | 2 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | <0.00026 | <0.00099 | <0.00054 | .00044 J,p | <0.00025 | <0.00036 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 |
| SSD-11 | 4/13/2021 | 3 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | <0.00026 | <0.00099 | <0.00054 | <0.00036 | <0.00025 | <0.00036 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 |

**Table 2. Soil Analytical Results - OCPs and PCBs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| | | | Organochlorine Pesticides (OCPs) | | | | | | | | | | Polychlorinated Biphenyls (PCBs) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Aldrin | Gamma BHC-Lindane | Alpha Chlordane | Chlordane | Gamma Chlordane | DDD | DDE | DDT | Dieldrin | Heptachlor | PCB-1016 | PCB-1211 | PCB-1232 | PCB-1248 | PCB-1254 | PCB-1260 |
| **ESL - Residentital Direct Exposure** | | | **0.0024** | **--** | **--** | **0.0085** | **--** | **2.7** | **0.33** | **0.0011** | **0.00046** | **0.12** | **0.23** | **0.23** | **0.23** | **0.23** | **0.23** | **0.23** |
| **DTSC Screenig Level** | | | **33** | **500** | **430** | **430** | **430** | **2,300** | **1,600** | **1,600** | **35** | **130** | **0.300** | **0.300** | **0.300** | **0.300** | **0.300** | **0.300** |
| SSD-12 | 4/13/2021 | 0 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | 0.00026 J, p | 0.0045 J | .00095 J, p | <0.00036 | <0.00025 | <0.00089 | <0.0055 | <0.0055 | <0.0055 | 0.017 | <0.0055 | 0.066 |
| SSD-12 | 4/13/2021 | 1 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | <0.00026 | <0.00099 | <0.00054 | <0.00036 | <0.00025 | <0.00089 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 |
| SSD-12 | 4/13/2021 | 2 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | <0.00026 | <0.00099 | <0.00054 | <0.00036 | <0.00025 | <0.00089 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 |
| SSD-12 | 4/13/2021 | 3 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | <0.00026 | <0.00099 | <0.00054 | <0.00036 | <0.00036 | <0.00036 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 |
| SSD-19 | 4/14/2021 | 0 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | <0.00026 | <0.00099 | <0.00054 | **0.0021 J** | <0.00036 | <0.00036 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | 0.027 |
| SSD-19 | 4/14/2021 | 1 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | <0.00026 | <0.00099 | <0.00054 | <0.00036 | <0.00036 | <0.00036 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 |
| SSD-19 | 4/14/2021 | 2 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | <0.00026 | <0.00099 | <0.00054 | <0.00036 | <0.00036 | <0.00036 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 |
| SSD-19 | 4/14/2021 | 3 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | <0.00026 | <0.00099 | <0.00054 | <0.00036 | <0.00036 | <0.00036 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 |
| SSD-26 | 4/15/2021 | 3 | <0.00030 | <0.00062 | <0.0013 | **0.014 J** | 0.00069 J, p | <0.00099 | 0.0066 | **0.016** | **0.0022 J, p** | <0.00036 | -- | -- | -- | -- | -- | -- |
| SSD-27 | 4/15/2021 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | 0.1 |
| SSD-27 | 4/15/2021 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | 0.046 |
| SSD-27 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | 0.039 |
| SSD-28 | 4/15/2021 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | 0.081 |
| SSD-28 | 4/15/2021 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | 0.044 |
| SSD-28 | 4/15/2021 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 |
| SSD-28 | 4/15/2021 | 3 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | <0.00026 | <0.00099 | <0.00054 | 0.001 J | <0.00036 | <0.00036 | -- | -- | -- | -- | -- | -- |
| SSD-28 | 4/15/2021 | 3.5 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | <0.00026 | <0.00099 | <0.00054 | <0.00036 | <0.00036 | <0.00036 | -- | -- | -- | -- | -- | -- |
| SSD-30 | 4/15/2021 | 3 | <0.00030 | <0.00062 | <0.0013 | **0.056 J** | 0.0012 J | <0.00099 | <0.00054 | 0.00056 J | <0.00036 | <0.00036 | -- | -- | -- | -- | -- | -- |
| SSD-30 | 4/15/2021 | 3.5 | <0.00030 | <0.00062 | <0.0013 | **0.029** | 0.0048 J, p | <0.00099 | 0.00084 J | **0.0027 J** | <0.00036 | 0.0011 J | -- | -- | -- | -- | -- | -- |
| SSD-31 | 4/15/2021 | 3 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | 0.00026 J, p | <0.00099 | 0.002 J | **0.0037 J** | **0.00056 J** | <0.00036 | -- | -- | -- | -- | -- | -- |
| SSD-31 | 4/15/2021 | 3.5 | <0.00030 | <0.00062 | <0.0013 | 0.0058 J | 0.00058 J | <0.00099 | 0.0054 | 0.0098 | **0.0013 J** | <0.00036 | -- | -- | -- | -- | -- | -- |
| SW-3-C | 4/13/2021 | 0 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | <0.00026 | <0.00099 | <0.00054 | 0.00082 J p | <0.00036 | <0.00036 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | 0.006 J |
| SW-3-C | 4/13/2021 | 1 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | <0.00026 | <0.00099 | <0.00054 | <0.00036 | <0.00036 | <0.00036 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 |
| SW-3-C | 4/13/2021 | 2 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | <0.00026 | <0.00099 | <0.00054 | <0.00036 | <0.00036 | <0.00036 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0055 |
| SW-3-C | 4/13/2021 | 3 | <0.00030 | <0.00062 | <0.0013 | <0.00240 | <0.00026 | <0.00099 | <0.00054 | <0.00036 | <0.00036 | <0.00036 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | 0.0087 J | <0.0055 |

**Notes:**

1. DTSC Screening Level = DTSC soil screening levels for discrete samples from *Interim Guidance Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from termititcides, and Polychlorinated Biphenyls from Electrical Transformers* Revised June 9, 2006.

2. ESL - Residential Direct Exposure = Environmental screening levels for direct soil exposure in a residential setting from *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater* Interim Final November 2007, Revised May 2008, prepared by the California Regional Water Quality Control Board - San Francisco Bay Region.

3. Aldrin, gamma BHC-lindane, alpha chlordane, chlordane, gamma chlordane, p,p-DDD, p,p-DDE, p,p-DDT, dieldrin, and heptachlore analyzed by USEPA Method 8081A.

4. PCB-1016, PCB-1221, PCB1232, PCB-1248, PCB-1254, and PCB-1260 were analyzed by USEPA Method 8082.

**Bolded values** indicate the concentration exceeds the more conservative screening level listed.

-- = Not sampled/not measured.

< = Not detected above laboratory method detection limit.

**Data Qualifiers:**

J = Estimated value (between Method Detection Limit and Limit of Quantitation).

p = The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported

**Acronyms and Abbreviations:**

DDD = dichlorodiphenyldichloroethane

DDE = dichlorodiphenyldichloroethylene

DDT = dichlorodiphenyltrichloroethane

DTSC = California Deparment of Toxic Substances Control

ESL - Environmental Screening Level

ID = identification

mg/kg = milligrams per kilogram

USEPA = United States Environmental Protection Agency

**Table 3. Soil Analytical Results - PAHs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

ARCADIS

| Polycyclic Aromatic Hydrocarbons (PAHs) | | | Acenaphthene | Acenaphthylene | Anthracene | Benzo (a) anthracene | Benzo (a) pyrene | Benzo (b) fluoranthene | Benzo (g, h,i) perylene | Benzo (k) fluoranthene | Chrysene | Dibenz (a,h) anthracene | Fluoranthene | Fluorene | Indeno (1, 2, 3-cd) pyrene | Naphthalene | Phenanthrene | Pyrene |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LTCP Residential Threshold | 0-5 ft bgs | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9.7 |
| | 5-10 ft bgs | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9.7 |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 12.47 | 6.36 | 1.94 | 10.15 | 5.66 | 74.70 | 26.56 | 39.18 | 10.46 | 394.25 | 85.83 | 5.96 | 31.54 | 1.15 | 10.69 | 45.37 |
| Sample ID | Sample Date | Sample Depth (feet) | 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 |
| CB-5 | 5/21/2014 | 7 | 0.02 | <0.003 | 0.005 | 0.004 | <0.003 | <0.003 | 0.003 | <0.003 | 0.005 | <0.003 | 0.007 | 0.033 | <0.003 | 4.3 | 0.062 | 0.025 |
| CB-5 | 5/21/2014 | 9 | 0.14 | <0.003 | 0.045 | 0.015 | <0.003 | <0.003 | 0.016 | <0.003 | 0.029 | <0.003 | 0.032 | 0.19 | <0.003 | 58 | 0.37 | 0.12 |
| CB-6 | 5/21/2014 | 7 | 0.019 | <0.003 | 0.005 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | 0.005 | <0.003 | 0.006 | 0.024 | <0.003 | 7.1 | 0.047 | 0.018 |
| CB-7 | 5/21/2014 | 4.5 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 |
| CB-7 | 5/21/2014 | 9 | 0.013 | <0.003 | 0.004 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | 0.005 | <0.003 | 0.004 | 0.017 | <0.003 | 2.9 | 0.038 | 0.016 |
| G-27 | 4/13/2021 | 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 | <0.50 | <0.50 | <0.50 |
| G-27 | 4/15/2021 | 10 | 0.056 J | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 10 | 0.10 J | <0.50 |
| SB-1 | 4/12/2021 | 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 | <0.50 | <0.50 | <0.50 |
| SB-1 | 4/13/2021 | 10 | <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 | <0.50 | <0.50 | <0.50 |
| SB-2 | 4/12/2021 | 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 | <0.50 | <0.50 | <0.50 |
| SB-2 | 4/13/2021 | 10 | <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 | <0.50 | <0.50 | <0.50 |
| SB-3 | 4/12/2021 | 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 | <0.50 | <0.50 | <0.50 |
| SB-3 | 4/14/2021 | 10 | <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 | <0.50 | <0.50 | <0.50 |
| SB-4 | 4/12/2021 | 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 | <0.50 | <0.50 | <0.50 |
| SB-4 | 4/14/2021 | 10 | <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 | <0.50 | <0.50 | <0.50 |
| SSD-11 | 4/13/2021 | 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 | <0.50 | <0.50 | <0.50 |
| SSD-11 | 4/13/2021 | 8 | <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 | <0.50 | <0.50 | <0.50 |
| SSD-12 | 4/13/2021 | 5 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 |
| SSD-12 | 4/13/2021 | 8 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 |
| SVP-1 | 4/14/2021 | 6.5 | <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 | <0.50 | <0.50 | <0.50 |
| SVP-2 | 4/14/2021 | 6.5 | <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 | <0.50 | <0.50 | <0.50 |
| SVP-3 | 4/13/2021 | 6.5 | <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 | <0.50 | <0.50 | <0.50 |
| SVP-4 | 4/14/2021 | 6.5 | <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 | <0.50 | <0.50 | <0.50 |
| SW-2-C | 4/13/2021 | 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 | <0.49 | <0.49 | <0.49 |
| SW-2 | 4/15/2021 | 10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.12 J | <0.50 | 39 | 0.25 J | 0.092 J |
| SW-3 | 4/13/2021 | 5 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 |
| SW-3 | 4/15/2021 | 10 | <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 | 35 | 0.13 J | <0.50 |
| SW-4/MW-14 | 4/13/2021 | 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 | <0.50 | <0.50 | <0.50 |
| SW-4/MW-14 | 4/15/2021 | 10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.098 J | <0.50 | 36 | 0.21 J | <0.50 |
| TW-1 | 4/12/2021 | 5 | <0.49 | <0.49 | <0.49 | <0.49 | **0.086 J** | <0.49 | 0.10 J | <0.49 | <0.49 | <0.49 | 0.084 J | <0.49 | <0.49 | <0.49 | <0.49 | 0.15 J |
| TW-1 | 4/14/2021 | 10 | <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 | <0.50 | <0.50 | <0.50 |
| TW-2 | 4/12/2021 | 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 | <0.50 | <0.50 | <0.50 |
| TW-2 | 4/12/2021 | 10 | <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 | <0.50 | <0.50 | <0.50 |
| TW-3 | 4/12/2021 | 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 | <0.50 | <0.50 | <0.50 |
| TW-3 | 4/12/2021 | 10 | <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 | <0.50 | <0.50 | <0.50 |

**Notes:**
**Bolded values** indicate the result exceeds the LTCP Residential Threshold.
-- = Not sampled/not measured.
< = Not detected at or above the laboratory Limit of Quantitation.

**Data Qualifier:**
J = Estimated value (between Method Detection Limit and Limit of Quantitation).

**Acronyms and Abbreviations:**
ft bgs = feet below ground surface
LTCP = Low-Threat Underground Storage Tank Case Closure Policy
mg/kg = milligrams per kilogram

Table 4. Soil Analytical Results - PAHs Equivalency Calculations
Former Signal Oil Service Station No. 206145
800 Center Street Oakland, California

| Sample ID | Depth (ft bgs) | PAH Analyte | Qualifier | Result (mg/kg) | *Result (mg/kg) | Cal/EPA PEF | *BaPe TEQ Calculation |
|---|---|---|---|---|---|---|---|
| SB-1-5.0-S-210412 | 5 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.080 | 0.0400 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34a | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| | | | | | | | |
| SB-1-10.0 | 10 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34a | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| | | | | | | | |
| SB-2-5.0-S-210412 | 5 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| | | | | | | | |
| SB-2-10.0 | 10 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| | | | | | | | |
| SB-3-5.0-S-210412 | 5 | Benzo(a)pyrene | ND | <0.077 | 0.0385 | 1 | 0.039 |
| | | Benzo(a)anthracene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.080 | 0.0400 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.068 | 0.0340 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.091 | 0.0455 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.069** |
| | | | | | | | |
| SB-3-10.0-S-210414 | 10 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| | | | | | | | |
| SB-4-5.0-S-210412 | 5 | Benzo(a)pyrene | ND | <0.077 | 0.0385 | 1 | 0.039 |
| | | Benzo(a)anthracene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.080 | 0.0400 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.068 | 0.0340 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.091 | 0.0455 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.069** |

Table 4. Soil Analytical Results - PAHs Equivalency Calculations
Former Signal Oil Service Station No. 206145
800 Center Street Oakland, California

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SB-4-10.0-S-210414 | 10 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| G-15-C-5.0-S-210412 | 5 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| G-15-C-10.0-S-210415 | 10 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| G-16-C-5.0 | 5 | Benzo(a)pyrene | ND | <0.075 | 0.0375 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.078 | 0.0390 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.045 | 0.0225 | 0.01 | 0.000 |
| | | Chrysene | ND | <0.066 | 0.0330 | 0.001 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.088 | 0.0440 | 0.1 | 0.004 |
| | | | | | | **Total BaPe TEQ** | **0.065** |
| G-16-C-10.0-S-210415 | 10 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| G-17-C-5.0-S-210413 | 5 | Benzo(a)pyrene | ND | <0.077 | 0.0385 | 1 | 0.039 |
| | | Benzo(a)anthracene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.080 | 0.0400 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.068 | 0.0340 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.091 | 0.0455 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.069** |
| G-17-C-10.0-S-210415 | 10 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| SW-2-C-5.0-S-210413 | 5 | Benzo(a)pyrene | ND | <0.075 | 0.0375 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.078 | 0.0390 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.045 | 0.0225 | 0.01 | 0.000 |
| | | Chrysene | ND | <0.066 | 0.0330 | 0.001 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.089 | 0.0445 | 0.1 | 0.004 |
| | | | | | | **Total BaPe TEQ** | **0.065** |

Table 4. Soil Analytical Results - PAHs Equivalency Calculations
Former Signal Oil Service Station No. 206145
800 Center Street Oakland, California

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SW-2-C-10.0-S-210415 | 10 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| SW-3-C-5.0-S-210413 | 5 | Benzo(a)pyrene | ND | <0.079 | 0.0395 | 1 | 0.040 |
| | | Benzo(a)anthracene | ND | <0.047 | 0.0235 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.082 | 0.0410 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.048 | 0.0240 | 0.01 | 0.000 |
| | | Chrysene | ND | <0.070 | 0.0350 | 0.001 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.11 | 0.0550 | 0.34[a] | 0.019 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.093 | 0.0465 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.070** |
| SW-3-C-10.0-S-210415 | 10 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| SW-4/MW-14-C-5.0 | 5 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| SW-4/MW-14-C-10.0-S-210415 | 10 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.080 | 0.0400 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.068 | 0.0340 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| G-27-C-5.0-S-210413 | 5 | Benzo(a)pyrene | ND | <0.077 | 0.0385 | 1 | 0.039 |
| | | Benzo(a)anthracene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.080 | 0.0400 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.047 | 0.0235 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.068 | 0.0340 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.091 | 0.0455 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.069** |
| G-27-C-10.0 | 10 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| SSD-11-5.0-S-210413 | 5 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| | | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |

Table 4. Soil Analytical Results - PAHs Equivalency Calculations
Former Signal Oil Service Station No. 206145
800 Center Street Oakland, California

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SSD-11-8.0-S-210413 | 8 | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| SSD-12-5.0-S-210413 | 5 | Benzo(a)pyrene | ND | <0.077 | 0.0385 | 1 | 0.039 |
| | | Benzo(a)anthracene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.081 | 0.0405 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.047 | 0.0235 | 0.01 | 0.000 |
| | | Chrysene | ND | <0.068 | 0.0340 | 0.001 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.11 | 0.0550 | 0.34[a] | 0.019 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.092 | 0.0460 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| SSD-12-8.0-S-210413 | 8 | Benzo(a)pyrene | ND | <0.078 | 0.0390 | 1 | 0.039 |
| | | Benzo(a)anthracene | ND | <0.047 | 0.0235 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.082 | 0.0410 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.047 | 0.0235 | 0.01 | 0.000 |
| | | Chrysene | ND | <0.069 | 0.0345 | 0.001 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.11 | 0.0550 | 0.34[a] | 0.019 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.093 | 0.0465 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.069** |
| SVP-1-6.5 | 6.5 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| SVP-2-6.5 | 6.5 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| SVP-3-6.5 | 6.5 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| SVP-4-6.5 | 6.5 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| TW-1-5.0-S-210412 | 5 | Benzo(a)pyrene | J | 0.086 | 0.086 | 1 | 0.086 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.01 | 0.000 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.001 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.089 | 0.0445 | 0.1 | 0.004 |
| | | | | | | **Total BaPe TEQ** | **0.114** |
| | | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |

Table 4. Soil Analytical Results - PAHs Equivalency Calculations
Former Signal Oil Service Station No. 206145
800 Center Street Oakland, California

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TW-1-10.0 | 10 | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| TW-2-5.0-S-210412 | 5 | Benzo(a)pyrene | ND | <0.077 | 0.0385 | 1 | 0.039 |
| | | Benzo(a)anthracene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.080 | 0.0400 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.068 | 0.0340 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.091 | 0.0455 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.069** |
| TW-2-10-S-210412 | 10 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| TW-3-5.0-S-210412 | 5 | Benzo(a)pyrene | ND | <0.076 | 0.0380 | 1 | 0.038 |
| | | Benzo(a)anthracene | ND | <0.045 | 0.0225 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.067 | 0.0335 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.090 | 0.0450 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.068** |
| TW-3-10-S-210412 | 10 | Benzo(a)pyrene | ND | <0.077 | 0.0385 | 1 | 0.039 |
| | | Benzo(a)anthracene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Benzo(b)fluoranthene | ND | <0.079 | 0.0395 | 0.1 | 0.004 |
| | | Benzo(k)fluroanthene | ND | <0.046 | 0.0230 | 0.1 | 0.002 |
| | | Chrysene | ND | <0.068 | 0.0340 | 0.01 | 0.000 |
| | | Dibenz(a,h)anthracene | ND | <0.10 | 0.0500 | 0.34[a] | 0.017 |
| | | Indeno(1,2,3-cd)pyrene | ND | <0.091 | 0.0455 | 0.1 | 0.005 |
| | | | | | | **Total BaPe TEQ** | **0.069** |
| | | | | | | **LTCP Criteria (Residential)** | **0.068** |

Notes:
**BOLD** = result above the LTCP criteria for commercial/industrial land use
Underline = result above the LTCP criteria for utility worker
LTCP = Low Threat Underground Storage Tank Case Closure Policy
PAH = polycyclic aromatic hydrocarbon
ft bgs = feet below ground surface
mg/kg = milligrams per kilogram
Cal/EPA = California Environmental Protection Agency
PEF = cancer potency equivalency factor.
BaPe TEQ = benzo(a)pyrene toxicity equivalent
ND = not detected at or above the method detection limit
-- = Not applicable

[a] Not listed in OEHHA 2009a; PEF shown was calculated as a ratio of the dibenz(a,h)anthracene CSFo (4.1 [mg/kg-d]-1) and historical CalEPA BaP CSFo (12 [mg/kg-d]-1); 4.1 ÷ 12 = 0.34

J = Estimated value; result is greater than the method detection limit (MDL) and less than the reporting limit (RL)

* = Half of the method detection limit indicated and/or used in calculation

**Table 5. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | Screen Interval (ft bTOC) | TOC (feet) | DTW (ft bTOC) | LNAPL thickness (feet) | GW Elev (feet) | TPH-g (µg/L) | TPH-d (µg/L) | TPH-d with Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Naphthalene (µg/L) | Carbon dioxide (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-1** | 10/27/1995 | -- | -- | 15.69 | 5.15 | -- | 10.54 | **170,000** | -- | -- | **19,000** | **34,000** | **4,800** | **26,000** | -- | -- | -- | -- | -- |
| **MW-1** | 2/20/1997 | -- | -- | 15.64 | 6.68 | -- | 8.96 | **18,000** | -- | -- | **870** | **3,500** | **470** | **2,100** | <250 | -- | -- | -- | -- |
| **MW-1** | 4/24/1997 | -- | -- | 15.64 | 8.34 | -- | 7.3 | **76,000** | -- | -- | **4,600** | **16,000** | **1,600** | **8,300** | **1,000** | -- | -- | -- | -- |
| **MW-1** | 7/23/1997 | -- | -- | 15.64 | 9.74 | -- | 5.9 | **37,000** | -- | -- | **2,700** | **8,000** | **870** | **6,100** | <250 | -- | -- | -- | -- |
| **MW-1** | 10/29/1997 | -- | -- | 15.64 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-1** | 1/28/1998 | -- | -- | 15.64 | 6.34 | -- | 9.3 | **10,000** | -- | -- | **380** | **2,000** | **300** | **1,500** | <25 | -- | -- | -- | -- |
| **MW-1** | 5/11/1998 | -- | -- | 15.64 | 6.92 | -- | 8.72 | **17,000** | -- | -- | **880** | **3,100** | **380** | **2,300** | <250 | -- | -- | -- | -- |
| **MW-1** | 7/16/1998 | -- | -- | 15.64 | 8.41 | -- | 7.23 | **29,000** | -- | -- | **2,700** | **6,800** | **890** | **3,900** | <1,000 | -- | -- | -- | -- |
| **MW-1** | 8/4/1998 | -- | -- | 15.64 | 8.74 | -- | 6.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-1** | 9/3/1998 | -- | -- | 15.64 | 9.21 | -- | 6.43 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-1** | 10/21/2009 | -- | -- | 15.64 | 10.05 | -- | 5.59 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-1** | 11/4/1998 | -- | -- | 15.64 | 10 | -- | 5.64 | **25,000** | -- | -- | **1,900** | **5,900** | **810** | **4,300** | <125 | -- | -- | -- | -- |
| **MW-1** | 1/26/1999 | -- | -- | 15.64 | 8.78 | -- | 6.86 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.0 | -- | -- | -- | -- |
| **MW-1** | 5/6/1999 | -- | -- | 15.64 | 7.47 | -- | 8.17 | **8,050** | -- | -- | **515** | **1,840** | **256** | **1,190** | 300/<20 | -- | -- | -- | -- |
| **MW-1** | 8/21/1999 | -- | -- | 15.64 | 2.37 | -- | 13.27 | **46,500** | -- | -- | **2,530** | **8,700** | **1,010** | **5,300** | <1,250/<40 | -- | -- | -- | -- |
| **MW-1** | 10/28/1999 | -- | -- | 15.64 | 10.18 | -- | 5.46 | **31,600** | -- | -- | **1,580** | **6,100** | **794** | **4,400** | **1,270** | -- | -- | -- | -- |
| **MW-1** | 1/31/2000 | -- | -- | 15.64 | 8.15 | -- | 7.49 | **7,270** | -- | -- | **366** | **1,280** | **171** | **935** | <12.5 | -- | -- | -- | -- |
| **MW-1** | 5/19/2000 | -- | -- | 15.64 | 7.86 | -- | 7.78 | **8,000** | -- | -- | **870** | **1,200** | **430** | **1,200** | <250 | -- | -- | -- | -- |
| **MW-1** | 8/7/2000 | -- | -- | 15.64 | 9.22 | -- | 6.42 | **37,000** | -- | -- | **2,400** | **8,500** | **1,100** | **5,500** | 1,500/<4.0 | -- | -- | -- | -- |
| **MW-1** | 12/1/2000 | -- | -- | 15.64 | 10.39 | -- | 5.25 | **25,500** | -- | -- | **1,390** | **4,920** | **801** | **4,330** | <500/<10 | -- | -- | -- | -- |
| **MW-1** | 2/9/2001 | -- | -- | 15.64 | 9.54 | -- | 6.1 | **8,900** | -- | -- | **850** | **1,300** | **470** | **1,700** | 820/<2.0 | -- | -- | -- | -- |
| **MW-1** | 5/29/2001 | -- | -- | 15.64 | 8.85 | -- | 6.79 | **24,000** | -- | -- | **1,800** | **5,600** | **740** | **3,700** | <250/<2.0 | -- | -- | -- | -- |
| **MW-1** | 8/27/2001 | -- | -- | 15.64 | 9.81 | -- | 5.83 | **27,000** | -- | -- | **1,400** | **4,400** | **710** | **3,400** | <20 | -- | -- | -- | -- |
| **MW-1** | 11/28/2001 | -- | -- | 15.64 | 9.8 | -- | 5.84 | **26,000** | -- | -- | **1,300** | **3,900** | **620** | **3,400** | <100/<2 | -- | -- | -- | -- |
| **MW-1** | 2/14/2002 | -- | -- | 15.63 | 7.29 | -- | 8.34 | **1,400** | -- | -- | **100** | **360** | **45** | **240** | 9.3/<2 | -- | -- | -- | -- |
| **MW-1** | 5/15/2002 | -- | -- | 15.63 | 8.45 | -- | 7.18 | **37,000** | -- | -- | **2,400** | **7,300** | **1,000** | **4,800** | <100/<3.0 | -- | -- | -- | -- |
| **MW-1** | 8/5/2002 | -- | -- | 15.63 | 9.54 | -- | 6.09 | **27,000** | -- | -- | **1,500** | **4,600** | **700** | **3,400** | <100/<3.0 | -- | -- | -- | -- |
| **MW-1** | | | | | | | | | | **DESTROYED** | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| **MW-1A** | 2/24-25/2003 | -- | -- | 15.49 | 7.32 | -- | 8.17 | **5,100** | **4,600** | -- | **92** | **340** | **66** | **480** | <10 | -- | -- | -- | -- |
| **MW-1A** | 6/2/2003 | -- | -- | 15.49 | 8.34 | -- | 7.15 | **3,800** | **5,500** | -- | **150** | **490** | **72** | **450** | <13 | -- | -- | -- | -- |
| **MW-1A** | 9/2/2003 | -- | -- | 15.49 | 9.39 | -- | 6.1 | **6,200** | **10,000** | -- | **100** | **580** | **110** | **760** | **47** | -- | -- | -- | -- |
| **MW-1A** | 11/21/2003 | -- | -- | 15.49 | 10.2 | -- | 5.29 | **3,200** | **3,800** | -- | **29** | **150** | **49** | **240** | <10 | -- | -- | -- | -- |
| **MW-1A** | 2/27/2004 | -- | -- | 15.49 | 5.62 | -- | 9.87 | **280** | **2,800** | -- | **9.7** | **19** | **3** | **30** | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 5/28/2004 | -- | -- | 15.49 | 8.61 | -- | 6.88 | **1,100** | **5,500** | -- | **35** | **81** | **27** | **140** | **17** | -- | -- | -- | -- |
| **MW-1A** | 8/31/2004 | -- | -- | 15.49 | 9.91 | -- | 5.58 | **1,100** | **4,500** | -- | **13** | **68** | **27** | **110** | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 12/17/2004 | -- | -- | 15.49 | 8.4 | -- | 7.09 | **560** | **2,300** | -- | **8** | **17** | **9.6** | **36** | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 3/28/2005 | -- | -- | 15.49 | 5.13 | -- | 10.36 | **87** | **340** | -- | **16** | **4.2** | **3.3** | **11** | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 6/9/2005 | -- | -- | 15.49 | 5.8 | -- | 9.69 | **260** | **6,400** | -- | **26** | **3.7** | **7.7** | **13** | **5.3** | -- | -- | -- | -- |
| **MW-1A** | 8/19/2005 | -- | -- | 15.49 | 8.79 | -- | 6.7 | **440** | **1,100** | -- | **38** | **7.8** | **9.4** | **17** | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 11/18/2005 | -- | -- | 15.49 | 9.24 | -- | 6.25 | **450** | **1,300** | -- | **11** | **12** | **17** | **22** | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 3/7/2006 | -- | -- | 15.49 | 4.98 | -- | 10.51 | **150** | **2,300** | -- | **33** | **1.6** | **3.4** | **2.7** | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 5/17/2006 | -- | -- | 15.49 | 6.47 | -- | 9.02 | **110** | **2,600** | -- | **18** | <0.5 | **0.7** | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 8/30/2006 | -- | -- | 15.49 | 9.81 | -- | 5.68 | **420** | **3,600** | -- | **24** | **0.7** | **8.1** | **9.2** | <10 | -- | -- | -- | -- |
| **MW-1A** | 11/28/2006 | -- | -- | 15.49 | 9.7 | -- | 5.79 | **220** | **2,900** | -- | **8.6** | **2.7** | **6.1** | **9.3** | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 2/6/2007 | -- | -- | 18.11 | 9.28 | -- | 8.83 | **230** | **1,500** | -- | **19** | <0.5 | **1.8** | **2.7** | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 5/2/2007 | -- | -- | 18.11 | 8.28 | -- | 9.83 | **190** | **1,300** | -- | **16** | <0.5 | **1** | **1.8** | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 8/17/2007 | -- | -- | 18.11 | 9.5 | -- | 8.61 | **160** | **1,100** | -- | **2.5** | **0.8** | **2** | **2.7** | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 11/16/2007 | -- | -- | 18.11 | 9.84 | -- | 8.27 | **30,000** | **3,600** | -- | **610** | **1,100** | **4,100** | **2,800** | **310** | -- | -- | -- | -- |
| **MW-1A** | 2/5/2008 | -- | -- | 18.11 | 6.48 | -- | 11.63 | **63** | **2,100** | -- | **4.8** | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 5/20/2008 | -- | -- | 18.11 | 8.93 | -- | 9.18 | **50** | **940** | -- | **1.5** | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 8/6/2008 | -- | -- | 18.11 | 9.86 | -- | 8.25 | **98** | **1,900** | -- | **0.7** | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 12/5/2008 | -- | -- | 18.11 | 10.43 | -- | 7.68 | **96** | **940** | -- | **0.6** | <0.5 | **0.5** | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 2/9/2009 | -- | -- | 18.11 | 10.01 | -- | 8.1 | **130** | **630** | -- | **2.7** | <0.5 | **2.1** | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 5/8/2009 | -- | -- | 18.11 | 8.2 | -- | 9.91 | <50 | **1,300** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 8/7/2009 | -- | -- | 18.11 | 9.76 | -- | 8.35 | **97** | **1,300** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 2/25/2010 | -- | -- | 18.11 | 7.08 | -- | 11.03 | <50 | **500** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |

**Table 5. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | Screen Interval (ft bTOC) | TOC (feet) | DTW (ft bTOC) | LNAPL thickness (feet) | GW Elev (feet) | TPH-g (µg/L) | TPH-d (µg/L) | TPH-d with Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Naphthalene (µg/L) | Carbon dioxide (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-1A** | 9/3/2010 | -- | 16-Jun | 18.11 | 9.54 | 0 | 8.57 | <50 | -- | **590** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 2/3/2011 | -- | 16-Jun | 18.11 | 8.05 | 0 | 10.06 | **100** | -- | **840** | **2.5** | **0.6** | **6.7** | **2** | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 5/4/2011 | -- | 16-Jun | 18.11 | 7.16 | 0 | 10.95 | <50 | -- | **1,500** | **6.7** | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 8/4/2011 | -- | 16-Jun | 18.11 | 8.8 | 0 | 9.31 | <50 | -- | **750** | **0.9** | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 2/29/2012 | -- | 16-Jun | 18.11 | 9.84 | 0 | 8.27 | <50 | -- | **630 / 250** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 8/7/2012 | -- | 16-Jun | 18.11 | 9.64 | 0 | 8.47 | <50 | -- | **540** / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 2/18/2013 | -- | 16-Jun | 18.11 | 8.32 | 0 | 9.79 | <50 | -- | **830 / 110** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 9/27/2013 | -- | 16-Jun | 18.11 | 10.51 | 0 | 7.6 | <50 | -- | **950 / 420** | **0.3** | <0.20 | <0.20 | <0.60 | <0.30 | -- | -- | -- | -- |
| **MW-1A** | 1/31/2014 | -- | 16-Jun | 18.11 | 11.15 | 0 | 6.96 | **150** | -- | **9,100 / 4,400** | **2.2** | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-1A** | 8/18/2016 | -- | 16-Jun | 18.11 | 10.62 | 0 | 7.49 | <100 | -- | <100 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- |
| **MW-1A** | 2/7/2017 | -- | 16-Jun | 18.11 | 4.74 | 0 | 13.37 | <100 | -- | <100 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- |
| **MW-1A** | 3/3/2018 | -- | 16-Jun | 18.11 | 9.6 | 0 | 8.51 | **100** | -- | <100 | **6** | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- |
| **MW-1A** | 8/14/2018 | -- | 16-Jun | 18.11 | 10.21 | 0 | 7.9 | <17 | -- | **83** | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- |
| **MW-1A** | 2/13/2019 | -- | 16-Jun | 18.11 | 6.69 | 0 | 11.42 | <61 | -- | **42 J** | **4** | **0.10 J** | **0.20 J** | **0.10 J** | <0.08 | -- | -- | -- | -- |
| **MW-1A** | 10/10/2019 | -- | 16-Jun | 18.11 | 10.53 | 0 | 7.58 | <50 | -- | **21 J** | <0.2 | <0.2 | <0.2 | <0.8 | <0.2 | -- | -- | -- | -- |
| **MW-1A** | 3/31/2020 | -- | 16-Jun | 18.11 | 9.86 | 0 | 8.25 | **50 J** | -- | <100 | <1 | <1 | <1 | <3 | <1 | -- | -- | -- | -- |
| **MW-1A** | 9/29/2020 | -- | 16-Jun | 18.11 | 11.33 | 0 | 6.78 | **166** | -- | **86.8 J** | <1 UB | <1 | <1 | <3 | <1 | -- | -- | -- | -- |
| **MW-1A** | 4/26/2021 | -- | 6-16 | 18.22 | 10.57 | 0.00 | 7.65 | **250** | **1,400** | **270** | **0.24 J** | <1.0 | <1.0 | <3.0 | <1.0 | -- | -- | -- | -- |
| **MW-2** | 10/27/1995 | -- | -- | 15.77 | 5.17 | -- | 10.6 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- |
| **MW-2** | 2/20/1997 | -- | -- | 15.72 | 7.21 | -- | 8.51 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 4/24/1997 | -- | -- | 15.72 | 7.9 | -- | 7.82 | **83** | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 7/23/1997 | -- | -- | 15.72 | 9.8 | -- | 5.92 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 10/29/1997 | -- | -- | 15.72 | 10.59 | -- | 5.13 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 1/28/1998 | -- | -- | 15.72 | 6.51 | -- | 9.21 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 5/11/1998 | -- | -- | 15.72 | 6.9 | -- | 8.82 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-2** | 7/16/1998 | -- | -- | 15.72 | 8.35 | -- | 7.37 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-2** | 8/4/1998 | -- | -- | 15.72 | 8.69 | -- | 7.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-2** | 9/3/1998 | -- | -- | 15.72 | 9.28 | -- | 6.44 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-2** | 10/21/1998 | -- | -- | 15.72 | 10.21 | -- | 5.51 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-2** | 11/4/1998 | -- | -- | 15.72 | 10.12 | -- | 5.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-2** | 1/26/1999 | -- | -- | 15.72 | 8.85 | -- | 6.87 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.0 | -- | -- | -- | -- |
| **MW-2** | 5/6/1999 | -- | -- | 15.72 | 7.52 | -- | 8.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-2** | 8/21/1999 | -- | -- | 15.72 | 2.51 | -- | 13.21 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-2** | 10/28/1999 | -- | -- | 15.72 | 9.37 | -- | 6.35 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-2** | 1/31/2000 | -- | -- | 15.72 | 8.47 | -- | 7.25 | <50 | -- | -- | <0.5 | **0.541** | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 5/19/2000 | -- | -- | 15.72 | 8.07 | -- | 7.65 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-2** | 8/7/2000 | -- | -- | 15.72 | 9.37 | -- | 6.35 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <0.50 | <2.5/<2.0 | -- | -- | -- | -- |
| **MW-2** | 12/1/2000 | -- | -- | 15.72 | 10.12 | -- | 5.6 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | -- | -- | -- | -- |
| **MW-2** | 2/9/2001 | -- | -- | 15.72 | 9.67 | -- | 6.05 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 5/29/2001 | -- | -- | 15.72 | 8.99 | -- | 6.73 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 8/27/2001 | -- | -- | 15.72 | 10.04 | -- | 5.68 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | -- | -- | -- | -- |
| **MW-2** | 11/28/2001 | -- | -- | 15.69 | 9.86 | -- | 5.83 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-2** | 2/14/2002 | -- | -- | 15.69 | 7.83 | -- | 7.86 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 5/15/2002 | -- | -- | 15.69 | 8.6 | -- | 7.09 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 8/5/2002 | -- | -- | 15.69 | 9.67 | -- | 6.02 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 11/30/2002 | -- | -- | 15.69 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-2** | 2/24-25/2003 | -- | -- | 15.69 | 7.65 | -- | 8.04 | <50 | **140** | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 6/2/2003 | -- | -- | 15.69 | 8.36 | -- | 7.33 | <50 | **150** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 9/2/2003 | -- | -- | -- | 9.72 | -- | -- | <50 | **150** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 11/21/2003 | -- | -- | -- | 10.39 | -- | -- | <50 | **180** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 2/27/2004 | -- | -- | -- | 6.9 | -- | -- | <50 | **310** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 5/28/2004 | -- | -- | -- | 9.13 | -- | -- | <50 | **160** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 8/31/2004 | -- | -- | -- | 10.3 | -- | -- | <50 | **180** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 12/17/2004 | -- | -- | -- | 8.91 | -- | -- | <50 | **77** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 3/28/2005 | -- | -- | -- | 6.51 | -- | -- | <50 | <50 | -- | <0.5 | **0.5** | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 6/9/2005 | -- | -- | -- | 7.09 | -- | -- | <50 | **53** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |

**Table 5. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | Screen Interval (ft bTOC) | TOC (feet) | DTW (ft bTOC) | LNAPL thickness (feet) | GW Elev (feet) | TPH-g (µg/L) | TPH-d (µg/L) | TPH-d with Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Naphthalene (µg/L) | Carbon dioxide (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-2** | 8/19/2005 | -- | -- | -- | 9.27 | -- | -- | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 11/18/2005 | -- | -- | -- | 9.66 | -- | -- | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 3/7/2006 | -- | -- | -- | 6.75 | -- | -- | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 5/17/2006 | -- | -- | -- | 7.09 | -- | -- | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 8/30/2006 | -- | -- | -- | 9.03 | -- | -- | <50 | **640** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 11/28/2006 | -- | -- | -- | 10.02 | -- | -- | <50 | **560** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 2/6/2007 | -- | -- | 18.4 | 9.68 | -- | 8.72 | <50 | **200** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 5/2/2007 | -- | -- | 18.4 | 8.69 | -- | 9.71 | <50 | **480** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 8/17/2007 | -- | -- | 18.4 | 9.88 | -- | 8.52 | <50 | **1,000** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 11/16/2007 | -- | -- | 18.4 | 10.1 | -- | 8.3 | <50 | **1,900** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 2/5/2008 | -- | -- | 18.4 | 7.43 | -- | 10.97 | <50 | **1,100** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 5/20/2008 | -- | -- | 18.4 | 9.31 | -- | 9.09 | <50 | **650** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 8/6/2008 | -- | -- | 18.4 | 10.15 | -- | 8.25 | <50 | **200** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 12/5/2008 | -- | -- | 18.4 | 11.28 | -- | 7.12 | <50 | **680** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 2/9/2009 | -- | -- | 18.4 | 10.32 | -- | 8.08 | <50 | **420** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 5/8/2009 | -- | -- | 18.4 | 8.42 | -- | 9.98 | <50 | **75** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 8/7/2009 | -- | -- | 18.4 | 10.17 | -- | 8.23 | <50 | **610** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 2/25/2010 | -- | -- | 18.4 | 7.86 | -- | 10.54 | <50 | **120** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 9/3/2010 | -- | 15-May | 18.4 | 9.98 | 0 | 8.42 | <50 | <50 | **130** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 2/3/2011 | -- | 15-May | 18.4 | 8.61 | 0 | 9.79 | **75** | -- | **430** | <0.50 | <0.50 | <0.50 | <1.5 | **8.9** | -- | -- | -- | -- |
| **MW-2** | 5/4/2011 | -- | 15-May | 18.4 | 4.55 | 0 | 13.85 | **1,300** | -- | **160** | **12** | **48** | **0.7** | **47** | <100 | -- | -- | -- | -- |
| **MW-2** | 8/4/2011 | -- | 15-May | 18.4 | 9.17 | 0 | 9.23 | **1,500** | -- | **99** | **43** | **100** | **1.4** | **47** | **34** | -- | -- | -- | -- |
| **MW-2** | 2/29/2012 | -- | 15-May | 18.4 | 10.25 | 0 | 8.15 | <50 | -- | 75 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 8/7/2012 | -- | 15-May | 18.4 | 9.98 | 0 | 8.42 | <50 | -- | **410 / 270** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 2/18/2013 | -- | 15-May | 18.4 | 8.72 | 0 | 9.68 | <50 | -- | **430** / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 9/27/2013 | -- | 15-May | 18.4 | 10.81 | 0 | 7.59 | <50 | -- | **150** / <50 | <0.20 | <0.20 | <0.20 | <0.60 | <0.30 | -- | -- | -- | -- |
| **MW-2** | 1/31/2014 | -- | 15-May | 18.4 | 11.54 | 0 | 6.86 | <50 | -- | **1,200 / 410** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-2** | 8/18/2016 | -- | 15-May | 18.4 | 10.96 | 0 | 7.44 | <100 | -- | **62 J** | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- |
| **MW-2** | 2/7/2017 | -- | 15-May | 18.4 | 6.58 | 0 | 11.82 | <100 | -- | <100 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- |
| **MW-2** | 3/3/2018 | -- | 15-May | 18.4 | 9.72 | 0 | 8.68 | <100 | -- | **100** | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- |
| **MW-2** | 8/14/2018 | -- | 15-May | 18.4 | 10.51 | 0 | 7.89 | <17 | -- | **440** | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- |
| **MW-2** | 2/13/2019 | -- | 15-May | 18.4 | 6.65 | 0 | 11.75 | **190** | -- | <17 | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- |
| **MW-2** | 10/10/2019 | -- | 15-May | 18.4 | 10.92 | 0 | 7.48 | <50 | -- | <17 | <0.2 | <0.2 | <0.2 | <0.8 | <0.2 | -- | -- | -- | -- |
| **MW-2** | 3/31/2020 | -- | 15-May | 18.4 | 10.15 | 0 | 8.25 | <100 | -- | <100 | <1 | <1 | <1 | <3 | <1 | -- | -- | -- | -- |
| **MW-2** | 9/29/2020 | -- | 15-May | 18.4 | 11.9 | 0 | 6.5 | **59.2 J** | -- | <100 | <1 UB | <1 | <1 | <3 | <1 | -- | -- | -- | -- |
| **MW-2** | 4/26/2021 | -- | 5-15 | 18.51 | 10.84 | 0.00 | 7.67 | <100 | **830** | <100 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | -- | -- | -- |
| | | | | | | | | | | | | | | | | | | | |
| **MW-3** | 10/27/1995 | -- | -- | 15.46 | 5.09 | -- | 10.37 | **33,000** | -- | -- | **11,000** | **1,700** | **2,300** | **4,200** | -- | -- | -- | -- | -- |
| **MW-3** | 2/20/1997 | -- | -- | 15.42 | 7.05 | -- | 8.37 | **260** | -- | -- | **56** | <1.0 | **8** | **6** | <5.0 | -- | -- | -- | -- |
| **MW-3** | 4/24/1997 | -- | -- | 15.42 | 8.13 | -- | 7.29 | **1,400** | -- | -- | **310** | **28** | **76** | **75** | **74** | -- | -- | -- | -- |
| **MW-3** | 7/23/1997 | -- | -- | 15.42 | 9.58 | -- | 5.84 | **37,000** | -- | -- | **10,000** | **1,500** | **2,700** | **4,200** | **2,500** | -- | -- | -- | -- |
| **MW-3** | 10/29/1997 | -- | -- | 15.42 | 10.33 | -- | 5.09 | **53,000** | -- | -- | **12,000** | **1,200** | **3,000** | **3,100** | **2,500** | -- | -- | -- | -- |
| **MW-3** | 1/28/1998 | -- | -- | 15.42 | 6.48 | -- | 8.94 | **210** | -- | -- | **43** | **2** | **2** | **4** | **10** | -- | -- | -- | -- |
| **MW-3** | 5/11/1998 | -- | -- | 15.42 | 6.93 | -- | 8.49 | **59** | -- | -- | **11** | <0.5 | **2** | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-3** | 7/16/1998 | -- | -- | 15.42 | 8.28 | -- | 7.14 | **260** | -- | -- | **90** | **5** | **18** | **6** | <10 | -- | -- | -- | -- |
| **MW-3** | 8/4/1998 | -- | -- | 15.42 | 8.54 | -- | 6.88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-3** | 9/3/1998 | -- | -- | 15.42 | 9.08 | -- | 6.34 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-3** | 10/21/1998 | -- | -- | 15.42 | 9.8 | -- | 5.62 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-3** | 11/4/1998 | -- | -- | 15.42 | 9.82 | -- | 5.6 | **73,000** | -- | -- | **17,000** | **3,800** | **4,900** | **8,100** | <250 | -- | -- | -- | -- |
| **MW-3** | 1/26/1999 | -- | -- | 15.42 | 8.72 | -- | 6.7 | **32,400** | -- | -- | **10,200** | **1,850** | **2,650** | **3,140** | **715**/<500 | -- | -- | -- | -- |
| **MW-3** | 5/6/1999 | -- | -- | 15.42 | 7.45 | -- | 7.97 | **3,160** | -- | -- | **668** | **90** | **180** | **123** | <200/<10 | -- | -- | -- | -- |
| **MW-3** | 8/21/1999 | -- | -- | 15.42 | 7.47 | -- | 7.95 | **53,800** | -- | -- | **9,700** | **2,040** | **2,880** | **5,000** | <1,250/<40 | -- | -- | -- | -- |
| **MW-3** | 10/28/1999 | -- | -- | 15.42 | 10.05 | -- | 5.37 | **71,300** | -- | -- | **14,000** | **3,420** | **4,320** | **8,360** | <1,000 | -- | -- | -- | -- |
| **MW-3** | 1/31/2000 | -- | -- | 15.42 | 8.26 | -- | 7.16 | **1,650** | -- | -- | **496** | **49.1** | **134** | **82.6** | <12.5 | -- | -- | -- | -- |
| **MW-3** | 5/19/2000 | -- | -- | 15.42 | 7.82 | -- | 7.6 | **110** | -- | -- | **36** | **3** | **9** | **4** | **6** | -- | -- | -- | -- |
| **MW-3** | 8/7/2000 | -- | -- | 15.42 | 9.13 | -- | 6.29 | **36,000** | -- | -- | **9,000** | **3,000** | **2,700** | **2,800** | 2,500/<10 | -- | -- | -- | -- |
| **MW-3** | 12/1/2000 | -- | -- | 15.42 | 12.97 | -- | 2.45 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Table 5. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | Screen Interval (ft bTOC) | TOC (feet) | DTW (ft bTOC) | LNAPL thickness (feet) | GW Elev (feet) | TPH-g (µg/L) | TPH-d (µg/L) | TPH-d with Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Naphthalene (µg/L) | Carbon dioxide (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-3 | 2/9/2001 | -- | -- | 15.42 | 9.44 | -- | 5.98 | 32,000 | -- | -- | 11,000 | 3,900 | 3,200 | 4,800 | 3,200/<2.0 | -- | -- | -- | -- |
| MW-3 | 5/29/2001 | -- | -- | 15.42 | 8.77 | -- | 6.65 | 13,000 | -- | -- | 4,200 | 2,000 | 1,800 | 1,500 | 74/<2.0 | -- | -- | -- | -- |
| MW-3 | 8/27/2001 | -- | -- | 15.42 | 9.72 | -- | 5.7 | 40,000 | -- | -- | 7,600 | 2,800 | 2,500 | 2,700 | <25 | -- | -- | -- | -- |
| MW-3 | 11/28/2001 | -- | -- | 15.42 | 9.65 | -- | 5.77 | 57,000 | -- | -- | 10,000 | 2,900 | 2,900 | 2,800 | <250/<5.0 | -- | -- | -- | -- |
| MW-3 | 2/14/2002 | -- | -- | 15.4 | 7.67 | -- | 7.73 | 51 | -- | -- | 3 | <0.50 | 2 | 2 | <25/<2 | -- | -- | -- | -- |
| MW-3 | 5/15/2002 | -- | -- | 15.4 | 8.35 | -- | 7.05 | 4,100 | -- | -- | 910 | 250 | 210 | 240 | <20/<2 | -- | -- | -- | -- |
| MW-3 | 8/5/2002 | -- | -- | 15.4 | 9.44 | -- | 5.96 | 58,000 | -- | -- | 11,000 | 4,300 | 3,400 | 4,000 | <250/<10 | -- | -- | -- | -- |
| MW-3 | 11/30/2002 | -- | -- | 15.4 | 10.26 | -- | 5.14 | 46,000 | -- | -- | 13,000 | 2,900 | 3,700 | 2,600 | <100/<10 | -- | -- | -- | -- |
| MW-3 | 02/24-25/2003 | -- | -- | 15.4 | 7.51 | -- | 7.89 | 52,000 | 4,500 | -- | 9,600 | 4,800 | 2,900 | 4,100 | <130 | -- | -- | -- | -- |
| MW-3 | 6/2/2003 | -- | -- | 15.4 | 8.16 | -- | 7.24 | 67,000 | 6,500 | -- | 11,000 | 9,600 | 3,400 | 5,700 | <250 | -- | -- | -- | -- |
| MW-3 | 9/2/2003 | -- | -- | 15.4 | 9.51 | -- | 5.89 | 73,000 | 10,000 | -- | 8,900 | 10,000 | 3,600 | 7,000 | 300 | -- | -- | -- | -- |
| MW-3 | 11/21/2003 | -- | -- | 15.4 | 10.23 | -- | 5.17 | 29,000 | 8,000 | -- | 3,300 | 3,200 | 1,200 | 1,500 | <200 | -- | -- | -- | -- |
| MW-3 | 2/27/2004 | -- | -- | 15.4 | 6.56 | -- | 8.84 | 59 | 200 | -- | 8 | 6 | 2 | 7 | <2.5 | -- | -- | -- | -- |
| MW-3 | 5/28/2004 | -- | -- | 15.4 | 8.83 | -- | 6.57 | 18,000 | 5,400 | -- | 2,600 | 970 | 1,600 | 950 | <100 | -- | -- | -- | -- |
| MW-3 | 8/31/2004 | -- | -- | 15.4 | 9.99 | -- | 5.41 | 58,000 | 9,100 | -- | 3,200 | 9,600 | 2,800 | 7,500 | <50 | -- | -- | -- | -- |
| MW-3 | 12/17/2004 | -- | -- | 15.4 | 8.59 | -- | 6.81 | 23,000 | 2,200 | -- | 1,100 | 2,100 | 1,200 | 2,600 | <25 | -- | -- | -- | -- |
| MW-3 | 3/28/2005 | -- | -- | 15.4 | 6.11 | -- | 9.29 | 43,000 | 3,200 | -- | 1,500 | 10,000 | 2,600 | 7,300 | <130 | -- | -- | -- | -- |
| MW-3 | 6/9/2005 | -- | -- | 15.4 | 6.75 | -- | 8.65 | 38,000 | 7,800 | -- | 980 | 7,000 | 2,100 | 4,800 | 190 | -- | -- | -- | -- |
| MW-3 | 8/19/2005 | -- | -- | 15.4 | 8.97 | -- | 6.43 | 75,000 | 5,000 | -- | 1,500 | 14,000 | 3,400 | 9,600 | <130 | -- | -- | -- | -- |
| MW-3 | 11/18/2005 | -- | -- | 15.4 | 9.45 | -- | 5.95 | 72,000 | 3,900 | -- | 1,400 | 14,000 | 3,600 | 9,700 | 380 | -- | -- | -- | -- |
| MW-3 | 3/7/2006 | -- | -- | 15.4 | 6.35 | -- | 9.05 | 15,000 | 1,100 | -- | 280 | 2,300 | 820 | 2,000 | <100 | -- | -- | -- | -- |
| MW-3 | 5/17/2006 | -- | -- | 15.4 | 6.83 | -- | 8.57 | 57,000 | 4,400 | -- | 650 | 8,100 | 2,900 | 8,100 | 410 | -- | -- | -- | -- |
| MW-3 | 8/30/2006 | -- | -- | 15.4 | 9.96 | -- | 5.44 | 54,000 | 4,300 | -- | 540 | 7,600 | 4,100 | 10,000 | 550 | -- | -- | -- | -- |
| MW-3 | 11/28/2006 | -- | -- | 15.4 | 9.78 | -- | 5.62 | 43,000 | 4,400 | -- | 260 | 3,400 | 3,800 | 5,800 | <1,000 | -- | -- | -- | -- |
| MW-3 | 2/6/2007 | -- | -- | 18.07 | 9.37 | -- | 8.7 | 43,000 | 5,000 | -- | 290 | 6,200 | 3,400 | 6,400 | <500 | -- | -- | -- | -- |
| MW-3 | 5/2/2007 | -- | -- | 18.07 | 8.4 | -- | 9.67 | 43,000 | 4,500 | -- | 290 | 4,100 | 3,800 | 6,500 | <500 | -- | -- | -- | -- |
| MW-3 | 8/17/2007 | -- | -- | 18.07 | 9.57 | -- | 8.5 | 46,000 | 4,900 | -- | 240 | 1,900 | 3,800 | 5,600 | 310 | -- | -- | -- | -- |
| MW-3 | 11/16/2007 | -- | -- | 18.07 | 9.78 | -- | 8.29 | 450 | 860 | -- | 34 | 23 | 53 | 25 | 4 | -- | -- | -- | -- |
| MW-3 | 2/5/2008 | -- | -- | 18.07 | 7.1 | -- | 10.97 | 18,000 | 2,400 | -- | 210 | 950 | 1,800 | 1,700 | <500 | -- | -- | -- | -- |
| MW-3 | 5/20/2008 | -- | -- | 18.07 | 9.08 | -- | 8.99 | 45,000 | 6,900 | -- | 190 | 4,900 | 2,800 | 6,200 | <500 | -- | -- | -- | -- |
| MW-3 | 8/6/2008 | -- | -- | 18.07 | 9.81 | -- | 8.26 | 40,000 | 5,000 | -- | 220 | 1,500 | 3,200 | 6,500 | <500 | -- | -- | -- | -- |
| MW-3 | 12/5/2008 | -- | -- | 18.07 | 10.51 | -- | 7.56 | 15,000 | 4,000 | -- | 26 | 590 | 1,800 | 1,800 | 230 | -- | -- | -- | -- |
| MW-3 | 2/9/2009 | -- | -- | 18.07 | 10.05 | -- | 8.02 | 20,000 | 2,800 | -- | 170 | 710 | 1,800 | 2,500 | <400 | -- | -- | -- | -- |
| MW-3 | 5/8/2009 | -- | -- | 18.07 | 8.12 | -- | 9.95 | 15,000 | 2,900 | -- | 88 | 900 | 2,100 | 1,400 | <250 | -- | -- | -- | -- |
| MW-3 | 8/7/2009 | -- | -- | 18.07 | 9.87 | -- | 8.2 | 41,000 | 2,900 | -- | 150 | 2,400 | 3,800 | 6,700 | <500 | -- | -- | -- | -- |
| MW-3 | 2/25/2010 | -- | -- | 18.07 | 7.5 | -- | 10.57 | 15,000 | 1,800 | -- | 42 | 320 | 1,600 | 1,100 | 330 | -- | -- | -- | -- |
| MW-3 | | | | | | | | | | | | | | | | | | | |
| MW-3 | 9/3/2010 | -- | 15-May | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 160,000 |
| MW-3 | 9/3/2010 | -- | 15-May | 18.07 | 9.7 | 0 | 8.37 | 32,000 | -- | 4,000 | 65 | 690 | 3,100 | 4,900 | 380 | -- | -- | -- | -- |
| MW-3 | 2/3/2011 | -- | 15-May | 18.07 | 8.39 | 0 | 9.68 | 2,000 | -- | 1,400 | 17 | 34 | 250 | 190 | 26 | -- | -- | -- | 44,000 |
| MW-3 | 5/4/2011 | -- | 15-May | 18.07 | 7.3 | 0 | 10.77 | 57 | -- | 340 | <0.50 | 1.1 | 3.8 | 7.7 | <2.5 | -- | -- | -- | 20,000 |
| MW-3 | 8/4/2011 | -- | 15-May | 18.07 | 8.83 | 0 | 9.24 | 1,200 | -- | 2,100 | 6.5 | 4.6 | 110 | 8.9 | 16 | -- | -- | -- | 68,000 |
| MW-3 | 2/29/2012 | -- | 15-May | 18.07 | 9.9 | 0 | 8.17 | 2,000 | -- | 1,500 / 510 | 74 | 2.2 | 6.5 | <5.0 | <18 | -- | -- | -- | -- |
| MW-3 | 8/7/2012 | -- | 15-May | 18.07 | 9.68 | 0 | 8.39 | 3,800 | -- | 2,600 / 1,100 | 120 | 4.1 | 5 | 14 | 38 | -- | -- | -- | -- |
| MW-3 | 2/18/2013 | -- | 15-May | 18.07 | 8.45 | 0 | 9.62 | 1,700 | -- | 1,700 / 580 | 11 | 2.6 | 3.8 | 19 | 27 | -- | -- | -- | -- |
| MW-3 | 9/27/2013 | -- | 15-May | 18.07 | 10.52 | 0 | 7.55 | 3,100 | -- | 1,800 / 1,100 | 30 | 2.4 | 3.1 | 16 | 66 | -- | -- | -- | -- |
| MW-3 | 1/31/2014 | -- | 15-May | 18.07 | 11.15 | 0 | 6.92 | 3,300 | -- | 4,100 / 1,400 | 33 | 2 | 3.6 | 5.9 | 66 | -- | -- | -- | -- |
| MW-3 | 8/18/2016 | -- | 15-May | 18.07 | 10.64 | 0 | 7.43 | 4,100 | -- | 780 | 21 | 2.8 | 2.4 | 10 | <10 | -- | -- | -- | -- |
| MW-3 | 2/7/2017 | -- | 15-May | 18.07 | 6.22 | 0 | 11.85 | 3,100 | -- | 510 | 8.2 | 3.6 | 75 | 96 | <10 | -- | -- | -- | -- |
| MW-3 | 3/3/2018 | -- | 15-May | 18.07 | 9.47 | 0 | 8.6 | 2,600 | -- | 530 | 9.4 | 1.9 | 2.5 | 3.4 | <10 | -- | -- | -- | -- |
| MW-3 | 8/14/2018 | -- | 15-May | 18.07 | 10.22 | 0 | 7.85 | 3,000 | -- | 810 | 10 | 2.8 | 3.6 | 27 | <0.08 | -- | -- | -- | -- |
| MW-3 | 2/13/2019 | -- | 15-May | 18.07 | 7.27 | 0 | 10.8 | 140 | -- | 520 | <0.03 | 0.60 J | 0.70 J | 0.50 J | 6 | -- | -- | -- | -- |
| MW-3 | 10/10/2019 | -- | 15-May | 18.07 | 10.57 | 0 | 7.5 | 510 | -- | 1,800 | 1 | 0.6 J | 0.3 J | <0.8 | <0.2 | -- | -- | -- | -- |
| MW-3 | 3/31/2020 | -- | 15-May | 18.07 | 9.82 | 0 | 8.25 | 1,600 | -- | 310 | 1 | 1 J | 0.4 J | <3 | <1 | -- | -- | -- | -- |
| MW-3 | 9/29/2020 | -- | 15-May | 18.07 | 11.35 | 0 | 6.72 | 2,050 | -- | 111 | 2.64 | 0.784 J | 0.185 J | 0.587 J | <1.00 | -- | -- | -- | -- |
| MW-3 | 4/26/2021 | -- | 5-15 | 18.17 | 10.62 | 0.00 | 7.55 | 1,500 | 1,500 | 170 | 2.2 | 0.59 J | 0.35 J | 0.73 J | <1.0 | -- | -- | -- | -- |

**Table 5. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | Screen Interval (ft bTOC) | TOC (feet) | DTW (ft bTOC) | LNAPL thickness (feet) | GW Elev (feet) | TPH-g (µg/L) | TPH-d (µg/L) | TPH-d with Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Naphthalene (µg/L) | Carbon dioxide (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-4** | 10/27/1995 | -- | -- | 14.45 | 5.08 | -- | 9.37 | **66** | -- | -- | **7** | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- |
| **MW-4** | 2/20/1997 | -- | -- | 14.4 | 6.28 | -- | 8.12 | **54** | -- | -- | <0.5 | <0.5 | <0.5 | **7** | **39** | -- | -- | -- | -- |
| **MW-4** | 4/24/1997 | -- | -- | 14.4 | 7.11 | -- | 7.29 | **54** | -- | -- | **1** | <0.5 | **1** | **3** | **100** | -- | -- | -- | -- |
| **MW-4** | 7/23/1997 | -- | -- | 14.4 | 8.6 | -- | 5.8 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 10/29/1997 | -- | -- | 14.4 | 8.66 | -- | 5.74 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-4** | 11/13/1997 | -- | -- | 14.4 | 9.43 | -- | 4.97 | <50 | -- | -- | <0.5 | **1** | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 1/28/1998 | -- | -- | 14.4 | 5.52 | -- | 8.88 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 5/11/1998 | -- | -- | 14.4 | 6 | -- | 8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-4** | 7/16/1998 | -- | -- | 14.4 | 7.32 | -- | 7.08 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | -- | -- | -- |
| **MW-4** | 8/4/1998 | -- | -- | 14.4 | 8.12 | -- | 6.28 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-4** | 9/3/1998 | -- | -- | 14.4 | 8.08 | -- | 6.32 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-4** | 10/21/1998 | -- | -- | 14.4 | 8.76 | -- | 5.64 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-4** | 11/4/1998 | -- | -- | 14.4 | 8.79 | -- | 5.61 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-4** | 1/26/1999 | -- | -- | 14.4 | 7.69 | -- | 6.71 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.0 | -- | -- | -- | -- |
| **MW-4** | 5/6/1999 | -- | -- | 14.4 | 6.25 | -- | 8.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-4** | 8/21/1999 | -- | -- | 14.4 | 6.27 | -- | 8.13 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | -- | -- | -- |
| **MW-4** | 10/28/1999 | -- | -- | 14.4 | 10.26 | -- | 4.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-4** | 1/31/2000 | -- | -- | 14.4 | 7.33 | -- | 7.07 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 5/19/2000 | -- | -- | 14.4 | 6.88 | -- | 7.52 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-4** | 8/7/2000 | -- | -- | 14.4 | 8.17 | -- | 6.23 | <50 | -- | -- | **4** | **1** | <0.50 | <0.50 | <2.5/<2.0 | -- | -- | -- | -- |
| **MW-4** | 12/1/2000 | -- | -- | 14.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-4** | 2/9/2001 | -- | -- | 14.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-4** | 5/29/2001 | -- | -- | 14.4 | 7.82 | -- | 6.58 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-4** | 8/27/2001 | -- | -- | 14.4 | 7.88 | -- | 6.52 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-4** | 11/28/2001 | -- | -- | 14.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-4** | 2/14/2002 | -- | -- | 14.37 | 6.71 | -- | 7.66 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5/<2 | -- | -- | -- | -- |
| **MW-4** | 5/15/2002 | -- | -- | 14.37 | 7.41 | -- | 6.96 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5/<2 | -- | -- | -- | -- |
| **MW-4** | 8/5/2002 | -- | -- | 14.37 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-4** | 11/30/2002 | -- | -- | 14.37 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-4** | 2/24-25/2003 | -- | -- | 14.37 | 6.6 | -- | 7.77 | <50 | **200** | -- | **8** | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 6/2/2003 | -- | -- | 14.37 | 7.26 | -- | 7.11 | <50 | **300** | -- | **4** | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 9/2/2003 | -- | -- | 14.37 | 8.57 | -- | 5.8 | **51** | **410** | -- | **4** | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 11/21/2003 | -- | -- | -- | 10.24 | -- | -- | **110** | **560** | -- | **25** | **0.6** | **2** | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 2/27/2004 | -- | -- | -- | 5.71 | -- | -- | <50 | **340** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 5/28/2004 | -- | -- | -- | 7.88 | -- | -- | <50 | **430** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 8/31/2004 | -- | -- | -- | 9.03 | -- | -- | <50 | **460** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 12/17/2004 | -- | -- | -- | 7.67 | -- | -- | <50 | **390** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 3/28/2005 | -- | -- | -- | 5.32 | -- | -- | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 6/9/2005 | -- | -- | -- | 6.7 | -- | -- | **90** | **120** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 8/19/2005 | -- | -- | -- | 8.03 | -- | -- | **200** | **190** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 11/18/2005 | -- | -- | -- | 9.43 | -- | -- | **230** | **310** | -- | **3** | <0.5 | **0.8** | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 3/7/2006 | -- | -- | -- | 5.55 | -- | -- | <50 | **230** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 5/17/2006 | -- | -- | -- | 5.89 | -- | -- | <50 | **150** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 8/30/2006 | -- | -- | -- | 7.71 | -- | -- | **1,300** | **380** | -- | **47** | <2.5 | <2.5 | <7.5 | <50 | -- | -- | -- | -- |
| **MW-4** | 11/28/2006 | -- | -- | -- | 8.75 | -- | -- | **1,200** | **1,800** | -- | **36** | **1** | **3** | <5.0 | <20 | -- | -- | -- | -- |
| **MW-4** | 2/6/2007 | -- | -- | 16.98 | 8.4 | -- | 8.58 | **13,000** | **1,600** | -- | **3,700** | **60** | **880** | **170** | **210** | -- | -- | -- | -- |
| **MW-4** | 5/2/2007 | -- | -- | 16.98 | 7.45 | -- | 9.53 | **1,400** | **170** | -- | **170** | **0.6** | **0.9** | **2** | <50 | -- | -- | -- | -- |
| **MW-4** | 8/17/2007 | -- | -- | 16.98 | 8.63 | -- | 8.35 | **4,700** | **1,600** | -- | **870** | **4** | **49** | <10 | **30** | -- | -- | -- | -- |
| **MW-4** | 11/16/2007 | -- | -- | 16.98 | 8.78 | -- | 8.2 | **3,700** | **2,000** | -- | **780** | **6** | **100** | **8** | **25** | -- | -- | -- | -- |
| **MW-4** | 2/5/2008 | -- | -- | 16.98 | 6.23 | -- | 10.75 | **1,100** | **250** | -- | **270** | **2** | **63** | **8** | <50 | -- | -- | -- | -- |
| **MW-4** | 5/20/2008 | -- | -- | 16.98 | 8.07 | -- | 8.91 | **33** | **1,100** | -- | **720** | **4** | **13** | **15** | <50 | -- | -- | -- | -- |
| **MW-4** | 8/6/2008 | -- | -- | 16.98 | 8.89 | -- | 8.09 | **11,000** | **2,200** | -- | **2,700** | **33** | **460** | **87** | <100 | -- | -- | -- | -- |
| **MW-4** | 12/5/2008 | -- | -- | 16.98 | 9.52 | -- | 7.46 | **2,500** | **540** | -- | **380** | **1** | **22** | <5.0x | **11** | -- | -- | -- | -- |
| **MW-4** | 2/9/2009 | -- | -- | 16.98 | 9.01 | -- | 7.97 | **890** | **610** | -- | **6** | **0.5** | **3** | <1.5 | <5.0 | -- | -- | -- | -- |
| **MW-4** | 5/8/2009 | -- | -- | 16.98 | 7.18 | -- | 9.8 | **560** | **140** | -- | **29** | <0.5 | **1** | <1.5 | <5.0 | -- | -- | -- | -- |
| **MW-4** | 8/7/2009 | -- | -- | 16.98 | 8.88 | -- | 8.1 | **1,900** | **1,000** | -- | **260** | **1** | **7** | **3** | **8** | -- | -- | -- | -- |
| **MW-4** | 2/25/2010 | -- | -- | 16.98 | 6.61 | -- | 10.37 | **56** | **54** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |

**Table 5. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | Screen Interval (ft bTOC) | TOC (feet) | DTW (ft bTOC) | LNAPL thickness (feet) | GW Elev (feet) | TPH-g (µg/L) | TPH-d (µg/L) | TPH-d with Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Naphthalene (µg/L) | Carbon dioxide (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-4** | 9/3/2010 | -- | 15-May | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 210,000 |
| **MW-4** | 9/3/2010 | -- | 15-May | 16.98 | 8.63 | 0 | 8.35 | **310** | -- | **400** | <5.0 | <0.50 | **1.2** | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 2/3/2011 | -- | 15-May | 16.98 | 7.43 | 0 | 9.55 | **55** | -- | **160** | **1.6** | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | 75,000 |
| **MW-4** | 5/4/2011 | -- | 15-May | 16.98 | 6.32 | 0 | 10.66 | <50 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | 76,000 |
| **MW-4** | 8/4/2011 | -- | 15-May | 16.98 | 7.9 | 0 | 9.08 | **590** | -- | **940** | **110** | **9** | **10** | **4.6** | **4.4** | -- | -- | -- | 130,000 |
| **MW-4** | 2/29/2012 | -- | 15-May | 16.98 | 8.34 | 0 | 8.64 | **130** | -- | **270** / <50 | <0.50 | <0.50 | **0.6** | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 8/7/2012 | -- | 15-May | 16.98 | 8.67 | 0 | 8.31 | **400** | -- | **700 / 54** | **20** | <0.50 | **3.1** | <1.5 | **5.3** | -- | -- | -- | -- |
| **MW-4** | 2/18/2013 | -- | 15-May | 16.98 | 7.52 | 0 | 9.46 | **100** | -- | **600** / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 9/27/2013 | -- | 15-May | 16.98 | 9.57 | 0 | 7.41 | **370** | -- | 650 / <50 | **0.8** | **0.3** | **0.7** | <3.0 | <0.30 | -- | -- | -- | -- |
| **MW-4** | 1/31/2014 | -- | 15-May | 16.98 | 10.11 | 0 | 6.87 | **90** | -- | **6,600 / 3,200** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-4** | 8/18/2016 | -- | 15-May | 16.98 | 9.63 | 0 | 7.35 | **170** | -- | **1,100** | **3** | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- |
| **MW-4** | 2/7/2017 | -- | 15-May | 16.98 | 5.31 | 0 | 11.67 | <100 | -- | <100 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- |
| **MW-4** | 3/3/2018 | -- | 15-May | 16.98 | 8.41 | 0 | 8.57 | <100 | -- | <110 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- |
| **MW-4** | 8/14/2018 | -- | 15-May | 16.98 | 9.22 | 0 | 7.76 | **3,700** | -- | **350** | **730** | <0.10 | <0.05 | **2.1** | <0.08 | -- | -- | -- | -- |
| **MW-4** | 2/13/2019 | -- | 15-May | 16.98 | 6.42 | 0 | 10.56 | **110** | -- | <17 | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- |
| **MW-4** | 10/10/2019 | -- | 15-May | 16.98 | 9.55 | 0 | 7.43 | **210** | -- | **2,100** | **72** | <0.2 | **5** | <0.8 | <0.2 | -- | -- | -- | -- |
| **MW-4** | 3/31/2020 | -- | 15-May | 16.98 | 8.82 | 0 | 8.16 | **230** | -- | **190** | <1 | <1 | <1 | <3 | <1 | -- | -- | -- | -- |
| **MW-4** | 9/29/2020 | -- | 15-May | 16.98 | 10.32 | 0 | 6.66 | **614** | -- | **106** | <1 UB | <1 | <1 | <3 | <1 | -- | -- | -- | -- |
| **MW-4** | 4/26/2021 | -- | 4-14 | 17.08 | 9.59 | 0.00 | 7.49 | **220** | **1,500** | <100 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | -- | -- | -- |
| | | | | | | | | | | | | | | | | | | | |
| **MW-5** | 1/3/1997 | -- | -- | -- | -- | -- | -- | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- |
| **MW-5** | 2/20/1997 | -- | -- | 15.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **--** | -- | -- | -- | -- |
| **MW-5** | 4/24/1997 | -- | -- | 15.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **--** | -- | -- | -- | -- |
| **MW-5** | 4/30/1997 | -- | -- | 15.03 | 7.97 | -- | 7.06 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 7/23/1997 | -- | -- | 15.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-5** | 10/29/1997 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-5** | 1/28/1998 | -- | -- | 15.03 | 6.2 | -- | 8.83 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 5/11/1998 | -- | -- | 15.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-5** | 7/16/1998 | -- | -- | 15.03 | 7.75 | -- | 7.28 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | -- | -- | -- |
| **MW-5** | 8/4/1998 | -- | -- | 15.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-5** | 11/4/1998 | -- | -- | 15.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-5** | 1/26/1999 | -- | -- | 15.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-5** | 5/6/1999 | -- | -- | 15.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-5** | 8/21/1999 | -- | -- | 15.03 | 8.29 | -- | 6.74 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | -- | -- | -- |
| **MW-5** | 10/28/1999 | -- | -- | 15.03 | 10.43 | -- | 4.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-5** | 1/31/2000 | -- | -- | 15.03 | 7.64 | -- | 7.39 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 5/19/2000 | -- | -- | 15.03 | 7.18 | -- | 7.85 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-5** | 8/7/2000 | -- | -- | 15.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-5** | 12/1/2000 | -- | -- | 15.03 | 9.35 | -- | 5.68 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <0.500 | <2.50/<2.0 | -- | -- | -- | -- |
| **MW-5** | 2/9/2001 | -- | -- | 15.03 | 8.81 | -- | 6.22 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <0.50 | <2.5/<2.0 | -- | -- | -- | -- |
| **MW-5** | 5/29/2001 | -- | -- | 15.03 | -- | -- | -- | **--** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-5** | 8/27/2001 | -- | -- | 15.03 | -- | -- | -- | **--** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-5** | 11/28/2001 | -- | -- | 15.03 | -- | -- | -- | **--** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-5** | 2/14/2002 | -- | -- | 15.01 | 7.05 | -- | 7.96 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5/<2 | -- | -- | -- | -- |
| **MW-5** | 5/15/2002 | -- | -- | 15.01 | 7.78 | -- | 7.23 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5/<2 | -- | -- | -- | -- |
| **MW-5** | 8/5/2002 | -- | -- | 15.01 | 8.88 | -- | 6.13 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5/<2 | -- | -- | -- | -- |
| **MW-5** | 11/30/2002 | -- | -- | 15.01 | 9.74 | -- | 5.27 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5/<2 | -- | -- | -- | -- |
| **MW-5** | 2/24-25/2003 | -- | -- | 15.01 | 7.02 | -- | 7.99 | <50 | <50 | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 6/2/2003 | -- | -- | 15.01 | 7.87 | -- | 7.14 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 9/2/2003 | -- | -- | 15.01 | 8.99 | -- | 6.02 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 11/21/2003 | -- | -- | 15.01 | 9.75 | -- | 5.26 | <50 | **68** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 2/27/2004 | -- | -- | 15.01 | 6.59 | -- | 8.42 | <50 | **140** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 5/28/2004 | -- | -- | 15.01 | 8.3 | -- | 6.71 | <50 | **76** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 8/31/2004 | -- | -- | 15.01 | -- | -- | -- | -- | **--** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-5** | 12/17/2004 | -- | -- | 15.01 | 8.03 | -- | 6.98 | <50 | **52** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 3/28/2005 | -- | -- | 15.01 | 6.35 | -- | 8.66 | <50 | **51** | -- | <0.5 | **1** | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 6/9/2005 | -- | -- | 15.01 | 5.85 | -- | 9.16 | <50 | **72** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |

**Table 5. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | Screen Interval (ft bTOC) | TOC (feet) | DTW (ft bTOC) | LNAPL thickness (feet) | GW Elev (feet) | TPH-g (µg/L) | TPH-d (µg/L) | TPH-d with Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Naphthalene (µg/L) | Carbon dioxide (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-5** | 8/19/2005 | -- | -- | 15.01 | 8.49 | -- | 6.52 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 11/18/2005 | -- | -- | 15.01 | 8.49 | -- | 6.52 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 3/7/2006 | -- | -- | 15.01 | 6.03 | -- | 8.98 | <50 | <50 | -- | <0.5 | <0.5 | **1** | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 5/17/2006 | -- | -- | 15.01 | 6.18 | -- | 8.83 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 8/30/2006 | -- | -- | 15.01 | 8.15 | -- | 6.86 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 11/28/2006 | -- | -- | 15.01 | 8.55 | -- | 6.46 | <50 | **200** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 2/6/2007 | -- | -- | 17.68 | 8.85 | -- | 8.83 | <50 | **55** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 5/2/2007 | -- | -- | 17.68 | 7.77 | -- | 9.91 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 8/17/2007 | -- | -- | 17.68 | 9.05 | -- | 8.63 | <50 | **66** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 11/16/2007 | -- | -- | 17.68 | -- | -- | -- | -- | **--** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-5** | 2/5/2008 | -- | -- | 17.68 | -- | -- | -- | -- | **--** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-5** | 2/29/2008 | -- | -- | 17.68 | 6.8 | -- | 10.88 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 5/20/2008 | -- | -- | 17.68 | 8.47 | -- | 9.21 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 8/6/2008 | -- | -- | 17.68 | 9.39 | -- | 8.29 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 12/5/2008 | -- | -- | 17.68 | 10.05 | -- | 7.63 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 2/9/2009 | -- | -- | 17.68 | 9.47 | -- | 8.21 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 5/8/2009 | -- | -- | 17.68 | 7.52 | -- | 10.16 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 8/7/2009 | -- | -- | 17.68 | 9.35 | -- | 8.33 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 2/25/2010 | -- | -- | 17.68 | 6.92 | -- | 10.76 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 9/3/2010 | -- | 20-May | 17.68 | 9.28 | 0 | 8.4 | <50 | -- | **62** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 2/3/2011 | -- | 20-May | 17.68 | 7.83 | 0 | 9.85 | <50 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 5/4/2011 | -- | 20-May | 17.68 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-5** | 8/4/2011 | -- | 20-May | 17.68 | 8.38 | 0 | 9.3 | <50 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 2/29/2012 | -- | 20-May | 17.68 | 9.42 | 0 | 8.26 | <50 | -- | <50 / 53 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 8/7/2012 | -- | 20-May | 17.68 | 9.18 | 0 | 8.5 | <50 | -- | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 2/18/2013 | -- | 20-May | 17.68 | 7.91 | 0 | 9.77 | <50 | -- | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 9/27/2013 | -- | 20-May | 17.68 | 10.08 | 0 | 7.6 | <50 | -- | <50 / <50 | <0.20 | <0.20 | <0.20 | <0.6 | <0.30 | -- | -- | -- | -- |
| **MW-5** | 1/31/2014 | -- | 20-May | 17.68 | 11.32 | 0 | 6.36 | <50 | -- | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-5** | 8/18/2016 | -- | 20-May | 17.68 | 10.1 | 0 | 7.58 | <100 | -- | <100 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- |
| **MW-5** | 2/7/2017 | -- | 20-May | 17.68 | 5.82 | 0 | 11.86 | <100 | -- | <100 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- |
| **MW-5** | 3/3/2018 | -- | 20-May | 17.68 | 8.83 | 0 | 8.85 | <100 | -- | <110 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- |
| **MW-5** | 8/14/2018 | -- | 20-May | 17.68 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-5** | 2/13/2019 | -- | 20-May | 17.68 | 6.74 | 0 | 10.94 | **67 J** | -- | <17 | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- |
| **MW-5** | 10/10/2019 | -- | 20-May | 17.68 | 9.99 | 0 | 7.69 | <50 | -- | <17 | <0.2 | <0.2 | <0.2 | <0.8 | <0.2 | -- | -- | -- | -- |
| **MW-5** | 3/31/2020 | -- | 20-May | 17.68 | 9.27 | 0 | 8.41 | <100 | -- | <99 | <1 | <1 | <1 | <3 | <1 | -- | -- | -- | -- |
| **MW-5** | 9/29/2020 | -- | 20-May | 17.68 | 10.85 | 0 | 6.83 | <100 | -- | <100 | <1 UB | <1 | <1 | <3 | <1 | -- | -- | -- | -- |
| **MW-5** | 4/23/2021 | -- | 5-20 | 17.69 | 10.16 | 0.00 | 7.53 | <100 | <100 *1 | <100 *1 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | -- | -- | -- |
| | | | | | | | | | | | | | | | | | | | |
| **MW-6** | 1/3/1997 | -- | -- | -- | -- | -- | -- | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- |
| **MW-6** | 2/20/1997 | -- | -- | 14.73 | 6.62 | -- | 8.11 | **800** | -- | -- | **310** | **23** | **11** | **28** | <12 | -- | -- | -- | -- |
| **MW-6** | 4/24/1997 | -- | -- | 14.73 | 7.6 | -- | 7.13 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 7/23/1997 | -- | -- | 14.73 | 9 | -- | 5.73 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 10/29/1997 | -- | -- | 14.73 | 9.75 | -- | 4.98 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 1/28/1998 | -- | -- | 14.73 | 6.54 | -- | 8.19 | **160** | -- | -- | **38** | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 5/11/1998 | -- | -- | 14.73 | 6.65 | -- | 8.08 | **1,700** | -- | -- | **490** | **72** | **39** | **52** | <25 | -- | -- | -- | -- |
| **MW-6** | 7/16/1998 | -- | -- | 14.73 | 7.69 | -- | 7.04 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | -- | -- | -- |
| **MW-6** | 8/4/1998 | -- | -- | 14.73 | 7.84 | -- | 6.89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-6** | 9/3/1998 | -- | -- | 14.73 | 8.49 | -- | 6.24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-6** | 10/21/1998 | -- | -- | 14.73 | 9.27 | -- | 5.46 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-6** | 11/4/1998 | -- | -- | 14.73 | 9.21 | -- | 5.52 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 1/26/1999 | -- | -- | 14.73 | 8.24 | -- | 6.49 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.0 | -- | -- | -- | -- |
| **MW-6** | 5/6/1999 | -- | -- | 14.73 | 6.82 | -- | 7.91 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | -- | -- | -- |
| **MW-6** | 8/21/1999 | -- | -- | 14.73 | 6.8 | -- | 7.93 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | -- | -- | -- |
| **MW-6** | 10/28/1999 | -- | -- | 14.73 | 9.46 | -- | 5.27 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | -- | -- | -- |
| **MW-6** | 1/31/2000 | -- | -- | 14.73 | 7.57 | -- | 7.16 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 5/19/2000 | -- | -- | 14.73 | 7.13 | -- | 7.6 | <50 | -- | -- | **11** | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 8/7/2000 | -- | -- | 14.73 | 8.51 | -- | 6.22 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <0.50 | <2.5/<2.0 | -- | -- | -- | -- |

**Table 5. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | Screen Interval (ft bTOC) | TOC (feet) | DTW (ft bTOC) | LNAPL thickness (feet) | GW Elev (feet) | TPH-g (µg/L) | TPH-d (µg/L) | TPH-d with Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Naphthalene (µg/L) | Carbon dioxide (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-6** | 12/1/2000 | -- | -- | 14.73 | -- | -- | DRY | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-6** | 2/9/2001 | -- | -- | 14.73 | -- | -- | DRY | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-6** | 5/29/2001 | -- | -- | 14.73 | 8.1 | -- | 6.63 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-6** | 8/27/2001 | -- | -- | 14.73 | 4.9 | -- | 9.83 | **150** | -- | -- | <0.50 | **6** | <0.50 | <0.50 | <5.0 | -- | -- | -- | -- |
| **MW-6** | 11/28/2001 | -- | -- | 14.73 | -- | -- | DRY | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-6** | 2/14/2002 | -- | -- | 14.68 | 6.78 | -- | 7.9 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 5/15/2002 | -- | -- | 14.68 | 7.36 | -- | 7.32 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 8/5/2002 | -- | -- | 14.68 | -- | -- | DRY | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-6** | 11/30/2002 | -- | -- | 14.68 | -- | -- | DRY | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-6** | 2/24-25/2003 | -- | -- | 14.68 | 6.79 | -- | 7.89 | <50 | <50 | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 6/2/2003 | -- | -- | 14.68 | 7.48 | -- | 7.2 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 9/2/2003 | -- | -- | 14.68 | 8.91 | -- | 5.77 | <50 | **190** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 11/21/2003 | -- | -- | 14.68 | 9.82 | -- | 4.86 | <50 | **98** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 2/27/2004 | -- | -- | 14.68 | 6.56 | -- | 8.12 | <50 | **240** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 5/28/2004 | -- | -- | 14.68 | 8.25 | -- | 6.43 | <50 | **150** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 8/31/2004 | -- | -- | 14.68 | 9.39 | -- | 5.29 | <50 | **360** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 12/17/2004 | -- | -- | 14.68 | 7.83 | -- | 6.85 | <50 | **910** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 3/28/2005 | -- | -- | 14.68 | 6.34 | -- | 8.34 | <50 | **61** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 6/9/2005 | -- | -- | 14.68 | 3.73 | -- | 10.95 | <50 | **64** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 8/19/2005 | -- | -- | 14.68 | 8.41 | -- | 6.27 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 11/18/2005 | -- | -- | 14.68 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-6** | 3/7/2006 | -- | -- | 14.68 | 6.65 | -- | 8.03 | <50 | <50 | -- | <0.5 | <0.5 | **1** | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 5/17/2006 | -- | -- | 14.68 | 6.7 | -- | 7.98 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 8/30/2006 | -- | -- | 14.68 | 8.05 | -- | 6.63 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 11/28/2006 | -- | -- | 14.68 | 8.59 | -- | 6.09 | <50 | **120** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 2/6/2007 | -- | -- | 17.33 | 8.75 | -- | 8.58 | <50 | **96** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 5/2/2007 | -- | -- | 17.33 | 7.69 | -- | 9.64 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 8/17/2007 | -- | -- | 17.33 | 8.95 | -- | 8.38 | <50 | **66** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 11/16/2007 | -- | -- | 17.33 | 9.14 | -- | 8.19 | <50 | **250** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 2/5/2008 | -- | -- | 17.33 | 6.78 | -- | 10.55 | <50 | **120** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 5/20/2008 | -- | -- | 17.33 | 8.41 | -- | 8.92 | <50 | **70** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 8/6/2008 | -- | -- | 17.33 | 9.27 | -- | 8.06 | <50 | <160 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 12/5/2008 | -- | -- | 17.33 | 9.89 | -- | 7.44 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 2/9/2009 | -- | -- | 17.33 | 9.34 | -- | 7.99 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 5/8/2009 | -- | -- | 17.33 | 7.32 | -- | 10.01 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 8/7/2009 | -- | -- | 17.33 | 9.22 | -- | 8.11 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 2/25/2010 | -- | -- | 17.33 | 6.75 | -- | 10.58 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 9/3/2010 | -- | 20-May | 17.33 | 9.13 | 0 | 8.2 | <50 | -- | | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 2/3/2011 | -- | 20-May | 17.33 | 7.65 | 0 | 9.68 | <50 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 5/4/2011 | -- | 20-May | 17.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-6** | 8/4/2011 | -- | 20-May | 17.33 | 8.3 | 0 | 9.03 | <50 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 2/29/2012 | -- | 20-May | 17.33 | 9.3 | 0 | 8.03 | <50 | -- | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 8/7/2012 | -- | 20-May | 17.33 | 9.06 | 0 | 8.27 | <50 | -- | 74 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 2/18/2013 | -- | 20-May | 17.33 | 7.83 | 0 | 9.5 | <50 | -- | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 9/27/2013 | -- | 20-May | 17.33 | 9.88 | 0 | 7.45 | <50 | -- | <50 / <50 | <0.20 | <0.20 | <0.20 | <0.6 | <0.30 | -- | -- | -- | -- |
| **MW-6** | 1/31/2014 | -- | 20-May | 17.33 | 10.51 | 0 | 6.82 | <50 | -- | <160 / <160 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-6** | 8/18/2016 | -- | 20-May | 17.33 | 9.95 | 0 | 7.38 | <100 | -- | <110 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- |
| **MW-6** | 2/7/2017 | -- | 20-May | 17.33 | 6.68 | 0 | 10.65 | **95 J** | -- | <110 | **23** | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- |
| **MW-6** | 3/3/2018 | -- | 20-May | 17.33 | 8.7 | 0 | 8.63 | <100 | -- | <110 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- |
| **MW-6** | 8/14/2018 | -- | 20-May | 17.33 | 9.59 | 0 | 7.74 | <17 | -- | <50 | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- |
| **MW-6** | 2/13/2019 | -- | 20-May | 17.33 | 6.69 | 0 | 10.64 | **71 J** | -- | <17 | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- |
| **MW-6** | 10/10/2019 | -- | 20-May | 17.33 | 9.85 | 0 | 7.48 | **220** | -- | <17 | <0.2 | <0.2 | <0.2 | <0.8 | <0.2 | -- | -- | -- | -- |
| **MW-6** | 3/31/2020 | -- | 20-May | 17.33 | 9.1 | 0 | 8.23 | <100 | -- | **520** | <1 | <1 | <1 | <3 | <1 | -- | -- | -- | -- |
| **MW-6** | 9/29/2020 | -- | 20-May | 17.33 | 10.62 | 0 | 6.71 | <100 | -- | **197** | <1 UB | <1 | <1 | <3 | <1 | -- | -- | -- | -- |
| **MW-6** | 4/26/2021 | -- | 4-14 | 17.39 | 9.97 | 0.00 | 7.42 | <100 | <100 | <100 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | -- | -- | -- |
| | | | | | | | | | | | | | | | | | | | |
| **MW-7** | 1/3/1997 | -- | -- | -- | -- | -- | -- | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- |
| **MW-7** | 2/20/1997 | -- | -- | 16.36 | 7.5 | -- | 8.86 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 4/24/1997 | -- | -- | 16.36 | 8.77 | -- | 7.59 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 7/23/1997 | -- | -- | 16.36 | 10.27 | -- | 6.09 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |

**Table 5. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | Screen Interval (ft bTOC) | TOC (feet) | DTW (ft bTOC) | LNAPL thickness (feet) | GW Elev (feet) | TPH-g (µg/L) | TPH-d (µg/L) | TPH-d with Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Naphthalene (µg/L) | Carbon dioxide (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-7** | 10/29/1997 | -- | -- | 16.36 | 11.08 | -- | 5.28 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 1/28/1998 | -- | -- | 16.36 | 7.26 | -- | 9.1 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 5/11/1998 | -- | -- | 16.36 | 7.25 | -- | 9.11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-7** | 7/16/1998 | -- | -- | 16.36 | 8.36 | -- | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-7** | 8/4/1998 | -- | -- | 16.36 | 9.04 | -- | 7.32 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-7** | 9/3/1998 | -- | -- | 16.36 | 9.71 | -- | 6.65 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-7** | 10/21/1998 | -- | -- | 16.36 | 10.04 | -- | 6.32 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-7** | 11/4/1998 | -- | -- | 16.36 | 10.47 | -- | 5.89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-7** | 1/26/1999 | -- | -- | 16.36 | 8.11 | -- | 8.25 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | **0.5** | <2.0 | -- | -- | -- | -- |
| **MW-7** | 5/6/1999 | -- | -- | 16.36 | 7.89 | -- | 8.47 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-7** | 8/21/1999 | -- | -- | 16.36 | 7.85 | -- | 8.51 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-7** | 10/28/1999 | -- | -- | 16.36 | 10.32 | -- | 6.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-7** | 1/31/2000 | -- | -- | 16.36 | 8.79 | -- | 7.57 | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 5/19/2000 | -- | -- | 16.36 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-7** | 8/7/2000 | -- | -- | 16.36 | 9.69 | -- | 6.67 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <0.50 | <2.5/2.0 | -- | -- | -- | -- |
| **MW-7** | 12/1/2000 | -- | -- | 16.36 | 10.52 | -- | 5.84 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | -- | -- | -- | -- |
| **MW-7** | 2/9/2001 | -- | -- | 16.36 | 10.06 | -- | 6.3 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 5/29/2001 | -- | -- | 16.36 | -- | -- | -- | -- | -- | -- | | | | | | -- | -- | -- | -- |
| **MW-7** | 8/27/2001 | -- | -- | 16.36 | 10.34 | -- | 6.02 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | -- | -- | -- | -- |
| **MW-7** | 11/28/2001 | -- | -- | 16.36 | 10.27 | -- | 6.09 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 2/14/2002 | -- | -- | 16.31 | 8.1 | -- | 8.21 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 5/15/2002 | -- | -- | 16.31 | 8.9 | -- | 7.41 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 8/5/2002 | -- | -- | 16.31 | 10.05 | -- | 6.26 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 11/30/2002 | -- | -- | 16.31 | 10.92 | -- | 5.39 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 2/24/25/2003 | -- | -- | 16.31 | 8.01 | -- | 8.3 | <50 | <50 | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 6/2/2003 | -- | -- | 16.31 | 8.64 | -- | 7.67 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 9/2/2003 | -- | -- | 16.31 | 10.14 | -- | 6.17 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 11/21/2003 | -- | -- | 16.31 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-7** | 2/27/2004 | -- | -- | 16.31 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-7** | 5/28/2004 | -- | -- | -- | 9.4 | -- | -- | <50 | **91** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 8/31/2004 | -- | -- | -- | 10.61 | -- | -- | <50 | **150** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 12/17/2004 | -- | -- | -- | 9.16 | -- | -- | <50 | **170** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 3/28/2005 | -- | -- | -- | 7.21 | -- | -- | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 6/9/2005 | -- | -- | -- | 7.71 | -- | -- | **55** | **86** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 8/19/2005 | -- | -- | -- | 9.88 | -- | -- | <50 | **820** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 11/18/2005 | -- | -- | -- | 10.06 | -- | -- | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 3/7/2006 | -- | -- | -- | 6.95 | -- | -- | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 5/17/2006 | -- | -- | -- | 7.52 | -- | -- | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 8/30/2006 | -- | -- | -- | 10.73 | -- | -- | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 11/28/2006 | -- | -- | -- | 10.7 | -- | -- | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 2/6/2007 | -- | -- | 19.26 | 10.35 | -- | 8.91 | <50 | **73** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 5/2/2007 | -- | -- | 19.26 | 9.28 | -- | 9.98 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 8/17/2007 | -- | -- | 19.26 | 10.51 | -- | 8.75 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 11/16/2007 | -- | -- | 19.26 | 10.7 | -- | 8.56 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <l.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 2/5/2008 | -- | -- | 19.26 | 7.83 | -- | 11.43 | <50 | **100** | -- | <0.5 | <0.5 | <0.5 | <13 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 5/20/2008 | -- | -- | 19.26 | 9.94 | -- | 9.32 | <50 | **52** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 8/6/2008 | -- | -- | 19.26 | 10.85 | -- | 8.41 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 12/5/2008 | -- | -- | 19.26 | 11.55 | -- | 7.71 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 2/9/2009 | -- | -- | 19.26 | 11.03 | -- | 8.23 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 5/8/2009 | -- | -- | 19.26 | 9.03 | -- | 10.23 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 8/7/2009 | -- | -- | 19.26 | 10.86 | -- | 8.4 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 2/25/2010 | -- | -- | 19.26 | 8.42 | -- | 10.84 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 9/3/2010 | -- | 20-May | 19.26 | 10.74 | 0 | 8.52 | <50 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 2/3/2011 | -- | 20-May | 19.26 | 9.2 | 0 | 10.06 | <50 | -- | **220** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 5/4/2011 | -- | 20-May | 19.26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-7** | 8/4/2011 | -- | 20-May | 19.26 | 9.91 | 0 | 9.35 | <50 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 2/29/2012 | -- | 20-May | 19.26 | 10.9 | 0 | 8.36 | <50 | -- | 350 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 8/7/2012 | -- | 20-May | 19.26 | 10.67 | 0 | 8.59 | <50 | -- | **96 / 63** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 2/18/2013 | -- | 20-May | 19.26 | 9.31 | 0 | 9.95 | <50 | -- | **520 / 130** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-7** | 9/27/2013 | -- | 20-May | 19.26 | 11.57 | 0 | 7.69 | <50 | -- | **1,200 / 880** | <0.20 | <0.20 | <0.20 | <0.6 | <0.30 | -- | -- | -- | -- |
| **MW-7** | 1/31/2014 | -- | 20-May | 19.26 | 12.15 | 0 | 7.11 | <50 | -- | **2,900 / 1,100** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |

**Table 5. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | Screen Interval (ft bTOC) | TOC (feet) | DTW (ft bTOC) | LNAPL thickness (feet) | GW Elev (feet) | TPH-g (µg/L) | TPH-d (µg/L) | TPH-d with Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Naphthalene (µg/L) | Carbon dioxide (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-7** | 8/18/2016 | -- | 20-May | 19.26 | 11.75 | 0 | 7.51 | <100 | -- | <110 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- |
| **MW-7** | 2/7/2017 | -- | 20-May | 19.26 | 5.29 | 0 | 13.97 | <100 | -- | <100 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- |
| **MW-7** | 3/3/2018 | -- | 20-May | 19.26 | 10.36 | 0 | 8.9 | <100 | -- | <100 | <2.0 | **8.5** | <2.0 | <5.0 | <10 | -- | -- | -- | -- |
| **MW-7** | 8/14/2018 | -- | 20-May | 19.26 | 11.23 | 0 | 8.03 | <17 | -- | <50 | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- |
| **MW-7** | 2/13/2019 | -- | 20-May | 19.26 | 8.01 | 0 | 11.25 | **660** | -- | <17 | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- |
| **MW-7** | 10/10/2019 | -- | 20-May | 19.26 | 11.68 | 0 | 7.58 | **160** | -- | <17 | <0.2 | <0.2 | <0.2 | <0.8 | <0.2 | -- | -- | -- | -- |
| **MW-7** | 3/31/2020 | -- | 20-May | 19.26 | 10.85 | 0 | 8.41 | <100 | -- | <98 | <1 | <1 | <1 | <3 | <1 | -- | -- | -- | -- |
| **MW-7** | 9/29/2020 | -- | 20-May | 19.26 | 11.65 | 0 | 7.61 | <100 | -- | **201** | <1 UB | <1 | <1 | <3 | <1 | -- | -- | -- | -- |
| **MW-7** | 4/26/2021 | -- | 5-20 | 19.38 | 11.61 | 0.00 | 7.77 | <100 | **46 J** | <100 | <1.0 | **0.73 J** | <1.0 | <3.0 | <1.0 | -- | -- | -- | -- |
| | | | | | | | | | | | | | | | | | | | |
| **MW-8** | 2/14/2002 | -- | -- | 15.29 | 7.99 | -- | 7.3 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.51/2 | -- | -- | -- | -- |
| **MW-8** | 5/15/2002 | -- | -- | 15.29 | 8.63 | -- | 6.66 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 8/5/2002 | -- | -- | 15.29 | 9.81 | -- | 5.48 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 11/30/2002 | -- | -- | 15.29 | 10.44 | -- | 4.85 | <50 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 2/24-25/2003 | -- | -- | 15.29 | 7.83 | -- | 7.46 | <50 | <50 | -- | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 6/2/2003 | -- | -- | 15.29 | 8.46 | -- | 6.83 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 9/2/2003 | -- | -- | 15.29 | 9.72 | -- | 5.57 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 11/21/2003 | -- | -- | 15.29 | 10.4 | -- | 4.89 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 2/27/2004 | -- | -- | 15.29 | 6.91 | -- | 8.38 | <50 | **280** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 5/28/2004 | -- | -- | 15.29 | 8.96 | -- | 6.33 | <50 | **72** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 8/31/2004 | -- | -- | 15.29 | 10.5 | -- | 4.79 | <50 | **92m** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 12/17/2004 | -- | -- | 15.29 | 8.61 | -- | 6.68 | <50 | **53** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 3/28/2005 | -- | -- | 15.29 | 6.5 | -- | 8.79 | <50 | <50 | -- | <0.5 | 0.9 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 6/9/2005 | -- | -- | 15.29 | 7.03 | -- | 8.26 | <50 | **63** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 8/19/2005 | -- | -- | 15.29 | 9.11 | -- | 6.18 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 11/18/2005 | -- | -- | 15.29 | 9.82 | -- | 5.47 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 3/7/2006 | -- | -- | 15.29 | 6.69 | -- | 8.6 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 5/17/2006 | -- | -- | 15.29 | 7.08 | -- | 8.21 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 8/30/2006 | -- | -- | 15.29 | 8.72 | -- | 6.57 | <50 | <500 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 11/28/2006 | -- | -- | 15.29 | 8.91 | -- | 6.38 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 2/6/2007 | -- | -- | 17.79 | 9.4 | -- | 8.39 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 5/2/2007 | -- | -- | 17.79 | 8.46 | -- | 9.33 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 8/17/2007 | -- | -- | 17.79 | 9.61 | -- | 8.18 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 11/16/2007 | -- | -- | 17.79 | 9.75 | -- | 8.04 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 2/5/2008 | -- | -- | 17.79 | 7.35 | -- | 10.44 | <50 | **120** | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 5/20/2008 | -- | -- | 17.79 | 9.1 | -- | 8.69 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 8/6/2008 | -- | -- | 17.79 | 9.9 | -- | 7.89 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 12/5/2008 | -- | -- | 17.79 | 10.49 | -- | 7.3 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 2/9/2009 | -- | -- | 17.79 | 9.93 | -- | 7.86 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 5/8/2009 | -- | -- | 17.79 | 8.19 | -- | 9.6 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 8/7/2009 | -- | -- | 17.79 | 9.84 | -- | 7.95 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 2/25/2010 | -- | -- | 17.79 | 7.52 | -- | 10.27 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 9/3/2010 | -- | 5-18.5 | 17.79 | 9.75 | 0 | 8.04 | <50 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 2/3/2011 | -- | 5-18.5 | 17.79 | 8.46 | 0 | 9.33 | <50 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 5/4/2011 | -- | 5-18.5 | 17.79 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-8** | 8/4/2011 | -- | 5-18.5 | 17.79 | 8.98 | 0 | 8.81 | <50 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 2/29/2012 | -- | 5-18.5 | 17.79 | 9.9 | 0 | 7.89 | <50 | -- | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 8/7/2012 | -- | 5-18.5 | 17.79 | 9.71 | 0 | 8.08 | <50 | -- | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 2/18/2013 | -- | 5-18.5 | 17.79 | 8.58 | 0 | 9.21 | <50 | -- | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **MW-8** | 9/27/2013 | -- | 5-18.5 | 17.79 | 10.48 | 0 | 7.31 | <50 | -- | 88 / <50 | <0.20 | <0.20 | <0.20 | <0.6 | <0.30 | -- | -- | -- | -- |
| **MW-8** | 1/31/2014 | -- | 5-18.5 | 17.79 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-8** | 8/18/2016 | -- | 5-18.5 | 17.79 | 10.54 | 0 | 7.25 | <100 | -- | <100 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- |
| **MW-8** | 2/7/2017 | -- | 5-18.5 | 17.79 | 6.63 | 0 | 11.16 | <100 | -- | <100 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- |
| **MW-8** | 3/3/2018 | -- | 5-18.5 | 17.79 | 9.28 | 0 | 8.51 | <100 | -- | <110 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- |
| **MW-8** | 8/14/2018 | -- | 5-18.5 | 17.79 | 10.2 | 0 | 7.59 | <17 | -- | <50 | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- |
| **MW-8** | 2/13/2019 | -- | 5-18.5 | 17.79 | 7.4 | 0 | 10.39 | **74 J** | -- | <17 | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- |
| **MW-8** | 10/10/2019 | -- | 5-18.5 | 17.79 | 10.43 | 0 | 7.36 | <50 | -- | <17 | <0.2 | <0.2 | <0.2 | <0.8 | <0.2 | -- | -- | -- | -- |
| **MW-8** | 3/31/2020 | -- | 5-18.5 | 17.79 | 9.7 | 0 | 8.09 | <100 | -- | <98 | <1 | <1 | <1 | <3 | <1 | -- | -- | -- | -- |
| **MW-8** | 9/29/2020 | -- | 5-18.5 | 17.79 | 11.18 | 0 | 6.61 | <100 | -- | **31.8 J** | <1 UB | <1 | <1 | <3 | <1 | -- | -- | -- | -- |
| **MW-8** | 4/23/2021 | -- | 5-18.5 | 17.86 | 10.51 | 0.00 | 7.35 | <100 | **45 J *1** | <100 *1 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | -- | -- | -- |

**Table 5. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | Screen Interval (ft bTOC) | TOC (feet) | DTW (ft bTOC) | LNAPL thickness (feet) | GW Elev (feet) | TPH-g (µg/L) | TPH-d (µg/L) | TPH-d with Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Naphthalene (µg/L) | Carbon dioxide (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-9** | 4/20/2007 | -- | -- | 18.42 | 8.03 | -- | 10.39 | **4,100** | **1,100** | -- | **28** | **7** | **9** | **240** | -- | -- | -- | -- | -- |
| **MW-9** | 6/22/2007 | -- | -- | 18.42 | 9.6 | -- | 8.82 | **500** | **310** | -- | **4** | <0.5 | <0.5 | **12** | -- | -- | -- | -- | -- |
| **MW-9** | 8/17/2007 | -- | -- | 18.42 | 9.75 | -- | 8.67 | <50 | **92** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-9** | 11/16/2007 | -- | -- | 18.42 | 10.02 | -- | 8.4 | **92** | **470** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-9** | 2/5/2008 | -- | -- | 18.42 | 7.34 | -- | 11.08 | <50 | **390** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-9** | 5/20/2008 | -- | -- | 18.42 | 9.26 | -- | 9.16 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-9** | 8/6/2008 | -- | -- | 18.42 | 10.11 | -- | 8.31 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-9** | 12/5/2008 | -- | -- | 18.42 | 10.78 | -- | 7.64 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-9** | 2/9/2009 | -- | -- | 18.42 | 10.27 | -- | 8.15 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-9** | 5/8/2009 | -- | -- | 18.42 | 8.31 | -- | 10.11 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-9** | 8/7/2009 | -- | -- | 18.42 | 10.09 | -- | 8.33 | -- |  | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-9** | 2/25/2010 | -- | -- | 18.42 | 7.72 | -- | 10.7 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-9** | 9/3/2010 | -- | 35-40 | 18.42 | 10.01 | 0 | 8.41 | <50 | -- | **95** | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- |
| **MW-9** | 2/3/2011 | -- | 35-40 | 18.42 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-9** | 5/4/2011 | -- | 35-40 | 18.42 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-9** | 8/4/2011 | -- | 35-40 | 18.42 | 9.13 | 0 | 9.29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-9** | 2/29/2012 | -- | 35-40 | 18.42 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-9** | 8/7/2012 | -- | 35-40 | 18.42 | 9.98 | 0 | 8.44 | <50 | -- | 61 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- |
| **MW-9** | 2/18/2013 | -- | 35-40 | 18.42 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-9** | 9/27/2013 | -- | 35-40 | 18.42 | 10.78 | 0 | 7.64 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-9** | 1/31/2014 | -- | 35-40 | 18.42 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-9** | 8/18/2016 | -- | 35-40 | 18.42 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-9** | 2/7/2017 | -- | 35-40 | 18.42 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-9** | 4/26/2021 | -- | 35-40 | 18.53 | 11.74 | 0.00 | 6.79 | <100 | <100 | <100 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | -- | -- | -- |
| **MW-10** | 4/20/2007 | -- | -- | 17.99 | 9.64 | -- | 8.35 | **1,200** | **260** | -- | **29** | **31** | **11** | **140** | -- | -- | -- | -- | -- |
| **MW-10** | 6/22/2007 | -- | -- | 17.99 | 9.7 | -- | 8.29 | <50 | **110** | -- | **2** | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-10** | 8/17/2007 | -- | -- | 17.99 | 10.18 | -- | 7.81 | <50 | **53** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-10** | 11/16/2007 | -- | -- | 17.99 | 11.09 | -- | 6.9 | <50 | **140** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-10** | 2/5/2008 | -- | -- | 17.99 | 8.34 | -- | 9.65 | <50 | **330** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-10** | 5/20/2008 | -- | -- | 17.99 | 9.71 | -- | 8.28 | <50 | **120** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-10** | 8/6/2008 | -- | -- | 17.99 | 10.49 | -- | 7.5 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-10** | 12/5/2008 | -- | -- | 17.99 | 11.32 | -- | 6.67 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-10** | 2/9/2009 | -- | -- | 17.99 | 10.8 | -- | 7.19 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-10** | 5/8/2009 | -- | -- | 17.99 | 9.03 | -- | 8.96 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-10** | 8/7/2009 | -- | -- | 17.99 | 10.58 | -- | 7.41 | -- | -- | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-10** | 2/25/2010 | -- | -- | 17.99 | 8.88 | -- | 9.11 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-10** | 9/3/2010 | -- | 55-60 | 17.99 | 10.35 | 0 | 7.64 | <50 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- |
| **MW-10** | 2/3/2011 | -- | 55-60 | 17.99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-10** | 5/4/2011 | -- | 55-60 | 17.99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-10** | 8/4/2011 | -- | 55-60 | 17.99 | 10.6 | 0 | 7.39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-10** | 2/29/2012 | -- | 55-60 | 17.99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-10** | 8/7/2012 | -- | 55-60 | 17.99 | 10.14 | 0 | 7.85 | <50 | -- | 59 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- |
| **MW-10** | 2/18/2013 | -- | 55-60 | 17.99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-10** | 9/27/2013 | -- | 55-60 | 17.99 | 11.22 | 0 | 6.77 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-10** | 1/31/2014 | -- | 55-60 | 17.99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-10** | 8/18/2016 | -- | 55-60 | 17.99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-10** | 2/7/2017 | -- | 55-60 | 17.99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-10** | 4/26/2021 | -- | 55-60 | 18.10 | 10.89 | 0.00 | 7.21 | <100 | **340** | **140** | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | -- | -- | -- |
| **MW-11** | 4/20/2007 | -- | -- | 18.68 | 8.8 | -- | 9.88 | **77** | **350** | -- | <2.0 | **5** | <0.5 | **3** | -- | -- | -- | -- | -- |
| **MW-11** | 6/22/2007 | -- | -- | 18.68 | 9.33 | -- | 9.35 | **51** | **140** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-11** | 8/17/2007 | -- | -- | 18.68 | 10.02 | -- | 8.66 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-11** | 11/16/2007 | -- | -- | 18.68 | 10.21 | -- | 8.47 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-11** | 2/5/2008 | -- | -- | 18.68 | 7.58 | -- | 11.1 | <50 | **84** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-11** | 5/20/2008 | -- | -- | 18.68 | 9.48 | -- | 9.2 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-11** | 8/6/2008 | -- | -- | 18.68 | 10.31 | -- | 8.37 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-11** | 12/5/2008 | -- | -- | 18.68 | 11.05 | -- | 7.63 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-11** | 2/9/2009 | -- | -- | 18.68 | 10.51 | -- | 8.17 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-11** | 5/8/2009 | -- | -- | 18.68 | 8.56 | -- | 10.12 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-11** | 8/7/2009 | -- | -- | 18.68 | 10.34 | -- | 8.34 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Table 5. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | Screen Interval (ft bTOC) | TOC (feet) | DTW (ft bTOC) | LNAPL thickness (feet) | GW Elev (feet) | TPH-g (µg/L) | TPH-d (µg/L) | TPH-d with Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Naphthalene (µg/L) | Carbon dioxide (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-11** | 2/25/2010 | -- | -- | 18.68 | 7.98 | -- | 10.7 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-11** | 9/3/2010 | -- | 35-40 | 18.68 | 10.21 | 0 | 8.47 | <50 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- |
| **MW-11** | 2/3/2011 | -- | 35-40 | 18.68 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-11** | 5/4/2011 | -- | 35-40 | 18.68 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-11** | 8/4/2011 | -- | 35-40 | 18.68 | 9.35 | 0 | 9.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-11** | 2/29/2012 | -- | 35-40 | 18.68 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-11** | 8/7/2012 | -- | 35-40 | 18.68 | 10.15 | 0 | 8.53 | <50 | -- | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- |
| **MW-11** | 2/18/2013 | -- | 35-40 | 18.68 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-11** | 9/27/2013 | -- | 35-40 | 18.68 | 11 | 0 | 7.68 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-11** | 1/31/2014 | -- | 35-40 | 18.68 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-11** | 8/18/2016 | -- | 35-40 | 18.68 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-11** | 2/7/2017 | -- | 35-40 | 18.68 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-11** | 4/26/2021 | -- | 35-40 | 18.77 | 11.49 | 0.00 | 7.28 | <100 | **230** | **98 J** | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | -- | -- | -- |
| | | | | | | | | | | | | | | | | | | | |
| **MW-12** | 4/20/2007 | -- | -- | 18.46 | 5.58 | -- | 12.88 | **400** | **430** | -- | **2** | **40** | **14** | **49** | -- | -- | -- | -- | -- |
| **MW-12** | 6/22/2007 | -- | -- | 18.46 | 10.71 | -- | 7.75 | <50 | **390** | -- | **1** | **1** | <0.5 | **4** | -- | -- | -- | -- | -- |
| **MW-12** | 8/17/2007 | -- | -- | 18.46 | 10.55 | -- | 7.91 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-12** | 11/16/2007 | -- | -- | 18.46 | 11.5 | -- | 6.96 | <50 | **200** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-12** | 2/5/2008 | -- | -- | 18.46 | 9.84 | -- | 8.62 | **51** | **200** | -- | **1** | <0.5 | <0.5 | <l.5 | -- | -- | -- | -- | -- |
| **MW-12** | 2/5/2008 | -- | -- | 18.46 | 9.66 | -- | 8.8 | <50 | **66** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-12** | 8/6/2008 | -- | -- | 18.46 | 12.06 | -- | 6.4 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-12** | 12/5/2008 | -- | -- | 18.46 | 12.26 | -- | 6.2 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-12** | 2/9/2009 | -- | -- | 18.46 | 11.93 | -- | 6.53 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-12** | 5/8/2009 | -- | -- | 18.46 | 9.82 | -- | 8.64 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-12** | 8/7/2009 | -- | -- | 18.46 | 12.05 | -- | 6.41 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-12** | 2/25/2010 | -- | -- | 18.46 | 10.38 | -- | 8.08 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-12** | 9/3/2010 | -- | 55-60 | 18.46 | 11.05 | 0 | 7.41 | <50 | -- | **65** | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- |
| **MW-12** | 2/3/2011 | -- | 55-60 | 18.46 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-12** | 5/4/2011 | -- | 55-60 | 18.46 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-12** | 8/4/2011 | -- | 55-60 | 18.46 | 9.63 | 0 | 8.83 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-12** | 2/29/2012 | -- | 55-60 | 18.46 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-12** | 8/7/2012 | -- | 55-60 | 18.46 | 10.68 | 0 | 7.78 | <50 | -- | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- |
| **MW-12** | 2/18/2013 | -- | 55-60 | 18.46 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-12** | 9/27/2013 | -- | 55-60 | 18.46 | 11.56 | 0 | 6.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-12** | 1/31/2014 | -- | 55-60 | 18.46 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-12** | 8/18/2016 | -- | 55-60 | 18.46 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-12** | 2/7/2017 | -- | 55-60 | 18.46 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-12** | 4/26/2021 | -- | 55-60 | 18.59 | 11.41 | 0.00 | 7.18 | <100 | **160** | <100 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | -- | -- | -- |
| | | | | | | | | | | | | | | | | | | | |
| **MW-13** | 4/20/2007 | -- | -- | 18.43 | 8.97 | -- | 9.46 | **650** | **140** | -- | **16** | **23** | **8** | **61** | -- | -- | -- | -- | -- |
| **MW-13** | 6/22/2007 | -- | -- | 18.43 | 9.44 | -- | 8.99 | <50 | **400** | -- | **1** | **1** | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-13** | 8/17/2007 | -- | -- | 18.43 | 9.9 | -- | 8.53 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-13** | 11/16/2007 | -- | -- | 18.43 | 10.06 | -- | 8.37 | <50 | **350** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-13** | 2/5/2008 | -- | -- | 18.43 | 7.58 | -- | 10.85 | <50 | **57** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-13** | 5/20/2008 | -- | -- | 18.43 | 9.44 | -- | 8.99 | <50 | **100** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-13** | 8/6/2008 | -- | -- | 18.43 | 10.25 | -- | 8.18 | <50 | **78** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-13** | 12/5/2008 | -- | -- | 18.43 | 10.9 | -- | 7.53 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-13** | 2/9/2009 | -- | -- | 18.43 | 10.43 | -- | 8 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-13** | 5/8/2009 | -- | -- | 18.43 | 8.5 | -- | 9.93 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-13** | 8/7/2009 | -- | -- | 18.43 | 10.23 | -- | 8.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-13** | 2/25/2010 | -- | -- | 18.43 | 7.92 | -- | 10.51 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-13** | 9/3/2010 | -- | 35-40 | 18.43 | 10.09 | 0 | 8.34 | <50 | -- | **58** | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- |
| **MW-13** | 2/3/2011 | -- | 35-40 | 18.43 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-13** | 5/4/2011 | -- | 35-40 | 18.43 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-13** | 8/4/2011 | -- | 35-40 | 18.43 | 9.27 | 0 | 9.16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-13** | 2/29/2012 | -- | 35-40 | 18.43 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-13** | 8/7/2012 | -- | 35-40 | 18.43 | 10.03 | 0 | 8.4 | <50 | -- | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- |
| **MW-13** | 2/18/2013 | -- | 35-40 | 18.43 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-13** | 9/27/2013 | -- | 35-40 | 18.43 | 10.87 | 0 | 7.56 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-13** | 1/31/2014 | -- | 35-40 | 18.43 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-13** | 8/18/2016 | -- | 35-40 | 18.43 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Table 5. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | Screen Interval (ft bTOC) | TOC (feet) | DTW (ft bTOC) | LNAPL thickness (feet) | GW Elev (feet) | TPH-g (µg/L) | TPH-d (µg/L) | TPH-d with Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Naphthalene (µg/L) | Carbon dioxide (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-13** | 2/7/2017 | -- | 35-40 | 18.43 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-13** | 4/26/2021 | -- | 35-40 | 18.55 | 11.01 | 0.00 | 7.54 | <100 | **64 J** | <100 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | -- | -- | -- |
| | | | | | | | | | | | | | | | | | | | |
| **MW-14** | 4/20/2007 | -- | -- | 18.59 | 10.42 | -- | 8.17 | **16,000** | **2,000** | -- | **550** | **1,600** | **620** | **2,400** | -- | -- | -- | -- | -- |
| **MW-14** | 6/22/2007 | -- | -- | 18.59 | 11.04 | -- | 7.55 | **3,700** | **1,300** | -- | **190** | **150** | **49** | **580** | -- | -- | -- | -- | -- |
| **MW-14** | 8/17/2007 | -- | -- | 18.59 | 10.77 | -- | 7.82 | **2,600** | **780** | -- | **74** | **54** | **11** | **220** | -- | -- | -- | -- | -- |
| **MW-14** | 11/16/2007 | -- | -- | 18.59 | 11.01 | -- | 7.58 | **850** | **690** | -- | **45** | **4** | **14** | **32** | -- | -- | -- | -- | -- |
| **MW-14** | 2/5/2008 | -- | -- | 18.59 | 9.6 | -- | 8.99 | **450** | **160** | -- | **16** | **3** | **8** | **3** | -- | -- | -- | -- | -- |
| **MW-14** | 5/20/2008 | -- | -- | 18.59 | 10.9 | -- | 7.69 | <50 | **120** | -- | **0.7** | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-14** | 8/6/2008 | -- | -- | 18.59 | 11.24 | -- | 7.35 | <50 | **88** | -- | **0.9** | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-14** | 12/5/2008 | -- | -- | 18.59 | 11.76 | -- | 6.83 | **100** | <50 | -- | **2** | **0.5** | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-14** | 2/9/2009 | -- | -- | 18.59 | 11.48 | -- | 7.11 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-14** | 5/8/2009 | -- | -- | 18.59 | 10.58 | -- | 8.01 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-14** | 8/7/2009 | -- | -- | 18.59 | 11.11 | -- | 7.48 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-14** | 2/25/2010 | -- | -- | 18.59 | 9.87 | -- | 8.72 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-14** | 9/3/2010 | -- | 55-60 | 18.59 | 11.52 | 0 | 7.07 | <50 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- |
| **MW-14** | 2/3/2011 | -- | 55-60 | 18.59 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-14** | 5/4/2011 | -- | 55-60 | 18.59 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-14** | 8/4/2011 | -- | 55-60 | 18.59 | 9.99 | 0 | 8.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-14** | 2/29/2012 | -- | 55-60 | 18.59 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-14** | 8/7/2012 | -- | 55-60 | 18.59 | 10.79 | 0 | 7.8 | <50 | -- | 61 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- |
| **MW-14** | 2/18/2013 | -- | 55-60 | 18.59 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-14** | 9/27/2013 | -- | 55-60 | 18.59 | 11.76 | 0 | 6.83 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-14** | 1/31/2014 | -- | 55-60 | 18.59 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-14** | 8/18/2016 | -- | 55-60 | 18.59 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-14** | 2/7/2017 | -- | 55-60 | 18.59 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-14** | 4/26/2021 | -- | 55-60 | 18.71 | 19.29 | 0.00 | **-0.58** | <100 | **230** | **77 J** | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | -- | -- | -- |
| | | | | | | | | | | | | | | | | | | | |
| **MW-15** | 4/20/2007 | -- | -- | 18.38 | 8.6 | -- | 9.78 | **240** | **720** | -- | **1** | **1** | <0.5 | **20** | -- | -- | -- | -- | -- |
| **MW-15** | 6/22/2007 | -- | -- | 18.38 | 9.29 | -- | 9.09 | <50 | **150** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-15** | 8/17/2007 | -- | -- | 18.38 | 9.73 | -- | 8.65 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-15** | 11/16/2007 | -- | -- | 18.38 | 9.97 | -- | 8.41 | <50 | **140** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-15** | 2/5/2008 | -- | -- | 18.38 | 7.41 | -- | 10.97 | <50 | **52** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-15** | 5/20/2008 | -- | -- | 18.38 | 9.26 | -- | 9.12 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-15** | 8/6/2008 | -- | -- | 18.38 | 10.08 | -- | 8.3 | <50 | **190** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-15** | 12/5/2008 | -- | -- | 18.38 | 10.8 | -- | 7.58 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-15** | 2/9/2009 | -- | -- | 18.38 | 10.26 | -- | 8.12 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-15** | 5/8/2009 | -- | -- | 18.38 | 8.36 | -- | 10.02 | **53** | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-15** | 8/7/2009 | -- | -- | 18.38 | 10.08 | -- | 8.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-15** | 2/25/2010 | -- | -- | 18.38 | 7.77 | -- | 10.61 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-15** | 9/3/2010 | -- | 35-40 | 18.38 | 9.95 | 0 | 8.43 | <50 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- |
| **MW-15** | 2/3/2011 | -- | 35-40 | 18.38 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-15** | 5/4/2011 | -- | 35-40 | 18.38 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-15** | 8/4/2011 | -- | 35-40 | 18.38 | 9.13 | 0 | 9.25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-15** | 2/29/2012 | -- | 35-40 | 18.38 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-15** | 8/7/2012 | -- | 35-40 | 18.38 | 9.91 | 0 | 8.47 | <50 | -- | <50 / 100 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- |
| **MW-15** | 2/18/2013 | -- | 35-40 | 18.38 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-15** | 9/27/2013 | -- | 35-40 | 18.38 | 10.72 | 0 | 7.66 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-15** | 1/31/2014 | -- | 35-40 | 18.38 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-15** | 8/18/2016 | -- | 35-40 | 18.38 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-15** | 2/7/2017 | -- | 35-40 | 18.38 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-15** | 4/26/2021 | -- | 35-40 | 18.47 | 10.91 | 0.00 | 7.56 | <100 | <100 | <100 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | -- | -- | -- |
| | | | | | | | | | | | | | | | | | | | |
| **MW-16** | 4/20/2007 | -- | -- | 18.57 | 9.82 | -- | 8.75 | **15,000** | **2,200** | -- | **87** | **1,200** | **500** | **2,000** | -- | -- | -- | -- | -- |
| **MW-16** | 6/22/2007 | -- | -- | 18.57 | 10.37 | -- | 8.2 | **10,000** | **2,100** | -- | **130** | **1,800** | **580** | **1,400** | -- | -- | -- | -- | -- |
| **MW-16** | 8/17/2007 | -- | -- | 18.57 | 10.76 | -- | 7.81 | **8,200** | **640** | -- | **110** | **1,400** | **280** | **730** | -- | -- | -- | -- | -- |
| **MW-16** | 11/16/2007 | -- | -- | 18.57 | 11.03 | -- | 7.54 | **1,600** | **370** | -- | **22** | **270** | **60** | **160** | -- | -- | -- | -- | -- |
| **MW-16** | 2/5/2008 | -- | -- | 18.57 | 8.83 | -- | 9.74 | **930** | **350** | -- | **3** | **15** | **9** | **18** | -- | -- | -- | -- | -- |
| **MW-16** | 5/20/2008 | -- | -- | 18.57 | 10.31 | -- | 8.26 | <50 | **79** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-16** | 8/6/2008 | -- | -- | 18.57 | 11.08 | -- | 7.49 | <50 | **74** | -- | <0.5 | <0.5 | **0.6** | <1.5 | -- | -- | -- | -- | -- |
| **MW-16** | 12/5/2008 | -- | -- | 18.57 | 11.77 | -- | 6.8 | <50 | **89** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |

**Table 5. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | Screen Interval (ft bTOC) | TOC (feet) | DTW (ft bTOC) | LNAPL thickness (feet) | GW Elev (feet) | TPH-g (µg/L) | TPH-d (µg/L) | TPH-d with Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Naphthalene (µg/L) | Carbon dioxide (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-16** | 2/9/2009 | -- | -- | 18.57 | 11.39 | -- | 7.18 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-16** | 5/8/2009 | -- | -- | 18.57 | 9.65 | -- | 8.92 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-16** | 8/7/2009 | -- | -- | 18.57 | 11.05 | -- | 7.52 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-16** | 2/25/2010 | -- | -- | 18.57 | 9.21 | -- | 9.36 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-16** | 9/3/2010 | -- | 55-60 | 18.57 | 10.95 | 0 | 7.62 | <50 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- |
| **MW-16** | 2/3/2011 | -- | 55-60 | 18.57 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-16** | 5/4/2011 | -- | 55-60 | 18.57 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-16** | 8/4/2011 | -- | 55-60 | 18.57 | 10.13 | 0 | 8.44 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-16** | 2/29/2012 | -- | 55-60 | 18.57 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-16** | 8/7/2012 | -- | 55-60 | 18.57 | 10.83 | 0 | 7.74 | <50 | -- | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- |
| **MW-16** | 2/18/2013 | -- | 55-60 | 18.57 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-16** | 9/27/2013 | -- | 55-60 | 18.57 | 11.69 | 0 | 6.88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-16** | 1/31/2014 | -- | 55-60 | 18.57 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-16** | 8/18/2016 | -- | 55-60 | 18.57 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-16** | 2/7/2017 | -- | 55-60 | 18.57 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-16** | 4/27/2021 | -- | 55-60 | 18.72 | 11.60 | 0.00 | 7.12 | <100 | **130** | <100 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | -- | -- | -- |
| | | | | | | | | | | | | | | | | | | | |
| **MW-17** | 4/20/2007 | -- | -- | 18.55 | 19.5 | -- | -0.95 | **7,400** | **1,300** | -- | **66** | **880** | **300** | **1,300** | -- | -- | -- | -- | -- |
| **MW-17** | 6/22/2007 | -- | -- | 18.55 | 10.34 | -- | 8.21 | **2,000** | **690** | -- | **35** | **27** | **9** | **360** | -- | -- | -- | -- | -- |
| **MW-17** | 8/17/2007 | -- | -- | 18.55 | 16.22 | -- | 2.33 | **380** | **240** | -- | **7** | **2** | **0.5** | **15** | -- | -- | -- | -- | -- |
| **MW-17** | 11/16/2007 | -- | -- | 18.55 | 15.33 | -- | 3.22 | **190** | **270** | -- | **4** | **4** | **2** | **27** | -- | -- | -- | -- | -- |
| **MW-17** | 2/5/2008 | -- | -- | 18.55 | 13.61 | -- | 4.94 | **1,000** | **460** | -- | **16** | **26** | **49** | **60** | -- | -- | -- | -- | -- |
| **MW-17** | 5/20/2008 | -- | -- | 18.55 | 10.26 | -- | 8.29 | <50 | **89** | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-17** | 8/6/2008 | -- | -- | 18.55 | 12.73 | -- | 5.82 | **180** | **150** | -- | **3** | **2** | **3** | **2** | -- | -- | -- | -- | -- |
| **MW-17** | 12/5/2008 | -- | -- | 18.55 | 11.93 | -- | 6.62 | **360** | **120** | -- | **3** | <2.0 | **0.7** | <1.5 | -- | -- | -- | -- | -- |
| **MW-17** | 2/9/2009 | -- | -- | 18.55 | 11.87 | -- | 6.68 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-17** | 5/8/2009 | -- | -- | 18.55 | 9.76 | -- | 8.79 | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-17** | 8/7/2009 | -- | -- | 18.55 | 11.04 | -- | 7.51 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-17** | 2/25/2010 | -- | -- | 18.55 | 9.63 | -- | 8.92 | <50 | <50 | | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| **MW-17** | 9/3/2010 | -- | 70-75 | 18.55 | 10.81 | 0 | 7.74 | <50 | -- | **67** | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- |
| **MW-17** | 2/3/2011 | -- | 70-75 | 18.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-17** | 5/4/2011 | -- | 70-75 | 18.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-17** | 8/4/2011 | -- | 70-75 | 18.55 | 10 | 0 | 8.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-17** | 2/29/2012 | -- | 70-75 | 18.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-17** | 8/7/2012 | -- | 70-75 | 18.55 | 10.78 | 0 | 7.77 | <50 | -- | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- |
| **MW-17** | 2/18/2013 | -- | 70-75 | 18.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-17** | 9/27/2013 | -- | 70-75 | 18.55 | 11.55 | 0 | 7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-17** | 1/31/2014 | -- | 70-75 | 18.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-17** | 8/18/2016 | -- | 70-75 | 18.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-17** | 2/7/2017 | -- | 70-75 | 18.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-17** | 4/27/2021 | -- | 70-75 | 18.65 | 11.89 | 0.00 | 6.76 | <100 | **95 J** | **52 J** | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | -- | -- | -- |
| | | | | | | | | | | | | | | | | | | | |
| **CB-1A** | 4/3/2019 | -- | -- | -- | -- | -- | -- | **170,000** | -- | **3,500** | **8,100** | **43,000** | **9,400** | **3,500** | <250 | -- | -- | **790 J** | -- |
| **CB-1B** | 4/9/2019 | -- | -- | -- | -- | -- | -- | **120,000** | -- | **12,000** | **2,900** | **25,000** | **7,300** | **29,000** | <250 | -- | -- | **650 J** | -- |
| **CB-2A** | 4/4/2019 | -- | -- | -- | -- | -- | -- | **190,000** | -- | **38,000** | **12,000** | **32,000** | **16,000** | **70,000** | <250 | -- | -- | **2,800** | -- |
| **CB-2B** | 4/5/2019 | -- | -- | -- | -- | -- | -- | **260,000** | -- | **7,100** | **8,700** | **49,000** | **12,000** | **53,000** | <1,300 | -- | -- | <2,000 | -- |
| **CB-3A** | 4/5/2019 | -- | -- | -- | -- | -- | -- | **200,000** | -- | **100,000** | **9,300** | **40,000** | **11,000** | **48,000** | <250 | -- | -- | **2,200** | -- |
| **CB-3B** | 4/5/2019 | -- | -- | -- | -- | -- | -- | **200,000** | -- | **13,000** | **4,100** | **35,000** | **6,100** | **26,000** | <2,500 | -- | -- | <2,000 | -- |
| **CB-4A** | 4/8/2019 | -- | -- | -- | -- | -- | -- | **170,000** | -- | **27,000** | **5,100** | **39,000** | **7,500** | **38,000** | <260 | -- | -- | **1,800** | -- |
| **CB-4B** | 4/9/2019 | -- | -- | -- | -- | -- | -- | **130,000** | -- | **4,500** | **3,300** | **21,000** | **5,000** | **21,000** | <63 | -- | -- | **340** | -- |
| **CB-4C** | 4/4/2019 | -- | -- | -- | -- | -- | -- | **220,000** | -- | **76,000** | **14,000** | **120,000** | **41,000** | **180,000** | <500 | -- | -- | **5,800** | -- |
| **CB-5A** | 4/5/2019 | -- | -- | -- | -- | -- | -- | **190,000** | -- | **17,000** | **1,100** | **12,000** | **3,200** | **13,000** | <250 | -- | -- | **210 J** | -- |
| **CB-6A** | 4/8/2019 | -- | -- | -- | -- | -- | -- | **210,000** | -- | **33,000** | **12,000** | **48,000** | **6,300** | **29,000** | <250 | -- | -- | **480 J** | -- |
| | | | | | | | | | | | | | | | | | | | |
| **AS-1** | 2/25/2010 | -- | -- | -- | 7.63 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-1** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-1** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-1** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | | | | | | | | | | | | | | | | | |
| **AS-2** | 2/25/2010 | -- | -- | -- | 8.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-2** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Table 5. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

ARCADIS

| Well ID | Sample Date | Sample depth (ft bgs) | Screen Interval (ft bTOC) | TOC (feet) | DTW (ft bTOC) | LNAPL thickness (feet) | GW Elev (feet) | TPH-g (µg/L) | TPH-d (µg/L) | TPH-d with Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Naphthalene (µg/L) | Carbon dioxide (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **AS-2** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-2** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-3** | 2/25/2010 | -- | -- | -- | 8.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-3** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-3** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-3** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-4** | 2/25/2010 | -- | -- | -- | 7.92 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-4** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-4** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-4** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-5** | 2/25/2010 | -- | -- | -- | 7.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-5** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-5** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-5** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-6** | 2/25/2010 | -- | -- | -- | 8.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-6** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-6** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-6** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-7** | 2/25/2010 | -- | -- | -- | 8.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-7** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-7** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-7** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-8** | 2/25/2010 | -- | -- | -- | 7.94 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-8** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-8** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **AS-8** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **P-1** | 3/22/1996 | -- | -- | -- | -- | -- | -- | **320,000** | -- | -- | **7,700** | **52,000** | **7,300** | **31,000** | <5,000 | -- | -- | -- | -- |
| **P-2** | 3/22/1996 | -- | -- | -- | -- | -- | -- | **800,000** | -- | -- | **13,000** | **72,000** | **15,000** | **76,000** | -- | -- | -- | -- | -- |
| **P-3** | 3/22/1996 | -- | -- | -- | -- | -- | -- | **69,000** | -- | -- | **460** | **9,500** | **2,000** | **9,000** | -- | -- | -- | -- | -- |
| **P-4** | 3/26/1996 | -- | -- | -- | -- | -- | -- | **12,000** | -- | -- | **6,900** | **16,000** | **2,700** | **11,000** | <2,500 | -- | -- | -- | -- |
| **P-5** | 3/26/1996 | -- | -- | -- | -- | -- | -- | **1,900** | -- | -- | **470** | -- | -- | -- | -- | -- | -- | -- | -- |
| **P-6** | 3/26/1996 | -- | -- | -- | -- | -- | -- | **2,100** | -- | -- | **530** | -- | -- | -- | -- | -- | -- | -- | -- |
| **P-7** | 3/22/1996 | -- | -- | -- | -- | -- | -- | **160,000** | -- | -- | **8,400** | **28,000** | **3,200** | **16,000** | <2,500 | -- | -- | -- | -- |
| **P-8** | 3/22/1996 | -- | -- | -- | -- | -- | -- | **58** | -- | -- | <0.5 | **4.1** | **0.55** | **2.9** | <2.5 | -- | -- | -- | -- |
| **P-9** | 3/26/1996 | -- | -- | -- | -- | -- | -- | <50 | -- | -- | <0.5 | -- | -- | -- | <2.5 | -- | -- | -- | -- |
| **B-1** | 3/22/1996 | -- | -- | -- | -- | -- | -- | **2,600,000** | -- | <10,000 | **13,000** | **41,000** | **22,000** | **140,000** | -- | -- | -- | -- | -- |
| **B-3** | 3/22/1996 | -- | -- | -- | -- | -- | -- | **43,000** | -- | <10,000 | **340** | **4,200** | **1,100** | **2,500** | -- | -- | -- | -- | -- |
| **CPT-1** | 10/6/2004 | 12 | -- | -- | -- | -- | -- | **97,000** | -- | -- | **5,200** | **21,000** | **3,700** | **16,000** | <13 | **64** | **60** | -- | -- |
| **CPT-1** | 10/6/2004 | 30 | -- | -- | -- | -- | -- | **130** | -- | **440** | **0.6** | **4** | **1** | **7** | <0.5 | <0.5 | <0.5 | -- | -- |
| **CPT-1** | 10/6/2004 | 43 | -- | -- | -- | -- | -- | **54** | -- | **370** | **1** | **14** | **6** | **26** | <0.5 | <0.5 | <0.5 | -- | -- |
| **CPT-1** | 10/6/2004 | 58 | -- | -- | -- | -- | -- | **370** | -- | **3,100** | **3** | **20** | **6** | **24** | <0.5 | <0.5 | <0.5 | -- | -- |
| **CPT-2** | 10/7/2004 | 16 | -- | -- | -- | -- | -- | <50 | -- | **1,200** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| **CPT-2** | 10/7/2004 | 32 | -- | -- | -- | -- | -- | <50 | -- | **450** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| **CPT-2** | 10/7/2004 | 43 | -- | -- | -- | -- | -- | <50 | -- | **500** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| **CPT-2** | 10/7/2004 | 60 | -- | -- | -- | -- | -- | <50 | -- | -- | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| **CPT-3** | 10/12/2004 | 32 | -- | -- | -- | -- | -- | **270** | -- | **770** | **4** | **28** | **13** | **40** | <0.5 | <0.5 | <0.5 | -- | -- |
| **CPT-3** | 10/12/2004 | 43 | -- | -- | -- | -- | -- | **130** | -- | **370** | **1** | **11** | **4** | **13** | <0.5 | <0.5 | <0.5 | -- | -- |
| **CPT-3** | 10/12/2004 | 57 | -- | -- | -- | -- | -- | **12,000** | -- | **3,800** | **160** | **1,300** | **780** | **3,200** | <1 | <1 | **6** | -- | -- |

**Table 5. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | Screen Interval (ft bTOC) | TOC (feet) | DTW (ft bTOC) | LNAPL thickness (feet) | GW Elev (feet) | TPH-g (µg/L) | TPH-d (µg/L) | TPH-d with Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Naphthalene (µg/L) | Carbon dioxide (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CPT-4** | 10/8/2004 | 30 | -- | -- | -- | -- | -- | **310** | -- | **620** | **19** | **91** | **130** | **440** | <0.5 | <0.5 | <0.5 | -- | -- |
| **CPT-4** | 10/8/2004 | 43 | -- | -- | -- | -- | -- | **92** | -- | **380** | <0.5 | **6** | **2** | **8** | <0.5 | <0.5 | <0.5 | -- | -- |
| **CPT-4** | 10/8/2004 | 60 | -- | -- | -- | -- | -- | <50 | -- | **1,900** | <0.5 | **2** | **1** | **5** | <0.5 | <0.5 | <0.5 | -- | -- |
| **CPT-4** | 10/8/2004 | 72 | -- | -- | -- | -- | -- | <50 | -- | **2,400** | <0.5 | **2** | **0.9** | **4** | <0.5 | <0.5 | <0.5 | -- | -- |
| **CPT-5** | 10/11/2004 | 31 | -- | -- | -- | -- | -- | **2,600** | -- | **1,300** | **120** | **590** | **120** | **440** | <0.5 | **11** | **3** | -- | -- |
| **CPT-5** | 10/11/2004 | 45 | -- | -- | -- | -- | -- | **6,600** | -- | **2,400** | **120** | **1,400** | **440** | **2,000** | <1 | **7** | **8** | -- | -- |
| **CPT-5** | 10/11/2004 | 58 | -- | -- | -- | -- | -- | **19,000** | -- | -- | **220** | **2,100** | **540** | **2,500** | <3 | **18** | **18** | -- | -- |
| **C-2** | 11/1/2004 | -- | -- | -- | -- | -- | -- | <50 | -- | **750** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| **C-5** | 11/2/2004 | -- | -- | -- | -- | -- | -- | <50 | -- | **74** | <0.5 | **0.5** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| **TW-1** | 4/15/2021 | 28 | -- | -- | -- | -- | -- | <50 | <49 | <49 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <1 | -- |
| **TW-2** | 4/14/2021 | 27.5 | -- | -- | -- | -- | -- | <50 | **35J** | <50 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | -- | <2.0 | -- |
| **TW-3** | 4/13/2021 | 27.5 | -- | -- | -- | -- | -- | <50 | **64** | **34J** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <1.0 | -- |
| **SB-1-GW** | 4/15/2021 | | -- | -- | -- | -- | -- | <50 | **60** | <53 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <1.0 | -- |
| **SB-2-GW** | 4/15/2021 | | -- | -- | -- | -- | -- | <50 | **290** | **69** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <1.0 | -- |
| **SB-3-GW** | 4/15/2021 | | -- | -- | -- | -- | -- | <50 | **97** | **25J** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <1.0 | -- |
| **SB-4-GW** | 4/15/2021 | | -- | -- | -- | -- | -- | <50 | **170** | **54** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <1.0 | -- |

**Notes:**
1. TPH-g (C6-C12) was analyzed by LUFT GC according to USEPA Method 8015B.
2. TPH-d (C10-C28) with silica gel cleanup was analyzed by LUFT GC according to USEPA Method 8015B.
3. Benzene, toluene, ethybenzene, and total xylenes (collectively BTEX) was analyzed by by USEPA Method 8260B.

**Bolded values** indicate a detected result.
-- = Not sampled/not measured.
< = Not detected at or above the laboratory Limit of Quantitation.

**Data Qualifiers:**
J = Estimated value (between Method Detection Limit and Limit of Quantitation).
UB = The analyte was not detected in the sample at the estimated detection limit; blank.

**Acronyms and Abbreviations:**
1,2 DCA = 1,2-Dichloroethane
µg/L = micrograms per liter
AS = air sparge well
CB = groundwater grab sample from confirmation boring
DTW = depth to groundwater
EDB = 1,2-Dibromomethane
ft bgs = feet below ground surface
ft bTOC = feet below top of casing
GW Elev = groundwater elevation
ID = identification
LUFT GC = Leaking Underground Fuel Tank gas chromatography
LNAPL = light non-aqueous phase liquid
MTBE = methyl-tertiary butyl ether
MW = groundwater monitoring well
TOC = top of casing
TPH-d = total petroleum hydrocarbons as diesel
TPH-g = total petroleum hydrocarbons as gasoline
TPH-d with Si Gel = total petroleum hydrocarbons as diesel with silica gel cleanup
USEPA = United States Environmental Protection Agency

Table 6. Groundwater Analytical Results Additional VOCs
Former Signal Oil Service Station No. 206145
800 Center Street Oakland, California

| Well ID | Sample Date | TBA (µg/L) | EDB (µg/L) | EDC (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | Ethanol (µg/L) | Naphthalene (µg/L) | Isopropyl benzene (µg/L) | n-Propyl benzene (µg/L) | 1,3,5-Trimethyl benzene (µg/L) | tert-Butylbenzene (µg/L) | 1,2,4-Trimethyl benzene (µg/L) | p-Isopropyl toluene (µg/L) | n-butyl benzene (µg/L) | sec-butyl benzene (µg/L) | 4-chloro toluene (µg/L) | Other non-chlorinated VOCs (µg/L) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-1A** | 4/26/2021 | <25 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <500 | <10 | **0.49 J** | **0.62 J** | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | |
| **MW-2** | 4/26/2021 | <25 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <500 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | |
| **MW-3** | 4/26/2021 | <25 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <500 | <10 | **1.2 J** | **0.28 J** | <5.0 | **2.5 J** | <5.0 | <5.0 | **1.8 J** | **5.8** | <5.0 | <1.0 | |
| **MW-4** | 4/26/2021 | **48** | <1.0 | **26** | <1.0 | <1.0 | <1.0 | <500 | <10 | <5.0 | <5.0 | <5.0 | **0.82 J** | <5.0 | <5.0 | <5.0 | **0.31 J** | <5.0 | <1.0 | |
| **MW-5** | 4/23/2021 | <25 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <500 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | |
| **MW-6** | 4/26/2021 | <25 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <500 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | |
| **MW-7** | 4/26/2021 | <25 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <500 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | |
| **MW-8** | 4/23/2021 | <25 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <500 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | |
| **MW-9** | 4/26/2021 | <25 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <500 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | |
| **MW-10** | 4/26/2021 | <25 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <500 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | |
| **MW-11** | 4/26/2021 | <25 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <500 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | |
| **MW-12** | 4/26/2021 | <25 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <500 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | |
| **MW-13** | 4/26/2021 | <25 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <500 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | |
| **MW-14** | 4/26/2021 | <25 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <500 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | |
| **MW-15** | 4/26/2021 | <25 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <500 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | |
| **MW-16** | 4/27/2021 | <25 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <500 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | |
| **MW-17** | 4/27/2021 | <25 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <500 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | |

**Notes:**

ID = Identification
µg/L = Micrograms per liter
MW = Groundwater monitoring well
VOCs = Volatile organic compounds
TBA = Tert-butanol or tertiary butyl alcohol
EDB = 1,2-Dibromoethane
EDC = 1,2-Dichloroethane
DIPE = Di isopropyl ether
ETBE = Ethyl tert-butyl ether
TAME = Tert-amyl methyl ether
<1.0 = Not detected at or above the Reporting Limit (RL)
**Bold** = Detected result including estimated values
J = Estimated value the between Method Detection Limit and RL
Analytes analyzed by USEPA Method (GC/MS) 8260B
GC/MS = Gas Chromatography/Mass Spectrometry

**Table 7. Natural Attenuation Parameters**
**Former Signal Oil Service Station No. 206145**
**800 Center Street Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | Screen Interval (ft bTOC) | TOC (feet) | DTW (ft bTOC) | LNAPL thickness (feet) | LNAPL recovered (gallons) | GW Elev (feet) | Nitrate Nitrogen (µg/L) | Sulfate (µg/L) | Alkalinity to pH 4.5 (µg/L) | Alkalinity to pH 8.3 (µg/L) | Ferrous Iron (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-1A** | 4/26/2021 | **--** | 6-16 | 18.22 | 10.57 | 0.00 | 0.00 | 7.65 | **1,900 H** | **200,000** | **810,000** | **--** | **--** |
| **MW-2** | 4/26/2021 | **--** | 5-15 | 18.51 | 10.84 | 0.00 | 0.00 | 7.67 | <500 H | **310,000** | **350,000** | **--** | **--** |
| **MW-3** | 9/3/2010 | -- | 5-15 | 18.07 | 9.70 | 0.00 | 0.00 | 8.37 | 160,000 | 390 | 45,900 | 531,000 | <460 |
| **MW-3** | 2/3/2011 | -- | 5-15 | 18.07 | 8.39 | 0.00 | 0.00 | 9.68 | 44,000 | <250 | 180,000 | 385,000 | <460 |
| **MW-3** | 5/4/2011 | -- | 5-15 | 18.07 | 7.30 | 0.00 | 0.00 | 10.77 | 20,000 | <250 | 222,000 | 310,000 | <460 |
| **MW-3** | 8/4/2011 | -- | 5-15 | 18.07 | 8.83 | 0.00 | 0.00 | 9.24 | 68,000 | 350 | 275,000 | 362,000 | <460 |
| **MW-3** | 4/26/2021 | **--** | 5-15 | 18.17 | 10.62 | 0.00 | 0.00 | 7.55 | **1,500 H** | **100,000** | **1,000,000** | **--** | **--** |
| **MW-4** | 9/3/2010 | -- | 5-15 | 16.98 | 8.63 | 0.00 | 0.00 | 8.35 | 210,000 | <250 | 2,000 | 400,000 | <460 |
| **MW-4** | 2/3/2011 | -- | 5-15 | 16.98 | 7.43 | 0.00 | 0.00 | 9.55 | 75,000 | <250 | 52,600 | 309,000 | <460 |
| **MW-4** | 5/4/2011 | -- | 5-15 | 16.98 | 6.32 | 0.00 | 0.00 | 10.66 | 76,000 | <250 | 16,700 | 183,000 | <460 |
| **MW-4** | 8/4/2011 | -- | 5-15 | 16.98 | 7.90 | 0.00 | 0.00 | 9.08 | 130,000 | <250 | 68,900 | 361,000 | <460 |
| **MW-4** | 4/26/2021 | **--** | 5-15 | 17.08 | 9.59 | 0.00 | 0.00 | 7.49 | <500 H | **110,000** | **580,000** | **--** | **--** |
| **MW-5** | 4/23/2021 | **--** | 5-20 | 17.69 | 10.16 | 0.00 | 0.00 | 7.53 | **2,200 H** | **43,000** | **140,000** | **--** | **--** |
| **MW-6** | 4/26/2021 | **--** | 5-20 | 17.39 | 9.97 | 0.00 | 0.00 | 7.42 | <500 H F1 | **48,000** | **320,000** | **--** | **--** |
| **MW-7** | 4/26/2021 | **--** | 5-20 | 19.38 | 11.61 | 0.00 | 0.00 | 7.77 | **450 J H** | **57,000** | **230,000** | **--** | **--** |
| **MW-8** | 4/23/2021 | **--** | 5-18.5 | 17.86 | 10.51 | 0.00 | 0.00 | 7.35 | **1,700 H** | **50,000** | **170,000** | **--** | **--** |
| **MW-9** | 4/26/2021 | **--** | 35-40 | 18.53 | 11.74 | 0.00 | 0.00 | 6.79 | **19,000** | **95,000** | **120,000** | **--** | **--** |
| **MW-10** | 4/26/2021 | **--** | 55-60 | 18.1 | 10.89 | 0.00 | 0.00 | 7.21 | **580** | **73,000** | **240,000** | **--** | **--** |
| **MW-11** | 4/26/2021 | **--** | 35-40 | 18.77 | 11.49 | 0.00 | 0.00 | 7.28 | **20,000 H** | **68,000** | **88,000** | **--** | **--** |
| **MW-12** | 4/26/2021 | **--** | 55-60 | 18.59 | 11.41 | 0.00 | 0.00 | 7.18 | <500 H | **78,000** | **240,000** | **--** | **--** |
| **MW-13** | 4/26/2021 | **--** | 35-40 | 18.55 | 11.01 | 0.00 | 0.00 | 7.54 | **28,000** | **68,000 F1** | **90,000** | **--** | **--** |
| **MW-14** | 4/26/2021 | **--** | 55-60 | 18.71 | 19.29 | 0.00 | 0.00 | -0.58 | <500 | **73,000** | **250,000** | **--** | **--** |
| **MW-15** | 4/26/2021 | **--** | 35-40 | 18.47 | 10.91 | 0.00 | 0.00 | 7.56 | **13,000 H** | **38,000** | **79,000** | **--** | **--** |
| **MW-16** | 4/27/2021 | **--** | 55-60 | 18.72 | 11.60 | 0.00 | 0.00 | 7.12 | **1,800** | **67,000** | **260,000** | **--** | **--** |
| **MW-17** | 4/27/2021 | **--** | 70-75 | 18.65 | 11.89 | 0.00 | 0.00 | 6.76 | <500 U | **62,000** | **210,000** | **--** | **--** |

**Notes:**
**Bolded values** indicate a detected result.
-- = Not sampled/not measured.
< = Not detected at or above the laboratory Limit of Quantitation.

**Data Qualifiers:**
H = Hold time was exceeded.
F1 = Matrix spike and/or matrix spike duplicate recovery exceeds control limits.
U = The analyte was not detected in the sample at the estimated detection limit.

**Acronyms and Abbreviations:**
µg/L = micrograms per liter
DTW = depth to groundwater
ft bgs = feet below ground surface
ft bTOC = feet below top of casing
GW Elev = groundwater elevation
ID = identification
LNAPL = light non-aqueous phase liquid
MW = groundwater monitoring well
TOC = top of casing

**Table 8. Soil Vapor Analytical Results**
**Former Chevron Service Station 206145**
**800 Center Road, Oakland, California**

ARCADIS

| Sample ID | Sample Date | Probe Depth Interval (fbg) | TPH-g | TPH-g (by TO-3) | TPH-g (by TO-15) | Benzene | Toluene | Ethylbenzene | Xylenes[1] | MTBE | Naphthalene | Oxygen | Nitrogen | Carbon Dioxide | Methane | Helium | Isobutane[2] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (Concentrations reported in µg/m$^3$) | | | | | | | | | (% Volume) | | | | | (ppbv) |
| LTCP - Residential (with bioattenuation zone) | | | -- | -- | -- | 85,000 | -- | 1,100,000 | -- | -- | 93,000 | -- | -- | -- | -- | -- | -- |
| **1997 Temporary Soil Vapor Probes** | | | | | | | | | | | | | | | | | |
| SV-1 | 5/30/1997 | 3 | 360,000 | -- | -- | 170 | 1,600 | 750 | 5,300 | -- | -- | 20.97 | -- | 1.00 | -- | -- | -- |
| SV-1 | 5/30/1997 | 6 | 50,000,000 | -- | -- | 65,000 | 320,000 | 84,000 | 430,000 | -- | -- | 18.97 | -- | 0.07 | -- | -- | -- |
| SV-1 | 5/30/1997 | 9 | 24,000,000 | -- | -- | 32,000 | 730,000 | 340,000 | 1,400,000 | -- | -- | 20.97 | -- | 6.00 | -- | -- | -- |
| SV-2 | 5/30/1997 | 3 | 11,000 | -- | -- | ND | 110 | 110 | 530 | -- | -- | 15.97 | -- | 2.2 | -- | -- | -- |
| SV-2 | 5/30/1997 | 6 | 27,000,000 | -- | -- | 22,000 | 100,000 | 10,000 | 66,000 | -- | -- | 18.97 | -- | 0.16 | -- | -- | -- |
| SV-2 | 5/30/1997 | 9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 20.97 | -- | -- | -- | -- | -- |
| SV-3 | 5/30/1997 | 3 | 180,000 | -- | -- | ND | 540 | 1,500 | 12,000 | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-3 | 5/30/1997 | 6 | 83,000 | -- | -- | ND | 420 | 840 | 5,700 | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-3 | 5/30/1997 | 9 | 400,000 | -- | -- | 6,500 | 54,000 | 30,000 | 44,000 | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-4 | 5/30/1997 | 3 | 71,000 | -- | -- | ND | 34 | 170 | 480 | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-4 | 5/30/1997 | 6 | 270,000 | -- | -- | ND | 80 | 480 | 1,400 | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-4 | 5/30/1997 | 9 | 5,400,000 | -- | -- | 17,000 | 150,000 | 36,000 | 160,000 | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-5 | 5/30/1997 | 3 | 8,000 | -- | -- | ND | 15 | 9 | 710 | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-5 | 5/30/1997 | 6 | 660,00 | -- | -- | 840 | 6,100 | 790 | 3,300 | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-5 | 5/30/1997 | 9 | 1,100,000 | -- | -- | 11,000 | 84,000 | 24,000 | 110,000 | -- | -- | -- | -- | -- | -- | -- | -- |
| **Permanent Soil Vapor Probes** | | | | | | | | | | | | | | | | | |
| VP-1 | 11/6/2007 | 5.0-5.5 | -- | 1,400 | -- | <3.8 | 16 | <5.2 | <5.2 | <17 | <25 | 10 | -- | <0.024 | <0.00024 | -- | 6.6 |
| VP-1 | LAB DUPLICATE | 5.0-5.5 | -- | -- | -- | <3.8 | 14 | <5.2 | <5.2 | <17 | <25 | -- | -- | -- | -- | -- | 6.5 |
| VP-1 | 10/3/2008 | 5.0-5.5 | -- | -- | <97 | <3.8 | <4.5 | <5.2 | <5.2 | <4.3 | <25 | 14 | -- | 0.027 | 0.00027 | <0.12 | -- |
| VP-1 | 5/10/2011 | 5.0-5.5 | -- | -- | 57,000,000 | 9,200 | <3,200 | <3,700 | <3,700 | <3,100 | <18,000 | 8.7 | 88 | 1.6 | 0.0059 | <0.12 | -- |
| VP-1 | 8/23/2011 | 5.0-5.5 | -- | -- | 2,500,000 | <400 | <470 | <550 | <550 | <450 | <2,600 | 9.4 | 89 | 1.5 | 0.0024 | <0.13 | -- |
| VP-1 | 11/2/2011 | 5.0-5.5 | -- | -- | 5,700 | 2 | <3.0 | <3.5 | <3.5 | <2.9 | <17 | 8.6 | 91 | 0.52 | 0.00054 | -- | -- |
| VP-1 | 2/21/2012 | 5.0-5.5 | -- | -- | <200 | <3.1 | <3.6 | <4.2 | <4.2 | <3.5 | <20 | 11 | 88 | 0.55 | <0.00019 | <0.097 | -- |
| VP-1 | 5/16/2012 | 5.0-5.5 | -- | -- | 490 | <2.6 | <3.0 | <3.5 | <3.5 | <2.9 | <17 | 13 | 86 | 0.98 | <0.00016 | <0.080 | -- |
| VP-1 | 5/4/2021 | 5.0-5.5 | -- | 490 | -- | 0.6069898 J | 7.16 | <1.09 | <10.85 | <1.23 | <3.09 | 16 | 84 | 3.5 | <0.0069 | 0.047 B | -- |
| VP-2 | 11/6/2007 | 5.0-5.5 | -- | <250 | -- | <3.9 | <4.6 | <5.2 | <5.2 | <17 | <25 | 10 | -- | 1 | <0.00024 | -- | ND |
| VP-2 | LAB DUPLICATE | 5.0-5.5 | -- | <250 | -- | -- | -- | -- | -- | -- | | 10 | -- | 1 | <0.00024 | -- | -- |
| VP-2 | 10/3/2008 | 5.0-5.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| VP-2 | 5/10/2011 | 5.0-5.5 | -- | -- | 6,500 | <4.1 | 5.1 | <5.6 | <5.6 | <4.7 | <27 | 15 | 84 | 1.4 | 0.00039 | <0.13 | -- |
| VP-2 DUP | 5/10/2011 | 5.0-5.5 | -- | -- | 13,000 | <4.1 | 7.5 | <5.6 | <5.6 | <4.7 | <27 | 15 | 84 | 1 | 0.00037 | <0.13 | -- |
| VP-2 | 8/23/2011 | 5.0-5.5 | -- | -- | <260 | <4.0 | <4.7 | <5.5 | <5.5 | <4.5 | <26 | 14 | 84 | 2 | <0.00025 | <0.13 | -- |
| VP-2 | 11/2/2011 | 5.0-5.5 | -- | -- | <160 | <2.6 | <3.0 | <3.5 | <3.5 | <2.9 | <17 | 12 | 86 | 2 | -- | -- | -- |
| VP-2 | 2/21/2012 | 5.0-5.5 | -- | -- | <170 | <2.7 | <3.2 | <3.6 | <3.6 | <3.0 | <18 | 14 | 85 | 1 | <0.00017 | <0.084 | -- |
| VP-2 DUP | 2/21/2012 | 5.0-5.5 | -- | -- | <170 | <2.7 | <3.2 | <3.6 | <3.6 | <3.0 | <18 | 15 | 84 | 1 | <0.00017 | <0.084 | -- |
| VP-2 | 5/16/2012 | 5.0-5.5 | -- | -- | <170 | <2.6 | <3.1 | <3.6 | <3.6 | <3.0 | <17 | 16 | 83 | 1 | <0.00016 | <0.082 | -- |
| VP-2 DUP | 5/16/2012 | 5.0-5.5 | -- | -- | <170 | <2.6 | <3.1 | <3.5 | <3.5 | <2.9 | <17 | 16 | 83 | 1 | <0.00016 | <0.082 | -- |
| VP-2 | 5/4/2021 | 5.0-5.5 | -- | 360 | -- | <0.6069898 | 1.02 J | <1.35 | <13.06 | <1.48 | <3.83 | 16 | 81 | 3.3 | <0.0069 | 0.0092 J B | -- |

**Table 8. Soil Vapor Analytical Results**
**Former Chevron Service Station 206145**
**800 Center Road, Oakland, California**

| Sample ID | Sample Date | Probe Depth Interval (fbg) | TPH-g | TPH-g (by TO-3) | TPH-g (by TO-15) | Benzene | Toluene | Ethylbenzene | Xylenes[1] | MTBE | Naphthalene | Oxygen | Nitrogen | Carbon Dioxide | Methane | Helium | Isobutane[2] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (Concentrations reported in µg/m$^3$) | | | | | | | | | (% Volume) | | | | | (ppbv) |
| LTCP - Residential (with bioattenuation zone) | | | -- | -- | -- | 85,000 | -- | 1,100,000 | -- | -- | 93,000 | -- | -- | -- | -- | -- | -- |
| VP-3 | 11/6/2207 | 5.0-5.5 | -- | <240 | -- | <3.7 | <4.4 | <5.0 | <5.0 | <17 | <24 | 16 | -- | 2 | <0.00023 | -- | ND |
| VP-3 | 10/3/2008 | 5.0-5.5 | -- | -- | <92 | <3.6 | <4.2 | <4.9 | <4.9 | <4.0 | <23 | 16 | -- | 2 | <0.00022 | <0.11 | -- |
| VP-3 | LAB DUPLICATE | | -- | -- | -- | -- | -- | -- | | -- | -- | 16 | -- | 2.4 | <0.00022 | <0.11 | -- |
| VP-3 | 5/10/2011 | 5.0-5.5 | -- | -- | 22,000,000 | 10,000 | 21,000 | 4,200 | 60,000 | <1,600 | <9,000 | 14 | 82 | 4 | 0.0054 | <0.13 | -- |
| VP-3 | 8/23/2011 | 5.0-5.5 | -- | -- | 300 | <3.9 | 4.8 | <5.2 | 15 | <4.4 | <25 | 16 | 80 | 3.6 | <0.00024 | <0.12 | -- |
| VP-3 DUP | 8/23/2011 | 5.0-5.5 | -- | -- | <250 | <3.9 | <4.6 | <5.2 | 15 | <4.4 | <25 | 16 | 80 | 3.5 | <0.00024 | <0.12 | -- |
| VP-3 | 11/2/2011 | 5.0-5.5 | -- | -- | 860 | <2.6 | 4.8 | <3.5 | 30 | <2.9 | <17 | 17 | 79 | 3.6 | -- | -- | -- |
| VP-3 | 2/21/2012 | 5.0-5.5 | -- | -- | <160 | <2.6 | 3.6 | <3.5 | 9 | <2.9 | <17 | 17 | 80 | 3.2 | <0.00016 | <0.080 | -- |
| VP-3 | 5/16/2012 | 5.0-5.5 | -- | -- | 780 | <2.6 | 4.0 | <3.6 | 20 | <3.0 | <17 | 17 | 80 | 3.4 | <0.00017 | <0.083 | -- |
| VP-3 | 5/4/2021 | 5.0-5.5 | -- | 390 | -- | 3.51 | <0.6782577 | 1.74 J | <15.15 | <1.69 | <4.3 | 17 | 82 | 4.6 | <0.0069 | 0.010 J B | -- |
| VP-4 | 11/6/2007 | 5.0-5.5 | -- | 280 | -- | <3.9 | <4.6 | <5.2 | <5.2 | <17 | <25 | 10 | -- | 4 | <0.00024 | -- | ND |
| VP-4 | 10/3/2008 | 5.0-5.5 | -- | -- | 390 | <4.1 | <4.9 | <5.6 | <5.6 | <4.6 | <27 | 11 | -- | 4.8 | 0.00028 | <0.13 | -- |
| VP-4 DUP | 10/3/2008 | 5.0-5.5 | -- | -- | 240 | <4.2 | <5.0 | <5.7 | <5.7 | <4.8 | <28 | 11 | -- | 5 | 0.00028 | <0.13 | -- |
| VP-4 | 5/10/2011 | 5.0-5.5 | -- | -- | 12,000,000 | 2,600 | 3,400 | 160 | 13,000 | <36 | <210 | 7 | 86 | 7 | 0.0034 | <0.12 | -- |
| VP-4 | 8/23/2011 | 5.0-5.5 | -- | -- | 3,300 | 14 | 160 | <5.2 | 89 | <4.4 | <25 | 14 | 81 | 5.2 | 0.00031 | <0.12 | -- |
| VP-4 | 11/2/2011 | 5.0-5.5 | -- | -- | 650 | <2.5 | 23 | <3.4 | 16 | <2.8 | <16 | 13 | 82 | 4.4 | 0.0002 | 0.09 | -- |
| VP-4 DUP | 11/2/2011 | 5.0-5.5 | -- | -- | 780 | 2.7 | 27 | <3.4 | 20 | <2.8 | <16 | 13 | 82 | 4.5 | 0.0002 | -- | -- |
| VP-4 | 2/21/2012 | 5.0-5.5 | -- | -- | <160 | <2.5 | 22 | <3.4 | 17 | <2.8 | <16 | 17 | 80 | 3 | <0.00016 | <0.078 | -- |
| VP-4 | 5/16/2012 | 5.0-5.5 | -- | -- | 1,400 | 3.1 | 46 | <3.2 | 36 | <2.7 | <16 | 17 | 79 | 4 | 0.00017 | <0.075 | -- |
| VP-4 | 5/4/2021 | 5.0-5.5 | -- | 400 | -- | 0.8306176 J | 2.68 | <1.22 | <11.98 | <1.37 | <3.46 | 16 | 84 | 5 | <0.0069 | 0.012 J B | -- |
| VP-5 | 11/6/2007 | 5.0-5.5 | -- | 120* | 2,100,000 | <760 | <900 | <1,000 | <1,000 | <3,400 | <5,000 | 16 | -- | 4 | <0.00024 | -- | 13,000 |
| VP-5 | 10/3/2008 | 5.0-5.5 | -- | -- | 57,000 | <86 | <100 | <120 | <120 | <97 | <560 | 17 | -- | 4 | <0.00024 | <0.12 | -- |
| VP-5 | LAB DUPLICATE | | -- | -- | 65,000 | <15 | <18 | <21 | <21 | <17 | <100 | -- | -- | -- | -- | -- | -- |
| VP-5 | 5/10/2011[3] | 5.0-5.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| VP-5 | 8/23/2011 | 5.0-5.5 | -- | -- | 150,000 | 110 | 870 | 9.1 | 86 | 4 | <25 | 19 | 78 | 3 | <0.00024 | <0.12 | -- |
| VP-5 | 11/2/2011 | 5.0-5.5 | -- | -- | 1,500 | <2.6 | 23 | <3.6 | 9 | <3.0 | <17 | 19 | 78 | 3 | -- | -- | -- |
| VP-5 | 2/21/2012 | 5.0-5.5 | -- | -- | <170 | <2.6 | 12 | <3.6 | 5 | <3.0 | <17 | 19 | 78 | 3 | <0.00016 | <0.082 | -- |
| VP-5 | 5/16/2012 | 5.0-5.5 | -- | -- | 1,700 | 7.3 | 24 | 4.1 | 16 | <2.8 | <16 | 18 | 78 | 4 | <0.00015 | <0.076 | -- |
| VP-5 | 5/4/2021 | 5.0-5.5 | -- | 390 | -- | <0.8945112 | <0.8666626 | 1.91 | <19.01 | <2.13 | <1.0 | 18 | 79 | 2.9 | <0.0069 | 0.021 J | -- |
| VP-6 | 11/6/2007 | 5.0-5.5 | -- | <260 | -- | <4.0 | <4.8 | <5.5 | <5.5 | <18 | <26 | 20 | -- | 1 | <0.00025 | -- | ND |
| VP-6 DUP | 11/6/2007 | 5.0-5.5 | -- | <250 | -- | <3.9 | <4.6 | <5.4 | <5.4 | <18 | <26 | 20 | -- | 1 | <0.00025 | -- | ND |
| VP-6 | 10/3/2008 | 5.0-5.5 | -- | -- | <97 | <3.8 | <4.5 | <5.2 | <5.2 | <4.3 | <25 | 20 | -- | 1 | <0.00024 | <0.12 | -- |
| VP-6 | 5/10/2011 | 5.0-5.5 | -- | -- | 2,200,000 | <190 | <230 | <260 | 380 | <220 | <1,200 | 19 | 79 | 2 | <0.00024 | <0.12 | -- |
| VP-6 | 8/23/2011 | 5.0-5.5 | -- | -- | 980 | <4.0 | <4.7 | <5.5 | <5.5 | <4.5 | <26 | 19 | 79 | 2 | <0.00025 | <0.13 | -- |
| VP-6 | 11/2/2011 | 5.0-5.5 | -- | -- | 450 | <2.6 | <3.1 | <3.6 | <3.6 | <3.0 | <17 | 20 | 78 | 2 | -- | -- | -- |
| VP-6 | 2/21/2012 | 5.0-5.5 | -- | -- | <160 | <2.5 | <3.0 | <3.4 | <3.4 | <2.8 | <16 | 21 | 78 | 1 | <0.00016 | <0.079 | -- |
| VP-6 | 5/16/2012 | 5.0-5.5 | -- | -- | 350 | <2.5 | <3.0 | <3.4 | <3.4 | <2.8 | <16 | 19 | 79 | 2 | <0.00016 | <0.079 | -- |
| VP-6 | 5/6/2021 | 5.0-5.5 | -- | 390 | -- | <0.6708834 | 0.7159387 J | <1.48 | <14.67 | <1.66 | <4.25 | 20 | 82 | 1.9 | <0.0069 | 0.016 J | -- |
| VP-6 DUP | 5/6/2021 | 5.0-5.5 | -- | 390 | | <0.6708834 | 0.8666626 J | <1.43 | <14.15 | <1.59 | <4.09 | 20 | 82 | 1.9 | <0.0069 | 0.027 | -- |
| SVP-1 | 5/6/2021 | -- | -- | 700 | -- | <0.6708834 | 1.54 J | <1.43 | <14.15 | <1.59 | <4.09 | 21 | 82 | 0.83 | <0.0069 | 0.021 J | -- |
| SVP-2 | 5/6/2021 | -- | -- | 570 | -- | 1.28 J | 1.36 J | <1.48 | <14.63 | <1.62 | <4.19 | 20 | 82 | 1.6 | <0.0069 | 0.014 J | -- |
| SVP-3 | 5/6/2021 | -- | -- | 500 | -- | <0.5111493 | 1.81 J | <1.09 | <10.85 | <1.23 | <3.09 | 16 | 79 | 3.7 | <0.0069 | 0.021 J | -- |
| SVP-4 | 5/6/2021 | -- | -- | 460 | -- | <0.5430961 | 1.24 J | <1.22 | <11.98 | <1.37 | <3.46 | 19 | 78 | 2.4 | <0.0069 | 0.016 J B | -- |
| AMBIENT | 5/7/2021 | -- | -- | | | <0.9903517 | 7.16 | <2.17 | <21.66 | <2.42 | <6.29 | | | | | | |

**Footnotes:**
[1] = Values for highest value of xylenes detected
[2] = Constituent used as a leak detector for samples collected 11/06/2007 determined as Tentatively Identified Compound by Modified USEPA Method TO-15. Match quality was below 50%.
[3] = Water in probe tubing; sample could not be collected.
* = TPH-g samples collected on 10/03/2008 from VP-5 were analyzed by USEPA Method TO-15 and USEPA Method TO-3 for comparison purposes. Results were within laboratory limits.

**Notes:**
1. Data are from the 2012 Second Quarter Soil Vapor Sampling Report prepared by CRA.
2. ESLs were used from Table E-2 of *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final November 2007 (Updated May 2008)* prepared by the San Francisco Regional Water Quality Control Board.
3. TPH-g was analyzed by USEPA Method TO-3 for samples collected 11/06/2007, and by USEPA Method TO-15 for samples collected since 10/03/2008.
4. Benzene, toluene, ethybenzene, xylenes (BTEX), MTBE, and naphthalene were analyzed by USEPA Method TO-15.
5. Oxygen, nitrogen, carbon dioxide, methane, and helium were analyzed by ASTM International Method D-1946.
-- = Not analyzed.
< = Below laboratory detection limit.
ND = Not detected above laboratory detection limit; detection limit not reported by laboratory.

**Data Qualifiers:**
B = Blank.
J = Estimated value (between Method Detection Limit and Limit of Quantitation).

**Acronyms and Abbreviations:**
% = percent
µg/$m^3$ = micrograms per cubic meter
DUP = duplicate sample
ESL = Environmental Screening Level
fbg = feet below grade
ID = identification
ppbv = part per billion volume
MTBE = methyl-tertiary butyl ether
TPH-g = total petroleum hydrocarbons as gasoline
USEPA = United States Environmental Protection Agency

**Table 9. Well Redevelopment**
**Former Chevron Service Station 206145**
**800 Center Road, Oakland, California**

| Well Name | Date of Installation | Current Status | Groundwater Zone | Top of Casing (ft-msl) | Casing Diameter (inches) | Total Depth (fbg) | Screen Interval (fbg) | Length of Screen (ft) | Pre-development Total Depth (fbg) | Pre-development Difference Original TD - Current TD | Total Depth after Re-development | Difference Original TD - Re-development TD | Additional Screen Exposed through re-development | Re-development Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 10/17/1995 | Destroyed 11/14/2002 | Shallow | -- | 2 | 16.5 | 5 -15 | 10 | | | | | | |
| MW-1A | 1/29/2003 | Active | Shallow | 18.22 | 2 | 16.5 | 6.5 - 16.5 | 10 | 16.43 | 0.07 | 16.71 | -0.21* | 0.14 | Hard bottom noted. Water clear at end. |
| MW-2 | 10/17/1995 | Active | Shallow | 18.51 | 2 | 16.5 | 5 - 15 | 10 | 12.92 | 3.58 | 13.2 | 3.3 | 0.28 | Well dewatered 1x. Clear water noted at end |
| MW-3 | 10/17/1995 | Active | Shallow | 18.17 | 2 | 16.5 | 5 - 15 | 10 | 13.89 | 2.61 | 14.42 | 2.08 | 0.53 | Hard bottom noted. Well dewatered 3x. Clear water noted at end. |
| MW-4 | 10/18/1995 | Active | Shallow | 17.08 | 2 | 16.5 | 5 - 15 | 10 | 13.29 | 3.21 | 13.45 | 3.05 | 0.16 | Hard bottom noted. Well dewatered 1x. Clear water noted at end. |
| MW-5 | 12/18/1996 | Active | Shallow | 17.69 | 2 | 20 | 5 - 20 | 15 | 18.83 | 1.17 | 18.97 | 1.03 | 0.14 | Hard bottom noted |
| MW-6 | 12/18/1996 | Active | Shallow | 17.39 | 2 | 20 | 5 - 20 | 15 | 14.49 | 5.51 | 19.7 | 0.3 | 5.21 | Hard bottom noted. Water clear at end. |
| MW-7 | 12/18/1996 | Active | Shallow | 19.38 | 2 | 20 | 5 - 20 | 15 | 14.83 | 5.17 | 14.85 | 5.15 | 0.02 | Hard bottom noted. Well dewatered 1x |
| MW-8 | 1/9/2002 | Active | Shallow | 17.86 | 2 | 20 | 5 - 20 | 15 | 19.67 | 0.33 | 19.67 | 0.33 | 0 | Hard bottom noted |
| MW-9 | 4/9/2007 | Active | Intermediate | 18.53 | 2 | 40 | 35 - 40 | 5 | 38.43 | 1.57 | 39.79 | 0.21 | 1.36 | Hard bottom noted |
| MW-10 | 4/10/2007 | Active | Deep | 18.1 | 2 | 60 | 55 - 60 | 5 | 57.48 | 2.52 | 58.85 | 1.15 | 1.37 | Well dewatered 2x. |
| MW-11 | 4/9/2007 | Active | Intermediate | 18.77 | 2 | 40 | 35 - 40 | 5 | 39.20 | 0.8 | 39.70 | 0.3 | 0.5 | Hard bottom noted |
| MW-12 | 4/10/2007 | Active | Deep | 18.59 | 2 | 60 | 55 - 60 | 5 | 58.80 | 1.2 | 59.23 | 0.77 | 0.43 | Well dewatered 2x. |
| MW-13 | 4/11/2007 | Active | Intermediate | 18.55 | 2 | 40 | 35 - 40 | 5 | 38.58 | 0.69 | 38.70 | 1.3 | 0.61 | Hard bottom noted. Water clear at end. |
| MW-14 | 4/11/2007 | Active | Deep | 18.71 | 2 | 60 | 55 - 60 | 5 | 55.95 | 4.05 | 59.30 | 0.7 | 3.35 | Hard bottom noted. Well dewatered 1x |
| MW-15 | 4/12/2007 | Active | Intermediate | 18.47 | 2 | 40 | 35 - 40 | 5 | 35.16 | 4.84 | 35.87 | 4.13 | 0.71 | Water highly turbid |
| MW-16 | 4/12/2007 | Active | Deep | 18.72 | 2 | 60 | 55 - 60 | 5 | 56.84 | 3.16 | 59.27 | 0.73 | 2.43 | Hard bottom noted |
| MW-17 | 4/13/2007 | Active | Deep | 18.65 | 2 | 75 | 70 - 75 | 5 | 66.85 | 8.15 | 72.76 | 2.24 | 5.91 | Hard bottom noted. Well dewatered 3x |

**Notes:**
ft = feet
fbg = feet below ground surface
DTW = depth to groundwater
* = actual well depth differs from install depth notes
-- = data not available

# Figures

SOURCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., OAKLAND WEST, CALIFORNIA, 2015.

N

0 2,000' 4,000'

APPROXIMATE SCALE: 1 in. = 2,000 ft.

AREA LOCATION

CALIFORNIA

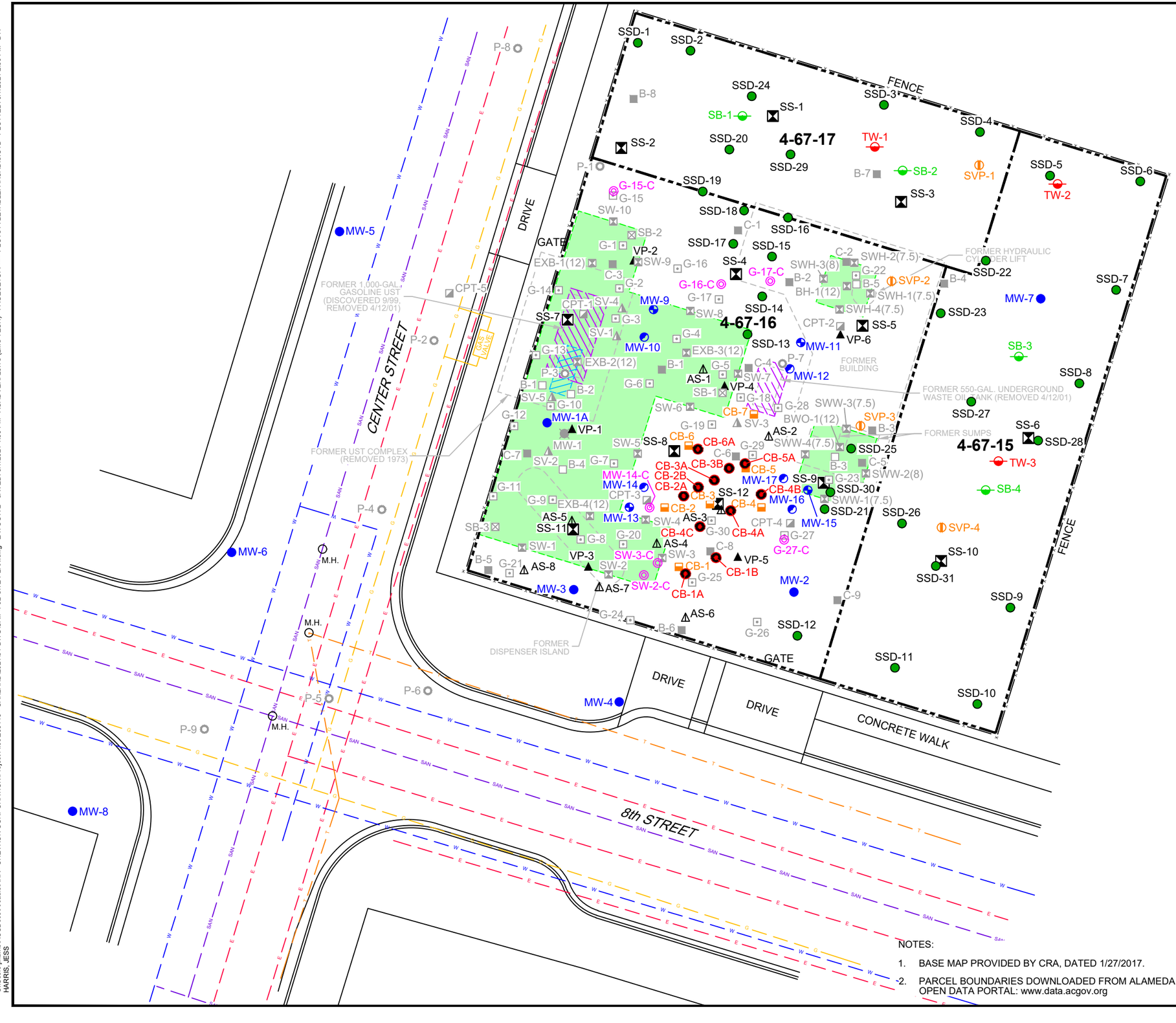
FORMER CHEVRON SERVICE STATION 206145
800 CENTER STREET
OAKLAND, CALIFORNIA

# SITE LOCATION MAP

ARCADIS

FIGURE 1

CITY: SAN RAFAEL, CA DIV/GROUP: ENVCAD DB: J. HARRIS
C:\Users\arl00071\BIM 360\Arcadis\AUS-CHEVRON-206145-OAKLAND California\Project Files\2021101-In Progress\01-DWG\GWM-1SA2021-F01-SITE LOCATION MAP.dwg LAYOUT: 1 SAVED: 5/26/2021 9:28 PM ACADVER: 24.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB
PLOTTED: 5/27/2021 8:15 PM BY: R, ANITA




NOTES:

1. BASE MAP PROVIDED BY CRA, DATED 1/27/2017.
2. PARCEL BOUNDARIES DOWNLOADED FROM ALAMEDA COUNTY OPEN DATA PORTAL: www.data.acgov.org

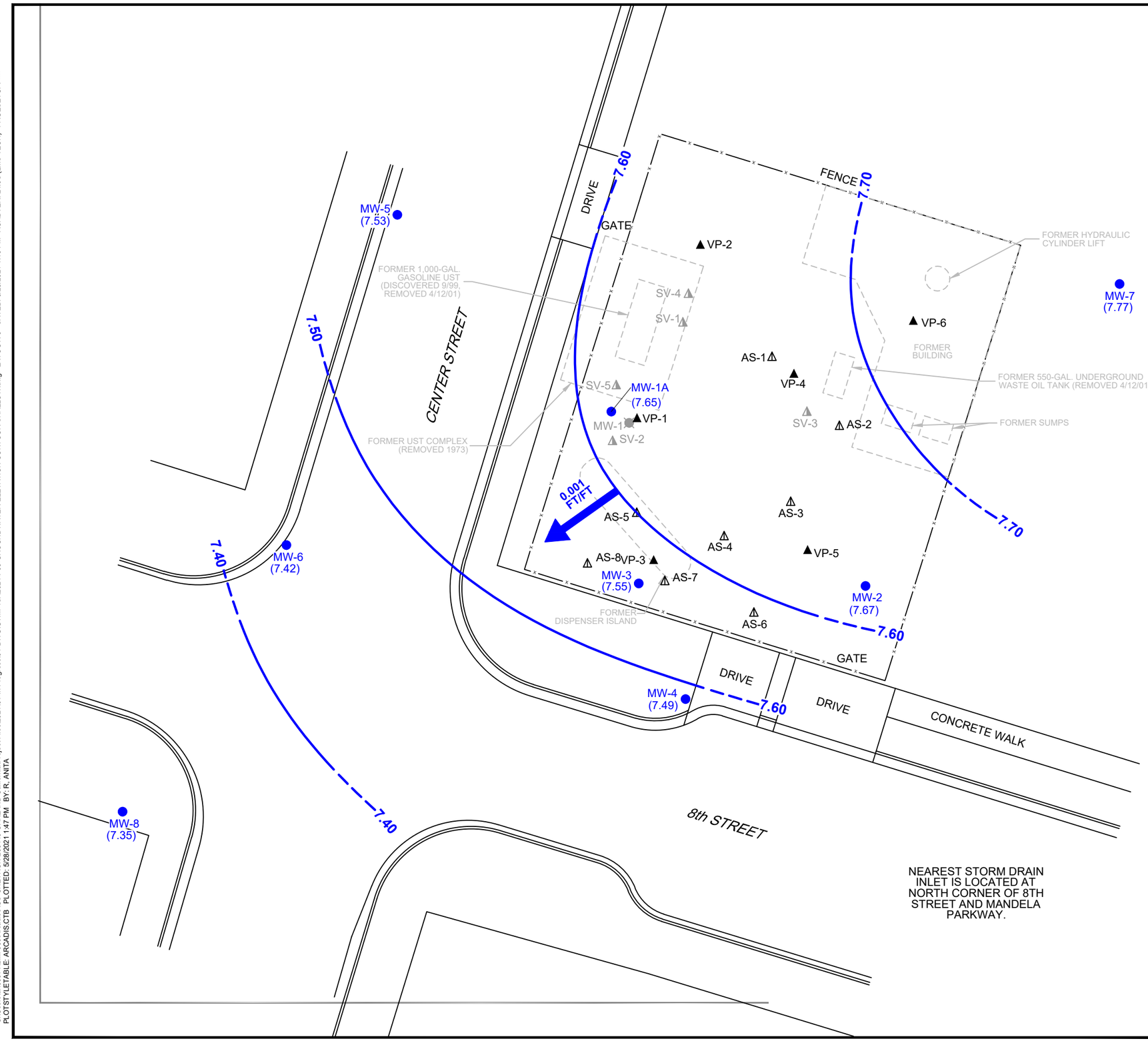
SITE NO. 206145
800 CENTER STREET
OAKLAND, CALIFORNIA

# SITE PLAN

ARCADIS

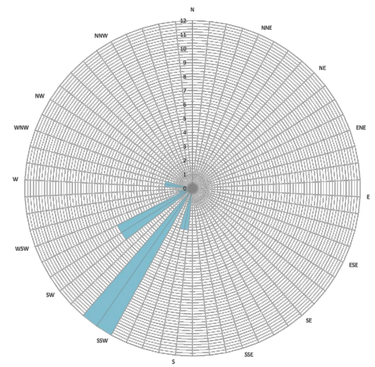
FIGURE 2

C:\Users\jlharris\ACCDocs\Arcadis\ANA - CHEVRON CORPORATION\Project Files\206145 - OAKLAND\202101-DWG\CAIP-F02-SITE PLAN.dwg LAYOUT: 2 SAVED: 6/7/2021 1:59 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 6/7/2021 2:39 PM BY: HARRIS, JESS




## LEGEND

- MW-3 ● GROUNDWATER MONITORING WELL (SHALLOW ZONE)
- MW-1 ✺ DESTROYED WELL
- VP-3 ▲ VAPOR PROBE
- AS-1 ◬ AIR SPARGING WELL
- (7.77) GROUNDWATER ELEVATION (FEET)
- 7.70 — — — GROUNDWATER ELEVATION CONTOUR; DASHED WHERE INFERRED (FEET NORTH AMERICAN VERTICAL DATUM 1988)
- ⟵ APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- 0.001 FT/FT APPROXIMATE HYDRAULIC GRADIENT (FEET/FOOT)




Groundwater Gradient Direction

**NOTE:**

1. BASE MAP PROVIDED BY CRA, DATED 1/27/2017.

0 20' 40'

APPROXIMATE SCALE: 1 in. = 20 ft.

NEAREST STORM DRAIN INLET IS LOCATED AT NORTH CORNER OF 8TH STREET AND MANDELA PARKWAY.

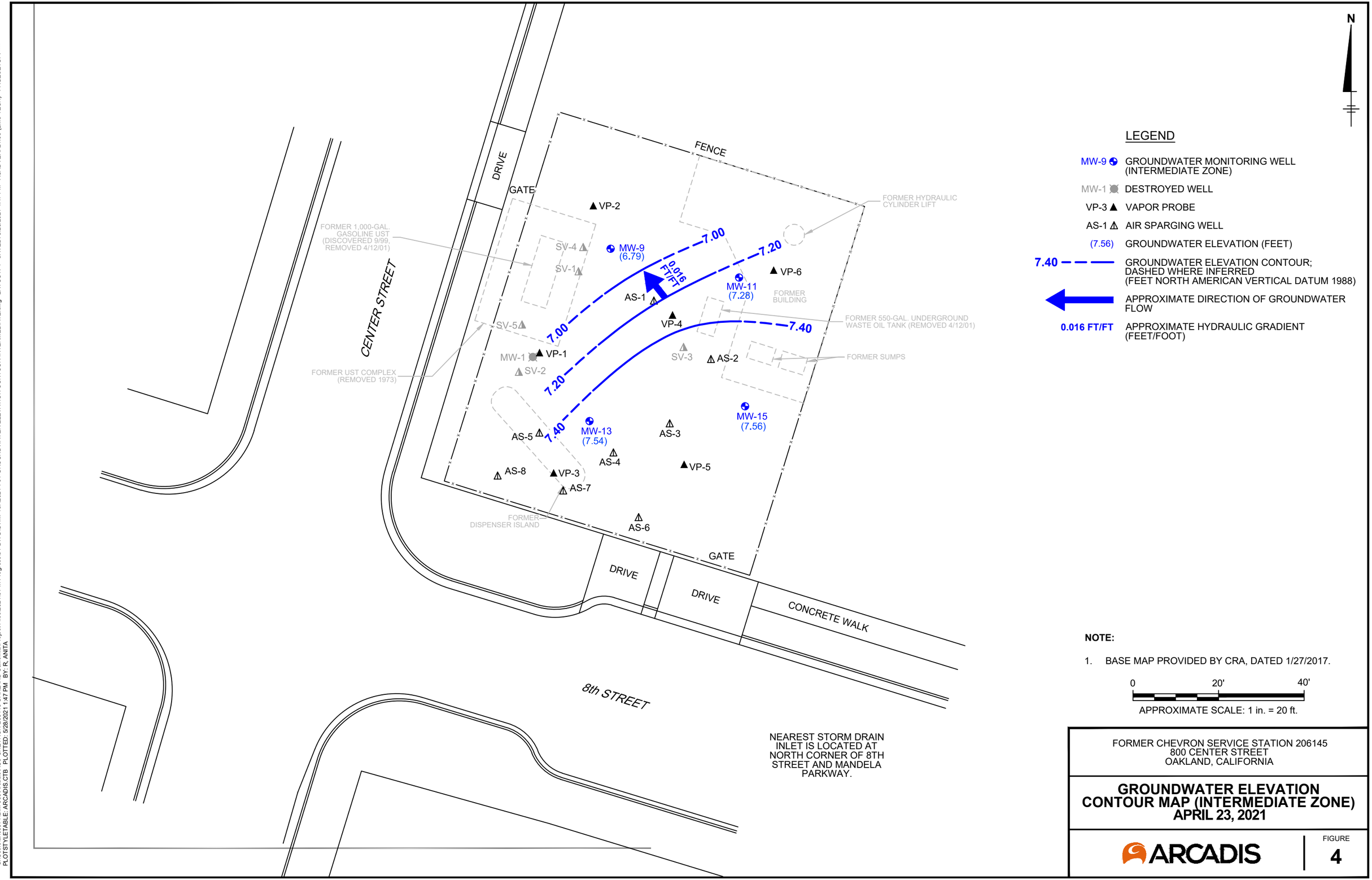
FORMER CHEVRON SERVICE STATION 206145
800 CENTER STREET
OAKLAND, CALIFORNIA

# GROUNDWATER ELEVATION CONTOUR MAP (SHALLOW ZONE) APRIL 23, 2021

ARCADIS

FIGURE 3

CITY: SAN RAFAEL, CA DIV/GROUP: ENVCAD DB: J. HARRIS
C:\Users\arl00071\BIM 360\Arcadis\AUS-CHEVRON-206145-OAKLAND California\Project Files\2021\01-In Progress\01-DWG\GWM-1SA2021-F03-GROUNDWATER ELEVATION CONTOUR-SHALLOW.dwg LAYOUT: 3 SAVED: 5/28/2021 1:46 PM ACADVER: 24.0S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 5/28/2021 1:47 PM BY: R. ANITA




## LEGEND

- MW-9 ⊕ GROUNDWATER MONITORING WELL (INTERMEDIATE ZONE)
- MW-1 ⊗ DESTROYED WELL
- VP-3 ▲ VAPOR PROBE
- AS-1 ◬ AIR SPARGING WELL
- (7.56) GROUNDWATER ELEVATION (FEET)
- 7.40 GROUNDWATER ELEVATION CONTOUR; DASHED WHERE INFERRED (FEET NORTH AMERICAN VERTICAL DATUM 1988)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- 0.016 FT/FT APPROXIMATE HYDRAULIC GRADIENT (FEET/FOOT)

**NOTE:**

1. BASE MAP PROVIDED BY CRA, DATED 1/27/2017.

0 20' 40'

APPROXIMATE SCALE: 1 in. = 20 ft.

NEAREST STORM DRAIN INLET IS LOCATED AT NORTH CORNER OF 8TH STREET AND MANDELA PARKWAY.

FORMER CHEVRON SERVICE STATION 206145
800 CENTER STREET
OAKLAND, CALIFORNIA

# GROUNDWATER ELEVATION CONTOUR MAP (INTERMEDIATE ZONE) APRIL 23, 2021

ARCADIS

FIGURE 4

CITY: SAN RAFAEL, CA DIV/GROUP: ENV/CAD DB: J. HARRIS
C:\Users\ari00071\BIM 360\Arcadis\AUS-CHEVRON-206145-OAKLAND California\Project Files\2021\01-In Progress\01-DWG\GWM-1SA2021-F04-GROUNDWATER ELEVATION CONTOUR-INTERMEDIATE.dwg LAYOUT: 4 SAVED: 5/28/2021 1:47 PM ACADVER: 24.0S (LMS TECH) PAGESETUP: ----
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CITY: SAN RAFAEL, CA DIV/GROUP: ENV/CAD DB: J. HARRIS
LD: Name.surname@ARCADIS.com PIC: Name.surname PM: 360/Arcadis-US-CHEVRON-206145-OAKLAND California\Project Files\2021\01-In Progress\01-DWG\GWM-1SA2021-F05-GROUNDWATER ELEVATION CONTOUR-DEEP.dwg LAYOUT: 5 SAVED: 5/28/2021 1:43 PM ACADVER: 24.0S (LMS TECH) PAGESETUP: ----
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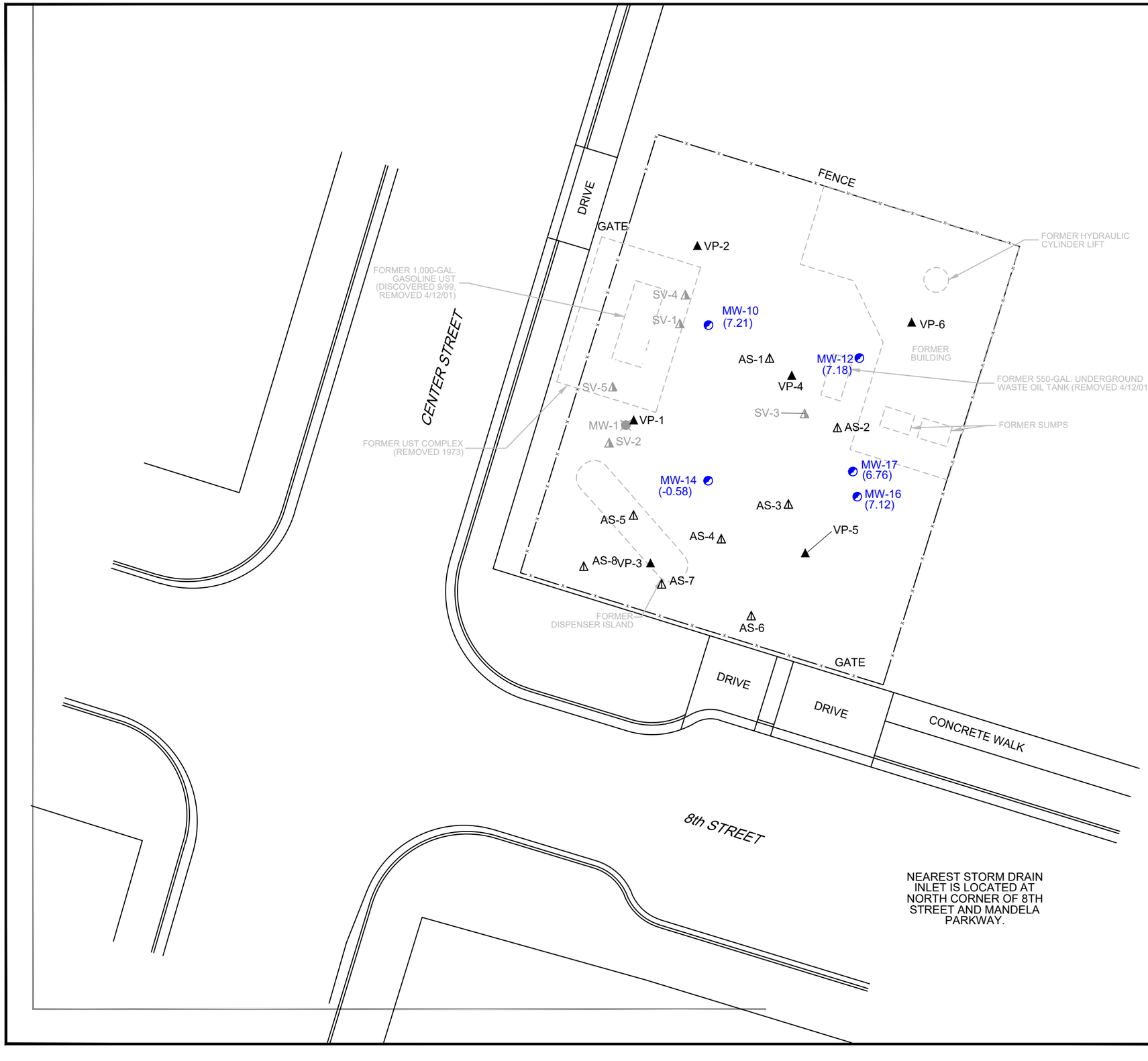



N

## LEGEND

- MW-14 GROUNDWATER MONITORING WELL (DEEP ZONE)
- MW-1 DESTROYED WELL
- VP-3 VAPOR PROBE
- AS-1 AIR SPARGING WELL
- (7.18) GROUNDWATER ELEVATION (FEET)

NEAREST STORM DRAIN INLET IS LOCATED AT NORTH CORNER OF 8TH STREET AND MANDELA PARKWAY.

**NOTE:**

1. BASE MAP PROVIDED BY CRA, DATED 1/27/2017.

0 20' 40'

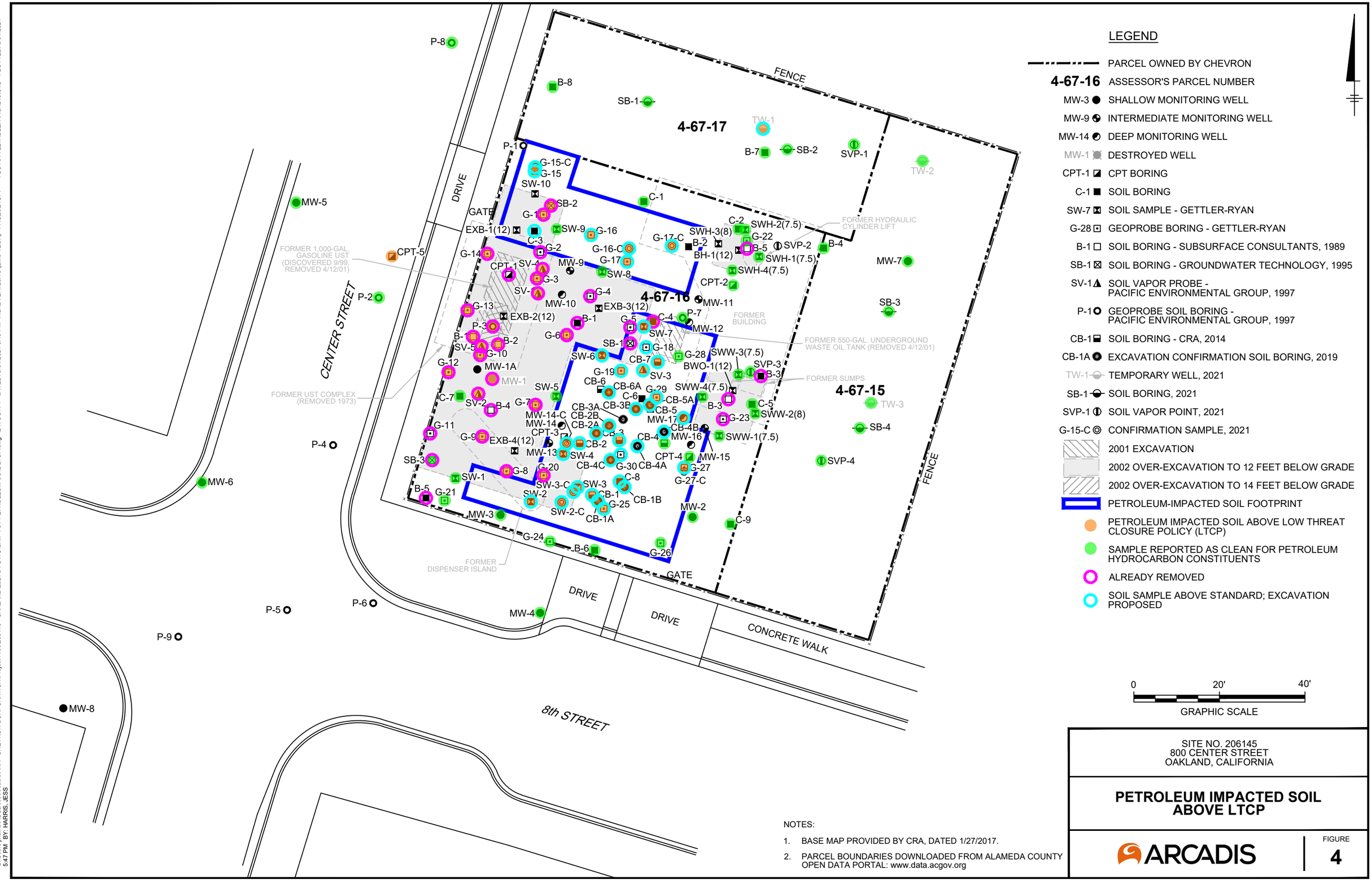
APPROXIMATE SCALE: 1 in. = 20 ft.

FORMER CHEVRON SERVICE STATION 206145
800 CENTER STREET
OAKLAND, CALIFORNIA

# GROUNDWATER ELEVATION MAP (DEEP ZONE) APRIL 23, 2021

ARCADIS

FIGURE 5




## LEGEND

- PARCEL OWNED BY CHEVRON
- **4-67-16** ASSESSOR'S PARCEL NUMBER
- MW-3 SHALLOW MONITORING WELL
- MW-9 INTERMEDIATE MONITORING WELL
- MW-14 DEEP MONITORING WELL
- MW-1 DESTROYED WELL
- CPT-1 CPT BORING
- C-1 SOIL BORING
- SW-7 SOIL SAMPLE - GETTLER-RYAN
- G-28 GEOPROBE BORING - GETTLER-RYAN
- B-1 SOIL BORING - SUBSURFACE CONSULTANTS, 1989
- SB-1 SOIL BORING - GROUNDWATER TECHNOLOGY, 1995
- SV-1 SOIL VAPOR PROBE - PACIFIC ENVIRONMENTAL GROUP, 1997
- P-1 GEOPROBE SOIL BORING - PACIFIC ENVIRONMENTAL GROUP, 1997
- CB-1 SOIL BORING - CRA, 2014
- CB-1A EXCAVATION CONFIRMATION SOIL BORING, 2019
- TW-1 TEMPORARY WELL, 2021
- SB-1 SOIL BORING, 2021
- SVP-1 SOIL VAPOR POINT, 2021
- G-15-C CONFIRMATION SAMPLE, 2021
- 2001 EXCAVATION
- 2002 OVER-EXCAVATION TO 12 FEET BELOW GRADE
- 2002 OVER-EXCAVATION TO 14 FEET BELOW GRADE
- PETROLEUM-IMPACTED SOIL FOOTPRINT
- PETROLEUM IMPACTED SOIL ABOVE LOW THREAT CLOSURE POLICY (LTCP)
- SAMPLE REPORTED AS CLEAN FOR PETROLEUM HYDROCARBON CONSTITUENTS
- ALREADY REMOVED
- SOIL SAMPLE ABOVE STANDARD; EXCAVATION PROPOSED

NOTES:

1. BASE MAP PROVIDED BY CRA, DATED 1/27/2017.
2. PARCEL BOUNDARIES DOWNLOADED FROM ALAMEDA COUNTY OPEN DATA PORTAL: www.data.acgov.org

SITE NO. 206145
800 CENTER STREET
OAKLAND, CALIFORNIA

# PETROLEUM IMPACTED SOIL ABOVE LTCP

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FIGURE 4

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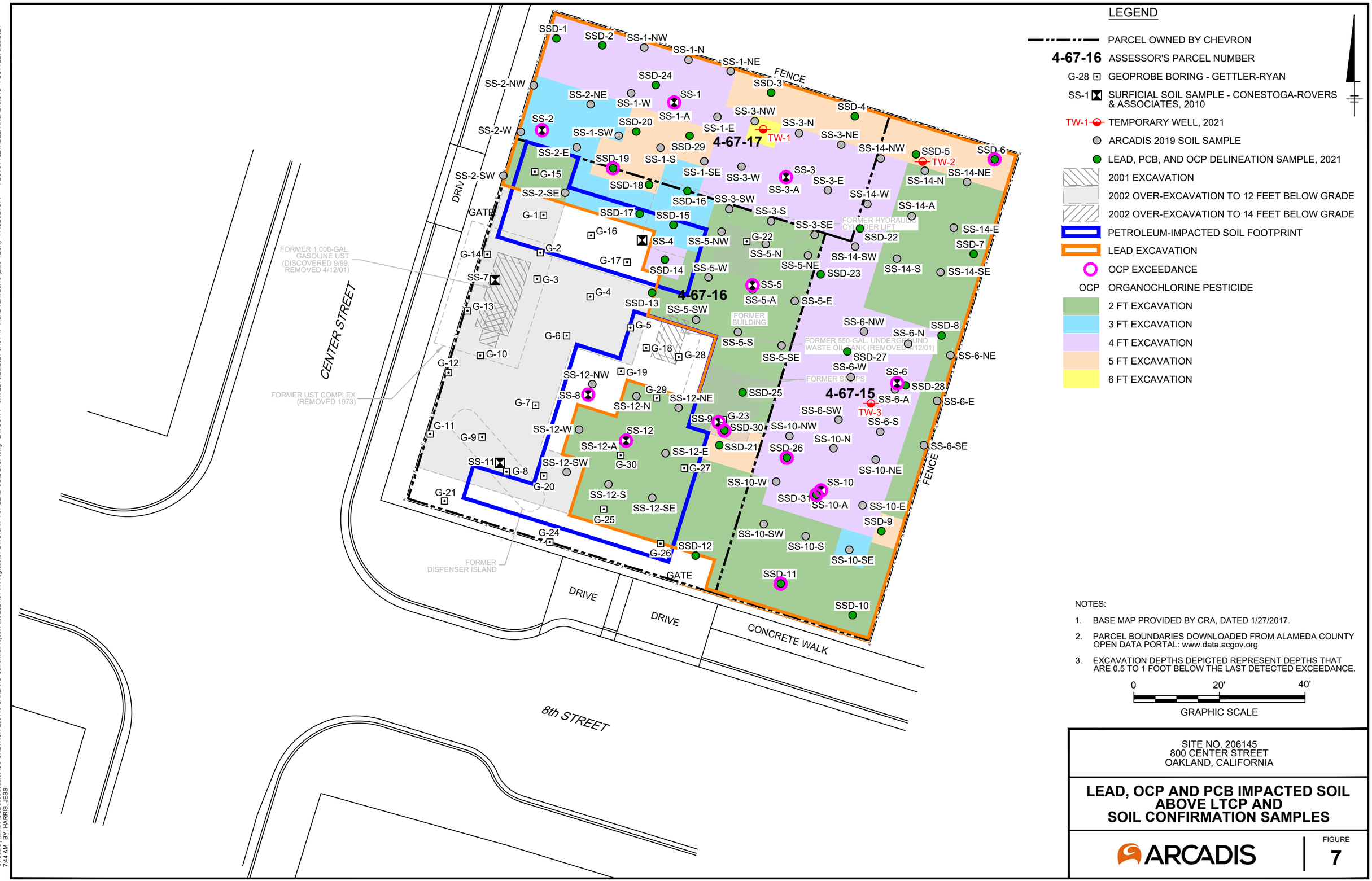


## LEGEND

- PARCEL OWNED BY CHEVRON
- 4-67-16 ASSESSOR'S PARCEL NUMBER
- G-28 GEOPROBE BORING - GETTLER-RYAN
- SS-1 SURFICIAL SOIL SAMPLE - CONESTOGA-ROVERS & ASSOCIATES, 2010
- TW-1 TEMPORARY WELL, 2021
- ARCADIS 2019 SOIL SAMPLE
- LEAD, PCB, AND OCP DELINEATION SAMPLE, 2021
- 2001 EXCAVATION
- 2002 OVER-EXCAVATION TO 12 FEET BELOW GRADE
- 2002 OVER-EXCAVATION TO 14 FEET BELOW GRADE
- PETROLEUM-IMPACTED SOIL FOOTPRINT
- LEAD EXCAVATION
- OCP EXCEEDANCE
- OCP ORGANOCHLORINE PESTICIDE
- 2 FT EXCAVATION
- 3 FT EXCAVATION
- 4 FT EXCAVATION
- 5 FT EXCAVATION
- 6 FT EXCAVATION

NOTES:

1. BASE MAP PROVIDED BY CRA, DATED 1/27/2017.
2. PARCEL BOUNDARIES DOWNLOADED FROM ALAMEDA COUNTY OPEN DATA PORTAL: www.data.acgov.org
3. EXCAVATION DEPTHS DEPICTED REPRESENT DEPTHS THAT ARE 0.5 TO 1 FOOT BELOW THE LAST DETECTED EXCEEDANCE.

0 20' 40'

GRAPHIC SCALE

SITE NO. 206145
800 CENTER STREET
OAKLAND, CALIFORNIA

# LEAD, OCP AND PCB IMPACTED SOIL ABOVE LTCP AND SOIL CONFIRMATION SAMPLES

ARCADIS

FIGURE 7

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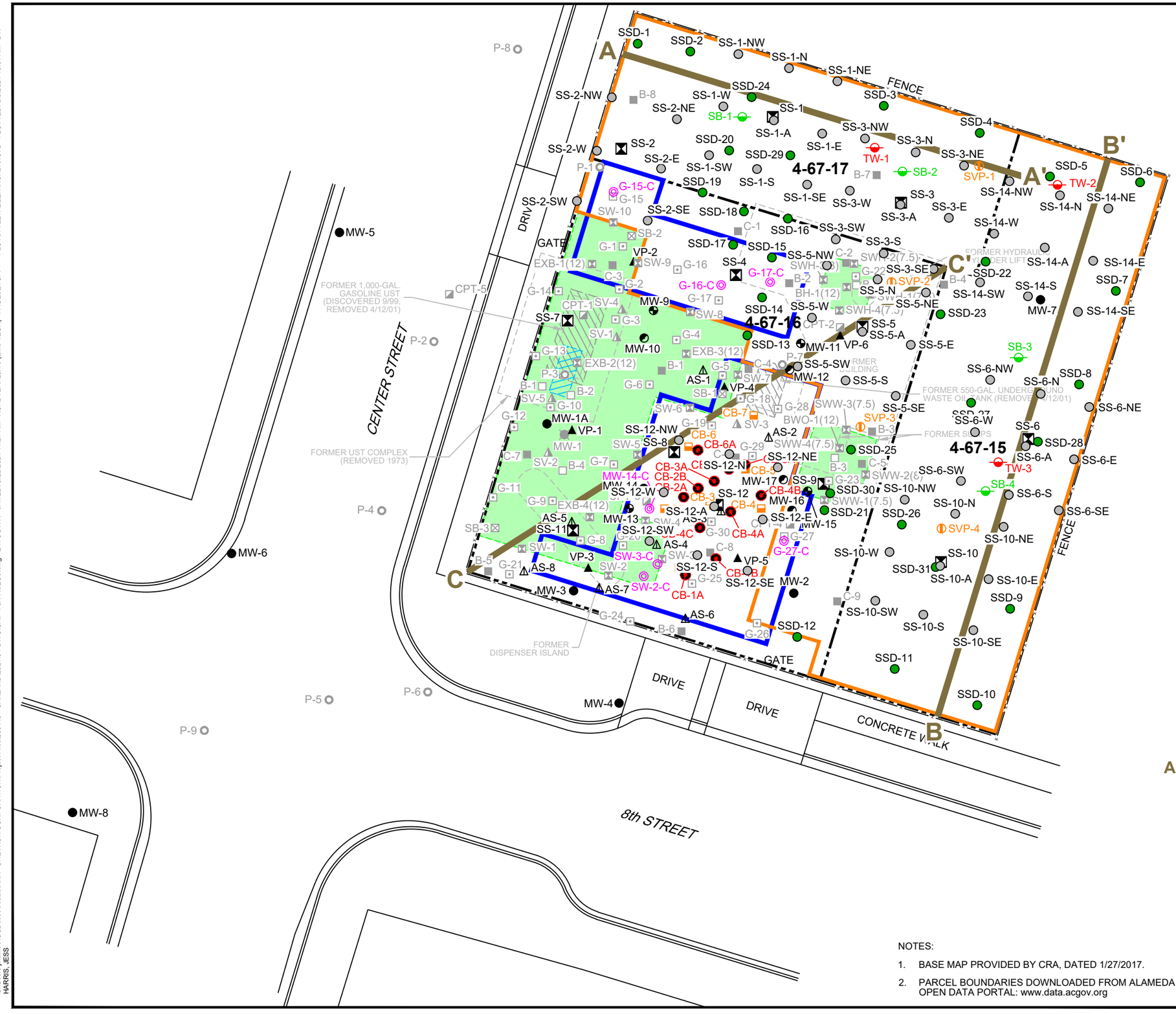


## LEGEND

- PARCEL OWNED BY CHEVRON
- **4-67-16** ASSESSOR'S PARCEL NUMBER
- MW-3 ● SHALLOW MONITORING WELL
- MW-9 ◒ INTERMEDIATE MONITORING WELL
- MW-14 ◐ DEEP MONITORING WELL
- MW-1 ✹ DESTROYED WELL
- VP-3 ▲ VAPOR PROBE
- AS-1 ◬ AIR SPARGING WELL
- SS-1 ☒ SURFICIAL SOIL SAMPLE - CONESTOGA-ROVERS & ASSOCIATES, 2010
- CPT-1 ◪ CPT BORING
- C-1 ■ SOIL BORING
- SS-1-W ● ARCADIS 2019 SOIL SAMPLE
- SW-7 ⊠ SOIL SAMPLE - GETTLER-RYAN
- G-28 ⊡ GEOPROBE BORING - GETTLER-RYAN
- B-1 □ SOIL BORING - SUBSURFACE CONSULTANTS, 1989
- SB-1 ⊠ SOIL BORING - GROUNDWATER TECHNOLOGY, 1995
- SV-1 ◮ SOIL VAPOR PROBE - PACIFIC ENVIRONMENTAL GROUP, 1997
- P-1 ◎ GEOPROBE SOIL BORING - PACIFIC ENVIRONMENTAL GROUP, 1997
- CB-1 ◘ SOIL BORING - CRA, 2014
- CB-1A ◉ EXCAVATION CONFIRMATION SOIL BORING, 2019
- TW-1 ⊖ TEMPORARY WELL, 2021
- SB-1 ⊖ SOIL BORING, 2021
- SVP-1 ◐ SOIL VAPOR POINT, 2021
- G-15-C ◎ CONFIRMATION SAMPLE, 2021
- SSD-1 ● LEAD, PCB, AND OCP DELINEATION SAMPLE, 2021
- 2001 EXCAVATION
- 2002 OVER-EXCAVATION TO 12 FEET BELOW GRADE
- 2002 OVER-EXCAVATION TO 14 FEET BELOW GRADE
- PETROLEUM-IMPACTED SOIL FOOTPRINT
- LEAD EXCAVATION
- OCP ORGANOCHLORINE PESTICIDE
- PCB POLYCHLORINATED BIPHENYL
- A — A' CROSS SECTION LOCATION

0 20' 40'

GRAPHIC SCALE

NOTES:

1. BASE MAP PROVIDED BY CRA, DATED 1/27/2017.
2. PARCEL BOUNDARIES DOWNLOADED FROM ALAMEDA COUNTY OPEN DATA PORTAL: www.data.acgov.org

SITE NO. 206145
800 CENTER STREET
OAKLAND, CALIFORNIA

# CROSS SECTION LOCATION MAP

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FIGURE 8

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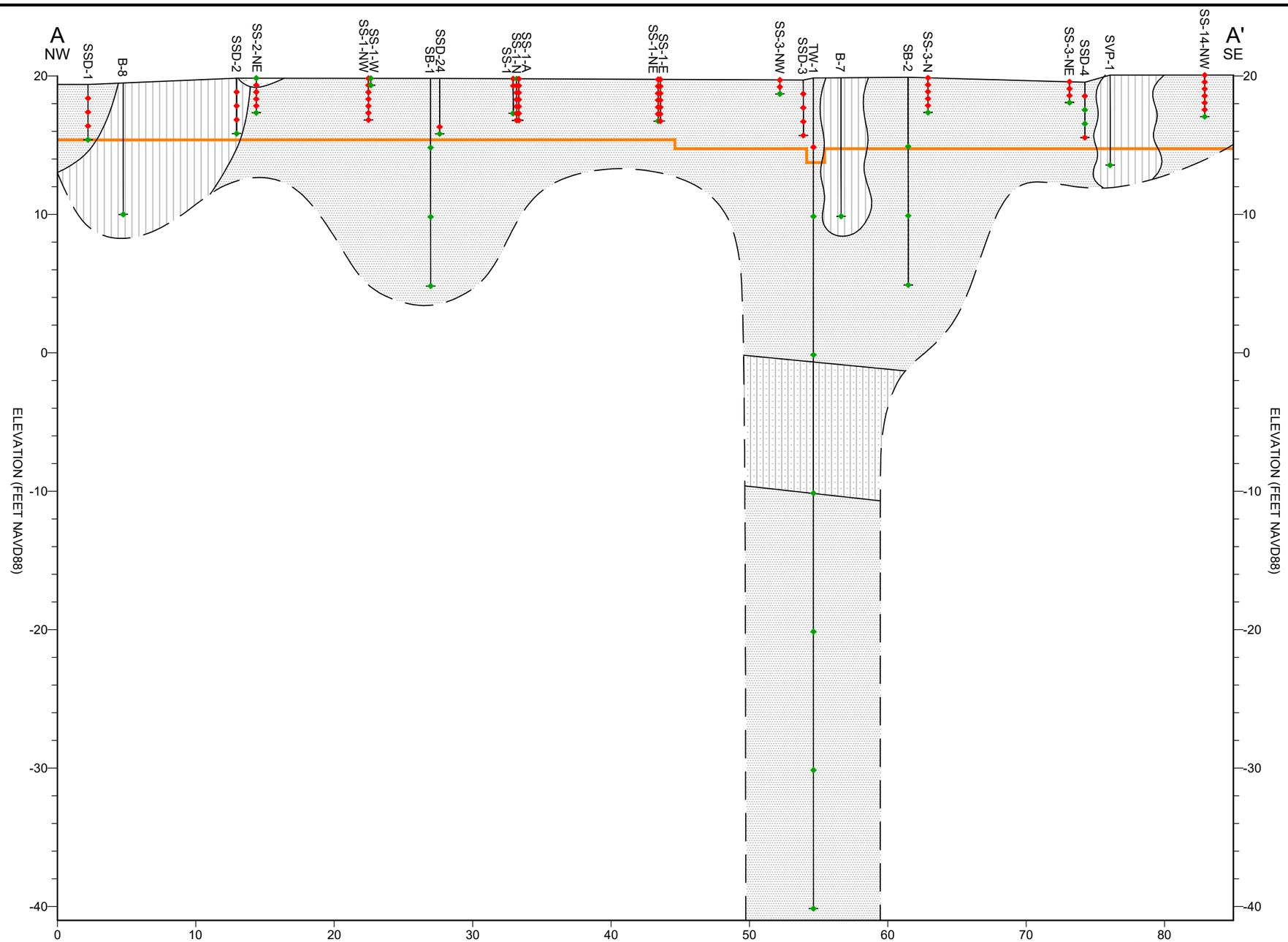


LEGEND

- SB-1 — WELL/BORING DESIGNATION
- GROUND SURFACE
- WELL/BORING INSTALLATION
- BOTTOM OF WELL/SOIL BORING
- LEAD EXCAVATION

SOIL SAMPLE DEPTH
- GREEN = LESS THAN ESLs
- RED = GREATER THAN ESLs
- ORANGE = REMOVED

- SAND
- GRAVELLY SAND
- SILTY SAND, SAND WITH SILT
- SANDY SILT

8
0
8
CROSS-SECTION SCALE IN FEET
VERTICAL EXAGGERATION: 1x

SITE NO. 206145
800 CENTER STREET
OAKLAND, CALIFORNIA

# GEOLOGIC CROSS-SECTION A-A'

ARCADIS

FIGURE 9

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BY: HARRIS, JESS

B
SW

B'
NE

SSD-10
SSD-11
SS-10-sE
SSD-9
SSD-31
SS-10-E
SS-10
SVP-4
SS-10-NE
SS-6-SE
SS-6-S
SB-4
TW-3
SS-6-E
SS-6
SSD-28
SSD-27
SS-6-N
SS-6-NE
SSD-8
SB-3
SS-14-SE
SS-14-S
MW-7
SSD-7
SS-14-E
SS-14-NE
TW-2
SSD-5
SSD-6

ELEVATION (FEET NAVD88)

20
10
0
-10
-20
-30
-40

0
10
20
30
40
50
60
70
80
90
100
110

LEGEND

SB-3 — WELL/BORING DESIGNATION
GROUND SURFACE
WELL/BORING INSTALLATION
BOTTOM OF WELL/SOIL BORING
LEAD EXCAVATION

SOIL SAMPLE DEPTH
GREEN = LESS THAN ESLs
RED = GREATER THAN ESLs
ORANGE = REMOVED

SAND
GRAVELLY SAND
SILTY SAND, SAND WITH SILT
SANDY SILT

8
0
8
CROSS-SECTION SCALE IN FEET
VERTICAL EXAGGERATION: 1x

SITE NO. 206145
800 CENTER STREET
OAKLAND, CALIFORNIA

# GEOLOGIC CROSS-SECTION B-B'

ARCADIS

FIGURE
10

C:\Users\jlharris\ACCDocs\Arcadis\ANA - CHEVRON CORPORATION\Project Files\206145 - OAKLAND\2021101-DWG\CAIP-XSECS AA-BB-CC.dwg LAYOUT: B SAVED: 6/14/2021 8:48 AM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 6/14/2021 9:30 AM
BY: HARRIS, JESS

C
SW

C'
NE

ELEVATION (FEET NAVD88)

B-5 G-21 SB-3 SW-1 SS-11 G-9 SW-4/ MW-14-C G-7 SW-5 SS-8 CB-6A CB-6 SW-6 VP-4 SB-1 SV-3 CB-7 G-18 SW-7 C-4 SSD-13 MW-11 CPT-2 VP-6 SWH-4 SS-5 SWH-1 G-22 SVP-2 B-4

T.D.=40'

T.D.=75'

LEGEND

MW-7 — WELL/BORING DESIGNATION

GROUND SURFACE

WELL/BORING INSTALLATION

BOTTOM OF WELL/SOIL BORING

2002 EXCAVATION

PROPOSED EXCAVATION AREA

LEAD EXCAVATION

SOIL SAMPLE DEPTH
GREEN = LESS THAN ESLs
RED = GREATER THAN ESLs
ORANGE = REMOVED

SAND

GRAVELLY SAND

SILTY SAND, SAND WITH SILT

SANDY SILT

CROSS-SECTION SCALE IN FEET
VERTICAL EXAGGERATION: 4x

SITE NO. 206145
800 CENTER STREET
OAKLAND, CALIFORNIA

# GEOLOGIC CROSS-SECTION C-C'

ARCADIS

FIGURE 11

C:\Users\jlharris\ACCDocs\Arcadis\ANA - CHEVRON CORPORATION\Project Files\206145 - OAKLAND\2021101-DWG\CAIP-XSECS AA-BB-CC.dwg LAYOUT: C SAVED: 6/14/2021 8:48 AM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 6/14/2021 9:31 AM
BY: HARRIS, JESS

# Appendix A

## Soil and Groundwater Management Plan

ARCADIS Design & Consultancy for natural and built assets

Chevron Environmental Management Company

# CONTINGENT CONSTRUCTION SOIL AND GROUNDWATER MANAGEMENT PLAN

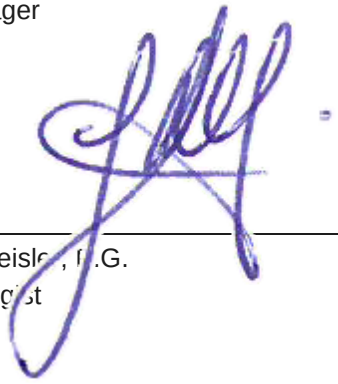
Former Signal Oil Station No. 206145
and Adjacent Parcels
800 Center Street
Oakland, California

August 31, 2021

# CONTINGENT CONSTRUCTION SOIL AND GROUNDWATER MANAGEMENT PLAN

Former Signal Oil Station No. 206145
and Adjacent Parcels
800 Center Street
Oakland, California

Ross LaGrandeur
Project Manager



J. Russell Greisle, P.G.
Senior Geologist

Prepared for:

Chevron Environmental Management Company

Prepared by:

Arcadis U.S., Inc.
2300 Clayton Road
Suite 400
Concord
California 94519
Tel 925 296 7850

Our Ref.:

30045659

Date:

August 31, 2021

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Appendix A Agreement and Acknowledgment Statement

Appendix B ACDEH – Soil Import/Export Characterization Requirements (2019)

Appendix C Dust Monitoring Plan

# ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| ACDEH | Alameda County Department of Environmental Health |
| Arcadis | Arcadis U.S., Inc. |
| BAAQMD | Bay Area Air Quality Management District |
| bgs | below ground surface |
| BMP | Best Management Practice |
| BTEX | benzene, toluene, ethylbenzene, and total xylenes |
| Cal/OSHA | California Occupational Safety and Health Administration |
| CAM-17 | California Title-22 |
| CCR | California Code of Regulations |
| CEMC | Chevron Environmental Management Company |
| Chevron | Chevron U.S.A. Inc. |
| COC | Constituent of Concern |
| CRA | Conestoga-Rovers & Associates |
| CUPA | Certified Unified Program Agency |
| DTSC | Department of Toxic Substances Control |
| EBMUD | East Bay Municipal Utility District |
| ESCP | Emergency Spill Contingency Plan |
| ESL | Environmental Screening Level |
| HASP | Health and Safety Plan |
| HAZWOPER | Hazardous Waste Operations and Emergency Response |
| HSO | Site Health and Safety Officer |
| LEL | lower explosive limit |
| LOP | Local Oversight Program for Hazardous Materials Releases |
| LTCP | Low-Threat Underground Storage Tank Case Closure Policy |
| mg/kg | milligrams per kilogram |
| $mg/m^3$ | milligrams per cubic meter |
| $\mu g/m^3$ | micrograms per cubic meter |
| MIE | Monitoring Instruments for the Environment, Inc. |
| mini-RAM | handheld respirable air monitor |

| | |
|---|---|
| $O_2$ | oxygen |
| OSHA | Occupational Safety and Health Administration |
| Owner | property owner, Chevron U.S.A. Inc., a Pennsylvania corporation |
| PEL | Permissible Exposure Level |
| PID | photoionization detector |
| PM10 | concentration of particulates smaller than 10 microns |
| SGMP | Soil and Groundwater Management Plan |
| Site | 800 Center Street, Oakland, California |
| SWRCB | State Water Resources Control Board |
| TCLP | toxicity characteristic leaching procedure |
| TPH | total petroleum hydrocarbons |
| TPH-d | total petroleum hydrocarbons as diesel |
| TPH-g | total petroleum hydrocarbons as gasoline |
| TLV | Threshold limit valueTWA time-weighted average |
| USEPA | United States Environmental Protection Agency |
| UST | underground storage tank |
| VOC | volatile organic compound |

# 1 INTRODUCTION

This *Contingent Construction Soil and Groundwater Management Plan* (SGMP) has been prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Chevron Environmental Management Company (CEMC) for construction and earthmoving activities associated with the remediation at the former Signal Oil Station located at 800 Center Street, Oakland, California, as well as two adjacent parcels. The three parcels, currently owned by Chevron U.S.A. Inc. (Chevron), are hereinafter referred to as "the Site". The Site is located on the northeastern corner of 8th Street and Center Street and is currently a vacant dirt lot surrounded by chain-link fencing and posted with no trespassing and multi-lingual Proposition 65 notification signs due to shallow soil impacts. The Site is expected to remain vacant for the near future with no plans for redevelopment while cleanup is ongoing.

## 1.1 Regulatory Framework for Environmental Site Cleanup

A Signal Oil service station operated on the corner parcel (Parcel 16) from 1947 to 1965. The parcel was also occupied by a service station operated by others from 1932 to 1947 and 1965 to 1973. Soil and groundwater at the Site have been impacted with petroleum hydrocarbons from these former service station activities. The other two parcels (Parcels 15 and 17) were formerly occupied by residential structures. Lead is present in shallow surface soils on the three parcels, most likely related to lead-based paint from the former residential structures or from deposition of particulates from automobile exhaust over a long period of time when tetraethyl lead was used as a gasoline additive. Organochlorine pesticides (OCPs) are also present in surface soils and are likely from termite abatement and use of similar pest-control products when the former buildings were in use. Polychlorinated biphenyls (PCBs) were also detected in several soil samples; the source of the detected PCBs is unknown. The Alameda County Department of Environmental Health (ACDEH) Local Oversight Program for Hazardous Materials Releases (LOP) is the lead regulatory oversight agency for the environmental investigation and cleanup actions at the Site under Case No. RO0003272 (non-petroleum) and Case No. RO0000454 (petroleum hydrocarbons).

A site map showing the locations and extent of the prior remedial excavations and nearby utilities is provided on Figure 2. A complete record of environmental conditions at the Site may be obtained in the files for Case No. RO0003272 and Case No. RO0000454 (i.e., regulatory directives and correspondence, reports, analytical data, etc.) through review of the State Water Resources Control Board (SWRCB) GeoTracker database.

## 1.2 SGMP Purpose and Objectives

This SGMP is designed to provide the property Owner and contractors associated with the remediation project with guidance for the proper handling and management of impacted or potentially impacted soil and groundwater that will be encountered during the remediation activities.

The goals of this SGMP are to provide detailed information regarding known environmental conditions at the Site and to establish a decision-making structure to assist with the identification and management of impacted media, when encountered. The objectives of this SGMP are as follows:

- Communicate information to site construction workers about site environmental conditions;

- Present protocols for appropriate community protection;
- Present guidelines for health and safety precautions for on-site workers who may access soil or groundwater that could contain residual constituents of concern (COCs);
- Present notification and reporting requirements;
- Present protocols for management of known impacted soil or extracted groundwater generated during site remediation activities; and
- Present contingency procedures in the event that localized areas of unanticipated impacted soil or other subsurface features of environmental concern are encountered during earthwork or excavation activities.

# 2 RESPONSIBILITY FOR SGMP IMPLEMENTATION

Chevron (Owner) currently owns the Site. Representatives for the Owner will oversee implementation of the SGMP during the remedial activities at the Site. A copy of this SGMP will be maintained and accessible at the Site at all times during the work. The Owner will be responsible for making all employees or contractors who may be conducting activities covered by the SGMP aware of the requirements of the SGMP. The Owner is responsible for providing an electronic copy and access to a hard copy of the SGMP to all employees or contractors who are performing activities covered by this SGMP or who may encounter suspect subsurface conditions during execution of their work. It is the responsibility of the Owner to ensure that activities conducted at the Site are in compliance with the requirements of the SGMP.

The project Environmental Consultant listed in Section 2.2 will be present to assist the Owner and contractors with the implementation of this SGMP when ground disturbing activities are being conducted in areas where contamination is known or suspected or when unknown conditions are encountered. This SGMP authorizes ACDEH to access the Site for the purposes of evaluating compliance with the SGMP at any time that the activities covered by the SGMP are being implemented.

## 2.1 Activities Covered by the SGMP

The following activities constitute the work covered under this SGMP:

- Remedial Excavation – planned earthmoving activity to remove impacted soil; and
- Backfill of excavation areas including the addition of a soil amendment

## 2.2 Project Team Contact Information

Prior to the initiation of activities that are covered under this SGMP, the Owner will confirm the project Owner Representative, General Contractor, and Environmental Consultant listed below. Regular and 24-hour emergency contact information for these individuals will be confirmed and updated as necessary. A project contact sheet will be provided to the General Contractor and posted in an accessible and suitable location at the Site.

| Project Role | Company Name | Name | Contact Information |
|---|---|---|---|
| Owner Representative | CEMC | Bradley Rogers | 510.242.9700 (brogers@chevron.com); |
| General Contractor | Arcadis U.S., Inc. | Travis Phelps | 775.233.4747 (Travis.Phelps@arcadis.com) |
| Environmental Consultant | Arcadis U.S., Inc. | Ross LaGrandeur | 206.726.4754 (Ross.LaGrandeur@arcadis.com) |

## 2.3 Worker Health and Safety

In addition to following the SGMP, each General Contractor and any subcontractors are responsible for the safety of their employees and site visitors including but not limited to adherence to a Health and Safety Plan (HASP) and use of properly trained personnel:

- **Preparation of a Site-Specific HASP:** A HASP will be prepared for the project in accordance with California Occupational Safety and Health Administration (Cal/OSHA) Construction Safety Orders within Title 8 of the California Code of Regulations (CCR). The General Contractor is responsible for notifying subcontractors and visitors of pertinent environmental conditions to ensure adequate protection for workers and visitors while on site. Subcontractors may either adopt the General Contractor's HASP or prepare their own HASP. In the event of a change in conditions on site, the HASP will be modified accordingly.
- **Use of Properly Trained Personnel:** Each contractor engaged in contact and management of impacted soil or groundwater will use properly trained personnel in accordance with CCR Title 29, Part 1910.120 Hazardous Waste Operations and Emergency Response (HAZWOPER) standards.

## 2.4 Community Protection During Site Activities

Land use adjacent to the Site is residential and commercial properties. A map of the land use in the immediate vicinity of the Site is presented on Figure 3. During the performance of excavation activities at the Site, the General Contractor will implement measures to control potential risks to the surrounding community from fugitive dust emissions and odors. These activities will be implemented when there is the potential for exposed soil to affect the nearby community. It is anticipated that air monitoring will be required when excavating and working on exposed soil surfaces.

## 2.5 Agreement and Acknowledgement Statement

Prior to commencement of any Site activities that disturb the ground surface, the General Contractor and any subcontractors will read this SGMP and sign the Agreement and Acknowledgement Statement (Appendix A) to certify that they have read, understood, and agreed to abide by its provisions.

# 3 AGENCY NOTIFICATION AND REPORTING REQUIREMENTS

The responsible party (or designated representative) will notify the ACDEH LOP and other agencies as applicable during Site activities in accordance with the protocols described below.

## 3.1 ACDEH Notification

The responsible party (or designated representative) will notify the ACDEH LOP and the ACDEH Certified Unified Program Agency (CUPA) during Site activities in accordance with the protocols described below.

### 3.1.1 ACDEH LOP and CUPA Contact Information

The primary points of contact for the ACDEH LOP and CUPA are provided below. All agency notifications must be made by phone and email. An ACDEH contact sheet will be provided to the General Contractor and posted in an accessible and suitable location at the Site.

| Name | Phone and Email |
|---|---|
| Noel Liner; ACDEH LOP Case Worker | 510.567.6876; noel.liner@acgov.org |
| Paresh Khatri, ACDEH LOP Program Manager | 510.567.6700; paresh.khatri@acgov.org |
| ACDEH CUPA | 510.567.6702; dehalamedacers@acgov.org |

### 3.1.2 24-Hour Notification

The ACDEH LOP will be notified within 24 hours of discovery if any of the following potentially hazardous conditions are encountered:

- Releases or spills of hazardous substances or petroleum hydrocarbons to soil or water that are considered, based on best professional judgment and/or physical evidence (including but not limited to olfactory, visual, field instrument, and laboratory data), to be an immediate threat to human health and the environment; and/or
- Discovery of unknown conditions (e.g., underground storage tanks (USTs), sumps, vaults, piping) or newly found contamination.

If any previously unidentified or unknown underground structures, including tanks, vaults, sumps, containment structures, separators, or piping that have previously contained or has the potential to contain hazardous materials, are encountered during site grading activities, the ACDEH LOP and CUPA will be notified within 24 hours of the discovery and consulted regarding appropriate next steps.

### 3.1.3 72-Hour Notification

The ACDEH LOP will be notified 72 hours in advance of ground disturbing activities in areas of known or suspected contamination.

## 3.2 Other Agency Notification

In addition to the ACDEH notification requirements discussed above, other agency notifications may be required. Contact information for other agency notifications that may be required is provided below. Prior to the initiation of activities that are covered under this SGMP, the Owner or designated representative will confirm the contact information listed below. An agency contact sheet will be provided to the General Contractor and posted in an accessible and suitable location at the Site.

| Agency to be Notified | Contact Information |
|---|---|
| **Conditions Posing an Immediate Threat. For life-threatening or serious hazardous materials incidents, the following number will be contacted immediately upon discovery.** | |
| Local police, fire, and rescue services | 911 |
| **Releases to Water. For spills or releases of hazardous substances or petroleum hydrocarbons to surface water, the following agencies will be contacted immediately upon discovery.** | |
| National Spill Response Center | 800.424.8802 |
| United States Coast Guard – San Francisco Sector (if spill will reach navigable waters) | 415.399.3547 |
| California Office of Emergency Services | 916.845.8510 |
| Local Emergency Response Agency – Alameda County Emergency Services | 911 or 510.618.3485 |
| **Volatile Organic Compound- (VOC-) Impacted Soil. If VOC-impacted soil is discovered during ground disturbing activities, the following agency will be notified.** | |
| Bay Area Air Quality Management District (BAAQMD) | 1.800.334.6367 |
| **Dust Complaints. For dust complaints during ground disturbing activities, the following agencies will be notified.** | |
| City of Oakland Building Department | 510.238.3941 |
| BAAQMD | 1.800.334.6367 |

## 3.3 Record Keeping and Reporting Requirements

All soil excavation, groundwater removal, disposal, and import activities will be documented in daily field reports by the General Contractor and/or Environmental Consultant and will be maintained by the Owner and made available to the ACDEH upon request. At a minimum, documentation will include the following, as applicable:

- **Groundwater** – discrete volumes of groundwater that are removed, treated, stored, used, discharged, and transported; results of characterization; destination (transported to temporary holding tanks, used as dust suppression, and/or disposed of off-site);
- **Underground Structures** – type, contents, characterization, and destination (abandoned in place or disposed of off-site);
- **Impacted Soil** – discrete volumes of soil excavated, stockpiled, exported, or reused; results of characterization; identification of destination (transported to temporary soil locations within the Site, disposed of off-site, and/or reused on site);
- **Imported Soil** – origin, volume, characterization, and destination (location on site);
- **Off-site Disposal Records** – date, time, trucking company, driver, and vehicles used for the trip, equipment decontamination and tarping, waste/material type, volume, copies of bills-of-lading, and hazardous waste manifests;
- **Dust Complaint Logs** – time, name and contact information, compliant description, earthwork activities associated with complaint, and measures taken to mitigate dust;
- **Analytical Reports** – copies of waste characterization laboratory analytical results; and

- **Monitoring and Screening Equipment Records** – calibration and response logs for dust or air monitoring equipment used to evaluate environmental media or monitor emissions of VOCs or dust such as photo-ionization detectors (PIDs) or dust monitors.

Following completion of the work covered by this SGMP, the responsible party (or designated representative) will submit to the ACDEH a Soil and Groundwater Management Plan Implementation Report that documents completion of remediation activities and compliance with this SGMP. The report must, at a minimum, contain the following:

- Description of the work completed during the reporting period, including figures depicting areas of work and tables summarizing the soil and groundwater removal, disposal, reuse, and import activities;
- Description of the work scheduled for the following reporting period (if any);
- Updates to construction team for the Site;
- Identification and justification for any deviations from the SGMP; and
- Summaries of copies of documentation records described above.

# 4 ENVIRONMENTAL SITE CONDITIONS

Soil and groundwater have been impacted at the Site from historical uses and/or long-term exposure to particulates from vehicle exhaust. Known environmental conditions in soil, groundwater, and soil vapor are summarized below. Tabulated results of analytical data are provided in Tables 1, 2, and 3.

## 4.1 Soil Conditions

Based on previous Site assessment activities and available boring logs, the subsurface beneath the Site consists primarily of sand and silty sand to the maximum depth explored of 80 feet below ground surface (bgs). Silt, with thin clayey silt and silty clay stringers, occurs between approximately 50 and 65 feet bgs (Conestoga-Rovers & Associates [CRA] 2010). Known remaining soil impacts include the following:

- **Petroleum Impacts:** In 2002, 1,584 tons of petroleum hydrocarbon-impacted soil were excavated from the areas of the former gasoline USTs, dispenser islands, hydraulic hoist, and a former sump to total depths of 12 to 14 feet bgs. Since that time, numerous borings have been drilled to evaluate remaining soil quality. Most recently, in April 2019, 11 borings were drilled in the central portion of the Site. Elevated concentrations of TPH-g (up to 33,000 milligrams per kilogram [mg/kg]) and TPH-d (up to 7,800 mg/kg) were detected in samples collected from 7.5 to 12.5 feet bgs from the borings; only low concentrations were detected (or the constituents were non-detect) in the shallower and deeper samples collected. A similar distribution was seen for BTEX (up to 110 mg/kg, 2,300 mg/kg, 870 mg/kg, and 4,000 mg/kg, respectively) and naphthalene (up to 160 mg/kg). These results confirmed the presence of impacted soil at the Site that was not previously excavated. In 2021, six borings were advanced on the former service station property to confirm past elevated concentrations. Elevated concentrations above the Low Threat Closure Policy (LTCP) ESLs were detected in each boring at the 10 feet bgs interval. ESLs were not exceeded in any boring at the 5 or 15 feet bgs intervals. Additionally, 7 borings were advanced on the two adjacent parcels to evaluate petroleum hydrocarbons in soil and groundwater. Soil and groundwater results were below applicable ESLs and

water quality objectives with the single exception of a polycyclic aromatic hydrocarbons (PAHs) detection above the LTCP ESL in boring TW-1 at 5 feet bgs. Due to the lack of petroleum hydrocarbons detected in this area, this single PAH exceedance is likely not associated with the former service station release.

- **Lead/OCP/PCB Impacts:** In January 2010, CRA collected soil samples at the surface and at depths of 0.5 and 2.5 feet bgs from 12 locations (SS-1 through SS-12) across the Site. The detected lead concentrations at most of the locations exceeded the residential ESL of 80 mg/kg. These soil samples were located on the two parcels adjacent to the former service station. Detected concentrations of OCPs at one or more depths also exceeded the ESLs at 9 locations. PCBs were detected in several of the samples but only exceeded the ESL in the surface sample at SS-6.

  In April 2019, Arcadis advanced 69 soil borings to 1 or 3 ft bgs in grid patterns across the Site both surrounding the previous samples from 2014 with elevated lead and in areas where no prior sampling had been performed; and collected samples at 0.5-foot intervals to further evaluate the extent of lead impacts. Lead was detected in the majority of the samples at concentrations above the ESL (Arcadis 2019b).

  In April of 2021, Arcadis advanced 31 soil borings up to 4 feet bgs in grid patterns across the Site to additionally characterize areas not investigated previously or to delineate previous lead, OCP, and PCB detections. Lead was detected in the majority of sample locations at concentrations above the ESL. OCPs were detected above the ESLs in 9 locations, while PCBs were not detected above the ESLs. Furthermore, the single PCB exceedance detected in the 2010 investigation was directly confirmed with an adjacent boring where no PCBs were detected, which shows that there are no known PCB exceedances at the Site. These investigations show that soil impacted with lead and OCPs greater than the ESL remains across most of the unexcavated portion of the Site.

  In August 2021, field staff collected 10 hand auger lead soil samples to further characterize lead soil for soluble threshold limit concentration (STLC) and toxicity characteristic leaching procedure (TCLP) parameters to help define the waste profile for disposal during the excavation event. Results of this sampling will be reported under separate cover.

## 4.2 Groundwater Conditions

Historically, groundwater has been encountered in monitoring wells between 3 and 13 feet bgs in the shallow screened wells but is more commonly observed between 6 and 12 feet bgs. Groundwater flow is generally to the southwest (Arcadis 2020). The highest remaining concentrations of petroleum hydrocarbons in monitoring wells on-site are in MW-3 in the vicinity of the former dispensers. During the most recent monitoring event, TPH-g was detected in MW-3 at 1,600 microgram per liter (ug/L); but only low BTEX (up to 1 ug/L). However, grab groundwater samples collected from the 11 borings drilled in 2019 contained much higher concentrations of petroleum hydrocarbons. Elevated concentrations of TPH-d (ranging from 3,500 to 100,000 µg/L), TPH-g (ranging from 120,000 to 260,000 µg/L), benzene (ranging from 1,100 to 14,000 µg/L), toluene (ranging from 12,000 to 120,000 µg/L), ethylbenzene (ranging from 3,200 to 41,000 µg/L), xylenes (ranging from 13,000 to 180,000 µg/L), and naphthalene (ranging from 210 J to 5,800 µg/L) were detected in the samples. These samples confirmed the presence of residual impacted shallow groundwater in the central portion of the Site that does not appear to be significantly

migrating. Deeper groundwater petroleum hydrocarbons had not been detected in these wells for some time. In 2021, Arcadis sampled the deep and intermediate screened wells and also collected grab groundwater samples on the two adjacent properties from three deep screened locations (TW1 through TW-3) and four shallow screened locations (SB-1 through SB-4). TPH-d was the only constituent detected in the deep and intermediate screened wells, which is consistent with previous sampling results. The grab samples collected from temporary wells installed on the two adjacent parcels also showed limited detections with no water quality objectives exceedances.

Full list VOCs and semi-volatile compounds were analyzed in each existing monitoring well and grab samples. Although several constituents were detected, none exceeded water quality objectives and there is no indication of groundwater contamination from alternative sources including waste oil USTs or unknow releases from either of the three parcels.

### 4.3 Soil Vapor Conditions

Soil vapor sampling was performed at the Site from 2007 through 2012 and in 2021. The most recent analytical results for benzene, ethylbenzene and naphthalene were below the more conservative residential LTCP criteria, indicating no soil vapor health and safety concerns for contractors associated with the remediation project. However, there is the potential for exposure to fugitive vapors as a result of excavation that is discussed further below. Soil vapor analytical results are presented in Table 3.

## 5 PRE-FIELD ACTIVITIES

The pre-field activities include a description of planning and organizational aspects required for excavation to begin.

### 5.1 Site Security and Access

During remediation activities, the Site will remain secured to provide protection and safety to on-site personnel and equipment, and to prevent unauthorized access to the Site. A 6-foot-high chain link fence surrounds the perimeter of the Site and will enclose the staging area and the work zones (i.e., any exclusion, decontamination, and support zones). During non-working hours, the fencing will be fully closed and locked. During excavation activities, access will be restricted to authorized personnel only.

### 5.2 Traffic Control

Caution will be exercised during entrance into and exit from the Site to ensure safe and uninterrupted traffic flow. Entrance into and departure from the Site by trucks will be facilitated by a flagger, or comparable contractor personnel, as necessary. Once trucks have left the Site, they will follow specific haul routes to disposal facilities as described in Section 9.4.2. A detailed Traffic Control Plan will be included in the application for the grading permit that is required for this work.

### 5.3 Excavation Permit

All necessary permits for removal activities, transportation, and/or air quality will be obtained prior to excavation. The permits will be kept on-site during the work and made available for inspection during working hours. The procedures proposed for excavation activities will comply with federal, state, and local rules and regulations, regardless of whether permit documents are required.

### 5.4 Notifications and Utility Clearance

The contractor will notify the BAAQMD of excavation activities at least 5 days prior to implementation. In addition, the contractor will notify the ACDEH of the soil excavation activities at least 72 hours before commencing work. The proposed excavation areas will be marked in white paint prior to contacting Underground Service Alert at least 48 hours prior to excavating, as required by law. A private utility locating service will also be utilized to mark and clear proposed excavation locations relative to the presence and/or marked locations of potential subsurface utilities.

## 6 SOIL MANAGEMENT

Impacted soil will be excavated under the observation and direction of the Environmental Consultant. Excavation soil will be transported off-site for disposal as described in Section 9. Suitable fill material ("Clean Soil") as defined by ACDEH LOP, is soil that will not have an adverse effect on human health or the environment when imported to the receiving site.

### 6.1 Excavation of Impacted Soil

Excavation of the impacted soil at each excavation area (containing petroleum hydrocarbons, lead, OCPs, and/or PCBs) at depths ranging from 0 to 14 feet bgs will be conducted in the following general sequence:

- Develop staging areas, access paths for equipment, work zones, and decontamination areas for use during handling of impacted soil to reduce the potential of tracking waste off-site.
- Identify locations of perimeter air monitoring stations, as necessary, and begin monitoring to comply with BAAQMD regulations, the HASP, and the protocols in Section 10 of this SGMP.
- Stockpile soil for characterization or direct load onto trucks for appropriate off-site disposal.
- Follow dewatering procedures outlined in Section 8 of this SGMP.
- Characterize stockpiled soil (if not completed prior) by collecting samples using a pre-cleaned hand trowel and transferring into laboratory-supplied glass containers. One four-point composite sample will be collected (following United States Environmental Protection Agency [USEPA] Methodology SW-846) for every 250 cubic yards of material generated; or per disposal/accepting facility requirements.
- Following soil sample collection, label the containers for identification and immediately place them in a chilled, thermally insulated cooler. The cooler containing the samples will then be delivered under

chain-of-custody protocol to a state-certified laboratory. Composite samples will be analyzed, at a minimum, for:

- California Title 22 (CAM-17) metals;
- Waste characterization for extractable metals tests (i.e., leaching test include waste extraction test [WET] and/or TCLP)
- TPH (USEPA Method 8015) with a 96-hour fish bioassay if:
  - TPH-d ≥ 10,000 mg/kg, and/or
  - TPH-g ≥ 5,000 mg/kg;
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) (USEPA Method 8260) with Toxicity Characteristic Leaching Procedure (TCLP) benzene in the event of:
  - Benzene > 10 mg/kg.
- PCBs (USEPA Method 8082)
- OCPs (USEPA Method 8081A)

- Confirmation soil samples will be collected directly from the excavation sidewalls and bottom using properly decontaminated hand tools or, if conditions warrant, from the bucket of the excavation equipment as described in the *Corrective Action Implementation Plan* (CAIP). If previously unidentified suspected impacted soil is identified during excavation, then measures outlined in Sections 6.2 and 6.3 will be implemented.

## 6.2 Contingency Measures for Previously Unidentified Suspect Soils

Due to the extensive characterization conducted at the Site, it is unlikely that previously unidentified suspect soils will be encountered. Characterization activities in 2021 are detailed in the CAIP and summarized above in section 4. This characterization included the evaluation of full list VOCs and semi-volatile compounds across each parcel in soil and groundwater. These results show that there are no previously unidentified compounds that would indicate the presence of an unknown release or release of previously unidentified compounds. The following contingency measures will be implemented in the event that previously unidentified suspected impacted soil is identified during Site excavation. All contingency measures will be conducted by HAZWOPER-trained environmental professionals in accordance with the HASP.

A representative of the responsible party will be present during excavation activities in case unexpected contamination or subsurface structures are encountered.

### 6.2.1 Identification of Impacted Soil

The contractor will be instructed to report indicators of impacted soil, in particular petroleum hydrocarbons. The three primary physical indicators of petroleum-related contamination in soil include staining, sheen, and petroleum-like odor, as described below:

- **Staining:** Generally, soil that is impacted with petroleum hydrocarbons exhibits gray, black, or green staining, although other contaminants and natural conditions may also cause staining.
- **Sheen:** Sheen is another indication of petroleum-related contamination. Soil exhibiting sheen may appear shiny and reflective. Sheens from heavily impacted soil may appear iridescent with rainbow-like colors.
- **Odor:** Soil impacted with petroleum products, VOCs, and other types of contamination may release vapors when exposed to the atmosphere. These vapors can be interpreted as an odor. Odor can be subjective, and inhalation of vapors from impacted soil is harmful to human health. Therefore, odor is considered an inadvertent field indicator and should not be used for continuous screening of soil.

If previously undocumented soil exhibiting evidence of contamination is encountered during excavation, the contractor will cease excavation activities in the area. The contractor will not conduct any work in the area of concern or replace any known or suspected impacted soil in the excavation area without prior approval by the ACDEH LOP.

### 6.2.2 Preliminary Assessment

Preliminary assessment of the previously unidentified suspect soil will include confirmation that access control measures installed by the General Contractor are adequate to provide necessary protection to on-site workers and the public during the evaluation phase. Confirmation will consist of monitoring of the air outside the control area, fencing, and plastic covering on stockpiled soil.

Air monitoring will be conducted around the perimeter of the secured area using a combination PID meter to measure VOCs in the breathing zone and a lower explosive limit/oxygen meter to measure concentrations of combustible gases and available oxygen. If the air monitoring suggests that the control measures are improperly positioned to provide necessary protection to on-site workers, the barriers will be relocated, as necessary.

A preliminary assessment to determine if the previously unidentified suspect soil is considered a significant risk to human health and/or the environment will be conducted. If field observations suggest that the suspect conditions are de minimis and (1) do not present a threat to human health or the environment, or (2) would generally not be subject of an enforcement action if brought to the attention of appropriate governmental agencies, then the contingency plan process will be terminated and the suspect areas will be released to the General Contractor.

## 6.3 Evaluation of Previously Unidentified Suspect Soil

If conditions in suspect areas are not considered de minimis based on elevated concentrations detected by laboratory results from environmental samples, the ACDEH LOP will be notified within 24 hours of discovery and the nature and extent of the potentially impacted soil will be evaluated in accordance with the protocols below.

- **In-Situ Soil Samples:** A soil sample will be collected from the same location and depth as the previously unidentified suspect soil and 1 foot below this depth. Additional samples will be collected at the same depths at a minimum of four step-out locations to assess soil conditions around the suspect sample location. The four step-out locations will be approximately 5 feet to the north, south, east, and

west of the suspect sample location. Samples will be collected using a pre-cleaned hand trowel, transferred into laboratory-supplied glass containers, observed for evidence of odors and staining, and screened for VOCs using a PID. If any of the in-situ soil samples show evidence of odors and staining or VOCs are detected above 10 parts per million by volume, then environmental sample(s) will be retained for analyses and submitted to a laboratory.

- **Stockpiled Soil Samples:** If previously unidentified suspect soil is stockpiled on-site, samples will be obtained using a pre-cleaned hand trowel and transferred into laboratory-supplied glass containers. One four-point composite sample will be collected (following USEPA Method SW-846) for every 250 cubic yards of material generated, or per disposal/accepting facility requirements.
- **Laboratory Analysis:** Following soil sample collection, the containers will be labelled for identification and immediately placed in a chilled, thermally insulated cooler. The samples will then be delivered under chain-of-custody protocol to a state-certified laboratory. Discrete and composite samples will be submitted, at a minimum, for laboratory analysis of:
  - CAM-17 metals;
  - Waste characterization for extractable metals tests (i.e., leaching test include WET and/or TCLP)
  - TPH (USEPA Method 8015) with a 96-hour fish bioassay if:
    - TPH-d ≥ 10,000 mg/kg, and/or
    - TPH-g ≥ 5,000 mg/kg;
  - BTEX (USEPA Method 8260) with TCLP benzene in the event of:
    - Benzene > 10 mg/kg;
  - PCBs (USEPA Method 8082 with soxlet extraction method)
  - OCPs (USEPA Method 8081A)

After the evaluation is complete, the ACDEH LOP will be consulted to validate conclusions regarding potential risks of the suspect material to human health and the environment as well as proper removal and disposal of the impacted soil. All soil removal work will be approved by the ACDEH LOP prior to implementation. If VOC-impacted soil is encountered, notification will be provided to the BAAQMD as required in the guidelines and notification requirements set by Regulation 8, Rule 40 of the BAAQMD Rules and Regulations for aeration of impacted soil.

## 6.4 Reuse of Concrete and Soil Importation

Reuse of crushed concrete or use of imported fill material will be characterized and approved by the ACDEH prior to being placed at the Site in accordance with ACDEH's Soil Import/Export Characterization Requirements dated August 1, 2018 and revised on August 9, 2019.

# 7 CONTINGENCY MEASURES FOR DISCOVERY OF UNEXPECTED UNDERGROUND STRUCTURES

USTs may be identified during grading and site excavation activities by the presence of vent pipes that extend above the ground surface, product distribution piping that leads to the UST, fill pipes, backfill materials, or the underground structure itself. Other buried structures may not have features that extend above the ground surface and could be discovered only after contact with construction equipment.

The removal or burying of any of these structures without prior acknowledgement and approval from the ACDEH is prohibited. In the event unexpected underground structures are encountered, the notification requirements set forth in Section 3 will be followed. Discovered structures will be assessed as follows:

- The structure will be inspected to assess whether it contains any indication of chemical residuals or free-phase liquids other than water. This assessment will be conducted by the Environmental Consultant and will be based on visual evidence and the results of vapor monitoring using a PID. Under no circumstances will any personnel enter an unknown subsurface structure at any time. If chemicals are not indicated within the structure by the above-referenced means and with ACDEH approval, the structure may be removed or abandoned in place in a safe manner by the contractor;
- If liquids or solids are present within the structure, measures will be taken to contain the liquids to avoid spills to the subsurface. Samples will be collected and submitted to a California-certified laboratory for analysis. Liquids or solids may be temporarily drummed, or liquids may be collected by vacuum truck, while analysis is pending. Based on analytical results, the liquids or solids will be disposed of under the direction of the Environmental Consultant in accordance with all applicable environmental laws and disposal requirements.
- If impacted liquids or solids are present in the structure, the structure will be inspected for physical integrity following removal of the impacted media. The Environmental Consultant will document the results of this inspection, including an estimation of the volume and former use of the structure.
- If the physical inspection of the structure suggests that chemicals may have been released to the underlying soils, additional environmental investigations of the underlying soils will be conducted to assess whether a release sufficient to warrant removal has occurred.
- If, based on the opinion of the Environmental Consultant and ACDEH, it is assessed that the structure is intact, that subsurface releases of the chemicals to the underlying soils likely did not occur, and no free-phase liquids or chemical residues remain inside, removal of the structure may not be required for environmental reasons.
- Otherwise, with ACDEH approval, the structure will be excavated and disposed of at the direction of the Environmental Professional. Once the structure is removed, soils adjacent to and beneath the structure will be assessed for contamination through visual observation and organic vapor analysis and the results documented. If soils are determined to be “impacted” with VOCs in the context of BAAQMD Rule 8 40, the appropriate response will be determined in consultation with the ACDEH.
- The ACDEH may require further response actions based on the discovery of hazardous materials that pose an unreasonable risk to human health and safety or the environment.

# 8 GROUNDWATER MANAGEMENT

Groundwater at the Site is historically located at a depth of 3 to 13 feet bgs but more typically ranges from 6 to 12 feet bgs. During remedial excavation, construction dewatering may be necessary. If dewatering of any excavation will be necessary during construction activities, the effluent will be temporarily stored, characterized, and disposed of offsite.

Construction dewatering effluent, if generated, shall be pumped into holding tanks and sampled and analyzed for the parameters required for offsite disposal. Chemical testing will be performed in accordance with the licensed receiving facility's requirements prior to disposal. A batch permit for discharge to the sanitary sewer will not be required because any wastewater generated will be temporarily stored, characterized, and disposed offsite.

# 9 WASTE MANAGEMENT

## 9.1 Soil Characterization Prior to Off-Site Disposal

Soil that has been pre-characterized by laboratory analysis and is intended for off-site disposal can be loaded directly onto trucks for transport to the receiving facility once the appropriate off-site disposal location and permitting have been completed. Some soil may need to be placed in temporary on-site stockpiles because: (1) the soil requires further characterization prior to off-site disposal; (2) short-term storage is necessary until haul trucks are available to transport the soil off site for disposal; or (3) the soil needs processing or sorting prior to landfilling. If soil is not adequately characterized to directly load and haul, then it may be necessary to stockpile and/or sample. Stockpiled soil will be characterized as required by the receiving facility. In the event very high concentrations are found in a four-point composite sample, the four individual subsamples may be run for that specific constituent in an attempt to isolate the soils containing the highest impacts for disposal.

## 9.2 Soil Stockpile Management

Soil that is placed in temporary stockpiles will be well-maintained at all times to prevent run-on/runoff and fugitive dust emissions. All stockpiled soil will be placed on impermeable plastic sheeting (minimum 10-mil-thick). The plastic sheeting will prevent the runoff of soil and potential contaminants to surrounding areas. The soil stockpile will be covered with plastic sheeting to prevent erosion or leaching of contaminants to underlying soil and prevent exposure to precipitation and wind. Plastic sheeting that covers the soil stockpile will be secured using sandbags or equivalent. If direct load of soil onto trucks for immediate off-site disposal cannot be accomplished, stockpiles will be secured during work that day and removed as soon as possible. Following removal, the soil stockpile area will be restored to a pre-stockpile condition. Following stockpile removal, residual plastic or debris will also be disposed of in a proper manner.

## 9.3 Decontamination Procedures

To prevent residual contamination from leaving the Site by construction equipment and personnel during excavation activities, the following decontamination procedures will be followed:

- Before excavated materials are loaded onto trucks, plastic sheeting will be placed on the ground such that any spilled material will be prevented from contacting the ground surface. Upon completion of loading, any debris will be placed in the transportation vessel and the plastic sheeting will be reused or disposed of in a proper manner.
- To minimize the spread of impacted soil, equipment will be cleaned prior to movement out of active work zones. The equipment wheels/tires will be cleaned over plastic sheeting using shovels and stiff-bristled brooms or brushes until they are fully cleaned. Upon completion of cleaning, any debris will be placed in the appropriate transportation vessel and the plastic sheeting will be folded and disposed of in a proper manner. Equipment exiting the Site will be inspected and logged for compliance with the site decontamination requirements.
- Personal protective equipment, such as disposable coveralls, will be removed and discarded in the contamination reduction zone. A two-stage decontamination process will be used to decontaminate reusable items such as work boots. This process will include washing in a detergent solution with a stiff-bristled brush and rinsing in clean water. The rinsate water will be containerized and disposed of offsite.

## 9.4 Off-Site Soil Disposal and Transportation Plan

Following acceptance of the excavated soil at an appropriate licensed disposal facility, the soil will be loaded in licensed haul trucks (end-dumps or transfers) and transported off site following appropriate state and federal waste manifesting procedures. The appropriate waste manifest documentation will be provided to truck drivers hauling the impacted soil off site.

Transportation equipment will be chosen to safely transport the expected volumes of soil, taking into consideration the types of roads to be traveled and their loading capacity. Routine truck maintenance and repairs will be performed at the transporter's premises prior to picking up loads of waste material from the Site.

After each truck is filled, an inspection will be made to verify that the waste soil is securely covered, to the extent practicable, and that the tires of the haul trucks are reasonably free of accumulated soil prior to leaving the Site. During loading, dust and odor emissions will be monitored and mitigated, as necessary. During transportation, the hauling trucks will be equipped to fully cover all soil and debris, such as with a heavy tarpaulin. A street sweeper will be made available, as needed, to keep the surrounding streets clean. The soil will be wetted, as necessary, to reduce the potential for dust generation during loading and transportation activities.

A detailed log of the loads hauled from the Site will be maintained. The log will include, at a minimum, the date and time trucks were loaded and off-loaded, the destination, size (volume and weight) of the load, description of contents, name and signature of the hauler, and name and signature of the contractor's representative. The waste will be off-loaded for treatment or disposal in a manner consistent with current

federal, state, and local regulations. Shipments of hazardous waste will be tracked with the appropriate hazardous waste manifests.

### 9.4.1 Off-Site Disposal Facilities

If soil is classified as hazardous waste by state and federal standards, it will be disposed of at a Class I facility such as:

- Kettleman Hills Landfill in Kettleman City, California; or
- Clean Harbors in Buttonwillow, California.

If soil is classified as non-hazardous waste by state and federal standards, it will be disposed of at a Class II licensed landfill facility such as:

- Waste Management's Altamont Landfill in Livermore, California;
- Republic Services' Vasco Road Landfill in Livermore, California; or
- Allied Waste's Forward Landfill in Manteca, California.

### 9.4.2 Transportation Plan

All transportation activities will be performed in strict compliance with all regulations and ordinances. Hauling contractor(s) used to transport non-hazardous or hazardous waste will be fully licensed and permitted by the State of California. For hazardous waste, the selected transportation company will be certified by the State of California as a hazardous waste hauler, and appropriately permitted to haul impacted waste material. All Department of Transportation and California Highway Patrol safety regulations will be strictly followed by both hazardous and non-hazardous waste haulers.

Transportation routes will be developed to minimize transporting the impacted soil through residential areas. The impacted soil will be transported via surface streets to the closest suitable freeway, which is Interstate 880. The proposed routes for transportation on Interstate 880 are as follows:

- To Interstate 880 East: Leaving the Site along Center Street headed south. Turn left onto 7th Street. Turn right onto Mandela Parkway. Turn left onto 5th Street. Take either the east or westbound ramp onto Interstate 880.

The remainder of the freeway route(s) will be established upon selection of the appropriate landfill(s).

## 9.5 Wastewater and Groundwater Management Protocols

Wastewater generated during site excavation, such as decontamination liquids, will be temporarily stored on-site. Decontamination water will be profiled and transported to an appropriate disposal or recycling facility.

If a saturated zone is encountered during earthwork activities that produces accumulated water, it will be temporarily containerized on-site within portable aboveground industrial holding tanks. Holding tanks will be staged on existing hardscape (i.e., concrete or asphalt) where feasible.

Collected wastewater and groundwater will be transferred into a vacuum truck or 55-gallon steel drums for off-site transportation and disposal.

### 9.6 Spill Response Plan

In the event of a spill, the contractor will be responsible and prepared to respond in a safe and efficient manner, specific to the particular spill situation. Standards will be set, and consistent procedures will be used for handling spills, whether they are on-site spills or spills occurring during transportation. Haulers will have an Emergency Spill Contingency Plan (ESCP) to ensure that all drivers and dispatchers know their responsibilities in the unlikely event that an accidental spill occurs while transporting impacted material off-site. The drivers and dispatchers will be required to know the procedures for emergency spill response. The ESCP will meet or exceed all federal, state, and county regulations currently in effect. The provisions of the ESCP will be strictly adhered to, in order to ensure continued protection of public safety and the environment. The HASP will address the handling of on-site spills.

## 10 DUST AND ODOR EMISSIONS

During excavation activities, depending on soil and weather conditions, there is potential to generate airborne dust and fugitive vapor emissions. Standard dust and fugitive vapor emissions control measures will be followed during the ground disturbing activities to comply with OSHA and BAAQMD rules and to accomplish the following goals:

- Reduce the potential for health impacts to workers;
- Reduce the potential for health impacts to neighbors;
- Prevent violations of ambient air quality standards;
- Minimize nuisance dust complaints from neighbors; and
- Minimize the migration of contaminants adhered to fugitive dust particles outside the Site.

### 10.1 Erosion, Dust, and Odor Control Measures

Once existing vegetation is stripped from the Site where necessary, the exposed soil will become susceptible to erosion by wind and water. Therefore, erosion control measures and dust control measures will be in place before construction begins. Emission (dust) control measures will at a minimum comply with those established by OSHA and the BAAQMD for construction-related activities, including BAAQMD Regulation 11 (Rule 1) for lead dust control. Dust control measures will be based on Best Management Practices (BMPs) and will be used throughout the excavation activities and during Site restoration activities following excavation, including the backfill and compaction of engineered fill at the Site. A Dust Monitoring Plan is presented in Appendix C.

### 10.1.1 Construction Mitigation Measures

The following basic mitigation measures will be implemented in accordance with recommendations for all proposed projects in the BAAQMD California Environmental Quality Act Air Quality Guidelines (BAAQMD 2017):

- All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, unpaved access roads) will be watered two times per day.
- All haul trucks transporting soil, sand, or other loose material off site will be covered.
- All visible mud or dirt track-out onto adjacent public roads will be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
- All vehicle speeds on unpaved roads will be limited to 15 miles per hour.
- Idling times will be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California Airborne Toxic Control Measure CCR Title 13, Section 2485). Clear signage will be provided for construction workers at all access points.
- All equipment will be maintained and properly tuned in accordance with manufacturer specifications. All equipment will be checked by a certified mechanic and determined to be running in proper condition prior to operation.
- A publicly visible sign will be posted with the telephone number and person to contact at the Lead Agency regarding dust complaints. This person will respond and take corrective action within 48 hours. The BAAQMD's phone number will also be visible to ensure compliance with applicable regulations.

Dust level monitoring of air will be conducted to evaluate the potential exposure to Site personnel and to off-site downwind receptors. Perimeter and work zone action levels were developed using Site specific concentrations of COCs, including lead. Action levels are based on the California Ambient Air Quality Standards (perimeter monitoring), Cal/OSHA permissible exposure limits for lead and the American Conference of Governmental Industrial Hygienists 8-hour threshold limit value for lead (work zone monitoring). Monitoring procedures and action levels were developed to include the evaluation of health factors that soil COC concentrations present as they could be present in dust. The presence of airborne dust will be evaluated through the use of real-time sampling equipment and perimeter air sampling. Dust monitors wills be stationed around the perimeter of the Site with upwind and downwind monitors with continuous monitoring. For perimeter monitoring, If the difference between the established baseline air quality or the difference between the upwind and downwind dust monitoring levels exceeds 0.0015 milligrams per cubic meter ($mg/m^3$), additional dust control methods (i.e., applying additional water to disturbed areas) will be implemented. Work zone action levels between 1.25 $mg/m^3$ and 2.5 $mg/m^3$ will trigger additional dust control methods and perimeter monitors will be checked.

### 10.1.2 Dust Suppression Measures

If dust is excessive, some or all of the following mitigation procedures may be implemented:

- Active areas adjacent to residences may need to be kept damp at all times.

- Apply water or (non-toxic) soil stabilizers to unpaved access roads, parking areas, and staging areas.
- Sweep (with water sweepers) paved access roads, parking areas, and staging areas.
- Cover or otherwise stabilize exposed soil stockpiles.
- Suspend activities that cause visible dust plumes and odor to extend beyond the limits of the Site.

### 10.1.3 Odor and Vapor Suppression Measures

By controlling the dust as described above, the emission of odor and vapors should be reduced to levels that likely will not pose a risk to the health of the public and site workers. The water spray used to control dust will also significantly reduce the emissions of any potential volatiles that may be present in the soil. The selective loading and transportation of impacted soils could minimize the use of soil stockpiling, further reducing potential emissions of volatiles. Any active stockpile of impacted soil or exposed excavation left overnight at the Site will be properly covered with plastic sheeting to minimize emissions of volatiles.

If odor is excessive and vapor emissions are detected, some or all of the following mitigation procedures may be implemented:

- Use of chemical suppressants mixed with water and applied using various applications such as spray or mist.
- Use of plastic sheeting to cover the sidewalls of the trench during non-active excavation activities will minimize the migration of VOCs and odors.
- Alternative work sequencing, such that excavation of soil with potential odor during mid-day or afternoon (during hot weather) is avoided. A Construction Sequencing Plan that outlines the plan for the excavation and restoration process that limits the duration and extent of open area of excavations will be prepared and submitted to ACDEH shortly after the finalization of the CAIP. Any highly odorous soil could be segregated and placed inside a roll-off bin equipped with a lid. This will minimize the amount of highly odorous soil during loading.
- Balancing the excavation with transportation so that the need for large stockpiles is reduced.

Other emissions include exhaust from heavy equipment. The equipment proposed for the Site redevelopment will be maintained properly so that exhaust emissions will be within acceptable standards.

## 10.2 Air Monitoring

To the extent feasible, the presence of airborne contaminants will be evaluated through the use of portable monitoring equipment. Information gathered will be used to ensure the adequacy of the levels of protection being employed at the Site and may be used as the basis for upgrading or downgrading levels of personal protection, at the discretion of the Site Health and Safety Officer (HSO). In addition, sampling equipment will be utilized to monitor the potential for the migration of contaminants off site (i.e., fence line monitoring). Such monitoring will take into consideration and incorporate off-site receptor type, wind direction, work tasks being performed, etc.

The following air sampling equipment will be utilized for site monitoring:

- Dust monitors (DataRAM™ pDR-1000AN Monitor).

The above instruments will serve as the primary instruments for personal exposure monitoring. They will be utilized to fully characterize potential employee exposure and the need for equipment upgrades/ downgrades.

The detailed Dust Monitoring Plan is included as Appendix C.

### 10.2.1 Real-Time Air Monitoring During and After Excavation of Impacted Soil

Dust monitoring will be conducted to characterize the potential for exposure to site personnel during disruption of impacted soil using a direct-reading dust monitor. Continuous monitoring will also be performed during operations that have not previously been characterized. After initial site screening, monitoring will be conducted periodically or any time site conditions might be altered (e.g., weather, drilling, excavation, spills).

Results of monitoring information will be recorded and will include time, date, location operations, and any other conditions that may contribute to potential exposures. Maintenance and calibration information will be maintained and made available upon request. The monitoring equipment will be calibrated in accordance with the manufacturer's specifications, and the records of such will be maintained with the project HASP.

Monitoring will be conducted within the work zone and around the perimeter of the work exclusion zone. Different action levels have been established based on either work zone worker exposure or exposure to the public beyond the exclusion zone.

Real-time perimeter and work zone air monitoring for respirable dust will be performed during the excavation of impacted soil and a minimum of the initial three-day period during importation and compaction of clean backfill material.

The perimeter air-monitoring program objective is to protect the health and safety of the nearby community and to document the effectiveness of the dust control measures.

The HSO will determine the air monitoring locations based on site operations and the location of areas that could be adversely affected by air emissions. In general, real-time monitoring will be conducted downwind and around the perimeter of relevant activities. Monitoring locations will be documented on a monitoring log, along with any concentrations detected.

The dust standard will be based on the PM10 ambient air quality standards. For perimeter monitoring, If the difference between the established baseline air quality or the difference between the upwind and downwind dust monitoring levels exceeds 0.0015 milligrams per cubic meter ($mg/m^3$), additional dust control methods (i.e., applying additional water to disturbed areas) will be implemented.

The work zone air monitoring objectives are to protect the workers on site and to indicate when dust control measures are required. The work zone action level for dust concentration is measured by the PM10 of 1.25 mg/m3 (8-hour TWA) has been established for the work zone air-monitoring program. Readings exceeding this level will trigger additional dust control methods and perimeter monitors will be checked.

A detailed dust monitoring plan developed by a Certified Industrial Hygienist, including how action levels were derived and methods of measuring dust is presented in Appendix C.

- Storm Water Management

Other environmental controls may be required in the event that anticipated conditions at the Site change. If excavation activities occur during the rainy season, then water management procedures will be implemented in addition to probable modifications of other plans, such as the HASP. “Heavy rain” is defined by the Statewide General Contractor Permit as 0.5 inches over a 48-hour period. The following procedures will be implemented at the Site during the rainy season:

- The weather forecast will be monitored. During the days heavy rain is forecasted, excavation activities may be stopped.
- The boundary of the work area will be properly bermed to prevent storm water from entering or leaving the work area.
- Storm water entering the excavation area from non-impacted areas and storm water originating within the excavated area will be pumped to settlement tanks and treated prior to discharge under permit or disposed off-site.
- Excavation will be conducted in small sections, so the exposed excavated area can be covered immediately if heavy rains occur.
- Procedures will be used to prevent wet soil from sticking to the tires of trucks used to haul soil off site. These procedures may include plastic sheeting at the loading area, a tire wash at site egress paths, and/or a stabilized gravel construction entrance.
- Plastic sheeting will be used extensively to cover the area of excavation during non-work hours.

In general, the excavation will be kept as dry as possible to minimize the waste generated, and the backfilling (as necessary) of the excavation will be conducted promptly. Storm water control measures shall follow California Storm Water Quality Association best management practices or equivalent and/or shall be consistent with Alameda County Clean Water Program construction BMP requirements. Storm water BMPs will be followed in accordance with the contractor’s Storm Water Pollution Prevention Plan (SWPPP) to be prepared for the Site. The BMPs for the site activities should include use of fiber rolls, inlet protection, stabilized construction entrance, landscape and paving, street cleaning, and catch basin cleaning.

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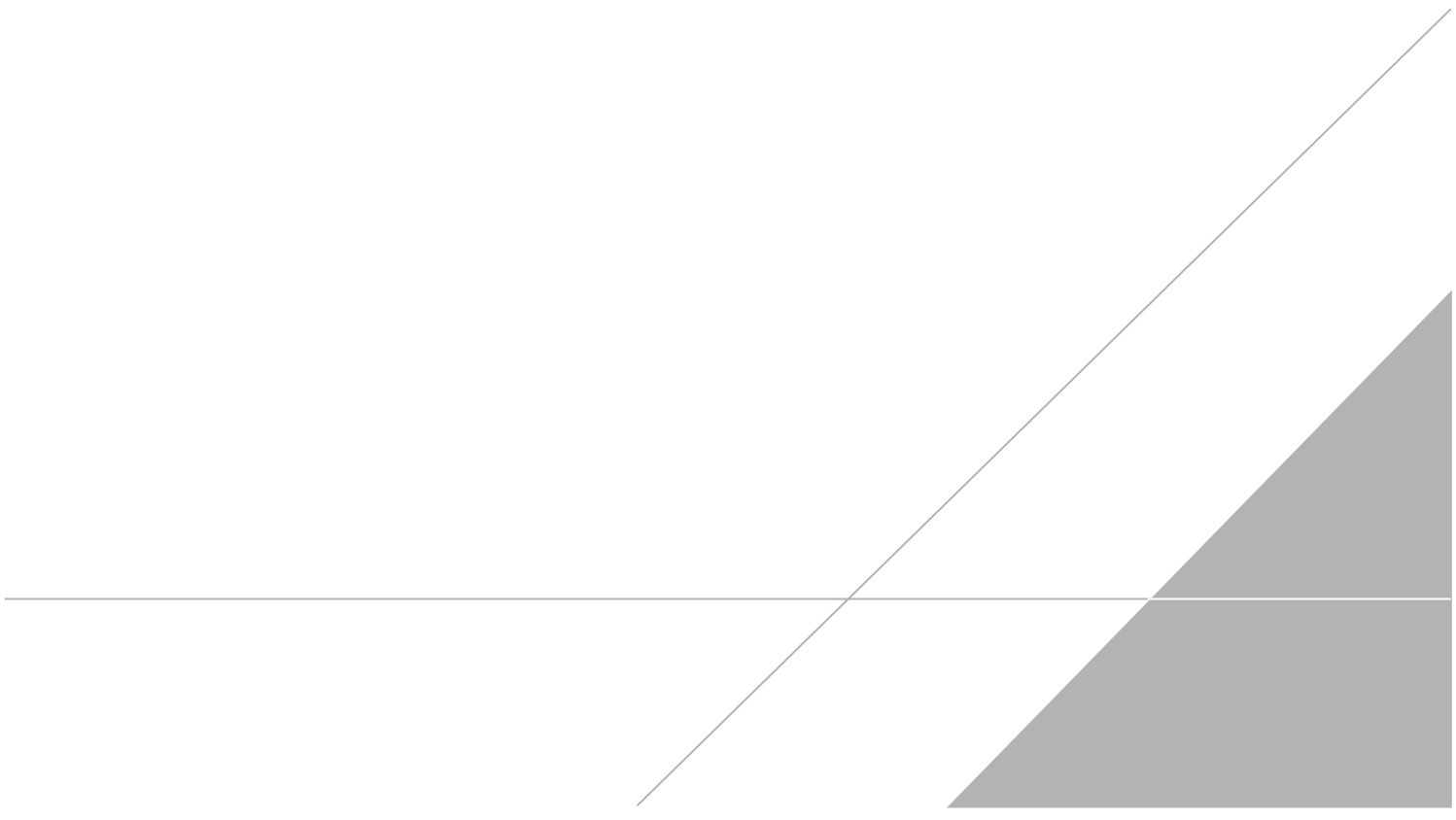

**Table 1**
**Soil Analytical Results - VOCs, TPH, Metals, PAHs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street**
**Oakland, California**

ARCADIS Design & Consultancy for natural and built assets

| Sample ID | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | VOCs | | | | | | | | TPH | | | | | | | | | Metals | | PAHs | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | Sample Depth (ft) | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Metals | Lead | Acenaphthene | Acenaphthylene | Anthracene | Benzo (a) anthracene | Benzo (a) pyrene | Benzo (b) fluoranthene | Benzo (g, h,i) perylene | Benzo (k) fluoranthene | Chrysene | Dibenz (a,h) anthracene | Fluoranthene | Fluorene | Indeno (1, 2, 3-cd) pyrene | Naphthalene | Phenanthrene | Pyrene | Kerosene |
| | | | 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 | 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 | mg/kg | mg/kg |
| LTCP Residential Threshold | 0 to 5 feet | | 8.2 | - | 89 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 5 to 10 feet | | 12 | - | 134 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | - | 80 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - | - | 12.47 | 6.36 | 1.94 | 10.15 | 5.66 | 74.70 | 26.56 | 39.18 | 10.46 | 394.25 | 85.83 | 5.96 | 31.54 | 1.15 | 10.69 | 45.37 | |
| ~~B-1~~ | ~~8/18/1989~~ | ~~10~~ | ~~50~~ | ~~220~~ | ~~46~~ | ~~240~~ | -- | -- | -- | -- | -- | ~~<100~~ | -- | -- | -- | -- | -- | ~~2,100~~ | ~~6,800~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <100 |
| ~~B-1~~ | ~~8/18/1989~~ | ~~15~~ | ~~32~~ | ~~200~~ | ~~60~~ | ~~290~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ~~2,400~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <100 |
| ~~B-2~~ | ~~8/18/1989~~ | ~~7~~ | ~~50~~ | ~~450~~ | ~~130~~ | ~~540~~ | -- | -- | -- | -- | -- | ~~<100~~ | -- | -- | -- | -- | -- | ~~4,100~~ | ~~14,000~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <100 |
| ~~B-2~~ | ~~8/18/1989~~ | ~~11.5~~ | ~~500~~ | ~~2,800~~ | ~~760~~ | ~~3,700~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ~~31,000~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~B-3~~ | ~~8/18/1989~~ | ~~3.5~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | ~~<10~~ | -- | -- | ~~<50~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <10 |
| ~~B-3~~ | ~~8/18/1989~~ | ~~10.5~~ | ~~<1~~ | ~~2~~ | ~~2~~ | ~~7~~ | -- | -- | -- | -- | | ~~<10~~ | -- | -- | -- | -- | -- | ~~100~~ | ~~<10~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <10 |
| ~~B-3~~ | ~~8/18/1989~~ | ~~12.5~~ | ~~<5~~ | 44 | ~~32~~ | ~~130~~ | -- | -- | -- | -- | -- | ~~<10~~ | -- | -- | -- | -- | -- | ~~950~~ | ~~220~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <10 |
| ~~B-4~~ | ~~8/18/1989~~ | ~~7.5~~ | ~~57~~ | ~~250~~ | ~~140~~ | ~~610~~ | -- | -- | -- | -- | -- | ~~<100~~ | -- | -- | -- | -- | -- | ~~5,400~~ | ~~5,100~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <100 |
| ~~B-4~~ | ~~8/18/1989~~ | ~~10.5~~ | ~~92~~ | ~~360~~ | ~~1,100~~ | ~~670~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ~~5,800~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| ~~B-5~~ | ~~8/18/1989~~ | ~~3.5~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ~~16,000~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~MW-1~~ | ~~10/17/1995~~ | ~~5~~ | ~~0.091~~ | ~~0.49~~ | ~~0.14~~ | ~~1.9~~ | -- | -- | -- | -- | ~~11~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~MW-1~~ | ~~10/17/1995~~ | ~~10~~ | ~~120~~ | ~~800~~ | ~~270~~ | ~~1,300~~ | -- | -- | -- | -- | ~~14,000~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-2 | 10/17/1995 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-2 | 10/17/1995 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-3 | 10/17/1995 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-3 | 10/17/1995 | 10 | 0.24 | 0.010 | 0.016 | 0.019 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-4 | 10/18/1995 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-4 | 10/18/1995 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SB-1~~ | ~~10/17/1995~~ | ~~5~~ | ~~0.34~~ | ~~1.2~~ | ~~1.2~~ | ~~1.3~~ | -- | -- | -- | -- | ~~87~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SB-1~~ | ~~10/17/1995~~ | ~~10~~ | ~~72~~ | ~~640~~ | ~~240~~ | ~~1,100~~ | -- | -- | -- | -- | ~~8,100~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SB-2~~ | ~~10/17/1995~~ | ~~5~~ | ~~0.19~~ | ~~4.8~~ | ~~5.1~~ | ~~26~~ | -- | -- | -- | -- | ~~240~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SB-2~~ | ~~10/17/1995~~ | ~~10~~ | ~~28~~ | ~~440~~ | ~~150~~ | ~~630~~ | -- | -- | -- | -- | ~~4,700~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
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| P-1 | 3/22/1996 | 17 | <0.0050 | <0.0050 | 0.0080 | 0.0090 | <0.025 | -- | -- | -- | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-2 | 3/22/1996 | 6 | <4.0 | 120 | 71 | 330 | <20 | -- | -- | -- | 4,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~P-3~~ | ~~3/22/1996~~ | ~~10~~ | ~~38~~ | ~~780~~ | ~~280~~ | ~~1,400~~ | ~~<50~~ | -- | -- | -- | ~~13,000~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-3 | 3/22/1996 | 16 | 41 | 310 | 110 | 1,400 | <20 | -- | -- | -- | 5,400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-3 | 3/22/1996 | 20 | 3.7 | 21 | 6.2 | 27 | <0.62 | -- | -- | -- | 260 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7 | 3/22/1996 | 6 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.025 | -- | -- | -- | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7 | 3/22/1996 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.025 | -- | -- | -- | 1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7 | 3/22/1996 | 15 | <0.0050 | 0.31 | 0.15 | 0.71 | <0.025 | -- | -- | -- | 13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-8 | 3/22/1996 | 6 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.025 | -- | -- | -- | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-8 | 3/22/1996 | 12 | <0.0050 | 0.0068 | <0.0050 | <0.0050 | <0.025 | -- | -- | -- | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-5 | 12/18/1996 | 5 | <0.0050 | 0.016 | 0.0083 | 0.046 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-5 | 12/18/1996 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-5 | 12/18/1996 | 15 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 12/18/1996 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 12/18/1996 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 12/18/1996 | 15 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 12/18/1996 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 12/18/1996 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 12/18/1996 | 15 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Boring MW-8 | 12/18/1996 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Boring MW-8 | 12/18/1996 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Boring MW-8 | 12/18/1996 | 15 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | -- | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SV-1~~ | ~~5/30/1997~~ | ~~3~~ | ~~<0.0050~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | -- | -- | -- | -- | ~~<1.0~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SV-1~~ | ~~5/30/1997~~ | ~~6~~ | ~~<2.5~~ | ~~46~~ | ~~57~~ | ~~300~~ | -- | -- | -- | -- | ~~2,100~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SV-1~~ | ~~5/30/1997~~ | ~~8.5~~ | ~~52~~ | ~~360~~ | ~~140~~ | ~~720~~ | -- | -- | -- | -- | ~~7,600~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SV-2~~ | ~~5/30/1997~~ | ~~3.5~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | -- | -- | -- | -- | ~~<1.0~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SV-2~~ | ~~5/30/1997~~ | ~~6~~ | ~~<0.005~~ | ~~0.009~~ | ~~0.01~~ | ~~0.057~~ | -- | -- | -- | -- | ~~11~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SV-2~~ | ~~5/30/1997~~ | ~~9~~ | ~~12~~ | ~~420~~ | ~~150~~ | ~~710~~ | -- | -- | -- | -- | ~~8,000~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-3 | 5/30/1997 | 3 | <0.005 | 0.029 | 0.014 | 0.1 | -- | -- | -- | -- | 1.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-3 | 5/30/1997 | 6 | 0.13 | 0.28 | 1.4 | 1.9 | -- | -- | -- | -- | 84 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-3 | 5/30/1997 | 9 | 5.8 | 130 | 83 | 340 | -- | -- | -- | -- | 3,200 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SV-4~~ | ~~5/30/1997~~ | ~~3~~ | ~~<0.005~~ | ~~0.0058~~ | ~~<0.005~~ | ~~0.01~~ | -- | -- | -- | -- | ~~<1.0~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SV-4~~ | ~~5/30/1997~~ | ~~6~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.05~~ | -- | -- | -- | -- | ~~1.3~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SV-4~~ | ~~5/30/1997~~ | ~~9~~ | ~~86~~ | ~~470~~ | ~~210~~ | ~~960~~ | -- | -- | -- | -- | ~~10,000~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SV-5~~ | ~~5/30/1997~~ | ~~3~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | -- | -- | -- | -- | ~~<1.0~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SV-5~~ | ~~5/30/1997~~ | ~~6~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | ~~<0.005~~ | -- | -- | -- | -- | ~~<1.0~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~SV-5~~ | ~~5/30/1997~~ | ~~9~~ | ~~20~~ | ~~410~~ | ~~130~~ | ~~690~~ | -- | -- | -- | -- | ~~7,900~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~A-1~~ | ~~4/12/2001~~ | ~~8.5~~ | ~~10~~ | 4.4 | ~~15~~ | ~~48~~ | ~~<5.0~~ | -- | -- | -- | ~~630~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ~~A-2~~ | ~~4/12/2001~~ | ~~8.5~~ | ~~0.11~~ | ~~0.24~~ | ~~0.37~~ | ~~0.98~~ | ~~0.38~~ | -- | -- | -- | ~~32~~ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Table 1**
**Soil Analytical Results - VOCs, TPH, Metals, PAHs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street**
**Oakland, California**

| Sample ID | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | VOCs | | | | | | | | TPH | | | | | | | | | | Metals | | PAHs | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | Sample Depth (ft) | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | | Metals | Lead | Acenaphthene | Acenaphthylene | Anthracene | Benzo (a) anthracene | Benzo (a) pyrene | Benzo (b) fluoranthene | Benzo (g, h,i) perylene | Benzo (k) fluoranthene | Chrysene | Dibenz (a,h) anthracene | Fluoranthene | Fluorene | Indeno (1, 2, 3-cd) pyrene | Naphthalene | Phenanthrene | Pyrene | Kerosene | | | | |
| | | | 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 | | 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 | mg/kg | mg/kg | | | | |
| LTCP Residential Threshold | 0 to 5 feet | | 8.2 | - | 89 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| | 5 to 10 feet | | 12 | - | 134 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | | - | 80 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | | - | - | 12.47 | 6.36 | 1.94 | 10.15 | 5.66 | 74.70 | 26.56 | 39.18 | 10.46 | 394.25 | 85.83 | 5.96 | 31.54 | 1.15 | 10.69 | 45.37 | | | | |
| ~~WQT~~ | ~~4/12/2001~~ | ~~8~~ | ~~0.0092~~ | ~~0.04~~ | ~~0.058~~ | ~~0.24~~ | ~~0.058~~ | — | — | -- | ~~10~~ | ~~3.2~~ | — | — | ~~110~~ | — | — | — | — | | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | | | | |
| MW-8 | 1/9/2002 | 11 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.050 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| MW-8 | 1/9/2002 | 15 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.050 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| MW-8 | 1/9/2002 | 20 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.050 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-1~~ | ~~6/21/2002~~ | ~~5~~ | ~~0.95~~ | ~~46~~ | ~~52~~ | ~~240~~ | <5 | -- | -- | -- | ~~3,000~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 4.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-1~~ | ~~6/21/2002~~ | ~~10~~ | ~~31~~ | ~~660~~ | ~~290~~ | ~~1,100~~ | 76 | -- | -- | -- | ~~12,000~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 15.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-2~~ | ~~6/21/2002~~ | ~~5~~ | ~~2.8~~ | ~~84~~ | ~~77~~ | ~~310~~ | 5.5 | -- | -- | -- | ~~2,700~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 7.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-2~~ | ~~6/21/2002~~ | ~~10~~ | ~~7.5~~ | ~~200~~ | ~~120~~ | ~~500~~ | 11 | -- | -- | -- | ~~3,800~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 8.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-3~~ | ~~6/21/2002~~ | ~~5~~ | ~~0.0059~~ | ~~0.049~~ | ~~0.016~~ | ~~0.057~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 5.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-3~~ | ~~6/21/2002~~ | ~~10~~ | ~~19~~ | ~~520~~ | ~~290~~ | ~~1,100~~ | 63 | -- | -- | -- | ~~7,700~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 5.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-4~~ | ~~6/21/2002~~ | ~~5~~ | ~~<0.0050~~ | ~~0.021~~ | ~~0.0056~~ | ~~0.027~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 2.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-4~~ | ~~6/21/2002~~ | ~~10~~ | ~~3.5~~ | ~~140~~ | ~~120~~ | ~~490~~ | 6.2 | -- | -- | -- | ~~3,300~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 7.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-5~~ | ~~6/21/2002~~ | ~~5~~ | ~~<0.0050~~ | ~~0.041~~ | ~~0.022~~ | ~~0.064~~ | <0.05 | -- | -- | -- | ~~7.1~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 4.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-5~~ | ~~6/21/2002~~ | ~~10~~ | ~~0.062~~ | ~~0.58~~ | ~~0.62~~ | ~~2.4~~ | 0.094 | -- | -- | -- | ~~45~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 9.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-6~~ | ~~6/21/2002~~ | ~~5~~ | ~~<0.0050~~ | ~~0.0069~~ | ~~0.0054~~ | ~~0.022~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 3.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-6~~ | ~~6/21/2002~~ | ~~10~~ | ~~19~~ | ~~360~~ | ~~190~~ | ~~900~~ | 28 | -- | -- | -- | ~~6,300~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 9.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-7~~ | ~~6/21/2002~~ | ~~5~~ | ~~0.0057~~ | ~~0.045~~ | ~~0.012~~ | ~~0.046~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 3.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-7~~ | ~~6/21/2002~~ | ~~10~~ | ~~18~~ | ~~420~~ | ~~250~~ | ~~1,100~~ | 28 | -- | -- | -- | ~~7,300~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 15.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-8~~ | ~~6/21/2002~~ | ~~5~~ | ~~8.4~~ | ~~280~~ | ~~210~~ | ~~960~~ | <20 | -- | -- | -- | ~~7,100~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 5.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-8~~ | ~~6/21/2002~~ | ~~10~~ | ~~69~~ | ~~1,100~~ | ~~470~~ | ~~1,900~~ | 150 | -- | -- | -- | ~~16,000~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 12.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-9~~ | ~~6/21/2002~~ | ~~5~~ | ~~1.9~~ | ~~54~~ | ~~57~~ | ~~350~~ | <5 | -- | -- | -- | ~~3,700~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 17.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-9~~ | ~~6/21/2002~~ | ~~10~~ | ~~83~~ | ~~1,200~~ | ~~520~~ | ~~2,200~~ | 150 | -- | -- | -- | ~~19,000~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-10~~ | ~~6/21/2002~~ | ~~5~~ | ~~0.014~~ | ~~0.073~~ | ~~0.012~~ | ~~0.052~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 2.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-10~~ | ~~6/21/2002~~ | ~~10~~ | ~~1.4~~ | ~~32~~ | ~~52~~ | ~~270~~ | <1 | -- | -- | -- | ~~2,100~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 7.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-11~~ | ~~6/21/2002~~ | ~~5~~ | ~~<0.0050~~ | ~~0.035~~ | ~~0.019~~ | ~~0.084~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 5.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-11~~ | ~~6/21/2002~~ | ~~10~~ | ~~<0.080~~ | ~~0.43~~ | ~~0.53~~ | ~~3.1~~ | <0.2 | -- | -- | -- | ~~100~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 5.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-12~~ | ~~6/21/2002~~ | ~~5~~ | ~~<0.0050~~ | ~~0.034~~ | ~~0.010~~ | ~~0.057~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 16.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-12~~ | ~~6/21/2002~~ | ~~10~~ | ~~50~~ | ~~540~~ | ~~240~~ | ~~1,200~~ | 58 | -- | -- | -- | ~~9,000~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 7.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-13~~ | ~~6/21/2002~~ | ~~5~~ | ~~<0.0050~~ | ~~0.0062~~ | ~~<0.0050~~ | ~~0.019~~ | <0.05 | -- | -- | -- | ~~<1.0~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 7.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-13~~ | ~~6/21/2002~~ | ~~10~~ | ~~56~~ | ~~600~~ | ~~290~~ | ~~1,400~~ | 70 | -- | -- | -- | ~~12,000~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 6.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-14~~ | ~~6/21/2002~~ | ~~5~~ | ~~<20~~ | ~~190~~ | ~~120~~ | ~~510~~ | 19 | -- | -- | -- | ~~3,900~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 5.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-14~~ | ~~6/21/2002~~ | ~~10~~ | ~~65~~ | ~~940~~ | ~~400~~ | ~~1,700~~ | 170 | -- | -- | -- | ~~14,000~~ | ---- | -- | -- | -- | -- | -- | --- | --- | | -- | 11.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| G-15 | 6/21/2002 | 5 | <0.0050 | 0.020 | <0.0050 | 0.017 | <0.050 | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | | 22.5d | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| G-15 | 6/21/2002 | 10 | 12 | 320 | 110 | 450 | 91 | -- | -- | -- | 5,800 | --- | -- | -- | -- | -- | -- | --- | --- | | 6.5d | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| G-16 | 6/21/2002 | 5 | <0.0050 | 0.015 | <0.0050 | <0.015 | <0.050 | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | | 2.4d | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| G-16 | 6/21/2002 | 10 | 5.1 | 110 | 52 | 230 | 11 | -- | -- | -- | 2,100 | --- | -- | -- | -- | -- | -- | --- | --- | | 6.5d | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| G-17 | 6/21/2002 | 5 | 0.082 | 0.78 | 0.54 | 1.2 | 0.22 | -- | -- | -- | 35 | --- | -- | -- | -- | -- | -- | --- | --- | | 368d | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| G-17 | 6/21/2002 | 10 | 0.62 | 9.2 | 9.9 | 41 | <5.0 | -- | -- | -- | 420 | --- | -- | -- | -- | -- | -- | --- | --- | | 5.7d | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| G-18 | 6/21/2002 | 5 | 0.11 | 1.1 | 0.76 | 2.6 | <0.20 | -- | -- | -- | 81 | --- | -- | -- | -- | -- | -- | --- | --- | | 3.7d | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| G-18 | 6/21/2002 | 10 | 4.9 | 68 | 51 | 220 | <5.0 | -- | -- | -- | 1,700 | --- | -- | -- | -- | -- | -- | --- | --- | | 5d | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| G-19 | 6/21/2002 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.050 | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | | 2.6d | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| G-19 | 6/21/2002 | 10 | 20 | 230 | 110 | 450 | <5.0 | -- | -- | -- | 4,500 | --- | -- | -- | -- | -- | -- | --- | --- | | 5.8d | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-20~~ | ~~6/21/2002~~ | ~~5~~ | ~~3.2~~ | ~~31~~ | ~~30~~ | ~~140~~ | <5.0 | -- | -- | -- | ~~1,700~~ | ~~—~~ | -- | -- | -- | -- | -- | --- | --- | | 4.3d | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| ~~G-20~~ | ~~6/21/2002~~ | ~~10~~ | ~~26~~ | ~~360~~ | ~~200~~ | ~~860~~ | <20 | -- | -- | -- | ~~6,900~~ | ~~—~~ | -- | -- | -- | -- | -- | --- | --- | | 5.1d | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| G-21 | 6/21/2002 | 5 | <0.0050 | 0.016 | <0.0050 | 0.016 | <0.50 | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | | 4.2d | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| G-21 | 6/21/2002 | 10 | 0.0091 | 0.18 | 0.055 | 0.23 | <0.50 | -- | -- | -- | 1.0 | --- | -- | -- | -- | -- | -- | --- | --- | | 44.0d | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| G-22[1] | 6/21/2002 | 2.5,5,7.5,10 | 0.063 | 0.47 | 0.28 | 2 | <0.50 | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| G-23[1] | 6/21/2002 | 2.5,5,7.5,10 | <0.0050 | 0.012 | <0.0050 | 0.017 | <0.050 | -- | -- | -- | <1.0 | --- | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SW-1 | 11/15/2002 | 5 | <0.0050 | 0.0073 | <0.0050 | 0.017 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SW-1 | 11/15/2002 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SW-2 | 11/18/2002 | 5 | <0.0050 | 0.0088 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SW-2 | 11/18/2002 | 10 | 2.5 | 75 | 52 | 250 | <10 | -- | -- | -- | 2,800 | 1,600 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SW-3 | 11/18/2002 | 5 | <0.0050 | 0.0089 | <0.0050 | 0.021 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SW-3 | 11/18/2002 | 10 | 19 | 330 | 170 | 650 | 26 | -- | -- | -- | 7,300 | 1,200 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SW-4 | 11/18/2002 | 5 | <0.0050 | 0.0081 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SW-4 | 11/18/2002 | 10 | 91 | 1,200 | 440 | 1,900 | 150 | -- | -- | -- | 18,000 | 3,400 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SW-5 | 11/16/2002 | 5 | 0.0072 | 0.039 | 0.0057 | 0.022 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SW-5 | 11/16/2002 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SW-6 | 11/16/2002 | 5 | 0.0084 | 0.15 | 0.079 | 0.41 | <0.05 | -- | -- | -- | 4.1 | 110 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SW-6 | 11/16/2002 | 10 | 7.3 | 140 | 110 | 450 | 10 | -- | -- | -- | 3,900 | 920 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SW-7 | 11/15/2002 | 5 | <0.0050 | 0.011 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SW-7 | 11/15/2002 | 10 | 11 | 250 | 130 | 540 | 13 | -- | -- | -- | 4,800 | 700 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SW-8 | 11/15/2002 | 5 | <0.0050 | 0.016 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SW-8 | 11/15/2002 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SW-9 | 11/15/2002 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SW-9 | 11/15/2002 | 10 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SW-10 | 11/15/2002 | 5 | <0.0050 | <0.0050 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SW-10 | 11/15/2002 | 10 | <0.10 | 0.66 | 3.7 | 21 | <1 | -- | -- | -- | 570 | 240 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| EXB-1 | 11/14/2002 | 12 | 25 | 230 | 87 | 380 | 59 | -- | -- | -- | 4,000 | 1,100 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| EXB-2 | 11/15/2002 | 14 | 7.3 | 71 | 42 | 200 | 19 | -- | -- | -- | 1,900 | 270 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| EXB-3 | 11/16/2002 | 12 | 9.5 | 170 | 86 | 370 | 18 | -- | -- | -- | 3,400 | 920 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| EXB-4 | 11/16/2002 | 12 | 22 | 310 | 150 | 640 | 36 | -- | -- | -- | 6,900 | 1,100 | -- | -- | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SWH-1 | 11/16/2002 | 7.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <10 | <10 | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SWH-2 | 11/16/2002 | 7.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <10 | <10 | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SWH-3 | 11/16/2002 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <10 | <10 | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SWH-4 | 11/16/2002 | 7.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <10 | <10 | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| BH-1 | 11/16/2002 | 12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <10 | <10 | -- | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SWW-1 | 11/18/2002 | 7.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <230 | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| SWW-2 | 11/18/2002 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <230 | -- | -- | --- | --- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |

**Table 1**
**Soil Analytical Results - VOCs, TPH, Metals, PAHs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street**
**Oakland, California**

ARCADIS Design & Consultancy for natural and built assets

| Sample ID | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | VOCs | | | | | | | | TPH | | | | | | | | | Metals | | PAHs | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | Sample Depth (ft) | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Metals | Lead | Acenaphthene | Acenaphthylene | Anthracene | Benzo (a) anthracene | Benzo (a) pyrene | Benzo (b) fluoranthene | Benzo (g, h,i) perylene | Benzo (k) fluoranthene | Chrysene | Dibenz (a,h) anthracene | Fluoranthene | Fluorene | Indeno (1, 2, 3-cd) pyrene | Naphthalene | Phenanthrene | Pyrene | Kerosene |
| | | | 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 | 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 | mg/kg | mg/kg |
| LTCP Residential Threshold | 0 to 5 feet | | 8.2 | - | 89 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 5 to 10 feet | | 12 | - | 134 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | - | 80 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - | - | 12.47 | 6.36 | 1.94 | 10.15 | 5.66 | 74.70 | 26.56 | 39.18 | 10.46 | 394.25 | 85.83 | 5.96 | 31.54 | 1.15 | 10.69 | 45.37 | |
| SWW-3 | 11/18/2002 | 7.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <230 | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SWW-4 | 11/18/2002 | 7.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <230 | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| BWO-1 | 11/18/2002 | 12 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | -- | <1.0 | <10 | -- | -- | <230 | ND [a] | ND [b] | --- | --- | C | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| G-24 | 1/29/2003 | 5 | <0.0050 | 0.012 | <0.0050 | <0.015 | <0.050 | -- | -- | -- | <1.0 | 52 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| G-24 | 1/29/2003 | 10 | 0.0074 | 0.014 | <0.0050 | <0.015 | <0.050 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| G-24 | 1/29/2003 | 15 | 0.026 | 0.012 | 0.0096 | <0.015 | <0.050 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| G-25 | 1/29/2003 | 5 | <0.0050 | 0.0095 | <0.0050 | <0.015 | <0.050 | -- | -- | -- | <1.0 | 53 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| G-25 | 1/29/2003 | 10 | 27 | 560 | 290 | 1,200 | <53 | -- | -- | -- | 8,800 | 1,400 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| G-25 | 1/29/2003 | 15 | 8.5 | 90 | 35 | 140 | 16 | -- | -- | -- | 1,200 | 350 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| G-26 | 1/29/2003 | 5 | <0.0050 | 0.020 | 0.0076 | 0.036 | <0.05 | -- | -- | -- | 2.2 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| G-26 | 1/29/2003 | 10 | <0.0050 | 0.0092 | <0.0050 | <0.015 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| G-26 | 1/29/2003 | 15 | 0.0092 | <0.020 | 0.019 | 0.031 | <0.05 | -- | -- | -- | 2.2 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| G-27 | 1/29/2003 | 5 | <0.0050 | 0.020 | <0.0050 | 0.018 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| G-27 | 1/29/2003 | 10 | 13 | 250 | 180 | 700 | 20 | -- | -- | -- | 5,500 | 1,600 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| G-27 | 1/29/2003 | 15 | 58 | 790 | 350 | 1,300 | 94 | -- | -- | -- | 10,000 | 170 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| G-28 | 1/29/2003 | 5 | 0.0054 | 0.030 | 0.0063 | 0.026 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| G-28 | 1/29/2003 | 10 | 0.027 | 0.096 | 0.056 | 0.28 | <0.05 | -- | -- | -- | 16 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| G-28 | 1/29/2003 | 15 | 2.3 | 34 | 17 | 71 | <10 | -- | -- | -- | 620 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| G-29 | 1/29/2003 | 5 | <0.0050 | 0.021 | 0.0057 | 0.021 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| G-29 | 1/29/2003 | 10 | 39 | 380 | 160 | 640 | 95 | -- | -- | -- | 5,200 | 410 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| G-29 | 1/29/2003 | 15 | 14 | 290 | 170 | 670 | 18 | -- | -- | -- | 4,800 | 1,100 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| G-30 | 1/29/2003 | 5 | 0.014 | 0.25 | 0.14 | 0.70 | <0.05 | -- | -- | -- | 7.1 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| G-30 | 1/29/2003 | 10 | 92 | 1,000 | 480 | 1,900 | 150 | -- | -- | -- | 16,000 | 1,600 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| G-30 | 1/29/2003 | 15 | 27 | 210 | 85 | 370 | <10 | -- | -- | -- | 3,500 | 500 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-1A | 1/29/2003 | 16 | 0.013 | 0.033 | 0.0087 | 0.027 | <0.05 | -- | -- | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-1 | 10/6/2004 | 10.5 | 10 | 230 | 92 | 460 | <0.62 | <1.2 | <1.2 | -- | 5,300 | 860 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-1 | 10/6/2004 | 14.5 | 0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | 2.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-1 | 10/6/2004 | 25.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-1 | 10/6/2004 | 29.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-1 | 10/6/2004 | 40 | 0.01 | 0.098 | 0.040 | 0.20 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-2 | 10/6/2004 | 5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <4.0 | 560 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-2 | 10/7/2004 | 10.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-2 | 10/7/2004 | 14.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-2 | 10/7/2004 | 20.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-2 | 10/7/2004 | 25.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-2 | 10/7/2004 | 29.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-2 | 10/7/2004 | 35.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-2 | 10/7/2004 | 40.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-3 | 10/12/2004 | 10.5 | 1.9 | 200 | 130 | 660 | <0.25 | <0.50 | <0.50 | -- | 9,000 | 890 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-3 | 10/12/2004 | 15.5 | 0.094 | 0.028 | 0.34 | 0.31 | <0.003 | <0.005 | <0.005 | -- | 18 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-3 | 10/12/2004 | 20.5 | 0.002 | 0.003 | 0.01 | 0.025 | <0.0005 | <0.001 | <0.001 | -- | 14 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-3 | 10/12/2004 | 25.5 | 0.001 | 0.009 | 0.001 | 0.005 | <0.0005 | <0.001 | <0.001 | -- | 1.3 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-3 | 10/12/2004 | 29.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-3 | 10/12/2004 | 35.5 | 0.013 | 0.031 | <0.001 | 0.11 | <0.0005 | <0.001 | <0.001 | -- | 3.3 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-3 | 10/12/2004 | 40.5 | 0.008 | 0.032 | 0.002 | 0.13 | <0.0005 | <0.001 | <0.001 | -- | 4.5 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-4 | 10/6/2004 | 5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | 46 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-4 | 10/8/2004 | 10.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | 1.2 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-4 | 10/8/2004 | 14.5 | <0.0005 | 0.005 | 0.001 | 0.005 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-4 | 10/8/2004 | 20.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-4 | 10/8/2004 | 25.5 | <0.0005 | 0.002 | <0.001 | 0.002 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-4 | 10/8/2004 | 29.5 | <0.0005 | 0.004 | 0.001 | 0.005 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-4 | 10/8/2004 | 35.5 | <0.0005 | 0.001 | <0.001 | 0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-4 | 10/8/2004 | 40.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-5 | 10/11/2004 | 5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | 1.5 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-5 | 10/11/2004 | 9.5 | 13 | 260 | 100 | 550 | <0.25 | <0.50 | 1.5 | -- | 7,200 | 530 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-5 | 10/11/2004 | 15.5 | <0.063 | <0.13 | <0.13 | 0.13 | <0.063 | <0.13 | <0.13 | -- | 140 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-5 | 10/11/2004 | 25.5 | 0.081 | 0.75 | 0.12 | 0.74 | <0.0005 | <0.001 | <0.001 | -- | 7.6 | 22 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-5 | 10/11/2004 | 29.5 | 0.0005 | 0.005 | 0.002 | 0.010 | <0.0005 | <0.001 | <0.001 | -- | 13 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-5 | 10/11/2004 | 35.5 | <0.0005 | 0.006 | 0.003 | 0.015 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-5 | 10/11/2004 | 50.5 | <0.0005 | 0.003 | 0.002 | 0.010 | <0.0005 | <0.001 | <0.001 | -- | 4.8 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CPT-5 | 10/11/2004 | 69.5 | <0.0005 | 0.001 | <0.001 | 0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-1 | 11/1/2004 | 5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | 2.8 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-1 | 11/1/2004 | 10 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-1 | 11/1/2004 | 15 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-1 | 11/1/2004 | 20 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-1 | 11/1/2004 | 24.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-2 | 11/1/2004 | 5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | 450 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-2 | 11/1/2004 | 10 | <0.0005 | 0.002 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | 67 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-2 | 11/1/2004 | 15 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-2 | 11/1/2004 | 20 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | 13 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-2 | 11/1/2004 | 24.5 | <0.0005 | 0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-3 | 11/1/2004 | 10 | 0.75 | 94 | 66 | 310 | <0.63 | <1.3 | <1.3 | -- | 4,800 | 640 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-3 | 11/1/2004 | 15 | <0.001 | <0.002 | 0.003 | 0.005 | <0.001 | <0.002 | <0.002 | -- | 9.7 | 22 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-3 | 11/1/2004 | 20 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-3 | 11/1/2004 | 24.5 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Table 1**
**Soil Analytical Results - VOCs, TPH, Metals, PAHs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street**
**Oakland, California**

ARCADIS Design & Consultancy for natural and built assets

| Sample ID | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | VOCs | | | | | | | | TPH | | | | | | | | | Metals | | PAHs | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | Sample Depth (ft) | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Metals | Lead | Acenaphthene | Acenaphthylene | Anthracene | Benzo (a) anthracene | Benzo (a) pyrene | Benzo (b) fluoranthene | Benzo (g, h,i) perylene | Benzo (k) fluoranthene | Chrysene | Dibenz (a,h) anthracene | Fluoranthene | Fluorene | Indeno (1, 2, 3-cd) pyrene | Naphthalene | Phenanthrene | Pyrene | Kerosene |
| | | | 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 | 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 | mg/kg | mg/kg | mg/kg |
| LTCP Residential Threshold | 0 to 5 feet | | 8.2 | - | 89 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 5 to 10 feet | | 12 | - | 134 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | - | 80 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - | - | 12.47 | 6.36 | 1.94 | 10.15 | 5.66 | 74.70 | 26.56 | 39.18 | 10.46 | 394.25 | 85.83 | 5.96 | 31.54 | 1.15 | 10.69 | 45.37 | |
| C-4 | 11/1/2004 | 5 | 0.001 | 0.008 | <0.001 | 0.003 | <0.0005 | <0.001 | <0.001 | -- | 9.2 | 160 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-4 | 11/2/2004 | 10 | 11 | 410 | 200 | 780 | <0.63 | <1.3 | <1.3 | -- | 6,300 | 1,000 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-4 | 11/2/2004 | 15 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | -- | 3.1 | <10 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
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**Table 1**
**Soil Analytical Results - VOCs, TPH, Metals, PAHs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street**
**Oakland, California**

ARCADIS Design & Consultancy for natural and built assets

| Sample ID | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | VOCs | | | | | | | | TPH | | | | | | | | | Metals | | PAHs | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | Sample Depth (ft) | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Metals | Lead | Acenaphthene | Acenaphthylene | Anthracene | Benzo (a) anthracene | Benzo (a) pyrene | Benzo (b) fluoranthene | Benzo (g, h,i) perylene | Benzo (k) fluoranthene | Chrysene | Dibenz (a,h) anthracene | Fluoranthene | Fluorene | Indeno (1, 2, 3-cd) pyrene | Naphthalene | Phenanthrene | Pyrene | Kerosene |
| | | | 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 | 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 | mg/kg | mg/kg |
| LTCP Residential Threshold | 0 to 5 feet | | 8.2 | - | 89 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 5 to 10 feet | | 12 | - | 134 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | - | 80 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - | - | 12.47 | 6.36 | 1.94 | 10.15 | 5.66 | 74.70 | 26.56 | 39.18 | 10.46 | 394.25 | 85.83 | 5.96 | 31.54 | 1.15 | 10.69 | 45.37 | |
| MW-14 | 4/11/2007 | 14.5 | 0.097 | 0.45 | 3.2 | 10 | -- | -- | -- | -- | 880 | 13 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-14 | 4/11/2007 | 19.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | 7.3 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-14 | 4/11/2007 | 24.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | 1.2 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-14 | 4/11/2007 | 29.5 | <0.0005 | 0.002 | <0.001 | 0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-14 | 4/11/2007 | 34.5 | <0.0005 | 0.002 | <0.001 | 0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-14 | 4/11/2007 | 39.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-14 | 4/11/2007 | 44.5 | 0.0005 | 0.004 | <0.001 | 0.004 | -- | -- | -- | -- | 2.1 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-14 | 4/11/2007 | 49.5 | 0.004 | 0.011 | 0.005 | 0.024 | -- | -- | -- | -- | 1.5 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-14 | 4/11/2007 | 54.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-14 | 4/11/2007 | 59.5 | <0.0005 | 0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-17 | 4/13/2007 | 9.5 | 7.2 | 330 | 150 | 650 | -- | -- | -- | -- | 7,300 | 710 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-17 | 4/13/2007 | 14.5 | 0.003 | 0.002 | 0.002 | 0.005 | -- | -- | -- | -- | 1.5 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-17 | 4/13/2007 | 19.5 | <0.0005 | 0.004 | 0.002 | 0.011 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-17 | 4/13/2007 | 24.5 | <0.0005 | 0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-17 | 4/13/2007 | 29.5 | <0.0005 | 0.002 | <0.001 | 0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-17 | 4/13/2007 | 34.5 | <0.0005 | 0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-17 | 4/13/2007 | 39.5 | <0.0005 | 0.003 | <0.001 | 0.003 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-17 | 4/13/2007 | 44.5 | 0.002 | 0.032 | 0.014 | 0.032 | -- | -- | -- | -- | 3.1 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-17 | 4/13/2007 | 49.5 | 0.001 | 0.019 | 0.007 | 0.018 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-17 | 4/13/2007 | 54.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-17 | 4/13/2007 | 59.5 | 0.0006 | 0.004 | <0.001 | 0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-17 | 4/13/2007 | 64.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-17 | 4/13/2007 | 69.5 | <0.0005 | <0.001 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-17 | 4/13/2007 | 74.5 | <0.0005 | 0.002 | <0.001 | <0.001 | -- | -- | -- | -- | <1.0 | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| VP-1 | 10/25/2007 | 6 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | -- | -- | -- | -- | 4.9 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| VP-2 | 10/25/2007 | 6 | <0.0005 | <0.001 | <0.001 | 0.001 | <0.0005 | -- | -- | -- | -- | 300 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| VP-3 | 10/25/2007 | 6 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | -- | -- | -- | -- | 6.4 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| VP-4 | 10/25/2007 | 6 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | -- | -- | -- | -- | 44 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| VP-5 | 10/25/2007 | 6 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | -- | -- | -- | -- | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| VP-6 | 10/25/2007 | 6 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | -- | -- | -- | -- | <4.0 | -- | -- | -- | -- | -- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1 | 5/21/2014 | 7 | 13 | -- | 250 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.084 | <0.003 | <0.003 | 0.01 | <0.003 | 0.008 | <0.003 | <0.003 | 0.019 | <0.003 | 0.025 | 0.098 | <0.003 | 43 | 0.26 | 0.082 | -- |
| CB-2 | 5/21/2014 | 6 | 6.4 | -- | 96 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.034 | <0.003 | <0.003 | 0.005 | <0.003 | <0.003 | <0.003 | <0.003 | 0.010 | <0.003 | 0.014 | 0.045 | <0.003 | 23 | 0.12 | 0.042 | -- |
| CB-2 | 5/21/2014 | 9 | 49 | -- | 300 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.067 | <0.003 | 0.023 | 0.010 | <0.003 | <0.003 | 0.007 | <0.003 | 0.015 | <0.003 | 0.02 | 0.099 | <0.003 | 37 | 0.19 | 0.068 | -- |
| CB-3 | 5/21/2014 | 2 | 0.001 | -- | <0.001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | 0.006 | <0.003 | <0.003 | -- |
| CB-3 | 5/21/2014 | 7 | 12 | -- | 200 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.058 | <0.003 | 0.015 | 0.007 | <0.003 | <0.003 | 0.006 | <0.003 | 0.014 | <0.003 | 0.02 | 0.081 | <0.003 | 29 | 0.18 | 0.063 | -- |
| CB-3 | 5/21/2014 | 9 | 32 | -- | 330 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.055 | <0.003 | 0.016 | 0.006 | 0.004 | <0.003 | 0.006 | <0.003 | 0.012 | <0.003 | 0.016 | 0.077 | <0.003 | 28 | 0.14 | 0.05 | -- |
| CB-4 | 5/21/2014 | 4 | 0.002 | -- | 0.006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | 0.005 | <0.003 | <0.003 | -- |
| CB-4 | 5/21/2014 | 6 | 0.02 | -- | 0.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | 0.027 | <0.003 | <0.003 | -- |
| CB-5 | 5/21/2014 | 7 | 2.9 | -- | 56 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | <0.003 | 0.005 | 0.004 | <0.003 | <0.003 | 0.003 | <0.003 | 0.005 | <0.003 | 0.007 | 0.033 | <0.003 | 4.3 | 0.062 | 0.025 | -- |
| CB-5 | 5/21/2014 | 9 | 28 | -- | 280 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.14 | <0.003 | 0.045 | 0.015 | <0.003 | <0.003 | 0.016 | <0.003 | 0.029 | <0.003 | 0.032 | 0.19 | <0.003 | 58 | 0.37 | 0.12 | -- |
| CB-6 | 5/21/2014 | 7 | 2.2 | -- | 31 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.019 | <0.003 | 0.005 | <0.003 | 0.006 | 0.024 | <0.003 | 7.1 | 0.047 | 0.018 | -- |
| CB-7 | 5/21/2014 | 4.5 | 0.0006 | -- | <0.001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | -- |
| CB-7 | 5/21/2014 | 9 | 3.2 | -- | 29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.013 | <0.003 | 0.004 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | 0.005 | <0.003 | 0.004 | 0.017 | <0.003 | 2.9 | 0.038 | 0.016 | -- |
| CB-1A-S-2.5 | 4/2/2019 | 2.5 | <0.00048 | <0.00048 | <0.00048 | <0.0012 | <0.0005 | -- | -- | <0.00097 | <0.078 | <2.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1A-S-5.0 | 4/2/2019 | 5 | <0.00045 | <0.00045 | <0.00045 | <0.0012 | <0.00090 | -- | -- | <0.00090 | <0.078 | <3.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1A-S-7.5 | 4/2/2019 | 7.5 | <3.1 | 110 | 77 | 340 | <6.2 | -- | -- | 23 | 2,900 | 290 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1A-S-10.0 | 4/2/2019 | 10 | 32 | 780 | 300 | 1,200 | <10 | -- | -- | 34 | 11,000 | 440 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1A-S-12.5 | 4/3/2019 | 12.5 | 1.9 | 3.3 | 4.9 | 12 | <0.28 | -- | -- | 1.1 | 150 | 26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1A-S-15.0 | 4/3/2019 | 15 | 5.2 | 100 | 44 | 180 | <2.9 | -- | -- | 5.4 J | 1,200 | 100 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1A-S-17.5 | 4/3/2019 | 17.5 | 0.37 | 0.13 | 0.062 J | 0.16 J | <0.11 | -- | -- | <0.11 | 2 | 7.2 J | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1B-S-2.5 | 4/9/2019 | 2.5 | <0.00049 | 0.0011 | <0.00049 | 0.0016 J | <0.00097 | -- | -- | <0.00097 | <0.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1B-S-5.0 | 4/9/2019 | 5 | <0.00040 | 0.0023 | 0.00068 J | 0.003 | <0.00079 | -- | -- | <0.00079 | <0.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1B-S-7.5 | 4/9/2019 | 7.5 | 7.6 J | 320 | 180 | 790 | <9.9 | -- | -- | 30 | 6,200 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1B-S-10.0 | 4/9/2019 | 10 | 44 | 1,600 | 360 | 2,300 | <8.2 | -- | -- | 46 | 13,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1B-S-12.5 | 4/9/2019 | 12.5 | 2.6 J | 130 | 62 | 280 | <4.7 | -- | -- | 11 J | 2,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1B-S-15.0 | 4/9/2019 | 15 | 0.0023 | 0.0042 | 0.0017 | 0.0034 | <0.00069 | -- | -- | <0.00069 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-1B-S-17.5 | 4/9/2019 | 17.5 | <0.00056 | 0.005 | 0.0059 | 0.024 | <0.0011 | -- | -- | 0.0015 J | <24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2A-S-2.5 | 4/4/2019 | 2.5 | <0.00050 | 0.00060 J | <0.00050 | <0.0013 | <0.00099 | -- | -- | <0.00099 | <0.13 | 8.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2A-S-5.0 | 4/4/2019 | 5 | <0.00045 | 0.00052 J | <0.00045 | <0.0012 | <0.00090 | -- | -- | <0.00090 | <0.14 | 4.1 J | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2A-S-7.5 | 4/4/2019 | 7.5 | <26 | 470 | 280 | 1,200 | <5.2 | -- | -- | 60 | 10,000 | 2,300 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2A-S-10 | 4/4/2019 | 10 | 12 | 180 | 64 | 290 | <2.3 | -- | -- | 12 | 2,700 | 1,700 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2A-S-15 | 4/4/2019 | 15 | 2 | 2 | 6.2 | 11 | <0.14 | -- | -- | 1.4 | 260 | 76 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2A-S-17.5 | 4/4/2019 | 17.5 | 0.51 | <0.039 | 0.51 | 0.17 | <0.078 | -- | -- | <0.078 | 2.7 | 3.2 J | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2A-S-20.0 | 4/4/2019 | 20 | 0.23 | 0.00074 J | 0.041 | 0.0016 J | <0.00095 | -- | -- | 0.0016 J | 1.2 | 2.9 J | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2B-S-2.5 | 4/4/2019 | 2.5 | 0.0016 | 0.0025 | <0.00051 | <0.0013 | <0.0010 | -- | -- | <0.0010 | <0.17 | 4.1 J | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2B-S-5.0 | 4/4/2019 | 5 | <0.00043 | 0.00069 J | <0.00043 | <0.0011 | <0.00085 | -- | -- | <0.00085 | <0.12 | 0.0011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2B-S-7.5 | 4/4/2019 | 7.5 | 30 | 710 | 370 | 1,500 | <9.9 | -- | -- | 73 | 14,000 | 2,600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Table 1**
**Soil Analytical Results - VOCs, TPH, Metals, PAHs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street**
**Oakland, California**

ARCADIS Design & Consultancy for natural and built assets

| Sample ID | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | VOCs | | | | | | | | TPH | | | | | | | | | Metals | | PAHs | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | Sample Depth (ft) | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Metals | Lead | Acenaphthene | Acenaphthylene | Anthracene | Benzo (a) anthracene | Benzo (a) pyrene | Benzo (b) fluoranthene | Benzo (g, h,i) perylene | Benzo (k) fluoranthene | Chrysene | Dibenz (a,h) anthracene | Fluoranthene | Fluorene | Indeno (1, 2, 3-cd) pyrene | Naphthalene | Phenanthrene | Pyrene | Kerosene |
| | | | 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 | 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 | mg/kg | mg/kg |
| LTCP Residential Threshold | 0 to 5 feet | | 8.2 | - | 89 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 5 to 10 feet | | 12 | - | 134 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | - | 80 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - | - | 12.47 | 6.36 | 1.94 | 10.15 | 5.66 | 74.70 | 26.56 | 39.18 | 10.46 | 394.25 | 85.83 | 5.96 | 31.54 | 1.15 | 10.69 | 45.37 | |
| CB-2B-S-10.0 | 4/4/2019 | 10 | **70** | 1,200 | 470 | 2,300 | <9.4 | -- | -- | **94** | 21,000 | 910 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2B-S-12.5 | 4/4/2019 | 12.5 | **79** | 910 | 300 | 1,500 | <8.3 | -- | -- | **66** | 15,000 | 2,400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2B-S-15.0 | 4/4/2019 | 15 | 2 | 1.5 | 9.6 | 16 | <0.20 | -- | -- | 1.7 | 530 | 9.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-2B-S-17.5 | 4/4/2019 | 17.5 | 0.31 | 0.0021 | 0.12 | 0.0051 | <0.00075 | -- | -- | 0.0034 | 1.2 | <2.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3A-S-2.5 | 4/5/2019 | 2.5 | <0.00047 | 0.00099 | <0.00047 | 0.0019 | <0.00094 | -- | -- | <0.00094 | <0.17 | 5.2 J | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3A-S-5.0 | 4/5/2019 | 5 | 0.00089 J | 0.0049 | 0.0014 | 0.0059 | <0.0012 | -- | -- | <0.0012 | 0.14 J | 58 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3A-S-7.5 | 4/5/2019 | 7.5 | 1.1 J | 40 | 29 | 140 | <2.0 | -- | -- | 8.6 | 1,200 | 86 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3A-S-10.0 | 4/5/2019 | 10 | 0.083 | 0.019 | 0.028 | 0.027 | <0.00087 | -- | -- | <0.00087 | 0.47 | 5.7 J | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3A-S-12.5 | 4/5/2019 | 12.5 | **83** | 1,100 | 410 | 2,000 | <9.6 | -- | -- | **81** | 13,000 | 1,900 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3A-S-15.0 | 4/5/2019 | 15 | 0.81 | 2.6 | 1.8 | 6.8 | <0.12 | -- | -- | 0.45 | 90 | 6.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3A-S-17.5 | 4/5/2019 | 17.5 | 0.12 | 0.074 J | 0.075 J | 0.11 J | <0.085 | -- | -- | <0.085 | 1.5 | 7.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3B-S-2.5 | 4/5/2019 | 2.5 | 0.0011 J | 0.0022 | <0.00065 | <0.0017 | <0.0013 | -- | -- | <0.0013 | <0.15 | <2.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3B-S-5.0 | 4/5/2019 | 5 | <0.00044 | 0.00096 | <0.00044 | <0.0011 | <0.00088 | -- | -- | <0.00088 | <0.13 | 3.2 J | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3B-S-7.5 | 4/5/2019 | 7.5 | **15** | 440 | 240 | 1,000 | <4.8 | -- | -- | 41 | 8,900 | 1,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3B-S-10.0 | 4/5/2019 | 10 | **26** | 550 | 210 | 940 | <7.9 | -- | -- | 33 | 9,500 | 1,300 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3B-S-12.5 | 4/5/2019 | 12.5 | **41** | 670 | 220 | 1,000 | <8.8 | -- | -- | 37 | 11,000 | 1,400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3B-S-15.0 | 4/5/2019 | 15 | 0.6 | 1.1 | 2.7 | 6.1 | <0.11 | -- | -- | 0.53 | 87 | 88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-3B-S-17.5 | 4/5/2019 | 17.5 | 0.18 | 0.046 J | <0.045 | <0.091 | <0.091 | -- | -- | <0.091 | 1 | 5.1 J | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4A-S-2.5 | 4/8/2019 | 2.5 | 0.00081 J | 0.0037 | 0.002 | 0.0059 | <0.0011 | -- | -- | <0.0011 | <0.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4A-S-5.0 | 4/8/2019 | 5 | 0.0012 | 0.017 | 0.0018 | 0.026 | <0.00089 | -- | -- | <0.00089 | 0.24 J | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4A-S-7.5 | 4/8/2019 | 7.5 | <2.6 | 99 | 77 | 350 | <5.2 | -- | -- | 23 | 2,600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4A-S-10.0 | 4/8/2019 | 10 | 4.7 | 210 | 96 | 480 | <3.4 | -- | -- | 24 | 2,700 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4A-S-12.5 | 4/8/2019 | 12.5 | 6.7 | 200 | 73 | 360 | <3.3 | -- | -- | 14 | 2,600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4A-S-15.0 | 4/8/2019 | 15 | 0.51 | 0.0027 | 0.019 | 0.0058 | <0.00090 | -- | -- | 0.002 | <17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4A-S-17.5 | 4/8/2019 | 17.5 | 0.0014 | 0.0017 | <0.00040 | <0.0010 | <0.078 | -- | -- | <0.00080 | 0.45 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4B-S-2.5 | 4/9/2019 | 2.5 | <0.00051 | 0.0027 | <0.00051 | 0.0013 J | <0.0010 | -- | -- | <0.0010 | <0.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4B-S-5.0 | 4/9/2019 | 5 | <0.00043 | 0.00096 | <0.00043 | 0.0012 J | <0.00086 | -- | -- | <0.00086 | <0.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4B-S-7.5 | 4/9/2019 | 7.5 | <2.0 | 52 | 32 | 140 | <4.0 | -- | -- | 13 | 1,400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4B-S-10.0 | 4/9/2019 | 10 | **61** | 1,600 | 430 | 2,800 | <8.6 | -- | -- | **61** | 15,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4B-S-12.5 | 4/9/2019 | 12.5 | 0.22 | 3.6 | 1.3 | 5.9 | <0.18 | -- | -- | 0.29 J | 47 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4B-S-15.0 | 4/9/2019 | 15 | 0.003 | 0.0081 | 0.0019 | 0.0058 | <0.00089 | -- | -- | <0.00089 | 0.89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4B-S-17.5 | 4/9/2019 | 17.5 | **2.5** | 28 | 8 | 33 | <0.74 | -- | -- | 0.75 J | 420 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4C-S-2.5 | 4/3/2019 | 2.5 | <0.00059 | 0.00086 J | <0.00059 | <0.0015 | <0.0012 | -- | -- | <0.0012 | <0.21 | 4.8 J | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4C-S-5.0 | 4/3/2019 | 5 | <0.00054 | 0.00081 J | <0.00054 | <0.0014 | <0.0011 | -- | -- | <0.0011 | 0.20 J | <3.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4C-S-7.5 | 4/3/2019 | 7.5 | **24** | 900 | 470 | 2,000 | <12 | -- | -- | **86** | 16,000 | 2,700 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4C-S-10.0 | 4/3/2019 | 10 | **110** | 2,300 | 870 | 4,000 | <12 | -- | -- | **160** | 33,000 | 7,800 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4C-S-12.5 | 4/4/2019 | 12.5 | 7.4 | 87 | 32 | 140 | <5.2 | -- | -- | 5.3 J | 1,500 | 130 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4C-S-15.0 | 4/4/2019 | 15 | 5.1 | 41 | 20 | 71 | <1.5 | -- | -- | 3.1 J | 810 | 44 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-4C-S-17.5 | 4/4/2019 | 17.5 | 0.57 | <0.045 | 0.17 | <0.090 | <0.090 | -- | -- | <0.090 | <18 | <2.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-5A-S-2.5 | 4/5/2019 | 2.5 | 0.0011 J | 0.0042 | <0.00076 | 0.0038 | <0.0015 | -- | -- | <0.0015 | 0.16 J | 6.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-5A-S-5.0 | 4/5/2019 | 5 | <0.00045 | 0.00075 J | <0.00045 | <0.0012 | <0.00090 | -- | -- | <0.00090 | 0.20 J | 5.0 J | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-5A-S-7.5 | 4/5/2019 | 7.5 | 0.011 | 0.046 | 0.016 | 0.061 | <0.0012 | -- | -- | 0.014 | 0.75 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-5A-S-10.0 | 4/5/2019 | 10 | **29** | 500 | 210 | 840 | <4.1 | -- | -- | 28 | 10,000 | 1,300 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-5A-S-12.5 | 4/5/2019 | 12.5 | **89** | 2,000 | 610 | 3,300 | <9.2 | -- | -- | **73** | 28,000 | 1,900 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-5A-S-15.0 | 4/5/2019 | 15 | 0.78 | 8.1 | 4.1 | 17 | <0.22 | -- | -- | 0.67 | 210 | 52 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-5A-S-17.5 | 4/5/2019 | 17.5 | 0.0011 | 0.018 | 0.0032 | 0.012 | <0.00082 | -- | -- | <0.00082 | 0.14 J | <2.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-6A-S-2.5 | 4/8/2019 | 2.5 | 0.007 | 0.021 | <0.00046 | 0.0024 | <0.00092 | -- | -- | <0.00092 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-6A-S-5.0 | 4/8/2019 | 5 | <0.00042 | 0.00063 J | <0.00042 | <0.0011 | <0.00085 | -- | -- | <0.00085 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-6A-S-7.5 | 4/8/2019 | 7.5 | 2.9 | 88 | 58 | 250 | <0.42 | -- | -- | 12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-6A-S-10.0 | 4/8/2019 | 10 | **17** | 320 | 120 | 540 | <0.44 | -- | -- | 18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-6A-S-12.5 | 4/8/2019 | 12.5 | 1.8 | 4 | 2 | 7.9 | <0.080 | -- | -- | 0.28 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-6A-S-15.0 | 4/8/2019 | 15 | 0.011 | 0.00098 | 0.00051 J | <0.0010 | <0.00078 | -- | -- | <0.00078 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-6A-S-17.5 | 4/8/2019 | 17.5 | 0.059 | 0.014 | 0.042 | 0.019 | <0.00081 | -- | -- | 0.0024 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CB-6A-S-20.0 | 4/8/2019 | 20 | 0.74 | 110 | 4.1 | 190 | <0.088 | -- | -- | 0.77 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-6-A | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **210** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-6-E | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **270** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-6-N | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **210** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-6-NE | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **470** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-6-NW | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **170** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-6-S | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **94** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-6-SE | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **970** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-6-SW | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **300** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-6-W | 4/1/2019 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **360** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
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**Table 1**
**Soil Analytical Results - VOCs, TPH, Metals, PAHs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street**
**Oakland, California**

ARCADIS Design & Consultancy for natural and built assets

| Sample ID | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | VOCs | | | | | | | | TPH | | | | | | | | | Metals | | PAHs | | | | | | | | | | | | | | | | | | | |
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| | | | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Metals | Lead | Acenaphthene | Acenaphthylene | Anthracene | Benzo (a) anthracene | Benzo (a) pyrene | Benzo (b) fluoranthene | Benzo (g, h,i) perylene | Benzo (k) fluoranthene | Chrysene | Dibenz (a,h) anthracene | Fluoranthene | Fluorene | Indeno (1, 2, 3-cd) pyrene | Naphthalene | Phenanthrene | Pyrene | Kerosene |
| | Sample Date | Sample Depth (ft) | 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 | 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 | mg/kg | mg/kg |
| LTCP Residential Threshold | 0 to 5 feet | | 8.2 | - | 89 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 5 to 10 feet | | 12 | - | 134 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | - | 80 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - | - | 12.47 | 6.36 | 1.94 | 10.15 | 5.66 | 74.70 | 26.56 | 39.18 | 10.46 | 394.25 | 85.83 | 5.96 | 31.54 | 1.15 | 10.69 | 45.37 | |
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**Table 1**
**Soil Analytical Results - VOCs, TPH, Metals, PAHs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street**
**Oakland, California**

| Sample ID | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | VOCs | | | | | | | | TPH | | | | | | | | | Metals | | PAHs | | | | | | | | | | | | | | | | | | | | |
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| | Sample Date | Sample Depth (ft) | 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 | 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 | mg/kg | mg/kg |
| LTCP Residential Threshold | 0 to 5 feet | | 8.2 | - | 89 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 5 to 10 feet | | 12 | - | 134 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | - | 80 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - | - | 12.47 | 6.36 | 1.94 | 10.15 | 5.66 | 74.70 | 26.56 | 39.18 | 10.46 | 394.25 | 85.83 | 5.96 | 31.54 | 1.15 | 10.69 | 45.37 | |
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**Table 1**
**Soil Analytical Results - VOCs, TPH, Metals, PAHs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street**
**Oakland, California**

ARCADIS Design & Consultancy for natural and built assets

| Sample ID | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | VOCs | | | | | | | | TPH | | | | | | | | | Metals | | PAHs | | | | | | | | | | | | | | | | | | | |
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| | Sample Date | Sample Depth (ft) | 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 | 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 | mg/kg | mg/kg |
| LTCP Residential Threshold | 0 to 5 feet | | 8.2 | - | 89 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 5 to 10 feet | | 12 | - | 134 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | - | 80 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - | - | 12.47 | 6.36 | 1.94 | 10.15 | 5.66 | 74.70 | 26.56 | 39.18 | 10.46 | 394.25 | 85.83 | 5.96 | 31.54 | 1.15 | 10.69 | 45.37 | |
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**Table 1**
**Soil Analytical Results - VOCs, TPH, Metals, PAHs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street**
**Oakland, California**

ARCADIS Design & Consultancy for natural and built assets

| Sample ID | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | VOCs | | | | | | | | TPH | | | | | | | | | Metals | | PAHs | | | | | | | | | | | | | | | | | | | |
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| | Sample Date | Sample Depth (ft) | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Metals | Lead | Acenaphthene | Acenaphthylene | Anthracene | Benzo (a) anthracene | Benzo (a) pyrene | Benzo (b) fluoranthene | Benzo (g, h,i) perylene | Benzo (k) fluoranthene | Chrysene | Dibenz (a,h) anthracene | Fluoranthene | Fluorene | Indeno (1, 2, 3-cd) pyrene | Naphthalene | Phenanthrene | Pyrene | Kerosene |
| | | | 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 | 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 | mg/kg | mg/kg |
| LTCP Residential Threshold | 0 to 5 feet | | 8.2 | - | 89 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 5 to 10 feet | | 12 | - | 134 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | - | 80 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - | - | 12.47 | 6.36 | 1.94 | 10.15 | 5.66 | 74.70 | 26.56 | 39.18 | 10.46 | 394.25 | 85.83 | 5.96 | 31.54 | 1.15 | 10.69 | 45.37 | |
| SS-1-E | 4/5/2019 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **630** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
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| SS-6-S | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **590** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-6-SW | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-6-W | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,100** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-10-A | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-10-E | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **290** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-10-N | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **960** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-10-NE | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **380** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-10-NW | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **420** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-10-S | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-10-SE | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **90** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-10-SW | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-10-W | 4/1/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-5-SE | 4/2/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-2-E | 4/3/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-2-NE | 4/3/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-14-NW | 4/3/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **660** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-14-SW | 4/3/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **340** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-14-W | 4/3/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,100** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Table 1**
**Soil Analytical Results - VOCs, TPH, Metals, PAHs**
**Former Signal Oil Service Station No. 206145**
**800 Center Street**
**Oakland, California**

| Sample ID | LTCP Criteria: | 0-5 ft bgs 5-10 ft bgs | VOCs | | | | | | | | TPH | | | | | | | | | Metals | | PAHs | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | Sample Depth (ft) | Benzene | Toluene | Ethylbenzene | Xylenes, total | Methyl Tertiary-Butyl Ether | 1,2-DCA | EDB | Naphthalene | TPH-g | TPH-d | TPH-mo | TPH-ho | TOG | VOC | SVOC | TVH | TEH | Metals | Lead | Acenaphthene | Acenaphthylene | Anthracene | Benzo (a) anthracene | Benzo (a) pyrene | Benzo (b) fluoranthene | Benzo (g, h,i) perylene | Benzo (k) fluoranthene | Chrysene | Dibenz (a,h) anthracene | Fluoranthene | Fluorene | Indeno (1, 2, 3-cd) pyrene | Naphthalene | Phenanthrene | Pyrene | Kerosene |
| | | | 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 | 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 | mg/kg | mg/kg |
| LTCP Residential Threshold | 0 to 5 feet | | 8.2 | - | 89 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 5 to 10 feet | | 12 | - | 134 | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | - | 80 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Leaching to Groundwater Levels (Non Drinking Water) | - | | 0.025 | 10.29 | 0.43 | 10.40 | 2.53 | 0.031 | 0.0019 | - | 4,932 | 7,284 | - | - | - | - | - | - | - | - | - | 12.47 | 6.36 | 1.94 | 10.15 | 5.66 | 74.70 | 26.56 | 39.18 | 10.46 | 394.25 | 85.83 | 5.96 | 31.54 | 1.15 | 10.69 | 45.37 | |
| SS-1-E | 4/5/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **500** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-1-NE | 4/5/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **810** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-1-S | 4/5/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **120** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-1-SE | 4/5/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **960** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-1-SW | 4/5/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-1-A | 4/8/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,300** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-1-N | 4/8/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **390** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-1-NW | 4/8/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,300** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-3-E | 4/9/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-3-N | 4/9/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-3-SE | 4/9/2019 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-1 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 55.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-2 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-3 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.63 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-4 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-5 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-6 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **669** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-7 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-9 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 24.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-10 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **198** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-11 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.36 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-12 | 1/27/2010 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-6-A | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **2,400** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-6-S | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **290** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-6-W | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **500** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-10-E | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-10-N | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-10-NE | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-10-NW | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **130** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-10-SE | 4/1/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-14-NW | 4/3/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-14-SW | 4/3/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1,800** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-14-W | 4/3/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **3,000** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-1-E | 4/5/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **790** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-1-NE | 4/5/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-1-S | 4/5/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-1-SE | 4/5/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **240** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-1-A | 4/8/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **270** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-1-N | 4/8/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **350** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SS-1-NW | 4/8/2019 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | **340** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Notes:**

LTCP = Low-Threat Underground Storage Tank Case Closure Policy (CA) (in mg/kg)
ESL = Environmental Screening Levels (in mg/kg)
ft = feet
VOCs = Volatile Organic Compounds
TPH = Total Petroleum Hydrocarbons
PAHs = Polycyclic Aromatic Hydrocarbons
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
TPH-g = Total Petroleum Hydrocarbons as Gasoline Range
TPH-d = Total Petroleum Hydrocarbons as Diesel Range
TPH-mo = Total Petroleum Hydrocarbons as Motor Oil Range
TPH-ho = Total Petroleum Hydrocarbons as Heavy Oil Range
TOG = Total Oil and Grease
SVOC = Semi-Volatile Organic Compounds
TVH = Total Volatile Hydrocarbons.
TEH = Total Extractable Hydrocarbons as Gasoline
bgs = below ground surface
mg/kg = milligrams per kilogram
**Bold** = Result value exceeds LTCP Residential Threshold

Shaded = Result value exceeds the Leaching to Groundwater Levels (Non Drinking Water)
ND = Not detected at or above the stated MDL
USEPA = United States Environmental Protection Agency
Metals by EPS Method 6010B
Total petroleum hydrocarbons as diesel (TPHd) by USEPA Method 8015M w/ silca gel cleanup
Total petroleum hydrocarbons as gasoline (TPHg) by USEPA Method 8015M
Benzene, toluene, ethylbenzene, and total xylenes (collectively BTEX); samples analyzed by USEPA Method 8260B
-- = Not Applicable / Not Analyzed
* Cadmium 0.7; Chromium 18; Lead 18; Zinc 19, by EPA 6010 for cadmium, chromium, and zinc and USEPA 7420 for lead.
~~3,000~~ = Overexcavated in 2002, reported analytical results no longer applicable
[1] = Composite sample
[a] = 0.0044 mg/kg methylene chloroide
[b] = 0.10 mg/kg bis (2-ethylhexl) phthalate
[c] = 0.37 mg/kg Cadmium, 46.4 mg/kg Chromium, 3.9 mg/kg Lead, 32.8 mg/kg Nickel, and 50 mg/kg Zinc
[d] = Total Lead by USEPA Method 6010B

**Table 2. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Road, Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | TPH-g (µg/L) | TPH-d w/ Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2 DCA | EDB | Naphthalene (µg/L) | Carbon dioxide (µg/L) | Nitrate Nitrogen (µg/L) | Sulfate (µg/L) | Alkalinity to pH 4.5 (µg/L) | Alkalinity to pH 8.3 (µg/L) | Ferrous Iron (µg/L) | Kerosene (µg/L) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | -- | |
| MW-1A | 9/3/2010 | -- | <50 | **590** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1A | 2/3/2011 | -- | **100** | **840** | **2.5** | **0.60** | **6.7** | **2.0** | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1A | 5/4/2011 | -- | <50 | **1,500** | **6.7** | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1A | 8/4/2011 | -- | <50 | **750** | **0.90** | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1A | 2/29/2012 | -- | <50 | **630 / 250** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1A | 8/7/2012 | -- | <50 | **540** / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1A | 2/18/2013 | -- | <50 | **830 / 110** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1A | 9/27/2013 | -- | <50 | **950 / 420** | **0.30** | <0.20 | <0.20 | <0.60 | <0.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1A | 1/31/2014 | -- | **150** | **9,100 / 4,400** | **2.2** | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1A | 8/18/2016 | -- | <100 | <100 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1A | 2/7/2017 | -- | <100 | <100 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1A | 3/3/2018 | -- | **100** | <100 | **6.0** | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1A | 8/14/2018 | -- | <17 | **83** | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1A | 2/13/2019 | -- | <61 | **42 J** | **3.6** | **0.10 J** | **0.20 J** | **0.10 J** | <0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1A | 10/10/2019 | -- | <50 | **21 J** | <0.2 | <0.2 | <0.2 | <0.8 | <0.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1A | 3/31/2020 | -- | **50 J** | <100 | <1 | <1 | <1 | <3 | <1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1A | 9/29/2020 | -- | **166** | **86.8 J** | <1 UB | <1 | <1 | <3 | <1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | | | | | | | | | | | | | | | | | | | |
| MW-2 | 9/3/2010 | -- | <50 | **130** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 2/3/2011 | -- | **75** | **430** | <0.50 | <0.50 | <0.50 | <1.5 | **8.9** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 5/4/2011 | -- | **1,300** | **160** | **12** | **48** | **0.70** | **47** | <100 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 8/4/2011 | -- | **1,500** | **99** | **43** | **100** | **1.4** | **47** | **34** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 2/29/2012 | -- | <50 | 75 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 8/7/2012 | -- | <50 | **410 / 270** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 2/18/2013 | -- | <50 | **430** / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 9/27/2013 | -- | <50 | **150** / <50 | <0.20 | <0.20 | <0.20 | <0.60 | <0.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 1/31/2014 | -- | <50 | **1,200 / 410** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 8/18/2016 | -- | <100 | **62 J** | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 2/7/2017 | -- | <100 | <100 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 3/3/2018 | -- | <100 | **100** | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 8/14/2018 | -- | <17 | **440** | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 2/13/2019 | -- | **190** | <17 | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 10/10/2019 | -- | <50 | <17 | <0.2 | <0.2 | <0.2 | <0.8 | <0.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 3/31/2020 | -- | <100 | <100 | <1 | <1 | <1 | <3 | <1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 9/29/2020 | -- | **59.2 J** | <100 | <1 UB | <1 | <1 | <3 | <1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | | | | | | | | | | | | | | | | | | | |
| MW-3 | 9/3/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 160,000 | 390 | 45,900 | 531,000 | <460 | 21,500 | -- | |
| MW-3 | 9/3/2010 | -- | **32,000** | **4,000** | **65** | **690** | **3,100** | **4,900** | **380** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 2/3/2011 | -- | **2,000** | **1,400** | **17** | **34** | **250** | **190** | **26** | -- | -- | -- | **44,000** | <250 | **180,000** | **385,000** | <460 | **28,500** | -- | |
| MW-3 | 5/4/2011 | -- | **57** | **340** | <0.50 | **1.1** | **3.8** | **7.7** | <2.5 | -- | -- | -- | **20,000** | <250 | **222,000** | **310,000** | <460 | **10,500** | -- | |
| MW-3 | 8/4/2011 | -- | **1,200** | **2,100** | **6.5** | **4.6** | **110** | **8.9** | **16** | -- | -- | -- | **68,000** | **350** | **275,000** | **362,000** | <460 | **32,500** | -- | |
| MW-3 | 2/29/2012 | -- | **2,000** | **1,500 / 510** | **74** | **2.2** | **6.5** | <5.0 | <18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 8/7/2012 | -- | **3,800** | **2,600 / 1,100** | **120** | **4.1** | **5.0** | **14** | **38** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 2/18/2013 | -- | **1,700** | **1,700 / 580** | **11** | **2.6** | **3.8** | **19** | **27** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 9/27/2013 | -- | **3,100** | **1,800 / 1,100** | **30** | **2.4** | **3.1** | **16** | **66** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 1/31/2014 | -- | **3,300** | **4,100 / 1,400** | **33** | **2.0** | **3.6** | **5.9** | **66** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 8/18/2016 | -- | **4,100** | **780** | **21** | **2.8** | **2.4** | **10** | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 2/7/2017 | -- | **3,100** | **510** | **8.2** | **3.6** | **75** | **96** | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 3/3/2018 | -- | **2,600** | **530** | **9.4** | **1.9** | **2.5** | **3.4** | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 8/14/2018 | -- | **3,000** | **810** | **10** | **2.8** | **3.6** | **27** | <0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 2/13/2019 | -- | **140** | **520** | <0.03 | **0.60 J** | **0.70 J** | **0.50 J** | **6.4** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 10/10/2019 | -- | **510** | **1,800** | **1** | **0.6 J** | **0.3 J** | <0.8 | <0.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 3/31/2020 | -- | **1,600** | **310** | **1** | **1 J** | **0.4 J** | <3 | <1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |

**Table 2. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Road, Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | TPH-g (µg/L) | TPH-d w/ Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2 DCA | EDB | Naphthalene (µg/L) | Carbon dioxide (µg/L) | Nitrate Nitrogen (µg/L) | Sulfate (µg/L) | Alkalinity to pH 4.5 (µg/L) | Alkalinity to pH 8.3 (µg/L) | Ferrous Iron (µg/L) | Kerosene (µg/L) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-3** | 9/29/2020 | -- | **2,050** | **111** | **2.64** | **0.784 J** | **0.185 J** | **0.587 J** | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-4** | 9/3/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 210,000 | <250 | 2,000 | 400,000 | <460 | 7,500 | -- | |
| **MW-4** | 9/3/2010 | -- | **310** | **400** | <5.0 | <0.50 | **1.2** | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-4** | 2/3/2011 | -- | **55** | **160** | **1.6** | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | **75,000** | <250 | **52,600** | **309,000** | <460 | **4,100** | -- | |
| **MW-4** | 5/4/2011 | -- | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | **76,000** | <250 | **16,700** | **183,000** | <460 | **2,600** | -- | |
| **MW-4** | 8/4/2011 | -- | **590** | **940** | **110** | **9.0** | **10** | **4.6** | **4.4** | -- | -- | -- | **130,000** | <250 | **68,900** | **361,000** | <460 | **4,200** | -- | |
| **MW-4** | 2/29/2012 | -- | **130** | **270** / <50 | <0.50 | <0.50 | **0.60** | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-4** | 8/7/2012 | -- | **400** | **700 / 54** | **20** | <0.50 | **3.1** | <1.5 | **5.3** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-4** | 2/18/2013 | -- | **100** | **600** / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-4** | 9/27/2013 | -- | **370** | 650 / <50 | **0.80** | **0.30** | **0.70** | <3.0 | <0.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-4** | 1/31/2014 | -- | **90** | **6,600 / 3,200** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-4** | 8/18/2016 | -- | **170** | **1,100** | **3.0** | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-4** | 2/7/2017 | -- | <100 | <100 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-4** | 3/3/2018 | -- | <100 | <110 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-4** | 8/14/2018 | -- | **3,700** | **350** | **730** | <0.10 | <0.05 | **2.1** | <0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-4** | 2/13/2019 | -- | **110** | <17 | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-4** | 10/10/2019 | -- | **210** | **2,100** | **72** | <0.2 | **5** | <0.8 | <0.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-4** | 3/31/2020 | -- | **230** | **190** | <1 | <1 | <1 | <3 | <1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-4** | 9/29/2020 | -- | **614** | **106** | <1 UB | <1 | <1 | <3 | <1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-5** | 9/3/2010 | -- | <50 | **62** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-5** | 2/3/2011 | -- | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-5** | 5/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-5** | 8/4/2011 | -- | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-5** | 2/29/2012 | -- | <50 | <50 / 53 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-5** | 8/7/2012 | -- | <50 | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-5** | 2/18/2013 | -- | <50 | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-5** | 9/27/2013 | -- | <50 | <50 / <50 | <0.20 | <0.20 | <0.20 | <0.6 | <0.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-5** | 1/31/2014 | -- | <50 | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-5** | 8/18/2016 | -- | <100 | <100 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-5** | 2/7/2017 | -- | <100 | <100 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-5** | 3/3/2018 | -- | <100 | <110 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-5** | 8/14/2018 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-5** | 2/13/2019 | -- | **67 J** | <17 | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-5** | 10/10/2019 | -- | <50 | <17 | <0.2 | <0.2 | <0.2 | <0.8 | <0.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-5** | 3/31/2020 | -- | <100 | <99 | <1 | <1 | <1 | <3 | <1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-5** | 9/29/2020 | -- | <100 | <100 | <1 UB | <1 | <1 | <3 | <1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-6** | 9/3/2010 | -- | <50 | | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-6** | 2/3/2011 | -- | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-6** | 5/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-6** | 8/4/2011 | -- | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-6** | 2/29/2012 | -- | <50 | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-6** | 8/7/2012 | -- | <50 | 74 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-6** | 2/18/2013 | -- | <50 | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-6** | 9/27/2013 | -- | <50 | <50 / <50 | <0.20 | <0.20 | <0.20 | <0.6 | <0.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-6** | 1/31/2014 | -- | <50 | <160 / <160 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-6** | 8/18/2016 | -- | <100 | <110 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-6** | 2/7/2017 | -- | **95 J** | <110 | **23** | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-6** | 3/3/2018 | -- | <100 | <110 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-6** | 8/14/2018 | -- | <17 | <50 | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-6** | 2/13/2019 | -- | **71 J** | <17 | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-6** | 10/10/2019 | -- | **220** | <17 | <0.2 | <0.2 | <0.2 | <0.8 | <0.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |

**Table 2. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Road, Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | TPH-g (µg/L) | TPH-d w/ Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2 DCA | EDB | Naphthalene (µg/L) | Carbon dioxide (µg/L) | Nitrate Nitrogen (µg/L) | Sulfate (µg/L) | Alkalinity to pH 4.5 (µg/L) | Alkalinity to pH 8.3 (µg/L) | Ferrous Iron (µg/L) | Kerosene (µg/L) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-6** | 3/31/2020 | -- | <100 | **520** | <1 | <1 | <1 | <3 | <1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-6** | 9/29/2020 | -- | <100 | **197** | <1 UB | <1 | <1 | <3 | <1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-7** | 9/3/2010 | -- | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-7** | 2/3/2011 | -- | <50 | **220** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-7** | 5/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-7** | 8/4/2011 | -- | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-7** | 2/29/2012 | -- | <50 | 350 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-7** | 8/7/2012 | -- | <50 | **96 / 63** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-7** | 2/18/2013 | -- | <50 | **520 / 130** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-7** | 9/27/2013 | -- | <50 | **1,200 / 880** | <0.20 | <0.20 | <0.20 | <0.6 | <0.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-7** | 1/31/2014 | -- | <50 | **2,900 / 1,100** | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-7** | 8/18/2016 | -- | <100 | <110 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-7** | 2/7/2017 | -- | <100 | <100 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-7** | 3/3/2018 | -- | <100 | <100 | <2.0 | **8.5** | <2.0 | <5.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-7** | 8/14/2018 | -- | <17 | <50 | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-7** | 2/13/2019 | -- | **660** | <17 | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-7** | 10/10/2019 | -- | **160** | <17 | <0.2 | <0.2 | <0.2 | <0.8 | <0.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-7** | 3/31/2020 | -- | <100 | <98 | <1 | <1 | <1 | <3 | <1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-7** | 9/29/2020 | -- | <100 | **201** | <1 UB | <1 | <1 | <3 | <1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-8** | 9/3/2010 | -- | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-8** | 2/3/2011 | -- | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-8** | 5/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-8** | 8/4/2011 | -- | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-8** | 2/29/2012 | -- | <50 | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-8** | 8/7/2012 | -- | <50 | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-8** | 2/18/2013 | -- | <50 | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-8** | 9/27/2013 | -- | <50 | 88 / <50 | <0.20 | <0.20 | <0.20 | <0.6 | <0.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-8** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-8** | 8/18/2016 | -- | <100 | <100 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-8** | 2/7/2017 | -- | <100 | <100 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-8** | 3/3/2018 | -- | <100 | <110 | <2.0 | <2.0 | <2.0 | <5.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-8** | 8/14/2018 | -- | <17 | <50 | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-8** | 2/13/2019 | -- | **74 J** | <17 | <0.03 | <0.10 | <0.05 | <0.10 | <0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-8** | 10/10/2019 | -- | <50 | <17 | <0.2 | <0.2 | <0.2 | <0.8 | <0.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-8** | 3/31/2020 | -- | <100 | <98 | <1 | <1 | <1 | <3 | <1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-8** | 9/29/2020 | -- | <100 | **31.8 J** | <1 UB | <1 | <1 | <3 | <1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-9** | 9/3/2010 | -- | <50 | **95** | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-9** | 2/3/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-9** | 5/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-9** | 8/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-9** | 2/29/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-9** | 8/7/2012 | -- | <50 | 61 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-9** | 2/18/2013 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-9** | 9/27/2013 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-9** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-9** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-9** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-10** | 9/3/2010 | -- | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-10** | 2/3/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-10** | 5/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |

Table 2. Groundwater Analytical Results
Former Signal Oil Service Station No. 206145
800 Center Road, Oakland, California

| Well ID | Sample Date | Sample depth (ft bgs) | TPH-g (µg/L) | TPH-d w/ Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2 DCA | EDB | Naphthalene (µg/L) | Carbon dioxide (µg/L) | Nitrate Nitrogen (µg/L) | Sulfate (µg/L) | Alkalinity to pH 4.5 (µg/L) | Alkalinity to pH 8.3 (µg/L) | Ferrous Iron (µg/L) | Kerosene (µg/L) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-10** | 8/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-10** | 2/29/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-10** | 8/7/2012 | -- | <50 | 59 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-10** | 2/18/2013 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-10** | 9/27/2013 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-10** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-10** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-10** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | | | | | | | | | -- | -- | | | | | | | | | |
| **MW-11** | 9/3/2010 | -- | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-11** | 2/3/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-11** | 5/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-11** | 8/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-11** | 2/29/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-11** | 8/7/2012 | -- | <50 | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-11** | 2/18/2013 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-11** | 9/27/2013 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-11** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-11** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-11** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | | | | | | | | | | | | | | | | | | -- | |
| **MW-12** | 9/3/2010 | -- | <50 | **65** | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-12** | 2/3/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-12** | 5/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-12** | 8/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-12** | 2/29/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-12** | 8/7/2012 | -- | <50 | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-12** | 2/18/2013 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-12** | 9/27/2013 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-12** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-12** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-12** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | | | | | | | | | | | | | | | | | | | |
| **MW-13** | 9/3/2010 | -- | <50 | **58** | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-13** | 2/3/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-13** | 5/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-13** | 8/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-13** | 2/29/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-13** | 8/7/2012 | -- | <50 | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-13** | 2/18/2013 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-13** | 9/27/2013 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-13** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-13** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-13** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | | | | | | | | | -- | -- | | | | | | | | | |
| **MW-14** | 9/3/2010 | -- | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-14** | 2/3/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-14** | 5/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-14** | 8/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-14** | 2/29/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-14** | 8/7/2012 | -- | <50 | 61 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-14** | 2/18/2013 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-14** | 9/27/2013 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-14** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |

**Table 2. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Road, Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | TPH-g (µg/L) | TPH-d w/ Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2 DCA | EDB | Naphthalene (µg/L) | Carbon dioxide (µg/L) | Nitrate Nitrogen (µg/L) | Sulfate (µg/L) | Alkalinity to pH 4.5 (µg/L) | Alkalinity to pH 8.3 (µg/L) | Ferrous Iron (µg/L) | Kerosene (µg/L) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-14** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-14** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | | | | | | | | | | | | | | | | | | -- | |
| **MW-15** | 9/3/2010 | -- | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-15** | 2/3/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-15** | 5/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-15** | 8/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-15** | 2/29/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-15** | 8/7/2012 | -- | <50 | <50 / 100 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-15** | 2/18/2013 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-15** | 9/27/2013 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-15** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-15** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-15** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | | | | | | | | | | | | | | | | | | | |
| **MW-16** | 9/3/2010 | -- | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-16** | 2/3/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-16** | 5/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-16** | 8/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-16** | 2/29/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-16** | 8/7/2012 | -- | <50 | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-16** | 2/18/2013 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-16** | 9/27/2013 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-16** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-16** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-16** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
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| **MW-17** | 9/3/2010 | -- | <50 | **67** | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-17** | 2/3/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-17** | 5/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-17** | 8/4/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-17** | 2/29/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-17** | 8/7/2012 | -- | <50 | <50 / <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-17** | 2/18/2013 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-17** | 9/27/2013 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-17** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-17** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **MW-17** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | | | | | | | | | | | | | | | | | | | |
| **CB-1A** | 4/3/2019 | -- | **170,000** | **3,500** | **8,100** | **43,000** | **9,400** | **3,500** | <250 | -- | -- | **790 J** | -- | -- | -- | -- | -- | -- | -- | |
| **CB-1B** | 4/9/2019 | -- | **120,000** | **12,000** | **2,900** | **25,000** | **7,300** | **29,000** | <250 | -- | -- | **650 J** | -- | -- | -- | -- | -- | -- | -- | |
| **CB-2A** | 4/4/2019 | -- | **190,000** | **38,000** | **12,000** | **32,000** | **16,000** | **70,000** | <250 | -- | -- | **2,800** | -- | -- | -- | -- | -- | -- | -- | |
| **CB-2B** | 4/5/2019 | -- | **260,000** | **7,100** | **8,700** | **49,000** | **12,000** | **53,000** | <1,300 | -- | -- | <2,000 | -- | -- | -- | -- | -- | -- | -- | |
| **CB-3A** | 4/5/2019 | -- | **200,000** | **100,000** | **9,300** | **40,000** | **11,000** | **48,000** | <250 | -- | -- | **2,200** | -- | -- | -- | -- | -- | -- | -- | |
| **CB-3B** | 4/5/2019 | -- | **200,000** | **13,000** | **4,100** | **35,000** | **6,100** | **26,000** | <2,500 | -- | -- | <2,000 | -- | -- | -- | -- | -- | -- | -- | |
| **CB-4A** | 4/8/2019 | -- | **170,000** | **27,000** | **5,100** | **39,000** | **7,500** | **38,000** | <260 | -- | -- | **1,800** | -- | -- | -- | -- | -- | -- | -- | |
| **CB-4B** | 4/9/2019 | -- | **130,000** | **4,500** | **3,300** | **21,000** | **5,000** | **21,000** | <63 | -- | -- | **340** | -- | -- | -- | -- | -- | -- | -- | |
| **CB-4C** | 4/4/2019 | -- | **220,000** | **76,000** | **14,000** | **120,000** | **41,000** | **180,000** | <500 | -- | -- | **5,800** | -- | -- | -- | -- | -- | -- | -- | |
| **CB-5A** | 4/5/2019 | -- | **190,000** | **17,000** | **1,100** | **12,000** | **3,200** | **13,000** | <250 | -- | -- | **210 J** | -- | -- | -- | -- | -- | -- | -- | |
| **CB-6A** | 4/8/2019 | -- | **210,000** | **33,000** | **12,000** | **48,000** | **6,300** | **29,000** | <250 | -- | -- | **480 J** | -- | -- | -- | -- | -- | -- | -- | |
| | | | | | | | | | | | | | | | | | | | -- | |
| **AS-1** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-1** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-1** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |

**Table 2. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Road, Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | TPH-g (µg/L) | TPH-d w/ Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2 DCA | EDB | Naphthalene (µg/L) | Carbon dioxide (µg/L) | Nitrate Nitrogen (µg/L) | Sulfate (µg/L) | Alkalinity to pH 4.5 (µg/L) | Alkalinity to pH 8.3 (µg/L) | Ferrous Iron (µg/L) | Kerosene (µg/L) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **AS-2** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-2** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-2** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-3** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-3** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-3** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-4** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-4** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-4** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-5** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-5** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-5** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-6** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-6** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-6** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-7** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-7** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-7** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-8** | 1/31/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-8** | 8/18/2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **AS-8** | 2/7/2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **P-1** | 3/22/1996 | -- | **320,000** | -- | **7,700** | **52,000** | **7,300** | **31,000** | <5,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **P-2** | 3/22/1996 | -- | **800,000** | -- | **13,000** | **72,000** | **15,000** | **76,000** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **P-3** | 3/22/1996 | -- | **69,000** | -- | **460** | **9,500** | **2,000** | **9,000** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **P-4** | 3/26/1996 | -- | **12,000** | -- | **6,900** | **16,000** | **2,700** | **11,000** | <2,500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **P-5** | 3/26/1996 | -- | **1,900** | -- | **470** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **P-6** | 3/26/1996 | -- | **2,100** | -- | **530** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **P-7** | 3/22/1996 | -- | **160,000** | -- | **8,400** | **28,000** | **3,200** | **16,000** | <2,500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **P-8** | 3/22/1996 | -- | **58** | -- | <0.5 | **4.1** | **0.55** | **2.9** | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **P-9** | 3/26/1996 | -- | <50 | -- | <0.5 | -- | -- | -- | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| **B-1** | 3/22/1996 | -- | **2,600,000** | <10,000 | **13,000** | **41,000** | **22,000** | **140,000** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <500 | |
| **B-3** | 3/22/1996 | -- | **43,000** | <10,000 | **340** | **4,200** | **1,100** | **2,500** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <500 | |
| **CPT-1** | 10/6/2004 | 12 | **97,000** | -- | **5,200** | **21,000** | **3,700** | **16,000** | <13 | **64** | **60** | -- | -- | -- | -- | -- | -- | -- | -- | |
| **CPT-1** | 10/6/2004 | 30 | **130** | **440** | **0.6** | **4** | **1** | **7** | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | |
| **CPT-1** | 10/6/2004 | 43 | **54** | **370** | **1** | **14** | **6** | **26** | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | |
| **CPT-1** | 10/6/2004 | 58 | **370** | **3,100** | **3** | **20** | **6** | **24** | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | |
| **CPT-2** | 10/7/2004 | 16 | <50 | **1,200** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | |
| **CPT-2** | 10/7/2004 | 32 | <50 | **450** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | |
| **CPT-2** | 10/7/2004 | 43 | <50 | **500** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | |
| **CPT-2** | 10/7/2004 | 60 | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | |
| **CPT-3** | 10/12/2004 | 32 | **270** | **770** | **4** | **28** | **13** | **40** | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | |

**Table 2. Groundwater Analytical Results**
**Former Signal Oil Service Station No. 206145**
**800 Center Road, Oakland, California**

| Well ID | Sample Date | Sample depth (ft bgs) | TPH-g (µg/L) | TPH-d w/ Si Gel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | 1,2 DCA | EDB | Naphthalene (µg/L) | Carbon dioxide (µg/L) | Nitrate Nitrogen (µg/L) | Sulfate (µg/L) | Alkalinity to pH 4.5 (µg/L) | Alkalinity to pH 8.3 (µg/L) | Ferrous Iron (µg/L) | Kerosene (µg/L) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CPT-3** | 10/12/2004 | 43 | **130** | **370** | **1** | **11** | **4** | **13** | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | |
| **CPT-3** | 10/12/2004 | 57 | **12,000** | **3,800** | **160** | **1,300** | **780** | **3,200** | <1 | <1 | **6** | -- | -- | -- | -- | -- | -- | -- | -- | |
| **CPT-4** | 10/8/2004 | 30 | **310** | **620** | **19** | **91** | **130** | **440** | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | |
| **CPT-4** | 10/8/2004 | 43 | **92** | **380** | <0.5 | **6** | **2** | **8** | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | |
| **CPT-4** | 10/8/2004 | 60 | <50 | **1,900** | <0.5 | **2** | **1** | **5** | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | |
| **CPT-4** | 10/8/2004 | 72 | <50 | **2,400** | <0.5 | **2** | **0.9** | **4** | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | |
| **CPT-5** | 10/11/2004 | 31 | **2,600** | **1,300** | **120** | **590** | **120** | **440** | <0.5 | **11** | **3** | -- | -- | -- | -- | -- | -- | -- | -- | |
| **CPT-5** | 10/11/2004 | 45 | **6,600** | **2,400** | **120** | **1,400** | **440** | **2,000** | <1 | **7** | **8** | -- | -- | -- | -- | -- | -- | -- | -- | |
| **CPT-5** | 10/11/2004 | 58 | **19,000** | -- | **220** | **2,100** | **540** | **2,500** | <3 | **18** | **18** | -- | -- | -- | -- | -- | -- | -- | -- | |
| **C-2** | 11/1/2004 | | <50 | **750** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | |
| **C-5** | 11/2/2004 | | <50 | **74** | <0.5 | **0.5** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | |

**Notes:**

ID = Identification
TOC = Top of casing
DTW = Depth to groundwater
LNAPL = Light Non-Aqueous Phase Liq
GW Elev = Groundwater elevation
ft bTOC = Feet below top of casing
ft = Feet
gal = Gallons
µg/L = Micrograms per liter

TPH-g = Total petroleum hydrocarbons, gasoline range (C6-C12) by LUFT GC according to United States Environmental Protection Agency (USEPA) Method 8015B

TPH-d w/Si Gel = total petroleum hydrocarbons as diesel (C10-C28) with silica gel cleanup by LUFT GC according to USEPA Method 8015B

Analytes analyzed by USEPA Method 8260B:
Benzene, toluene, ethylbenzene, and total xylenes (collectively BTEX)
MTBE = Methyl tertiary-butyl ether
1,2 DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromomethane

**Table 3. Soil Vapor Analytical ResultsF**
**ormer Chevron Service Station 2061458**
**00 Center Road, Oakland, California**

| Sample ID | Sample Date | Probe Depth Interval | TPHg | TPHg (by TO-3) | TPHg (by TO-15) | Benzene | Toluene | Ethylbenzene | Xylenes[1] | MTBE | Naphthalene | Oxygen | Nitrogen | Carbon Dioxide | Methane | Helium | Isobutane[2] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (fbg) | | (Concentrations reported in µg/L) | | | | | | | | (% Volume) | | | | | (ppbv) |
| **ESL Table E-2 - Shallow Soil Gas** | | | **10,000** | **10,000** | **10,000** | **84** | **63,000** | **980** | **21,000** | **9,400** | **72** | **--** | **--** | **--** | **--** | **--** | **--** |
| *1997 Temporary Soil Vapor Probes* | | | | | | | | | | | | | | | | | |
| SV-1 | 5/30/1997 | 3 | **360,000** | -- | -- | **170** | 1,600 | 750 | 5,300 | -- | -- | 20.97 | -- | 1.00 | -- | -- | -- |
| SV-1 | 5/30/1997 | 6 | **50,000,000** | -- | -- | **65,000** | **320,000** | **84,000** | **430,000** | -- | -- | 18.97 | -- | 0.07 | -- | -- | -- |
| SV-1 | 5/30/1997 | 9 | **24,000,000** | -- | -- | **32,000** | **730,000** | **340,000** | **1,400,000** | -- | -- | 20.97 | -- | 6.00 | -- | -- | -- |
| SV-2 | 5/30/1997 | 3 | **11,000** | -- | -- | ND | 110 | 110 | 530 | -- | -- | 15.97 | -- | 2.2 | -- | -- | -- |
| SV-2 | 5/30/1997 | 6 | **27,000,000** | -- | -- | **22,000** | **100,000** | **10,000** | **66,000** | -- | -- | 18.97 | -- | 0.16 | -- | -- | -- |
| SV-2 | 5/30/1997 | 9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 20.97 | -- | -- | -- | -- | -- |
| SV-3 | 5/30/1997 | 3 | **180,000** | -- | -- | ND | 540 | **1,500** | 12,000 | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-3 | 5/30/1997 | 6 | **83,000** | -- | -- | ND | 420 | 840 | 5,700 | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-3 | 5/30/1997 | 9 | **400,000** | -- | -- | **6,500** | 54,000 | **30,000** | **44,000** | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-4 | 5/30/1997 | 3 | **71,000** | -- | -- | ND | 34 | 170 | 480 | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-4 | 5/30/1997 | 6 | **270,000** | -- | -- | ND | 80 | 480 | 1,400 | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-4 | 5/30/1997 | 9 | **5,400,000** | -- | -- | **17,000** | **150,000** | **36,000** | **160,000** | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-5 | 5/30/1997 | 3 | 8,000 | -- | -- | ND | 15 | 9 | 710 | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-5 | 5/30/1997 | 6 | **660,00** | -- | -- | **840** | 6,100 | 790 | 3,300 | -- | -- | -- | -- | -- | -- | -- | -- |
| SV-5 | 5/30/1997 | 9 | **1,100,000** | -- | -- | **11,000** | **84,000** | **24,000** | **110,000** | -- | -- | -- | -- | -- | -- | -- | -- |
| *Permanent Soil Vapor Probes* | | | | | | | | | | | | | | | | | |
| VP-1 | 11/6/2007 | 5.0-5.5 | -- | 1,400 | -- | <3.8 | 16 | <5.2 | <5.2 | <17 | <25 | 10 | -- | <0.024 | <0.00024 | -- | 6.6 |
| VP-1 | LAB DUPLICATE | | -- | -- | -- | <3.8 | 14 | <5.2 | <5.2 | <17 | <25 | -- | -- | -- | -- | -- | 6.5 |
| VP-1 | 10/3/2008 | 5.0-5.5 | -- | -- | <97 | <3.8 | <4.5 | <5.2 | <5.2 | <4.3 | <25 | 14 | -- | 0.027 | 0.00027 | <0.12 | -- |
| VP-1 | 5/10/2011 | 5.0-5.5 | -- | -- | **57,000,000** | **9,200** | <3,200 | <3,700 | <3,700 | <3,100 | <18,000 | 8.7 | 88 | 1.6 | 0.0059 | <0.12 | -- |
| VP-1 | 8/23/2011 | 5.0-5.5 | -- | -- | **2,500,000** | <400 | <470 | <550 | <550 | <450 | <2,600 | 9.4 | 89 | 1.5 | 0.0024 | <0.13 | -- |
| VP-1 | 11/2/2011 | 5.0-5.5 | -- | -- | 5,700 | 2 | <3.0 | <3.5 | <3.5 | <2.9 | <17 | 8.6 | 91 | 0.52 | 0.00054 | -- | -- |
| VP-1 | 2/21/2012 | 5.0-5.5 | -- | -- | <200 | <3.1 | <3.6 | <4.2 | <4.2 | <3.5 | <20 | 11 | 88 | 0.55 | <0.00019 | <0.097 | -- |
| VP-1 | 5/16/2012 | 5.0-5.5 | -- | -- | 490 | <2.6 | <3.0 | <3.5 | <3.5 | <2.9 | <17 | 13 | 86 | 0.98 | <0.00016 | <0.080 | -- |
| VP-2 | 11/6/2007 | 5.0-5.5 | -- | <250 | -- | <3.9 | <4.6 | <5.2 | <5.2 | <17 | <25 | 10 | -- | 1 | <0.00024 | -- | ND |
| VP-2 | LAB DUPLICATE | | -- | <250 | -- | -- | -- | -- | -- | -- | | 10 | -- | 1 | <0.00024 | -- | -- |
| VP-2 | 10/3/2008 | 5.0-5.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| VP-2 | 5/10/2011 | 5.0-5.5 | -- | -- | 6,500 | <4.1 | 5.1 | <5.6 | <5.6 | <4.7 | <27 | 15 | 84 | 1.4 | 0.00039 | <0.13 | -- |
| VP-2 DUP | 5/10/2011 | 5.0-5.5 | -- | -- | **13,000** | <4.1 | 7.5 | <5.6 | <5.6 | <4.7 | <27 | 15 | 84 | 1 | 0.00037 | <0.13 | -- |
| VP-2 | 8/23/2011 | 5.0-5.5 | -- | -- | <260 | <4.0 | <4.7 | <5.5 | <5.5 | <4.5 | <26 | 14 | 84 | 2 | <0.00025 | <0.13 | -- |
| VP-2 | 11/2/2011 | 5.0-5.5 | -- | -- | <160 | <2.6 | <3.0 | <3.5 | <3.5 | <2.9 | <17 | 12 | 86 | 2 | -- | -- | -- |
| VP-2 | 2/21/2012 | 5.0-5.5 | -- | -- | <170 | <2.7 | <3.2 | <3.6 | <3.6 | <3.0 | <18 | 14 | 85 | 1 | <0.00017 | <0.084 | -- |
| VP-2 DUP | 2/21/2012 | 5.0-5.5 | -- | -- | <170 | <2.7 | <3.2 | <3.6 | <3.6 | <3.0 | <18 | 15 | 84 | 1 | <0.00017 | <0.084 | -- |
| VP-2 | 5/16/2012 | 5.0-5.5 | -- | -- | <170 | <2.6 | <3.1 | <3.6 | <3.6 | <3.0 | <17 | 16 | 83 | 1 | <0.00016 | <0.082 | -- |
| VP-2 DUP | 5/16/2012 | 5.0-5.5 | -- | -- | <170 | <2.6 | <3.1 | <3.5 | <3.5 | <2.9 | <17 | 16 | 83 | 1 | <0.00016 | <0.082 | -- |
| VP-3 | 11/6/2207 | 5.0-5.5 | -- | <240 | -- | <3.7 | <4.4 | <5.0 | <5.0 | <17 | <24 | 16 | -- | 2 | <0.00023 | -- | ND |
| VP-3 | 10/3/2008 | 5.0-5.5 | -- | -- | <92 | <3.6 | <4.2 | <4.9 | <4.9 | <4.0 | <23 | 16 | -- | 2 | <0.00022 | <0.11 | -- |
| VP-3 | LAB DUPLICATE | | -- | -- | -- | -- | -- | -- | | -- | -- | 16 | -- | 2.4 | <0.00022 | <0.11 | -- |
| VP-3 | 5/10/2011 | 5.0-5.5 | -- | -- | **22,000,000** | **10,000** | 21,000 | **4,200** | **60,000** | <1,600 | <9,000 | 14 | 82 | 4 | 0.0054 | <0.13 | -- |
| VP-3 | 8/23/2011 | 5.0-5.5 | -- | -- | 300 | <3.9 | 4.8 | <5.2 | 15 | <4.4 | <25 | 16 | 80 | 3.6 | <0.00024 | <0.12 | -- |
| VP-3 DUP | 8/23/2011 | 5.0-5.5 | -- | -- | <250 | <3.9 | <4.6 | <5.2 | 15 | <4.4 | <25 | 16 | 80 | 3.5 | <0.00024 | <0.12 | -- |
| VP-3 | 11/2/2011 | 5.0-5.5 | -- | -- | 860 | <2.6 | 4.8 | <3.5 | 30 | <2.9 | <17 | 17 | 79 | 3.6 | -- | -- | -- |
| VP-3 | 2/21/2012 | 5.0-5.5 | -- | -- | <160 | <2.6 | 3.6 | <3.5 | 9 | <2.9 | <17 | 17 | 80 | 3.2 | <0.00016 | <0.080 | -- |
| VP-3 | 5/16/2012 | 5.0-5.5 | -- | -- | 780 | <2.6 | 4.0 | <3.6 | 20 | <3.0 | <17 | 17 | 80 | 3.4 | <0.00017 | <0.083 | -- |

**Table 3. Soil Vapor Analytical ResultsF**
**ormer Chevron Service Station 2061458**
**00 Center Road, Oakland, California**

| Sample ID | Sample Date | Probe Depth Interval (fbg) | TPHg | TPHg (by TO-3) | TPHg (by TO-15) | Benzene | Toluene | Ethylbenzene | Xylenes[1] | MTBE | Naphthalene | Oxygen | Nitrogen | Carbon Dioxide | Methane | Helium | Isobutane[2] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (Concentrations reported in µg/L) | | | | | | | | | (% Volume) | | | | | (ppbv) |
| ESL Table E-2 - Shallow Soil Gas | | | 10,000 | 10,000 | 10,000 | 84 | 63,000 | 980 | 21,000 | 9,400 | 72 | -- | -- | -- | -- | -- | -- |
| VP-4 | 11/6/2007 | 5.0-5.5 | -- | 280 | -- | <3.9 | <4.6 | <5.2 | <5.2 | <17 | <25 | 10 | -- | 4 | <0.00024 | -- | ND |
| VP-4 | 10/3/2008 | 5.0-5.5 | -- | -- | 390 | <4.1 | <4.9 | <5.6 | <5.6 | <4.6 | <27 | 11 | -- | 4.8 | 0.00028 | <0.13 | -- |
| VP-4 DUP | 10/3/2008 | 5.0-5.5 | -- | -- | 240 | <4.2 | <5.0 | <5.7 | <5.7 | <4.8 | <28 | 11 | -- | 5 | 0.00028 | <0.13 | -- |
| VP-4 | 5/10/2011 | 5.0-5.5 | -- | -- | **12,000,000** | **2,600** | 3,400 | 160 | 13,000 | <36 | <210 | 7 | 86 | 7 | 0.0034 | <0.12 | -- |
| VP-4 | 8/23/2011 | 5.0-5.5 | -- | -- | 3,300 | 14 | 160 | <5.2 | 89 | <4.4 | <25 | 14 | 81 | 5.2 | 0.00031 | <0.12 | -- |
| VP-4 | 11/2/2011 | 5.0-5.5 | -- | -- | 650 | <2.5 | 23 | <3.4 | 16 | <2.8 | <16 | 13 | 82 | 4.4 | 0.0002 | 0.09 | -- |
| VP-4 DUP | 11/2/2011 | 5.0-5.5 | -- | -- | 780 | 2.7 | 27 | <3.4 | 20 | <2.8 | <16 | 13 | 82 | 4.5 | 0.0002 | -- | -- |
| VP-4 | 2/21/2012 | 5.0-5.5 | -- | -- | <160 | <2.5 | 22 | <3.4 | 17 | <2.8 | <16 | 17 | 80 | 3 | <0.00016 | <0.078 | -- |
| VP-4 | 5/16/2012 | 5.0-5.5 | -- | -- | 1,400 | 3.1 | 46 | <3.2 | 36 | <2.7 | <16 | 17 | 79 | 4 | 0.00017 | <0.075 | -- |
| VP-5 | 11/6/2007 | 5.0-5.5 | -- | **120,000*** | **2,100,000** | <760 | <900 | <1,000 | <1,000 | <3,400 | <5,000 | 16 | -- | 4 | <0.00024 | -- | 13,000 |
| VP-5 | 10/3/2008 | 5.0-5.5 | -- | -- | **57,000** | <86 | <100 | <120 | <120 | <97 | <560 | 17 | -- | 4 | <0.00024 | <0.12 | -- |
| VP-5 | LAB DUPLICATE | | -- | -- | **65,000** | <15 | <18 | <21 | <21 | <17 | <100 | -- | -- | -- | -- | -- | -- |
| VP-5 | 5/10/2011[3] | 5.0-5.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| VP-5 | 8/23/2011 | 5.0-5.5 | -- | -- | **150,000** | 110 | 870 | 9.1 | 86 | 4 | <25 | 19 | 78 | 3 | <0.00024 | <0.12 | -- |
| VP-5 | 11/2/2011 | 5.0-5.5 | -- | -- | 1,500 | <2.6 | 23 | <3.6 | 9 | <3.0 | <17 | 19 | 78 | 3 | -- | -- | -- |
| VP-5 | 2/21/2012 | 5.0-5.5 | -- | -- | <170 | <2.6 | 12 | <3.6 | 5 | <3.0 | <17 | 19 | 78 | 3 | <0.00016 | <0.082 | -- |
| VP-5 | 5/16/2012 | 5.0-5.5 | -- | -- | 1,700 | 7.3 | 24 | 4.1 | 16 | <2.8 | <16 | 18 | 78 | 4 | <0.00015 | <0.076 | -- |
| VP-6 | 11/6/2007 | 5.0-5.5 | -- | <260 | -- | <4.0 | <4.8 | <5.5 | <5.5 | <18 | <26 | 20 | -- | 1 | <0.00025 | -- | ND |
| VP-6 DUP | 11/6/2007 | 5.0-5.5 | -- | <250 | -- | <3.9 | <4.6 | <5.4 | <5.4 | <18 | <26 | 20 | -- | 1 | <0.00025 | -- | ND |
| VP-6 | 10/3/2008 | 5.0-5.5 | -- | -- | <97 | <3.8 | <4.5 | <5.2 | <5.2 | <4.3 | <25 | 20 | -- | 1 | <0.00024 | <0.12 | -- |
| VP-6 | 5/10/2011 | 5.0-5.5 | -- | -- | **2,200,000** | <190 | <230 | <260 | 380 | <220 | <1,200 | 19 | 79 | 2 | <0.00024 | <0.12 | -- |
| VP-6 | 8/23/2011 | 5.0-5.5 | -- | -- | 980 | <4.0 | <4.7 | <5.5 | <5.5 | <4.5 | <26 | 19 | 79 | 2 | <0.00025 | <0.13 | -- |
| VP-6 | 11/2/2011 | 5.0-5.5 | -- | -- | 450 | <2.6 | <3.1 | <3.6 | <3.6 | <3.0 | <17 | 20 | 78 | 2 | -- | -- | -- |
| VP-6 | 2/21/2012 | 5.0-5.5 | -- | -- | <160 | <2.5 | <3.0 | <3.4 | <3.4 | <2.8 | <16 | 21 | 78 | 1 | <0.00016 | <0.079 | -- |
| VP-6 | 5/16/2012 | 5.0-5.5 | -- | -- | 350 | <2.5 | <3.0 | <3.4 | <3.4 | <2.8 | <16 | 19 | 79 | 2 | <0.00016 | <0.079 | -- |

**Notes:**
This table's data are from CRA's 2012 Second Quarter Soil Vapor Sampling Report
USEPA = United States Environmental Protection Agency
TPHg = Total petroleum hydrocarbons as gasoline by USEPA Method TO-3 for samples collected 11/06/07
TPHg = Total petroleum hydrocarbons as gasoline by USEPA Method TO-15 for samples starting 10/03/08
Benzene, toluene, ethybenzene, xylenes (BTEX), methyl-tertiary butyl ether (MTBE), and naphthalene by USEPA method TO-15
Oxygen, nitrogen, carbon dioxide, methane, and helium by ASTM D-1946
fbg = feet below grade
ppbv = part per billion volume
< = below laboratory detection limit
ND = not detected above laboratory detection limit; detection limit not reported by laboratory
-- = not analyzed
ESL = Environmental Screening Levels from Table E-2 of Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final November 2007 (Updated May 2008) prepared by the San Francisco Regional Water Quality Control Board
**Bold** = Result value exceeds ESL
1 = values for highest value of xylenes detected
2 = constituent used as a leak detector for samples collected 11/06/07 determined as Tentatively Identified Compound (TIC) by Modified EPA Method TO-15. Match quality was below 50%.
3 = water in probe tubing; sample couldn't be collected
* = TPHg samples collected on 10/03/08 from VP-5 were analyzed by EPA Method TO-15 and EPA Method TO-3 for comparison purposes. Results were within laboratory limits.

# FIGURES

REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., OAKLAND WEST, CALIFORNIA, 2015.

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.

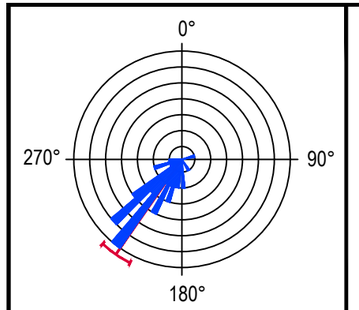
SITE NO. 206145
800 CENTER STREET
OAKLAND, CALIFORNIA

**SITE LOCATION MAP**

ARCADIS Design & Consultancy for natural and built assets

FIGURE
**1**

CITY: SAN RAFAEL, CA DIV/GROUP: ENVCAD DB: J. HARRIS
C:\Users\jharris\OneDrive - ARCADIS\BIM 360 Docs\CHEVRON CORPORATION\NCA_206145\2018\01-DWG\206145 - Site Location Map.dwg LAYOUT: 1 SAVED: 4/2/2018 9:29 AM ACADVER: 21.0S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 4/2/2018 9:36 AM BY: HARRIS, JESS
XREFS: IMAGES: PROJECTNAME: ---
Oakland West 2015.jpg




Historical Groundwater Flow Direction
Shallow Wells (1999 - 2014, CRA)

FENCE
SS-1
4-67-17
SS-2
SS-3
DRIVE
GATE
VP-2
SS-4
FORMER HYDRAULIC CYLINDER LIFT
MW-5
FORMER 1,000-GAL. GASOLINE UST (DISCOVERED 9/99, REMOVED 4/12/01)
CENTER STREET
MW-9
SS-7
4-67-16
MW-10
MW-11
SS-5
VP-6
MW-7
FORMER BUILDING
AS-1
VP-4
MW-12
FORMER 550-GAL. UNDERGROUND WASTE OIL TANK (REMOVED 4/12/01)
CB-7
VP-1
FORMER SUMPS
SS-6
4-67-15
MW-1A
AS-2
CB-6
SS-8
CB-5
MW-14
CB-3
SS-12
MW-17
SS-9
CB-2
CB-4
MW-16
AS-5
MW-13
AS-3
MW-15
SS-11
AS-4
VP-3
AS-8
CB-1
VP-5
SS-10
MW-6
M.H.
MW-2
MW-3
AS-7
AS-6
FORMER UST COMPLEX (REMOVED 1973)
FORMER DISPENSER ISLAND
GATE
DRIVE
DRIVE
MW-4
CONCRETE WALK
FENCE
8th STREET
MW-8
NEAREST STORM DRAIN INLET IS LOCATED AT NORTH CORNER OF 8TH STREET AND MANDELA PARKWAY.

## LEGEND

- PARCEL OWNED BY CHEVRON
- 4-67-16 ASSESSOR'S PARCEL NUMBER
- MW-3 SHALLOW MONITORING WELL
- MW-9 INTERMEDIATE MONITORING WELL
- MW-14 DEEP MONITORING WELL
- MW-1 DESTROYED WELL
- VP-3 VAPOR PROBE
- AS-1 AIR SPARGING WELL
- SS-1 SURFICIAL SOIL SAMPLE
- CPT-1 CPT BORING
- C-1 SOIL BORING
- SW-7 SOIL SAMPLE - GETTLER-RYAN
- G-28 GEOPROBE BORING - GETTLER-RYAN
- B-1 SOIL BORING - SUBSURFACE CONSULTANTS, 1989
- SB-1 SOIL BORING - GROUNDWATER TECHNOLOGY, 1995
- SV-1 SOIL VAPOR PROBE - PACIFIC ENVIRONMENTAL GROUP, 1997
- P-1 GEOPROBE SOIL BORING - PACIFIC ENVIRONMENTAL GROUP, 1997
- SOIL BORING - CRA, 2014
- W WATER LINE = 4-6" Ø
- SAN SANITARY SEWER LINE = 10" Ø
- E ELECTRICAL LINE = 3-5" Ø, DEPTH 2'-4'
- G NATURAL GAS LINE = 8" Ø, DEPTH 2'-3'
- T COMMUNICATION LINE
- M.H. MANHOLE
- 2001 EXCAVATION
- 2002 OVER-EXCAVATION TO 12 FEET BELOW GRADE
- 2002 OVER-EXCAVATION TO 14 FEET BELOW GRADE

NOTES:

1. BASE MAP PROVIDED BY CRA, DATED 1/27/2017.
2. PARCEL BOUNDARIES DOWNLOADED FROM ALAMEDA COUNTY OPEN DATA PORTAL: www.data.acgov.org

0 20' 40'
GRAPHIC SCALE

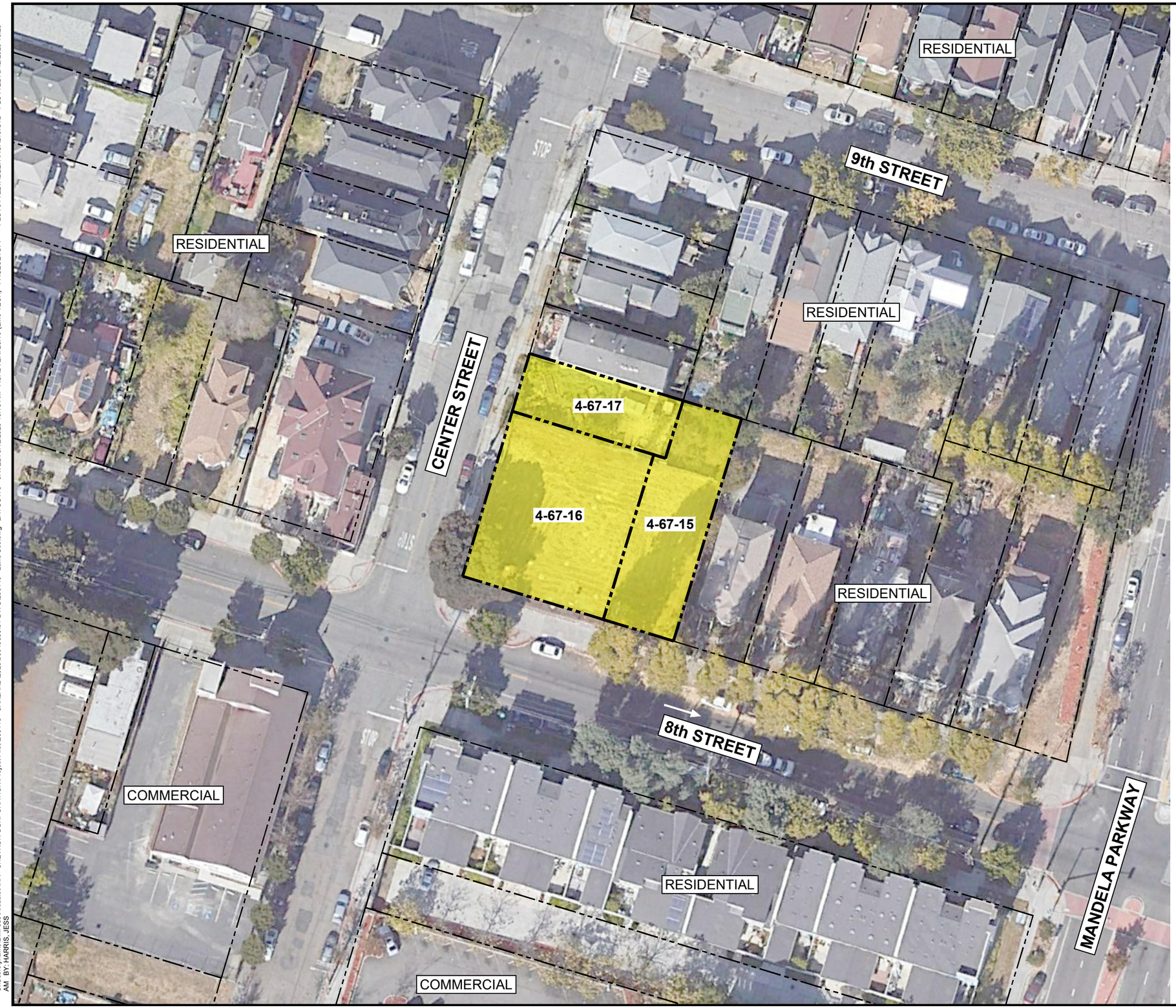
SITE NO. 206145
800 CENTER STREET
OAKLAND, CALIFORNIA

# SITE PLAN

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

CITY: SAN RAFAEL, CA DIV/GROUP: ENV/CAD DB: J. HARRIS
C:\Users\jlharris\BIM 360\Arcadis\ANA - CHEVRON CORPORATION\Project Files\206145 - OAKLAND\2020\30045659\01-DWG\206145 - Site Plan_comprehensive.dwg LAYOUT: 2 SAVED: 8/21/2020 10:41 AM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 8/25/2020 2:47 PM BY: HARRIS, JESS




LEGEND

PARCEL BOUNDARY

PARCEL OWNED BY CHEVRON

**4-67-16** ASSESSOR'S PARCEL NUMBER

NOTES:

1. BASE MAP PROVIDED BY CRA, DATED 1/27/2017.
2. PARCEL BOUNDARIES DOWNLOADED FROM ALAMEDA COUNTY OPEN DATA PORTAL: www.data.acgov.org
3. AERIAL IMAGE: GOOGLE EARTH PRO

0 50' 100'

GRAPHIC SCALE

SITE NO. 206145
800 CENTER STREET
OAKLAND, CALIFORNIA

**LAND USE**

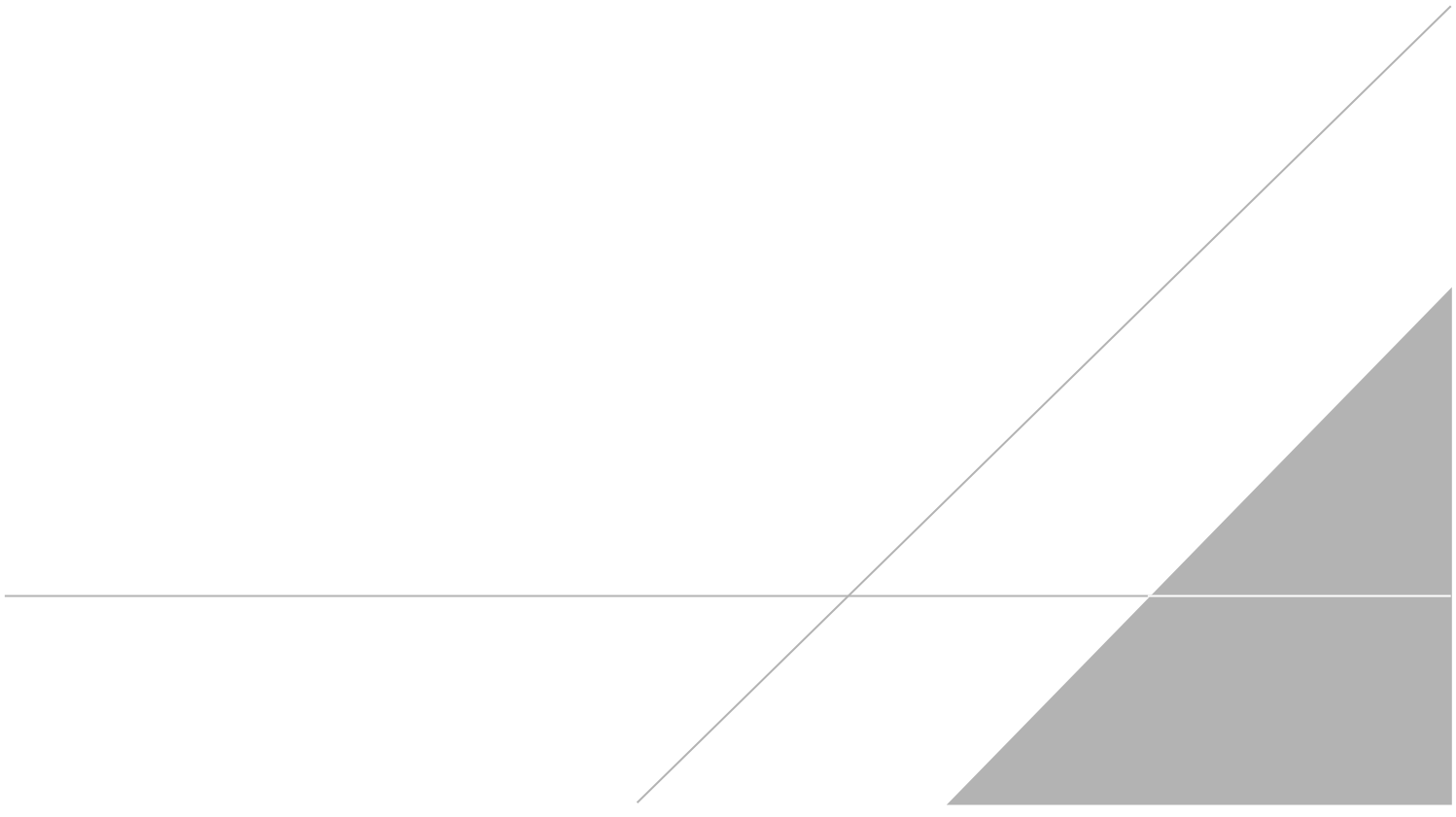
ARCADIS Design & Consultancy for natural and built assets

FIGURE **3**

CITY: SAN RAFAEL, CA DIV/GROUP: ENVCAD DB: J. HARRIS
C:\Users\jharris\BIM 360\Arcadis\ANA - CHEVRON CORPORATION\Project Files\206145 - OAKLAND\2020\300456590\1-DWG\206145 - Land Use.dwg LAYOUT: 3 SAVED: 8/12/2020 10:18 AM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 8/12/2020 10:20 AM BY: HARRIS, JESS

# APPENDIX A

## Agreement and Acknowledgment Statement



## APPENDIX A

## AGREEMENT AND ACKNOWLEDGMENT STATEMENT

Soil and Groundwater Management Plan Agreement

All project personnel and subcontractors are required to sign the following agreement prior to conducting work at the site.

1. I have read and fully understand the plan and my individual responsibilities.

2. I agree to abide by the provisions of the plan.

| | |
|---|---|
| Name | Signature |
| Company | Date |
| Name | Signature |
| Company | Date |
| Name | Signature |
| Company | Date |
| Name | Signature |
| Company | Date |

(Add additional sheets if necessary)

# APPENDIX B

## ACDEH – Soil Import/Export Characterization Requirements (2019)

| ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH LOCAL OVERSIGHT PROGRAM | **Revision Date:** August 9, 2019 |
|---|---|
| | **ISSUE DATE:** August 1, 2018 |
| | **Previous Revisions:** October 25, 2018 |
| **SUBJECT: Soil Import/Export Characterization Requirements** | |

## INTRODUCTION:

This document has been prepared by Alameda County Department of Environmental Health (ACDEH) for environmental cleanup sites regulated by ACDEH to provide requirements for the characterization of soil to determine its suitability for use at another site. These requirements have been prepared by ACDEH to ensure that unsuitable soil is not imported to environmental cleanup sites or exported from environmental cleanup sites to properties with sensitive land uses. This document is for characterization of soil only and does not address requirements for characterization of other fill material including, but not limited to: crushed rock, pea gravel, recycled concrete, or flowable material.

This document addresses both human health and ecological risk associated with exposure pathways to fill material and identifies fill sources which are unsuitable for use as fill material based on current and historic land use activities. The protocols and criteria presented in this document are intended to be sufficiently conservative to be applicable to all soil fill import sites regardless of land use or other site characteristics. Alternative criteria for soil characterization and suitability may be proposed for consideration by ACDEH via submittal of a site-specific soil import/export management plan and associated supporting technical documents.

This document was prepared using the structure presented in the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) Clean Imported Fill Material Information Advisory (October 2001) and modified to incorporate use of the San Francisco Bay Regional Water Quality Control Boards (Water Board's) Environmental Screening Levels (ESLs), criteria provided to ACDEH by designated Groundwater Basin Managers within Alameda County; and accepted industry practices for soil characterization.

**Section 1** of this document discusses criteria for assessing and identifying potentially suitable fill material sources. **Section 2** discusses the evaluation of the suitability of potential fill material. **Section 3** discusses ACDEH's fill import suitability determination process. **Section 4** describes the conditions and reporting requirements for importing suitable fill material.

## 1. ASSESSMENT OF POTENTIALLY SUITABLE FILL MATERIAL SOURCES

Suitable fill material ("Clean Soil") as defined in this document is soil that will not have an adverse effect on human health or the environment when imported to the receiving site. Clean Soil must consist solely of natural earth material (e.g., soil, clay, silt, sand, gravel, rock) and must have concentrations of naturally occurring chemicals that do not exceed background levels at the receiving site and concentrations of man-made chemicals that do not exceed applicable risk based screening levels for human health risk, ecological risk (aquatic and terrestrial receptors), and concerns for nuisance and gross contamination.

Prior to collecting analytical data to confirm suitability of potential fill material, potential source areas should be screened based on historical land use and material composition. Historic and current land use at, and in the vicinity of, the parcel containing the proposed fill material should be evaluated for environmental impacts to determine the applicable laboratory analysis that should be conducted to characterize the fill material. This assessment consists of the review of historical records and typically includes conducting a phase one environmental site assessment (Phase I ESA) or preliminary environmental assessment (PEA) within six months of the assessment. The assessment should be sufficient to identify Recognized Environmental Conditions (RECs). RECs are typically associated with the

production, use, storage, transport, recycling, or disposal of hazardous material or waste at or in the vicinity of the parcel being evaluated and are used to determine what potential contaminants may be present and therefore should be analyzed for.

Fill material from parcels with the following conditions are not suitable for use as a proposed fill material source without additional evaluation and approval from ACDEH beyond what is required in this guidance:

a. Regulated environmental cleanup sites; or

b. Unaddressed or insufficiently addressed RECs; or

c. Current or historic industrial land uses; or

d. Current or historic unacceptable commercial land uses. Unacceptable commercial land uses are operations that generate revenue through, or that significantly involve:

   i. Manufacturing, repairing, or restoring operations; or

   ii. Providing maintenance services; or

   iii. The use, storage, transport, or disposal of hazardous material or waste.

e. Material containing animal or human waste or debris such as lumber, metal, or refuse.

## 2. EVALUATION OF FILL MATERIAL SUITABILITY

Proposed fill material source areas that are considered potentially suitable based on the initial screening of historic and current land use must be sampled, analyzed, and meet applicable environmental and human health risk levels before a final determination of the suitability of the proposed fill material can be made. Sampling protocols and strategies, and laboratory analyses vary based on conditions at the location being sampled, the type of compounds that are being evaluated, and the volume of fill material. Samples must be collected and analyzed in a manner sufficient to characterize the lateral and vertical extents of the proposed fill material source area. Minimum sampling and analysis requirements to evaluate the suitability of a proposed fill material source area are derived from various regulatory guidance documents, industry best practices, and requirements from designated Groundwater Basin Managers within Alameda County which are described in further detail below.

### 2.1. Minimum Analytical Requirements

Minimum analytical requirements for characterization of potentially suitable fill material proposed for import to a destination (a) outside of the jurisdiction of Zone 7 Water Agency (Zone 7); or (b) within the jurisdiction of Zone 7 are provided in Table 1a and Table 1b, respectively. Sampling and laboratory analysis must be conducted in accordance with the following requirements:

a. All analysis must performed in accordance with the United States Environmental Protection Agency's (USEPA's) SW-864 Compendium;

b. Analysis of samples must be completed and reported by an analytical laboratory accredited by the California State Environmental Laboratory Accreditation Program and the National Environmental Laboratory Accreditation Program;

c. The laboratory reporting limits must not exceed the screening levels adopted by ACDEH as described in Section 2.4 below;

d. The laboratory reporting limits must be reported on a dry-weight basis; and

e. The results of the laboratory analysis must be reported in a standard laboratory data package, including a summary of the quality control and quality assurance sample results and chain of custody documentation.

## 2.2. Minimum Sampling Requirements

Sampling for the characterization of potentially suitable fill material must be conducted under the direct charge of a professional engineer or geologist licensed in the state of California ("Qualified Professional") and in accordance with industry best practices including, but not limited to those discussed in the subsections below.

### 2.2.1. Vapor Forming Compounds

Vapor forming compounds consist of volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) that readily form a vapor when exposed to air. In order to minimize volatilization of VOCs and SVOCs during sample collection, and ensure that analytical results are representative of the proposed fill material, discrete samples must be collected and analyzed in accordance with USEPA Method 5035. Composite sampling is not acceptable for the evaluation of VOCs and SVOCs.

### 2.2.2. Composite Sampling

Composite sampling is acceptable under the following conditions:

a. Analysis is for non-vapor forming chemicals;

b. The composite sample is comprised of roughly equivalent masses of each of the discrete samples;

c. Sufficient mass of discrete samples from each of the composited locations are submitted so as to allow for analysis of the discrete samples; and

d. Each of the discrete samples that comprise the composite sample must be analyzed in the event that the composite sample exceeds the applicable screening level.

### 2.2.3. In Situ Characterization

Pre-excavation (e.g., In Situ) characterization of potentially suitable fill material must meet the minimum requirements provided in Table 2a (for import to a destination outside of the jurisdiction of Zone 7 Water Agency's jurisdiction) and Table 2b (for import to a destination within the Zone 7 Water Agency's jurisdiction). Additional requirements include:

- Characterization of soil lithology in the proposed source area using the Unified Soil Classification System from the ground surface to the total depth of the proposed excavation for the fill material. The characterized soil lithology at each sample location must be presented as a soil boring log and must be reviewed and stamped by a Qualified Professional.
- Collection and analysis of at least one sample from each sample location for every five feet below ground surface that the proposed fill area extends.
- Characterization of layers of proposed fill material that exhibit significantly different geological characteristics or lithologies as separate sources. For example, if soil at a site generally consists of clay from the ground surface to a depth of 3 feet below ground surface with interbedded silts and sands beyond, the clay layer should be characterized and managed as one source and the interbedded silts and sands should be characterized as a second source.
- Use of direct push technology for sample collection and analyses for VOCs and SVOCs. Samples collected for analysis of non-vapor forming compounds may be collected using direct push technology, augers, or from a bucket, sidewall, or base sample from "pot hole" excavations.

### 2.2.4. Stockpile Characterization

The minimum sample quantities for the characterization of potentially suitable fill material that have been excavated and stockpiled are based on the total volume of the stockpiled fill material and are summarized in Table 3. Stockpiles must be generated from the same source area, must be segregated by fill material composition, and be located on the parcel generating the proposed fill material. Samples being analyzed for VOCs and SVOCs must be collected from at least 1 foot below the exposed surface of the stockpile.

## 2.3. Conditions Requiring Additional Sampling and Analysis

In addition to the minimum sampling requirements identified above, the following conditions, if present, require additional sampling and analysis as indicated:

1. **Evidence of Contamination** – Samples must be collected and analyzed from any locations where there is evidence of contamination such as strong odors, staining, observable sheen or free product, stressed vegetation, and/or elevated responses from field screening instruments such as a photoionization detector.
2. **Contaminants Associated with Surface Deposition** – When characterization for contaminants associated with surface deposition (e.g., pesticides, herbicides, fungicides, asbestos, and lead) are required for fill material characterization, representative samples must be collected from surface and near surface soils in accordance with the following:
    - For in situ characterization, one sample should be collected from each of the following intervals from each sample location: 0 to 6 inches below ground surface; 6 inches to 2 feet below ground surface; and 2 feet to 3 feet below ground surface; and
    - For stockpiled fill material, fill material from the surface and near surface (0 to 3 feet below ground surface) must be segregated from other fill material and characterized as a separate potential fill source.
3. **Groundwater and Saturated Soil** – If groundwater or saturated soil is encountered during fill characterization or excavation, the following additional samples must be collected and analyzed:
    - One soil sample per sample location from immediately above the saturated soil (i.e., the capillary fringe); and
    - One groundwater sample from each soil boring, excavation, or dewatering well in which groundwater is encountered.
4. **Dewatering** – If dewatering is conducted to support excavation of potentially suitable fill material, characterization of the fill material must be conducted after dewatering has been implemented and soil is no longer saturated.

## 2.4. Screening Levels

To be considered suitable fill material, analytical results of the fill characterization sampling must be less than applicable environmental and human health risk based screening levels.

### 2.4.1. Default Screening Levels

ACDEH has adopted the Regional Water Board's Tier 1 Environmental Screening Levels (ESLs) dated January 2019 (Revison 2) as default screening levels for all constituents with the following exception:

- **Arsenic**: the screening level for arsenic adopted by ACDEH is 11.00 milligrams of arsenic per kilogram of sample. This concentration is based on the upper estimate (99$^{th}$ percentile) for regional background levels of arsenic in the urbanized San Francisco bay region[3].

The use of Tier 1 ESLs as a default screening level is applicable to all sites regardless of land use or other site characteristics.

### 2.4.2. Alternative Screening Levels

In the event that fill characterization fails the default screening levels, alternative screening levels may be proposed for consideration by ACDEH via submittal of a site-specific soil import/export management plan. The soil import management plan must include a site-specific risk assessment for the receiving location and associated supporting technical documents.

The use of hazardous waste characteristic of toxicity levels (California Code of Regulations Title 22 Section 66261.24) as a screening level to evaluate the suitability of the import of soils is unacceptable for all sites except for appropriately designed and permitted treatment, storage, disposal, or recycling facilities.

## 3. ACDEH FILL MATERIAL IMPORT SUITABILITY DETERMINATION PROCESS

To obtain a determination from ACDEH that a proposed fill material is suitable, ACDEH requires submittal of a technical report (the "Fill Material Characterization Report") documenting the characterization of the proposed fill material. This technical report must contain, at a minimum, the following elements:

1. A cover letter from the owner of the proposed fill source material with the following statement: "I have read and acknowledge the content, recommendations, and/or conclusions contained in the attached document or report submitted on my behalf to ACDEH". This cover letter must be signed by the owner of the proposed fill source material or a legally authorized representative of the owner of the proposed fill source material;
2. A statement that fill material characterization was conducted under the responsible charge of a Qualified Professional. This statement must be accompanied by the signed and dated seal of the Qualified Professional with responsible charge;
3. Narrative identifying and summarizing the following elements:
    a. The location, assessor's parcel number, and physical address of the proposed fill material source area;
    b. A summary of historical land uses and operations conducted at and in the vicinity of the proposed fill material source area with citations for supporting documentation;
    c. Identification and description of any identified RECs;
    d. A summary of fill material characterization efforts conducted, including a description of sampling and analysis and applicable geology and hydrogeology within the proposed fill material source area;
    e. A summary of the results of analytical sampling; and
    f. Recommendations and conclusions for the suitability of the proposed fill material.
4. Tables summarizing the site characterization analytical data;
5. A completed Proposed Fill Material Source Characterization Summary Form. A copy of this form is provided in pdf in Attachment A. An excel spreadsheet of this form is available on request;
6. Figure(s) depicting the following elements:
    a. Sample locations;

b. Parcel lines and parcel numbers;

c. Lateral extent(s) and depth(s) of the proposed fill material source area(s);

d. Location of any identified RECs;

e. Location of known current and historic infrastructure including structures, roadways, utilities, and any above ground or below ground storage tanks.

7. Boring logs depicting the geology, sample depths, and any encountered groundwater from each sample location;

8. Copies of laboratory analytical data;

9. Copies of supporting environmental documents such as Phase I ESA, PEA, or historic subsurface investigation reports.

The Fill Material Characterization Report and supporting documentation must be submitted to ACDEH via email to deh.loptoxic@acgov.org and uploaded to the State Water Resources Control Board's GeoTracker database. ACDEH will review the Fill Material Characterization Report and will issue a directive letter that (a) determines that the proposed fill material is suitable for import/export; (b) requests additional characterization; or (c) determines that the proposed fill material is not suitable for import/export. ACDEH's determination will include conditions described in Section 4 and may include additional conditions or requirements.

## 4. CONDITIONS OF ACDEH FILL MATERIAL IMPORT SUITABILITY DETERMINATION

As a condition of import/export, a technical report be submitted to ACDEH via email and uploaded to GeoTracker documenting the import/export of soil (the "Soil Import Summary Report"). The report must be uploaded to the GeoTracker information repositories for both the fill material source area and the destination. Please note that for locations importing soil from multiple sources, a single report can be submitted that documents import from multiple sources. For locations in which soil import activities last more than one year, a Soil Import Summary Report must be submitted on a semi-annual basis for the duration of import activities. The Soil Import Summary Report must contain the following elements at a minimum:

1. A cover letter from the owner of the proposed fill source material that states, at a minimum, the following: "I have read and acknowledge the content, recommendations, and/or conclusions contained in the attached document or report submitted on my behalf to ACDEH." This cover letter must be signed by the owner of the proposed fill source material or a legally authorized representative of the owner of the proposed fill source material;

2. The technical report must include a statement that fill material characterization was conducted under the responsible charge of a Qualified Professional. This statement must be accompanied by the signed and dated seal of the Qualified Professional with responsible charge;

3. Summary tables of soil import logs. These logs must include the following information for each delivery of fill material: arrival date, manifest number or truck tag, quantity of fill material delivered, originating facility, and profile number;

4. A figure depicting the location and depth of imported soil. If fill material from multiple sources has been imported, the location and depth of imported soil from each source must be distinguished;

5. Copies of all manifests or other documentation of soil import as an appendix; and

6. Copies of all fill characterization profiles as an appendix.

## 5. CLOSING

If you have questions or comments regarding the requirements presented in this document, please contact ACDEH's Local Oversight Program for Releases of Hazardous Materials at 510-567-6700.

This document was prepared by, or under the direction of, the undersigned.

Dilan Roe

Dilan Roe, P.E. C73703
Chief
Land Water Division

Jonathan Sanders
Senior Hazardous Materials Specialist
Local Oversight and Site Cleanup Program

## ENCLOSURES

**Tables**

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| Table 1a | Minimum Required Analyses for Characterization of Fill Material for Off-Site Reuse for Receiving Facilities Located outside of Zone 7 Water Agency Jurisdictional Boundaries |
| Table 1b | Minimum Required Analyses for Characterization of Fill Material for Off-Site Reuse for Receiving Facilities Located within Zone 7 Water Agency Jurisdictional Boundaries |
| Table 2a | Minimum Required Sample Density and Spacing for In Situ (Pre-excavation) Characterization of Proposed Fill Material Sources for Receiving Facilities Located outside of Zone 7 Water Agency's Jurisdictional Boundaries |
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| Table 3 | Minimum Required Sample Density and Spacing for Stockpile (Post-Excavation) Characterization of Proposed Fill Material Sources |

**Appendices**

| | |
|---|---|
| Appendix A | Proposed Fill Material Source Characterization Summary Form |

## REFERENCES

1. DRAFT Technical Reference Document: Characterization and Reuse of Petroleum Hydrocarbon Impact Soil as Inert Waste. San Francisco Bay Regional Water Quality Control Board. October 2006.
2. Environmental Screening Levels (ESLs) revision 2. San Francisco Bay Regional Water Quality Control Board. January 2019.
3. Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region. Duverge. December 2011
4. Information Advisory: Clean Imported Fill Material. Department of Toxic Substances Control (DTSC). October 2001.
5. Interim Guidance for Sampling Agricultural Properties revision 3. Department of Toxic Substances Control. August 7, 2008.
6. Preliminary Endangerment Assessment Guidance Manual. Department of Toxic Substances Control. January 1994. Revised October 2015.

# TABLES

**Table 1a**
**Minimum Required Analyses for Characterization of Fill Material for Off-Site Reuse**
**for Receiving Facilities Located outside of Zone 7 Water Agency Jurisdictional Boundaries**

| | | Current and Historic Land Use At or Within 500 Feet of Fill Source Area | | | Current and Historic Land Use at Parcel(s) Containing Fill Source Area | | | |
|---|---|---|---|---|---|---|---|---|
| **Laboratory Analysis[1]** | **Analytical Method** | Major Roadway or Freeway | Mining Area or Rock Quarry | Regulated Cleanup Site and RECs | Agricultural | Residential / Acceptable Commercial[2] | Existing Historic Engineered Fill[3] | Industrial / Unacceptable Commercial |
| California Title 22 Metals [4] | USEPA 6010B and/or USEPA 7471A | X (Lead Only) | X | Additional As Required | X | X | X[5] | N/A |
| Asbestos | PLM or OSHA 191 | | X (PLM) | Additional As Required | | X (OSHA 191) | X[5] | N/A |
| pH | USEPA 9045D | | X | Additional As Required | | | X[5] | N/A |
| Pesticides | USEPA 8141A; and USEPA 8151A; and USEPA 8081A or 8080A | | | Additional As Required | X | | X[5] | N/A |
| VOCs | USEPA 8260B with collection by USEPA 5035 | | | Additional As Required | | X | X[5] | N/A |
| SVOCs & PAHs | USEPA 8270C SIM | X (PAHs Only) | | Additional As Required | | X | X[5] | N/A |
| TPH | USEPA 8015M | X[5] | X[5] | Additional As Required | X[5] | X | X[5] | N/A |
| PCBs | USEPA 8082 or 8080A | | | Additional As Required | | X | X[5] | N/A |

Adapted from Department of Toxic Substances Control's Information Advisory Clean Imported Fill Material dated October 2001.

Notes:

(1) All analysis should be performed in accordance with USEPA SW-846 methods. A standard laboratory data package, including a summary of the QA/QC (Quality Assurance/Quality Control) sample results must accompany all analytical reports;
(2) Acceptable commercial land use excludes any commercial use that generates revenue from manufacturing, repair/restoration, maintenance/cleaning, or the storage/transport of hazardous materials;
(3) Existing homogeneous engineered fill. Fill containing waste or debris or that is heterogeneous is not acceptable for off-site reuse.
(4) Include when Hexavalent Chromium analysis required by USEPA method 7199
(5) Analysis required by Alameda County Department of Environmental Health;

Abbreviations:

USEPA -United States Environmental Protection Agency
N/A – Not Acceptable for off-site re-use
PLM – Polarized Light Microscopy
OSHA – Occupational Safety and Health Administration Testing Method Number
SIM – Selected Ion Monitoring
VOCs – Volatile Organic Compounds
SVOCs – Semi-Volatile Organic Compounds
PAHs – Poly Aromatic Hydrocarbons
TPH – Total Petroleum Hydrocarbons as reported for gasoline range, diesel range, and motor oil range
PCBs – Polychlorinated Biphenyls;

**Table 1b**
**Minimum Required Analyses for Characterization of Fill Material for Off-Site Reuse for Receiving Facilities Located within Zone 7 Water Agency Jurisdictional Boundaries**

| | | Current and Historic Land Use At or Within 500 Feet of Fill Source Area | | | Current and Historic Land Use at Parcel(s) Containing Fill Source Area | | | |
|---|---|---|---|---|---|---|---|---|
| **Laboratory Analysis(1)** | **Analytical Method** | Major Roadway or Freeway | Mining Area or Rock Quarry | Regulated Cleanup Site and RECs | Agricultural | Residential / Acceptable Commercial(2) | Existing Historic Engineered Fill(3) | Industrial / Unacceptable Commercial |
| California Title 22 Metals (4) | USEPA 6010B and/or USEPA 7471A | X (Lead Only) | X | Additional As Required | X | X | X(5, 6) | N/A |
| Asbestos | PLM or OSHA 191 | | X (PLM) | Additional As Required | | X (OSHA 191) | X(5, 6) | N/A |
| pH | USEPA 9045D | | X | Additional As Required | | | X(5, 6) | N/A |
| Pesticides | USEPA 8141A; and USEPA 8151A; and USEPA 8081A or 8080A | X(6) | X(6) | Additional As Required | X | X(6) | X(5, 6) | N/A |
| VOCs | USEPA 8260B with collection by USEPA 5035 | | | Additional As Required | | X | X(5, 6) | N/A |
| SVOCs & PAHs | USEPA 8270C SIM | X (PAHs Only) | | Additional As Required | | X | X(5, 6) | N/A |
| TPH | USEPA 8015M | X(5, 6) | X(5, 6) | Additional As Required | X(5, 6) | X | X(5, 6) | N/A |
| PCBs | USEPA 8082 or 8080A | | | Additional As Required | | X | X(5, 6) | N/A |

Adapted from Department of Toxic Substances Control's Information Advisory Clean Imported Fill Material dated October 2001.

Notes:

(1) All analysis should be performed in accordance with USEPA SW-846 methods. A standard laboratory data package, including a summary of the QA/QC (Quality Assurance/Quality Control) sample results must accompany all analytical reports;
(2) Acceptable commercial land use consist excludes any commercial use that generates revenue from manufacturing, repair/restoration, maintenance/cleaning, or the storage/transport of hazardous materials;
(3) Existing homogeneous engineered fill. Fill containing waste or debris or that is heterogeneous is not acceptable for off-site reuse.
(4) Include when Hexavalent Chromium analysis required by USEPA method 7199
(5) Analysis required by Alameda County Department of Environmental Health;
(6) Analysis required by Zone 7 Water Agency

Abbreviations:

USEPA -United States Environmental Protection Agency
N/A – Not Acceptable for off-site re-use
PLM – Polarized Light Microscopy
OSHA – Occupational Safety and Health Administration Testing Method Number
SIM – Selected Ion Monitoring
VOCs – Volatile Organic Compounds
SVOCs – Semi-Volatile Organic Compounds
PAHs – Poly Aromatic Hydrocarbons
TPH – Total Petroleum Hydrocarbons as reported for gasoline range, diesel range, and motor oil range
PCBs – Polychlorinated Biphenyls;

## Table 2a

## Minimum Required Sample Density and Spacing for In Situ (Pre-excavation) Characterization of Proposed Fill Material Sources for Receiving Facilities Located outside of Zone 7 Water Agency's Jurisdictional Boundaries

| Requirements | Size of Contiguous Fill Source | Minimum Lateral Sample Distribution | Minimum Vertical Sample Distribution |
|---|---|---|---|
| (1) Additional lateral sample locations may be required to address identified RECs;<br>(2) Additional samples must be collected from fill material that exhibits signs of potential contamination (*e.g.*, strong odor, staining, presence of sheen or free product, stressed vegetation in the vicinity, elevated response from photo-ionization detector);<br>(3) Fill source area cannot be located on parcel(s) with historic industrial or unacceptable commercial land uses or parcel(s) associated with regulated environmental cleanup sites unless approved by regulatory oversight agency;<br>(4) Samples that are collected, but not planned for analysis must be submitted with the samples planned for analysis under chain of custody to an appropriately certified analytical laboratory. The samples that are not planned for analysis must remain on hold with the laboratory until ACDEH has issued a determination regarding the suitability of fill material for import and released the un-analyzed samples for disposal;<br>(5) When contaminants associated with surface deposition (e.g. pesticides, asbestos, and lead) are required to be evaluated, ACDEH requires the following additional samples be collected from each sample location: One sample from 0 to 6 inches bgs, One sample from 6 inches to 2 feet bgs, One sample from 2 feet to 3 feet bgs. One of these samples must be selected for analysis for each sample location;<br>(6) If groundwater is encountered, ACDEH requires the following additional samples be collected and analyzed: One sample per Sample Location from immediately above the saturated fill material (i.e., the capillary fringe); One groundwater sample must be collected and analyzed for each boring, excavation, or dewatering well in which groundwater is encountered.<br>(7) If dewatering will be conducted to support excavation below an existing water table, ACDEH requires that historically saturated fill material be samples after dewatering is in effect.<br>(8) Composite sampling may or may not be appropriate, depending on the quality and homogeneity of the source/borrow area and compounds of concern. | ≤2.0 acres | **4** sample locations.<br>**AND**<br>Sample Locations must be distributed throughout the fill material source area. | **1** sample collected and analyzed per sample location.<br>**AND**<br>**1** sample collected and analyzed for every 5 feet bgs.<br>**AND**<br>**1** sample collected from each layer exhibiting different geological characteristics or lithology encountered. |
| | ≥2.0 acres<br><4.0 acres | **1** sample location per 0.5 acre.<br>**AND**<br>Sample Locations must be distributed throughout the fill material source area. | **1** sample collected and analyzed per sample location.<br>**AND**<br>**1** sample collected and analyzed for every 5 feet bgs.<br>**AND**<br>**1** sample collected from each layer exhibiting different geological characteristics or lithology encountered. |
| | ≥4 acres<br><10.0 acres | **8** sample locations.<br>**AND**<br>Sample Locations must be distributed throughout the fill material source area. | **1** sample collected and analyzed per sample location.<br>**AND**<br>**1** sample collected and analyzed for every 5 feet bgs.<br>**AND**<br>**1** sample collected from each layer exhibiting different geological characteristics or lithology encountered. |
| | ≥10.0 acres | **8** sample locations.<br>**AND**<br>Sample Locations must be distributed throughout the fill material source area. | **4** sample collected and analyzed per sample location.<br>**AND**<br>**1** sample collected and analyzed for every 5 feet bgs.<br>**AND**<br>**1** sample collected from each layer exhibiting different geological characteristics or lithology encountered. |

## Table 2b

## Minimum Required Sample Density and Spacing for In Situ (Pre-excavation) Characterization of Proposed Fill Material Sources for Receiving Facilities Located within Zone 7 Water Agency's Jurisdictional Boundaries

| Requirements | Size of Contiguous Fill Source | Minimum Lateral Sample Distribution | Minimum Vertical Sample Distribution |
|---|---|---|---|
| (1) Additional lateral sample locations may be required to address identified RECs<br>(2) Additional samples must be collected from fill material that exhibits signs of potential contamination (*e.g.*, strong odor, staining, presence of sheen or free product, stressed vegetation in the vicinity, elevated response from photo-ionization detector)<br>(3) Fill source area cannot be located on parcel(s) with historic industrial or unacceptable commercial land uses or parcel(s) associated with regulated environmental cleanup sites unless approved by regulatory oversight agency;<br>(4) Samples that are collected, but not planned for analysis must be submitted with the samples planned for analysis under chain of custody to an appropriately certified analytical laboratory. The samples that are not planned for analysis must remain on hold with the laboratory until ACDEH has issued a determination regarding the suitability of fill material for import and released the un-analyzed samples for disposal;<br>(5) When contaminants associated with surface deposition (e.g. pesticides, asbestos, and lead) are required to be evaluated, ACDEH requires the following additional samples be collected from each sample location: One sample from 0 to 6 inches bgs; One sample from 6 inches to 2 feet bgs; and One sample from 2 feet to 3 feet bgs. One of these samples must be selected for analysis for each sample location;<br>(6) If groundwater is encountered, ACDEH requires the following additional samples be collected and analyzed: One sample per Sample Location from immediately above the saturated fill material (i.e., the capillary fringe); One groundwater samples must be collected and analyzed for each boring, excavation, or dewatering well in which groundwater is encountered.<br>(7) If dewatering will be conducted to support excavation below an existing water table, ACDEH requires that, historically saturated fill material be samples after dewatering is in effect.<br>(8) Composite sampling may or may not be appropriate, depending on the quality and homogeneity of the fill material and compounds of concern. | ≤2.0 acres | **8** sample locations.<br>**AND**<br>Sample Locations must be distributed throughout the fill material source area. | **1** sample collected and analyzed per sample location.<br>**AND**<br>**1** sample collected and analyzed for every 5 feet bgs.<br>**AND**<br>**1** sample collected from each layer exhibiting different geological characteristics or lithology encountered. |
| | ≥2.0 acres<br><4.0 acres | **1** sample location per 0.25 acre.<br>**AND**<br>Sample Locations must be distributed throughout the fill material source area. | **1** sample collected and analyzed per sample location.<br>**AND**<br>**1** sample collected and analyzed for every 5 feet bgs.<br>**AND**<br>**1** sample collected from each layer exhibiting different geological characteristics or lithology encountered. |
| | ≥4 acres<br><10.0 acres | **16** sample locations.<br>**AND**<br>Sample Locations must be distributed throughout the fill material source area. | **1** sample collected and analyzed per sample location.<br>**AND**<br>**1** sample collected and analyzed for every 5 feet bgs.<br>**AND**<br>**1** sample collected from each layer exhibiting different geological characteristics or lithology encountered. |
| | ≥10.0 acres | **16** sample locations.<br>**AND**<br>Sample Locations must be distributed throughout the fill material source area. | **4** sample collected and analyzed per sample location.<br>**AND**<br>**1** sample collected and analyzed for every 5 feet bgs.<br>**AND**<br>**1** sample collected from each layer exhibiting different geological characteristics or lithology encountered. |

## Table 3

## Minimum Required Sample Density and Spacing for Stockpile (Post-Excavation) Characterization of Proposed Fill Material Sources for Receiving Facilities

| Requirements | Size of Fill Source | Minimum Number of Fill Material Samples to be Collected |
|---|---|---|
| (1) Top Soil (0 to 6 inches bgs) and near surface soil (6 inches to 3 feet bgs) must be stockpiled separately if sampling for contaminants associated with surface deposition (e.g. pesticides, asbestos, and lead) (0-6 inches below ground surface) is required;<br>(2) 4-point composite samples may be used in lieu of discrete samples for analysis other than VOCs and SVOCs, however, the total number of samples must be preserved;<br>(3) VOC and SVOC samples are to be collected from fill material at least 1 foot into the stockpile; | $\leq$1,000 $yd^3$ | **1** sample collected and analyzed per 250 cubic yards of stockpiled fill material. |
| | >1,000 $yd^3$ & <5,000 $yd^3$ | **4** samples collected and analyzed for first 1,000 cubic yards<br>**AND**<br>**1** sample for each additional 500 cubic yards. |
| | $\geq$5,000 $yd^3$ | **12** samples collected and analyzed for first 5,000 cubic yards<br>**AND**<br>**1** sample for each additional 1,000 cubic yards. |

# ATTACHMENT A

## Proposed Fill Material Source Characterization Summary Form

# Proposed Fill Material Source Characterization Summary Form

| Associated APN | Historic Land Use and identification of RECs (check all that apply) | | | | | | | | | | | In-situ [e.g. Unexcavated] Fill Source Information (if applicable) | | | | | Stockpiled Fill Source Information (if applicable) | | Fill Source Classification (check all that apply) | | | | | Fill Type (check all that apply) | | | | | Fill Destination (check all that apply) | | | | | Minimum Required Sampling[4]/ Actual Number of samples collected | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Phase 1 ESA or PEA Conducted | Undeveloped | Agricultural | Residential | Acceptable Commercial [1] | Unacceptable Commercial [2] | Industrial | Existing Historic Fill | Regulated Environmental Cleanup Site [3] | Major Roadway / Freeway [3] | Mining Area or Rock Quarry [3] | Cell ID | Excavation Width (feet) | Excavation Length (feet) | Excavation Depth (feet) | Number of Soil Layers Identified | Stockpile ID | Stockpile Volume ($yd^3$) | Soil Pit | Quarry | Construction Site | Stockpile Yard | Recycling Facility | Soil | Aggregate (sand and/or gravel) | Crushed Asphalt | Crushed Concrete | Construction Debris | Unknown | Property within jurisdiction of Zone 7 | Property within jurisdiction of ACWD | Property outside Zone 7 or ACWD jurisdiction | Permitted TSDF | California Title 22 Metals | Asbestos | pH | Pesticides | VOCs | SVOCs | PAHs | TPH | PCBs |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | / | / | / | / | / | / | / | / | / |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | / | / | / | / | / | / | / | / | / |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | / | / | / | / | / | / | / | / | / |
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| | |
|---|---|
| Are RECs, CRECs, or HRECs associated with any parcels? If so, what parcels, and what are the associated COCs? | |
| If Fill Source Area is a regulated environmental cleanup site, provide case identification information and regulatory oversight agency soil export requirements | |

Notes:

(1) Commercial activities that do not meet the Unacceptable Commercial criteria. Typically, Acceptable Commercial facilities are retail, restaurants or service providers (professional, legal, integrated technology, etc..).

(2) Commercial activities that generate revenue through or that significantly involve manufacturing, repairing, restoring, or providing maintenance services or the transport, storage, and disposal of hazardous materials.

(3) Land use at or within 500 feet of the parcel(s) containing the fill source

(4) Does not include additional sampling that may be required by the regulatory oversight agency overseeing the environmental cleanup site where the fill source is located

* Fill inappropriate or not proposed for off-site reuse at this time and must be disposed of at a permitted TSDF. Please consult with a permitted TSDF for sampling requirements for acceptance by the TSDR.

ACWD Alameda County Water District

APN Assessors Parcel Number

AR As required by accepting permitted TSDR

CRECs Controlled Recognized Environmental Condition as defined in ASTM E1527-13

HREC Historic Recognized Environmental Condition as defined in ASTM E1527-13

REC Recognized Environmental Condition as defined in ASTM E1527-13

TSDF Treatment, Storage, or Disposal Facility, defined as a "Designated Facility" in Title 22, Section 66260.10 of the California Code of Regulations.

Zone 7 Zone 7 Water Agency

# APPENDIX C

## Dust Monitoring Plan

# Appendix C
# Contingent Construction Soil and Groundwater Management Plan

**SUBJECT**
Dust Monitoring Plan
Former Signal Oil Station
No. 206145 and Adjacent Parcels
800 Center Street
Oakland, California
ACDEH Case Nos. RO0000454 & RO0003272

**DATE**
August 31, 2021

**OUR REF**
30045659

## Perimeter Air Monitoring

### Purpose

Air monitoring will be performed to document that excavation and material handling operations do not generate dust particulates above action levels (ALs) in the immediate work areas and at the property boundaries. In the event that dust concentrations exceed the action level, onsite activities will be temporarily suspended so that additional dust mitigation measures can be performed. The monitoring will conform to the Bay Area Air Quality Management District's Regulation 11 (Rule 1) for lead dust control.

### Monitoring Methods

Real-time particulate air monitors (e.g., DataRAM 4 or equivalent) will be used at the site to monitor dust levels throughout the entire project. The monitors will be operated each workday and will measure $PM_{10}$ (those particles less than 10 microns in diameter) dust concentrations. The monitors are calibrated by the equipment manufacture before being used at a site. When the monitors are turned on daily, the instrument is self-calibrating. Once turned on, the monitors record dust concentrations. The Site Safety Coordinator (SSC) will check the monitors periodically throughout each workday and when earthmoving work is being performed to determine if dust levels have exceeded the action level.

### Monitoring Locations

Three permanent, real-time, direct-reading dust-monitoring stations will be located at the property boundaries (one upwind and two downwind) of the site. The monitors for the perimeter locations will be affixed to a tripod or similier, where the inlet port of the sampler is located at a height approximately 5 to 6 feet above the ground surface (approximate breathing level) at an unobstructed location. . Each monitor will be removed at the end of each workday and taken back to the office/trailer, where the data will be downloaded.

### Frequency of Monitoring and Sampling

The fence-line perimeter monitors will be operational and continuously record data each day when construction activities are performed. Air monitoring will be suspended during periods of high humidity (e.g., fog and rain) since moisture entering the monitor can damage the unit. Operation of the monitors during humid site conditions can result in slightly higher air-borne values being recorded. These conditions will be taken into consideration when the monitoring data are downloaded and reviewed. Contaminated soil will not be excavated during periods of severe weather conditions which would also result in the temporary suspension in the air-monitoring program.

# Work Zone Air Monitoring

### Purpose

Personnel exposure monitoring will be conducted on similar exposure groups in order to establish initial exposures for each task. The primary purpose of the personnel exposure monitoring is to assess potential employee exposures to lead which may be generated during the work activities. Secondarily, the personnel exposure monitoring will provide analytical data in order to determine downgrading from level C PPE to level D PPE.

The active work areas of the property will be designated as Exclusion Zones during the periods when contaminated soils is being excavated, handled, loaded, and transported on the property. Monitoring will be performed within these areas to ensure that adequate dust suppression measures are being deployed as work activities are performed across the site. As contaminated soil is excavated, the material will be direct loaded into front loaders or placed into soil piles for subsequent loading. The monitoring will conform to California Occupational Safety & Health for worker health & safety and the Bay Area Air Quality Management District's Regulation 11 (Rule 1) for lead dust control.

### Method of Monitoring

Personnel exposure monitoring for the constituents of concern will be conducted. Personal air monitoring devices will be placed in each worker's breathing zone for each similar exposure group. NIOSH Method 7300 will be used for lead sampling and analysis.

Visual monitoring for dust generation and the use of a portable particulate air monitor will be performed in addition to maintaining the permanent air-monitoring stations as a means to evaluate the effectiveness of dust suppression measures within or adjacent to work areas. These control procedures may include the use of water spray to surpass dust emissions during all phases of excavation and materials handling. Dust suppression applications will be used within the active material-handling area at the end of each day. Real-time measurements for dust particulates will be obtained using a mobile air monitor (e.g., DataRAM 4). The DataRAM 4 instrument will be used for perimeter and work zone area dust monitoring. Use of a DataRAM 4 air monitoring instrument yields a real-time, direct-reading aerosol monitor that measures mass concentrations of dust in air. This type of air monitor samples the ambient air continuously, passing it through an optical chamber that is in the form of a long cylinder illuminated by a laser from one side, perpendicular to the long axis of the chamber. The amount of laser light scattered by particles in the air is measured and used to estimate a particle-scattering coefficient. This scattering coefficient is proportional to the mass of airborne particulate matter. The $PM_{10}$ impaction device on the DataRAM is used to calculate the average particle diameter and average concentration of the $PM_{10}$ (particles less than 10 microns in diameter) fraction of the airborne particulates. The $PM_{10}$ fraction is the respirable portion of the total particulate (dust) suspended in air. Similar to the perimeter particulate air monitors, the mobile monitor will be checked periodically throughout the day and the display readings will be recorded.

### Monitoring Locations

Personal air monitoring devices will be placed in each worker's breathing zone for each similar exposure group.

Visual monitoring for airborne dust will be performed on an ongoing basis within each area where excavation and material-handling activities are being performed. The entire onsite work force will be held accountable for observing, reporting, controlling and minimizing dust generation during all phases of the onsite work. A mobile real-time particulate air monitor will be placed onsite within 50 to 100 feet of the active work areas. The mobile monitoring station(s) will be placed downwind from the work areas based on the current and forecasted wind direction as indicated by the onsite weather information. The Site Safety Coordinator will use appropriate discretion in locating the monitor in the event excavation activities are being conducted near the property boundaries or conditions otherwise do not permit placement of the monitor directly downwind of a work area.

### Frequency of Monitoring

Personnel exposure monitoring for the constituents of concern will be conducted during the initial phases of each different task for this project where personal exposure to lead dust is reasonable anticipated (e.g., excavation) until a negative exposure assessment is achieved. Full-shift samples will be taken to compare with the Cal-OSHA 8-hour time-weighted average (TWA) permissible exposure limit (50 µg/$m^3$) and action level (30 µg/$m^3$).

Monitoring for visible airborne dust emissions will be conducted continuously during excavation/work activities by the entire onsite work force. The real-time $PM_{10}$ dust air monitoring will also be operated continuously during excavation and material-handling operations when potential soil-contaminated dust may be generated. The real-time monitoring will not be conducted during inclement weather conditions (e.g., rain or heavy fog) because these conditions interfere with the equipment function and may damage the monitor.

## Action Levels

The air-monitoring program for this project consists of a combination of perimeter, work zone, and personnel (worker) monitoring for particulates (dust), and the constituents of concern. Table 1 outlines the various action levels to be adhered to during the project. Due to the baseline level of particles present in the air, the action levels presented below are applied to the difference between the upwind and downwind measurements. Table 1 is presented on the following page:

**TABLE 1**
Air-Monitoring Action Levels

| Air Monitoring Parameter | Location | Monitoring Instrument | Action Level | Action |
|---|---|---|---|---|
| **Total Dust (PM10)** | Perimeter (fence line)[1] | DataRAM[4] | No visible dust | Continue work |
| | | | >0.0015 mg/m$^3$ | Pause work, assess engineering controls, and wind conditions, stop work if necessary to prevent fugitive emissions |
| | Work Zone (In personnel breathing zone) | DataRAM[4] | <1.25 mg/m$^3$ | Continue work |
| | | | 1.25 mg/m3 – 2.5 mg/m$^3$ | Check fence line levels & assess engineering controls |
| | | | >2.5 mg/m$^3$ | Stop work, assess engineering controls, and wind conditions, stop work if necessary to prevent fugitive emissions. |
| **Lead** | Perimeter[2] (fence line) | Low flow air pump[3] | No visible dust | Continue work |
| | | | >0.0015 mg/m$^3$ | Pause work, contact SSO, assess engineering controls and wind conditions, stop work if necessary to prevent fugitive emissions. |
| | Work Zone (In personnel breathing zone) | Low flow air pump[3] | 0.030 mg/m$^3$ | Level C - half-face respirator should be used until a negative exposure assessment (NEA) is achieved from the analytical laboratory results and when the real-time total particulate readings are confirmed below 0.03 mg/m$^3$.<br><br>For anytime thereafter, the following should apply:<br><PEL and AL (Level D);<br>5x – 10x AL (Level C - half-face);<br>10x – 100x AL (Level C - full-face);<br>>100x AL (Level B full-face pressure demand supplied air or suspend activities). |

Note: The ALs are based on readings sustained for 5 minutes.

1 Based on the California Ambient Air Quality Standards (CAAQS) for PM10 dust standard, upwind vs. downwind samples (24-hour average).

2 Based on the California Ambient Air Quality Standards (CAAQS) of 30-day average for lead of 0.0015 mg/m$^3$.

3 Sensidyne BDXII low flow air pumps, or similar will be used.

4 DataRAM, model pDR-1,000 or similar will be used.

**Action Level - Visible Monitoring**

The observation of airborne dust in the excavation/work areas will be used as a primary action level by site project team personnel. If dust is visible in a localized area, greater than 20% opacity, dust suppression methods will be immediately implemented. Onsite personnel will then check the perimeter monitors to determine if dust levels have exceeded the action level. If dust is visible from any active excavation area and is evident at the fence line, engineering controls or alternate dust control methods will be initiated at once. As stated previously, the dust suppression primarily consists of using water to wet down an area of dust generation. Covering stock piles with visqueen or tarps, spraying with dust suppression material or wetting the stock pile with water are effective dust suppression methods.

**Action Level - Perimeter and Work Zone Air Monitoring**

A dust concentration as measured by the $PM_{10}$ of 1.25 mg/$m^3$ (8-hour TWA) has been established as the action level for the work zone air-monitoring program (See Marlowe equation basis below). This action level is derived from the Cal/OSHA permissible exposure limit (PEL) for lead. These constituents and action level was chosen because lead were found to have the highest concentrations in the soil for this site. Note: Previous soil data indicate the highest levels of lead were found to be approximately 24,000 mg/kg. These air sample results are to be used to ensure that the dust air sampling program and action levels are effective and still protecting potentially impacted workers.

**Rationale for Work Area Establishing Action Levels**

The real-time particulate aerosol monitor measures the concentration of total respirable dust

(i.e., PM10) in the air on a continuous basis. The action level for PM10 concentrations,

measured in real-time by the particulate aerosol monitors, is based on a PM10 level

conservatively chosen to represent the documented lead standards as described below.

Two possible reference standards were considered for the real-time monitoring action level:

(1) Cal/OSHA's Permissible Exposure Level (PEL) and (2) ACGIH's Threshold Limit Value (TLV). The 8-hour Cal/OSHA PEL for lead is 0.05 mg/$m^3$. In addition, Cal/OSHA has established an action level for lead at 0.03 mg/$m^3$. The American Conference of Governmental Industrial Hygienists (ACGIH), a non-governmental organization, has developed an 8-hour TLV for lead at 0.05 mg/$m^3$. Both PELs, ALs, and TLVs are commonly relied upon by industry in setting workplace exposure standards. The lead concentration must be converted to a corresponding $PM_{10}$ concentration, using the following relationship based on the Marlowe Equation.

Marlowe Equation:

(1E+6) (Exposure Limit mg/$m^3$) / (Concentration mg/kg) (Safety Factor)

*where*:

1E+6 = 1,000,000 – conversion factor Exposure limit for constituent

Concentration = highest soil concentration found at the site

Safety factor = degree of confidence of soil concentrations

1 = very high confidence, 10 = very low confidence

Lead Action Level ($PM_{10}$) = [(1,000,000 mg/kg) × 0.03 mg/$m^3$] / [24,000 mg/kg × 1]

= **1.25 mg/$m^3$**

The maximum detected concentration of lead at the site (24,000 mg/kg) was applied in initially deriving the $PM_{10}$ action level equivalent to the Cal/OSHA AL of 0.03 mg/$m^3$ for lead. The calculated action level that is currently being applied for the particulate aerosol monitors is

a 5-minute average $PM_{10}$ concentration of 1.25 mg/$m^3$. This calculated action level to be applied for the particulate aerosol monitors is a 5-minute average PM10 concentration of 1.25 mg/$m^3$ and a maximum concentration of 2 times the AL value (2.5 mg/$m^3$).

Sincerely,

Arcadis U.S., Inc.

Wes Chase, CIH

Senior Scientist

Arcadis U.S., Inc.

2300 Clayton Road

Suite 400

Concord, California 94520

Tel 925 724 1100

**www.arcadis.com**

# Appendix B

## Field Notes from Data Gap Investigation

ARCADIS Design & Consultancy for natural and built assets

# Daily Field Report

**Project Name:** Chevron 206145 - Soil Assessment
**Page** 1 of 1
**Project Number:** 30045659
**Date** 4/12/21
**Site Location:** 800 Center St, Oakland CA
**ARCADIS Personnel:** M. Tavlegvi, R. Alvarez
**Subcontractor(s):** Penecore Drilling
**Inspector/Visitor and Contact #:** Eneyew
**Equipment/Supplies:** Geoprobe 7822 DT, PID, sampling VOAs/jar, water level meter, YSI
**Weather/Unusual Conditions:** sunny H: 66°F L: 48°F

**Scope/Objective today:** conduct soil assessment for the remedial data gap sampling

| Time | Description of Activities |
|---|---|
| 0730 | Arcadis and Penecore Drilling personnel onsite; HTS tailgate meeting/site walk |
| 0800 | Penecore began setup of their equipment |
| 0830 | Penecore began hand augering TW-3; Arcadis sampled/logged soil |
| 0930 | Acetate liner stuck around 35'; driller attempting to remove the liner from the rod |
| 1050 | sample taken at 40'; Penecore used augers to reach depth due to wet sand |
| 1055 | Hand cleared TW-1 to 8'; sample taken @5' |
| 1100 | Hand cleared TW-2 to 8'; sample taken @5' |
| 1335 | Hand cleared SB-1 to 8'; sample taken @5' |
| 1400 | Hand cleared SB-2 to 8'; sample taken @5' |
| 1410 | Hand cleared SB-3 to 8'; sample taken @5' |
| 1430 | 50' and 60' samples taken at TW-3 |
| 1500 | Hand cleared G-15-C to 8'; sample taken @5' |
| 1530 | Direct push at TW-2; acetate liner stuck around 50'; drillers attempt to remove liner from the rod |
| 1615 | Hand cleared SB-4 to 8'; sample taken @5' |
| 1645 | Penecore began to breakdown their equipment |
| 1700 | Personnel offsite |

**Signature:**

ARCADIS Design & Consultancy for natural and built assets

# Daily Field Report

**Project Name:** Chevron 206145- Soil Assessment
**Page** 1 of 1
**Project Number:** 30045659
**Date** 4/13/21
**Site Location:** 800 Center St, Oakland CA
**ARCADIS Personnel:** M. Jauregui, R. Alvarez
**Subcontractor(s):** Penecore Drilling
**Inspector/Visitor and Contact #:** Eneyew
**Equipment/Supplies:** Geoprobe 7822DT, PID; sampling voas/jars; water level meter; YSI
**Weather/Unusual Conditions:** partly cloudy H:63°F L:48°F

**Scope/Objective today:** Conduct soil assessment for the remedial data gap sampling

| Time | Description of Activities |
|---|---|
| 0730 | Arcadis and Penecore personnel onsite; Arcadis led H+S meeting |
| 0800 | Penecore setup |
| 0830 | Hand auger G-16-C and sampled (8') |
| 0845 | Hand auger G-17-C and sampled (8') |
| 0938 | Hand auger G-27-C (8') and sampled |
| 1000 | Hand auger SSD-12 and sampled at required depths (0', 1', 2', 3', 4', 5', 8') |
| 1045 | Hand auger SSD-11 and sampled (0', 1' 2', 3', 4', 5', 8') |
| 1120 | Hand auger SW-2-C and sampled (5') |
| 1140 | Hand auger SW-3-C and sampled (0', 1', 2', 3', 5') |
| 1200 | Penecore broke for lunch |
| 1230 | Bill, Chevron H+S, onsite |
| 1310 | Hand augr SW-4/MW-14-C and sampled (5') |
| 1340 | Met depth at TW-2 and sampled at 50' and 60' |
| 1410 | Hand cleared and sampled SVP-3 |
| 1430 | Grout inspector onsite to observe grouting |
| 1555 | Pushed to depth at SB-1 and sampled |
| 1630 | Pushed to depth at SB-2 and sampled |
| 1706 | Offsite |

**Signature:**

ARCADIS Design & Consultancy for natural and built assets

# Daily Field Report

Project Name: Chevron 206145 - Soil Assessment
Page 1 of 2
Project Number: 30045659
Date 4/14/21
Site Location: 800 Center St, Oakland CA
ARCADIS Personnel: M. Jauregui, R. Alvarez
Subcontractor(s): Penecore Drilling
Inspector/Visitor and Contact #: Eneyew
Equipment/Supplies: geoprobe, PID, sampling voas/jars, water level meter, YSI, gloves, Level D PPE
Weather/Unusual Conditions: sunny, overcast in the morning
Scope/Objective today: conduct soil assessment for the remedial data gap sampling

| Time | Description of Activities |
|---|---|
| 0730 | Arcadis + Penecore Drilling personnel onsite; H+S tailgate |
| 0800 | setup @ TW-1 |
| 0830 | Direct push @ TW-1; hand auger SVP-4 and SVP-1 sampled |
| 0950 | DPT cannot push past 40' due to soil formation (sticking to the liner) |
| 1000 | Hand auger SVP-2 |
| 1015 | Hand auger SSD-15; sampled (1', 2', 3', 4') |
| 1030 | Hand auger SSD-16; sampled (1', 2', 3', 4') |
| 1035 | Hand auger SSD-17; sampled |
| 1050 | Hand auger SSD-19; sampled |
| 1100 | Met depth at TW-1 (60') |
| 1115 | Hand auger SSD-18; sampled |
| 1200 | Break for lunch (30 mins) |
| 1320 | Hand auger SSD-14; sampled |
| 1330 | Hand auger SSD-13; sampled |
| 1345 | Hand auger SSD-10; sampled |
| 1400 | Hand auger SSD-9; sampled |
| 1435 | Hand auger SSD-8; sampled |
| 1445 | Hand auger SSD-7; sampled |
| 1520 | Direct push SB-3 to 15'; grout inspector onsite |
| 1545 | Direct push SB-4 to 15' |

Signature:

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Page 2 of 2

Project Name: 206145

Date 4/14/21

| Time | Description of Activities |
|---|---|
| 1550 | ~~arrived~~ sampled TW-2 for GW |
| 1600 | site clean-up and breakdown |
| 1630 | personnel offsite |

Signature:

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# Daily Field Report

Project Name: Chevron 206145 - Soil Assessment
Page 1 of 2
Project Number: 50045659
Date 4/15/21
Site Location: 800 Center St, Oakland CA
ARCADIS Personnel: M. Jauregui, R. Alvarez
Subcontractor(s): Penecore Drilling
Inspector/Visitor and Contact #: Enever
Equipment/Supplies: Geoprobe 7822DT, PID, sampling voas/jars, water level meter, YSI
Weather/Unusual Conditions: sunny, partially overcast

Scope/Objective today: conduct soil assessment for the remedial data gap investigation

| Time | Description of Activities |
|---|---|
| 0730 | Arcadis + Penicore onsite; H+S tailgate and setup |
| 0745 | Hand auger crew @ SSD-5; sampled (1', 2', 3', 4') - |
| 0815 | Hand auger @ SSD-6; sampled (0.1', 2', 3', 4') |
| 0900 | Hand auger @ SSD-4; sampled (1', 2', 3', 4') |
| 0910 | Hand auger @ SSD-3; sampled (1', 2', 3', 4') |
| 0915 | Hand auger @ SSD-2; sampled (1', 2', 3', 4') |
| 0925 | Hand auger @ SSD-1; sampled (1', 2', 3', 4') |
| 0945 | Hand auger @ SSD-29, sampled (1', 2', 3', 3.5', 4') |
| 0955 | Hand auger @ SSD-20; sampled (1', 2', 3', 4") |
| 1020 | Hand auger @ SSD-22; Sampled (3.5', 4.') |
| 1035 | Hand auger @ SSD-24; sampled (3.5', 4') |
| 1040 | Hand auger @ SSD-23; Sampled (1, 2, 3, 4') |
| 1050 | Hand auger @ SSD-25; sampled (1, 2, 3, 4'); water sample @ SB-1 |
| 1230 | Lunch break |
| 1340 | Hand auger @ SSD-26; sampled; pushed rods @ G-27-C sampled |
| 1350 | Hand auger @ SSD-28; sampled; water sampled @ SB-2 |
| 1400 | Hand auger @ SSD-31; Sampled |
| 1410 | Hand auger @ SSD-30; sampled |
| 1415 | Hand auger @ SSD-27; sampled |
| 1420 | Hand auger @ SSD-21; sampled; grout inspector onsite |
| 1530 | GW sampled @ TW-1 |
| 1540 | GW sampled @ SB-3 |

Signature:

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Page 2 of 2

Project Name: Chevron 206145

Date 4/15/21

| Time | Description of Activities |
|---|---|
| 1545 | GW sampled JB-4 |
| 1600 | Site break-down |
| 1630 | offsite |

Signature:

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# Daily Field Report

Project Name: Chevron 206145-Soil Assessment
Page 1 of 1
Project Number: 30045659
Date 4/16/21
Site Location: 800 Center St, Oakland CA
ARCADIS Personnel: M. Jauregui, R. Alvarez
Subcontractor(s): Penecore Drilling
Inspector/Visitor and Contact #: Eneyew
Equipment/Supplies: Geoprobe 7822DT, PID, sampling voas/jars, water level meter, YSI
Weather/Unusual Conditions: sunny

Scope/Objective today: conduct soil assessment for the remedial data gap investigation

| Time | Description of Activities |
|---|---|
| 0730 | Arcadis + Penecore onsite |
| 0800 | Site setup |
| 0830 | pull auger from TW-1 and begin clean-up |
| 0900 | Grout all remaing locations; grout inspector onsite; label waste drums |
| 1100 | Penecore + Arcadis demob from the site |

Signature:

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# Daily Field Report

**Project Name:** Chevron 206145 **Page** 1 of 1

**Project Number:** 30046051 **Date** 5/4/21

**Site Location:** 800 Center Street, Oakland CA

**ARCADIS Personnel:** Everett Rubin

**Subcontractor(s):** —

**Inspector/Visitor and Contact #:** —

**Equipment/Supplies:** MiniRAE 3000 PID, MGD 2002 He detector, GEM 2000, Gilair+ Pump, He tank and regulator, SV Sampling Shroud, Summa Canisters

**Weather/Unusual Conditions:** Sunny, warm

**Scope/Objective today:** Collect SV Samples

| Time | Description of Activities |
|---|---|
| 0750 | ER arrives on Site. Attempts to repair broken fence with cable ties. Completes PTW and conducts HAS tailgate. |
| 0810 | ER conducts Site walk. |
| 0907 | ER Samples VP-1 |
| 0943 | ER Samples VP-2 |
| 1018 | ER Samples VP-3 |
| 1054 | ER Samples VP-4 |
| 1120 | ER offsite for lunch |
| 1247 | ER Samples VP-5. He detector battery dies. |
| 1330 | ER Demobs. |

**Signature:** Everett Rubin



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# Table 1 - Soil Vapor Sampling Log Part 1



Project Name/Location: Chevron 206145
Project/No.: 30046051
Field Staff: Everett Rubin

Date: 5/4/21 - 5/6/21
Weather: Sunny

| Date | Location | Canister ID | Flow Controller/ Regulator ID | Start Shut-In Test | Initial Pressure (inHg) | Stop Shut-In Test | Final Pressure (inHg) | Purge Volume (ml) | Purge Duration (min) | Purge Start Time | Purge End Time | He Detected (ppm) | Initial Vacuum (in-HG) | Start Sampling Time | End Sampling Time | Final Vacuum (in-HG) | He Shroud Start (%) | He Shroud End (%) | Purge Volume field screening: PID VOC (ppm) | Landtec GEM 2000 CH4 (%) | O2 (%) | CO2 (%) | LEL (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/6/21 | SVP-1 | LL581 | A317 | 0919 | -22 | 0943 | -22 | 2084 | 11 | 0950 | 1001 | 0 | -30 | 1004 | 1009 | -5 | 19.7 | 14.6 | 0 | 0 | 21.0 | 0.8 | 0 |
| 5/6/21 | SVP-2 | LL100 | A468 | 0954 | -20 | 1024 | -20 | 2084 | 11 | 1031 | 1042 | 0 | -30 | 1047 | 1052 | -5 | 18.7 | 16.4 | 0 | 0 | 20.0 | 1.7 | 0 |
| 5/6/21 | SVP-3 | LL224 | A224 | 1036 | -22 | 1110 | -22 | 2084 | 11 | 1112 | 1123 | 0 | -30 | 1127 | 1132 | -5 | 29.4 | 17.3 | 0 | 0.1 | 14.2 | 5.3 | 1 |
| 5/6/21 | SVP-4 | LL886 | A147 | 1115 | -23 | 1145 | -23 | 2084 | 11 | 1151 | 1202 | 0 | -30 | 1206 | 1212 | -5 | 27.5 | 17.1 | 0 | 0.1 | 21.9 | 0 | 1 |
| 5/4/21 | VP-1 | LL617 | A350 | 0844 | -19 | 0848 | -19 | 828 | 5 | 0859 | 904 | 0 | -30 | 0907 | 0912 | -5 | 22.1 | 18.4 | 0 | 0 | 11.4 | 5.1 | 0 |
| 5/4/21 | VP-2 | LL154 | A483 | 0911 | -25 | 0930 | -25 | 828 | 5 | 0937 | 942 | 0 | -29 | 0943 | 0947 | -5 | 19.4 | 14.6 | 0 | 0 | 14.5 | 4.1 | 0 |
| 5/4/21 | VP-3 | LL627 | A124 | 0958 | -22 | 1003 | -22 | 828 | 5 | 1011 | 1016 | 0 | -29 | 1018 | 1023 | -5 | 30.1 | 20.4 | 0 | 0.1 | 16.5 | 4.5 | 2 |
| 5/4/21 | VP-4 | LL152 | A23 | 1022 | -25 | 1030 | -25 | 828 | 5 | 1047 | 1052 | 0 | -28 | 1054 | 1057 | -5 | 26.1 | 14.6 | 0 | 0.1 | 12.4 | 7.0 | 2 |
| 5/4/21 | VP-5 | LL907 | A469 | 1150 | -20 | 1200 | -20 | 828 | 5 | 1235 | 1240 | 0 | -30 | 1241 | 1247 | -5 | 22.4 | 21.8 | 0 | 0.2 | 18.7 | 7.9 | 4 |
| 5/6/21 | VP-6 | LL191 | A325 | 0855 | -15 | 0901 | -15 | 828 | 5 | 0906 | 0911 | 0 | -30 | 0913 | 0923 | -5 | 19.7 | 17.2 | 0 | 0 | 19.6 | 2.0 | 0 |
| 5/6/21 | DUP-1 | LL646 | A325 | 0855 | -15 | 0901 | -15 | 828 | 5 | 0906 | 0911 | 0 | -30 | 0913 | 0923 | -5 | 19.7 | 17.2 | 0 | 0 | 19.6 | 2.0 | 0 |
| 5/6/21 | EQB | LL078 | A446 | 1101 | -16 | 1105 | -16 | - | - | - | - | - | -30 | 1116 | 1152 | -12 | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | | | | | | |

NOTES: DUP-1 Collected at VP-6

signature: [signature]



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Page 1 of 1

Project Name: Chevron 206145

Date 5/6/21

| Time | Description of Activities |
|---|---|
| 0800 | EL arrives on site. H&S tailgate. |
| 0913 | EK Samples VP-6 and SVP-1 |
| 1004 | EK Samples SVP-1 |
| 1047 | EK Samples SVP-2 |
| 1127 | EK Samples SVP-3. Collects EQB. |
| 1206 | EK Samples SVP-4. |
| 1320 | EK offsite to ship samples. |

5/6/21

Signature: 5/6/21



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# Appendix C

## Lab Data from Data Gap Investigation

eurofins | Environment Testing America

# ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-56328-1
Client Project/Site: Chevron 206145 Oakland Center Street

For:
ARCADIS U.S. Inc
111 SW Columbia Street
Suite 670
Portland, Oregon 97201

Attn: Meg Armstrong

*Authorized for release by:*
*4/27/2021 3:42:07 PM*

Lena Davidkov, Project Manager II
(949)260-3229
Lena.Davidkova@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at:
www.eurofinsus.com/Env

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

# Case Narrative

Client: ARCADIS U.S. Inc
Job ID: 570-56328-1
Project/Site: Chevron 206145 Oakland Center Street

## Job ID: 570-56328-1

### Laboratory: Eurofins Calscience LLC

**Narrative**

**Job Narrative**
**570-56328-1**

**Comments**
8015B-DRO results for samples TW-3-20, TW-3-30 and TW-3-40 were not included in the report. Containers for those samples were not provided

**Receipt**
The samples were received on 4/13/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.5º C.

**GC/MS VOA**
Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 570-143036.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**GC/MS Semi VOA**
Method 8270C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-143218 and analytical batch 570-143489 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**GC VOA**
Method 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-143447.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**GC Semi VOA**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Organic Prep**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**VOA Prep**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56328-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: TW-3-5.0 — Lab Sample ID: 570-56328-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.041 | | 0.018 | 0.0091 | mg/Kg | 1 | | 8260B | Total/NA |
| GRO (C6-C12) | 0.060 | J | 0.10 | 0.057 | mg/Kg | 1 | | 8015B | Total/NA |
| C23-C40 | 100 | | 10 | 7.7 | mg/Kg | 2 | | 8015B | Total/NA |

## Client Sample ID: TW-3-10 — Lab Sample ID: 570-56328-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.013 | J | 0.016 | 0.0078 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: TW-3-20 — Lab Sample ID: 570-56328-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.020 | | 0.016 | 0.0080 | mg/Kg | 1 | | 8260B | Total/NA |
| Trichloroethene | 0.0015 | J | 0.0016 | 0.00032 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: TW-3-30 — Lab Sample ID: 570-56328-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.011 | J | 0.015 | 0.0074 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: TW-3-40 — Lab Sample ID: 570-56328-5

No Detections.

## Client Sample ID: TW-1-5.0 — Lab Sample ID: 570-56328-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.025 | | 0.018 | 0.0091 | mg/Kg | 1 | | 8260B | Total/NA |
| Benzo[a]pyrene | 0.086 | J | 0.49 | 0.076 | mg/Kg | 1 | | 8270C | Total/NA |
| Benzo[g,h,i]perylene | 0.10 | J | 0.49 | 0.082 | mg/Kg | 1 | | 8270C | Total/NA |
| Fluoranthene | 0.084 | J | 0.49 | 0.058 | mg/Kg | 1 | | 8270C | Total/NA |
| Pyrene | 0.15 | J | 0.49 | 0.074 | mg/Kg | 1 | | 8270C | Total/NA |
| C23-C40 | 21 | | 4.9 | 3.8 | mg/Kg | 1 | | 8015B | Total/NA |

## Client Sample ID: TW-2-5.0 — Lab Sample ID: 570-56328-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.050 | | 0.018 | 0.0090 | mg/Kg | 1 | | 8260B | Total/NA |
| GRO (C6-C12) | 0.068 | J | 0.093 | 0.052 | mg/Kg | 1 | | 8015B | Total/NA |
| C13-C22 | 4.1 | J | 5.0 | 3.8 | mg/Kg | 1 | | 8015B | Total/NA |
| C23-C40 | 8.6 | | 5.0 | 3.8 | mg/Kg | 1 | | 8015B | Total/NA |

## Client Sample ID: SB-1-5.0 — Lab Sample ID: 570-56328-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.0052 | J | 0.018 | 0.0041 | mg/Kg | 1 | | 8260B | Total/NA |
| Acetone | 0.079 | | 0.018 | 0.0089 | mg/Kg | 1 | | 8260B | Total/NA |
| C23-C40 | 14 | | 5.0 | 3.8 | mg/Kg | 1 | | 8015B | Total/NA |

## Client Sample ID: SB-2-5.0 — Lab Sample ID: 570-56328-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.036 | | 0.017 | 0.0085 | mg/Kg | 1 | | 8260B | Total/NA |

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56328-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SB-3-5.0
## Lab Sample ID: 570-56328-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.032 | | 0.018 | 0.0090 | mg/Kg | 1 | | 8260B | Total/NA |

This Detection Summary does not include radiochemical test results.

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: TW-3-5.0**
**Date Collected: 04/12/21 08:40**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00092 | 0.00027 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00092 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0018 | 0.00050 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0092 | 0.00043 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00092 | 0.00043 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 1,1-Dichloroethane | ND | | 0.00092 | 0.00026 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 1,1-Dichloroethene | ND | | 0.00092 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 1,1-Dichloropropene | ND | | 0.0018 | 0.00036 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0018 | 0.00092 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0018 | 0.00039 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0018 | 0.00038 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0018 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0092 | 0.0062 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 1,2-Dibromoethane | ND | | 0.00092 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00092 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 1,2-Dichloroethane | ND | | 0.00092 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 1,2-Dichloropropane | ND | | 0.00092 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0018 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00092 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 1,3-Dichloropropane | ND | | 0.00092 | 0.00027 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00092 | 0.00028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 2,2-Dichloropropane | ND | | 0.0046 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 2-Butanone | ND | | 0.018 | 0.0042 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 2-Chlorotoluene | ND | | 0.00092 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 2-Hexanone | ND | | 0.018 | 0.0028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 4-Chlorotoluene | ND | | 0.00092 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.018 | 0.0027 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| **Acetone** | **0.041** | | 0.018 | 0.0091 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Benzene | ND | | 0.00092 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Bromobenzene | ND | | 0.00092 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Bromochloromethane | ND | | 0.0018 | 0.00041 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Bromodichloromethane | ND | | 0.00092 | 0.00015 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Bromoform | ND | | 0.0046 | 0.0012 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Bromomethane | ND | | 0.018 | 0.0061 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00092 | 0.00031 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00092 | 0.00032 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Carbon disulfide | ND | | 0.0092 | 0.00037 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Carbon tetrachloride | ND | | 0.00092 | 0.00028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Chlorobenzene | ND | | 0.00092 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Chloroethane | ND | | 0.0018 | 0.0014 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Chloroform | ND | | 0.00092 | 0.00054 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Chloromethane | ND | | 0.018 | 0.0014 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Dibromochloromethane | ND | | 0.0018 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Dibromomethane | ND | | 0.00092 | 0.00028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Dichlorodifluoromethane | ND | | 0.0018 | 0.00042 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Ethylbenzene | ND | | 0.00092 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Isopropylbenzene | ND | | 0.00092 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Methylene Chloride | ND | | 0.0092 | 0.0029 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0018 | 0.00017 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-3-5.0**
**Date Collected: 04/12/21 08:40**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0092 | 0.0048 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| n-Butylbenzene | ND | | 0.00092 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| N-Propylbenzene | ND | | 0.0018 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| o-Xylene | ND | | 0.00092 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| m,p-Xylene | ND | | 0.0018 | 0.00044 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| p-Isopropyltoluene | ND | | 0.00092 | 0.00065 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| sec-Butylbenzene | ND | | 0.00092 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Styrene | ND | | 0.00092 | 0.00065 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00092 | 0.00028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0018 | 0.00026 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| tert-Butylbenzene | ND | | 0.00092 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Tetrachloroethene | ND | | 0.00092 | 0.00021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Toluene | ND | | 0.00092 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Trichloroethene | ND | | 0.0018 | 0.00036 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Trichlorofluoromethane | ND | | 0.0092 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Vinyl acetate | ND | | 0.0092 | 0.0036 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |
| Vinyl chloride | ND | | 0.00092 | 0.00035 | mg/Kg | | 04/13/21 18:21 | 04/14/21 00:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *107* | | *80 - 142* | *04/13/21 18:21* | *04/14/21 00:43* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *80 - 120* | *04/13/21 18:21* | *04/14/21 00:43* | *1* |
| *Dibromofluoromethane (Surr)* | *98* | | *80 - 123* | *04/13/21 18:21* | *04/14/21 00:43* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | *04/13/21 18:21* | *04/14/21 00:43* | *1* |

**Client Sample ID: TW-3-10**
**Date Collected: 04/12/21 09:00**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00079 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00079 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0016 | 0.00043 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0079 | 0.00037 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00079 | 0.00037 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 1,1-Dichloroethane | ND | | 0.00079 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 1,1-Dichloroethene | ND | | 0.00079 | 0.00021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 1,1-Dichloropropene | ND | | 0.0016 | 0.00031 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0016 | 0.00079 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0016 | 0.00033 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0016 | 0.00033 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0016 | 0.00048 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0079 | 0.0054 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 1,2-Dibromoethane | ND | | 0.00079 | 0.00016 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00079 | 0.00020 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 1,2-Dichloroethane | ND | | 0.00079 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 1,2-Dichloropropane | ND | | 0.00079 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0016 | 0.00048 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00079 | 0.00020 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 1,3-Dichloropropane | ND | | 0.00079 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00079 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 2,2-Dichloropropane | ND | | 0.0040 | 0.00021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-3-10**
**Date Collected: 04/12/21 09:00**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | ND | | 0.016 | 0.0036 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 2-Chlorotoluene | ND | | 0.00079 | 0.00020 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 2-Hexanone | ND | | 0.016 | 0.0024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 4-Chlorotoluene | ND | | 0.00079 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.016 | 0.0023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| **Acetone** | **0.013** | **J** | 0.016 | 0.0078 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Benzene | ND | | 0.00079 | 0.00020 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Bromobenzene | ND | | 0.00079 | 0.00017 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Bromochloromethane | ND | | 0.0016 | 0.00035 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Bromodichloromethane | ND | | 0.00079 | 0.00013 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Bromoform | ND | | 0.0040 | 0.0010 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Bromomethane | ND | | 0.016 | 0.0052 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00079 | 0.00027 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00079 | 0.00028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Carbon disulfide | ND | | 0.0079 | 0.00032 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Carbon tetrachloride | ND | | 0.00079 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Chlorobenzene | ND | | 0.00079 | 0.00021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Chloroethane | ND | | 0.0016 | 0.0012 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Chloroform | ND | | 0.00079 | 0.00047 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Chloromethane | ND | | 0.016 | 0.0012 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Dibromochloromethane | ND | | 0.0016 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Dibromomethane | ND | | 0.00079 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Dichlorodifluoromethane | ND | | 0.0016 | 0.00036 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Ethylbenzene | ND | | 0.00079 | 0.00016 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Isopropylbenzene | ND | | 0.00079 | 0.00048 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Methylene Chloride | ND | | 0.0079 | 0.0025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0016 | 0.00015 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Naphthalene | ND | | 0.0079 | 0.0041 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| n-Butylbenzene | ND | | 0.00079 | 0.00017 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| N-Propylbenzene | ND | | 0.0016 | 0.00048 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| o-Xylene | ND | | 0.00079 | 0.00048 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| m,p-Xylene | ND | | 0.0016 | 0.00038 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| p-Isopropyltoluene | ND | | 0.00079 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| sec-Butylbenzene | ND | | 0.00079 | 0.00048 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Styrene | ND | | 0.00079 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00079 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0016 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| tert-Butylbenzene | ND | | 0.00079 | 0.00020 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Tetrachloroethene | ND | | 0.00079 | 0.00018 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Toluene | ND | | 0.00079 | 0.00048 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Trichloroethene | ND | | 0.0016 | 0.00031 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Trichlorofluoromethane | ND | | 0.0079 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Vinyl acetate | ND | | 0.0079 | 0.0031 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |
| Vinyl chloride | ND | | 0.00079 | 0.00030 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *111* | | *80 - 142* | *04/13/21 18:21* | *04/14/21 01:08* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *80 - 120* | *04/13/21 18:21* | *04/14/21 01:08* | *1* |
| *Dibromofluoromethane (Surr)* | *100* | | *80 - 123* | *04/13/21 18:21* | *04/14/21 01:08* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/13/21 18:21* | *04/14/21 01:08* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: TW-3-20**
**Date Collected: 04/12/21 09:15**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-3**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00082 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00082 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0016 | 0.00044 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0082 | 0.00038 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00082 | 0.00038 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 1,1-Dichloroethane | ND | | 0.00082 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 1,1-Dichloroethene | ND | | 0.00082 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 1,1-Dichloropropene | ND | | 0.0016 | 0.00032 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0016 | 0.00082 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0016 | 0.00034 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0016 | 0.00033 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0016 | 0.00049 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0082 | 0.0055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 1,2-Dibromoethane | ND | | 0.00082 | 0.00017 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00082 | 0.00020 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 1,2-Dichloroethane | ND | | 0.00082 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 1,2-Dichloropropane | ND | | 0.00082 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0016 | 0.00049 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00082 | 0.00021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 1,3-Dichloropropane | ND | | 0.00082 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00082 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 2,2-Dichloropropane | ND | | 0.0041 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 2-Butanone | ND | | 0.016 | 0.0037 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 2-Chlorotoluene | ND | | 0.00082 | 0.00021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 2-Hexanone | ND | | 0.016 | 0.0025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 4-Chlorotoluene | ND | | 0.00082 | 0.00020 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.016 | 0.0024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| **Acetone** | **0.020** | | 0.016 | 0.0080 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Benzene | ND | | 0.00082 | 0.00021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Bromobenzene | ND | | 0.00082 | 0.00017 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Bromochloromethane | ND | | 0.0016 | 0.00036 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Bromodichloromethane | ND | | 0.00082 | 0.00013 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Bromoform | ND | | 0.0041 | 0.0011 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Bromomethane | ND | | 0.016 | 0.0054 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00082 | 0.00028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00082 | 0.00028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Carbon disulfide | ND | | 0.0082 | 0.00033 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Carbon tetrachloride | ND | | 0.00082 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Chlorobenzene | ND | | 0.00082 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Chloroethane | ND | | 0.0016 | 0.0012 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Chloroform | ND | | 0.00082 | 0.00048 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Chloromethane | ND | | 0.016 | 0.0013 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Dibromochloromethane | ND | | 0.0016 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Dibromomethane | ND | | 0.00082 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Dichlorodifluoromethane | ND | | 0.0016 | 0.00037 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Ethylbenzene | ND | | 0.00082 | 0.00017 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Isopropylbenzene | ND | | 0.00082 | 0.00049 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Methylene Chloride | ND | | 0.0082 | 0.0025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0016 | 0.00015 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-3-20**
**Date Collected: 04/12/21 09:15**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-3**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0082 | 0.0042 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| n-Butylbenzene | ND | | 0.00082 | 0.00017 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| N-Propylbenzene | ND | | 0.0016 | 0.00049 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| o-Xylene | ND | | 0.00082 | 0.00049 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| m,p-Xylene | ND | | 0.0016 | 0.00039 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| p-Isopropyltoluene | ND | | 0.00082 | 0.00057 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| sec-Butylbenzene | ND | | 0.00082 | 0.00049 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Styrene | ND | | 0.00082 | 0.00057 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00082 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0016 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| tert-Butylbenzene | ND | | 0.00082 | 0.00021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Tetrachloroethene | ND | | 0.00082 | 0.00018 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Toluene | ND | | 0.00082 | 0.00049 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| **Trichloroethene** | **0.0015** | **J** | 0.0016 | 0.00032 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Trichlorofluoromethane | ND | | 0.0082 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Vinyl acetate | ND | | 0.0082 | 0.0032 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |
| Vinyl chloride | ND | | 0.00082 | 0.00031 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *80 - 142* | *04/13/21 18:21* | *04/14/21 01:33* | *1* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *80 - 120* | *04/13/21 18:21* | *04/14/21 01:33* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *80 - 123* | *04/13/21 18:21* | *04/14/21 01:33* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/13/21 18:21* | *04/14/21 01:33* | *1* |

**Client Sample ID: TW-3-30**
**Date Collected: 04/12/21 09:25**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-4**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00075 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00075 | 0.00018 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0015 | 0.00041 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0075 | 0.00035 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00075 | 0.00035 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 1,1-Dichloroethane | ND | | 0.00075 | 0.00021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 1,1-Dichloroethene | ND | | 0.00075 | 0.00020 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 1,1-Dichloropropene | ND | | 0.0015 | 0.00029 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0015 | 0.00075 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0015 | 0.00032 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0015 | 0.00031 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0015 | 0.00045 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0075 | 0.0051 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 1,2-Dibromoethane | ND | | 0.00075 | 0.00016 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 1,2-Dichloroethane | ND | | 0.00075 | 0.00021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 1,2-Dichloropropane | ND | | 0.00075 | 0.00021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0015 | 0.00045 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 1,3-Dichloropropane | ND | | 0.00075 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00075 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 2,2-Dichloropropane | ND | | 0.0038 | 0.00020 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-3-30**
**Date Collected: 04/12/21 09:25**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-4**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | ND | | 0.015 | 0.0034 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 2-Chlorotoluene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 2-Hexanone | ND | | 0.015 | 0.0023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 4-Chlorotoluene | ND | | 0.00075 | 0.00018 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.015 | 0.0022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| **Acetone** | **0.011** | **J** | 0.015 | 0.0074 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Benzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Bromobenzene | ND | | 0.00075 | 0.00016 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Bromochloromethane | ND | | 0.0015 | 0.00034 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Bromodichloromethane | ND | | 0.00075 | 0.00012 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Bromoform | ND | | 0.0038 | 0.0010 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Bromomethane | ND | | 0.015 | 0.0050 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00075 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00075 | 0.00026 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Carbon disulfide | ND | | 0.0075 | 0.00030 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Carbon tetrachloride | ND | | 0.00075 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Chlorobenzene | ND | | 0.00075 | 0.00020 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Chloroethane | ND | | 0.0015 | 0.0011 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Chloroform | ND | | 0.00075 | 0.00044 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Chloromethane | ND | | 0.015 | 0.0012 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Dibromochloromethane | ND | | 0.0015 | 0.00021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Dibromomethane | ND | | 0.00075 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Dichlorodifluoromethane | ND | | 0.0015 | 0.00034 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Ethylbenzene | ND | | 0.00075 | 0.00016 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Isopropylbenzene | ND | | 0.00075 | 0.00045 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Methylene Chloride | ND | | 0.0075 | 0.0024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0015 | 0.00014 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Naphthalene | ND | | 0.0075 | 0.0039 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| n-Butylbenzene | ND | | 0.00075 | 0.00016 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| N-Propylbenzene | ND | | 0.0015 | 0.00045 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| o-Xylene | ND | | 0.00075 | 0.00045 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| m,p-Xylene | ND | | 0.0015 | 0.00036 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| p-Isopropyltoluene | ND | | 0.00075 | 0.00053 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| sec-Butylbenzene | ND | | 0.00075 | 0.00045 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Styrene | ND | | 0.00075 | 0.00053 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00075 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0015 | 0.00021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| tert-Butylbenzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Tetrachloroethene | ND | | 0.00075 | 0.00017 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Toluene | ND | | 0.00075 | 0.00045 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Trichloroethene | ND | | 0.0015 | 0.00029 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Trichlorofluoromethane | ND | | 0.0075 | 0.00021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Vinyl acetate | ND | | 0.0075 | 0.0030 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |
| Vinyl chloride | ND | | 0.00075 | 0.00029 | mg/Kg | | 04/13/21 18:21 | 04/14/21 01:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *110* | | *80 - 142* | *04/13/21 18:21* | *04/14/21 01:59* | *1* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *80 - 120* | *04/13/21 18:21* | *04/14/21 01:59* | *1* |
| *Dibromofluoromethane (Surr)* | *101* | | *80 - 123* | *04/13/21 18:21* | *04/14/21 01:59* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/13/21 18:21* | *04/14/21 01:59* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: TW-3-40**
**Date Collected: 04/12/21 10:50**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-5**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00073 | 0.00021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00073 | 0.00017 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0015 | 0.00040 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0073 | 0.00034 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00073 | 0.00034 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 1,1-Dichloroethane | ND | | 0.00073 | 0.00020 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 1,1-Dichloroethene | ND | | 0.00073 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 1,1-Dichloropropene | ND | | 0.0015 | 0.00028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0015 | 0.00073 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0015 | 0.00031 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0015 | 0.00030 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0015 | 0.00044 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0073 | 0.0049 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 1,2-Dibromoethane | ND | | 0.00073 | 0.00015 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00073 | 0.00018 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 1,2-Dichloroethane | ND | | 0.00073 | 0.00020 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 1,2-Dichloropropane | ND | | 0.00073 | 0.00020 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0015 | 0.00044 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00073 | 0.00018 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 1,3-Dichloropropane | ND | | 0.00073 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00073 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 2,2-Dichloropropane | ND | | 0.0036 | 0.00020 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 2-Butanone | ND | | 0.015 | 0.0033 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 2-Chlorotoluene | ND | | 0.00073 | 0.00018 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 2-Hexanone | ND | | 0.015 | 0.0022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 4-Chlorotoluene | ND | | 0.00073 | 0.00018 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.015 | 0.0021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Acetone | ND | | 0.015 | 0.0072 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Benzene | ND | | 0.00073 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Bromobenzene | ND | | 0.00073 | 0.00015 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Bromochloromethane | ND | | 0.0015 | 0.00032 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Bromodichloromethane | ND | | 0.00073 | 0.00012 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Bromoform | ND | | 0.0036 | 0.00096 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Bromomethane | ND | | 0.015 | 0.0048 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00073 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00073 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Carbon disulfide | ND | | 0.0073 | 0.00029 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Carbon tetrachloride | ND | | 0.00073 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Chlorobenzene | ND | | 0.00073 | 0.00020 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Chloroethane | ND | | 0.0015 | 0.0011 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Chloroform | ND | | 0.00073 | 0.00043 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Chloromethane | ND | | 0.015 | 0.0011 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Dibromochloromethane | ND | | 0.0015 | 0.00020 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Dibromomethane | ND | | 0.00073 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Dichlorodifluoromethane | ND | | 0.0015 | 0.00033 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Ethylbenzene | ND | | 0.00073 | 0.00015 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Isopropylbenzene | ND | | 0.00073 | 0.00044 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Methylene Chloride | ND | | 0.0073 | 0.0023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0015 | 0.00014 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-3-40**
**Date Collected: 04/12/21 10:50**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-5**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0073 | 0.0038 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| n-Butylbenzene | ND | | 0.00073 | 0.00015 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| N-Propylbenzene | ND | | 0.0015 | 0.00044 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| o-Xylene | ND | | 0.00073 | 0.00044 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| m,p-Xylene | ND | | 0.0015 | 0.00035 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| p-Isopropyltoluene | ND | | 0.00073 | 0.00051 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| sec-Butylbenzene | ND | | 0.00073 | 0.00044 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Styrene | ND | | 0.00073 | 0.00051 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00073 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0015 | 0.00020 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| tert-Butylbenzene | ND | | 0.00073 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Tetrachloroethene | ND | | 0.00073 | 0.00016 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Toluene | ND | | 0.00073 | 0.00044 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Trichloroethene | ND | | 0.0015 | 0.00028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Trichlorofluoromethane | ND | | 0.0073 | 0.00020 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Vinyl acetate | ND | | 0.0073 | 0.0029 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |
| Vinyl chloride | ND | | 0.00073 | 0.00028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *112* | | *80 - 142* | *04/13/21 18:21* | *04/14/21 02:24* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *80 - 120* | *04/13/21 18:21* | *04/14/21 02:24* | *1* |
| *Dibromofluoromethane (Surr)* | *101* | | *80 - 123* | *04/13/21 18:21* | *04/14/21 02:24* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/13/21 18:21* | *04/14/21 02:24* | *1* |

**Client Sample ID: TW-1-5.0**
**Date Collected: 04/12/21 10:55**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-6**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00092 | 0.00027 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00092 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0018 | 0.00050 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0092 | 0.00043 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00092 | 0.00043 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 1,1-Dichloroethane | ND | | 0.00092 | 0.00026 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 1,1-Dichloroethene | ND | | 0.00092 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 1,1-Dichloropropene | ND | | 0.0018 | 0.00036 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0018 | 0.00092 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0018 | 0.00039 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0018 | 0.00038 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0018 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0092 | 0.0063 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 1,2-Dibromoethane | ND | | 0.00092 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00092 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 1,2-Dichloroethane | ND | | 0.00092 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 1,2-Dichloropropane | ND | | 0.00092 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0018 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00092 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 1,3-Dichloropropane | ND | | 0.00092 | 0.00027 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00092 | 0.00028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 2,2-Dichloropropane | ND | | 0.0046 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-1-5.0**
**Date Collected: 04/12/21 10:55**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-6**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | ND | | 0.018 | 0.0042 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 2-Chlorotoluene | ND | | 0.00092 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 2-Hexanone | ND | | 0.018 | 0.0028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 4-Chlorotoluene | ND | | 0.00092 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.018 | 0.0027 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| **Acetone** | **0.025** | | 0.018 | 0.0091 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Benzene | ND | | 0.00092 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Bromobenzene | ND | | 0.00092 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Bromochloromethane | ND | | 0.0018 | 0.00041 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Bromodichloromethane | ND | | 0.00092 | 0.00015 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Bromoform | ND | | 0.0046 | 0.0012 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Bromomethane | ND | | 0.018 | 0.0061 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00092 | 0.00031 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00092 | 0.00032 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Carbon disulfide | ND | | 0.0092 | 0.00037 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Carbon tetrachloride | ND | | 0.00092 | 0.00028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Chlorobenzene | ND | | 0.00092 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Chloroethane | ND | | 0.0018 | 0.0014 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Chloroform | ND | | 0.00092 | 0.00054 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Chloromethane | ND | | 0.018 | 0.0014 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Dibromochloromethane | ND | | 0.0018 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Dibromomethane | ND | | 0.00092 | 0.00028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Dichlorodifluoromethane | ND | | 0.0018 | 0.00042 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Ethylbenzene | ND | | 0.00092 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Isopropylbenzene | ND | | 0.00092 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Methylene Chloride | ND | | 0.0092 | 0.0029 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0018 | 0.00017 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Naphthalene | ND | | 0.0092 | 0.0048 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| n-Butylbenzene | ND | | 0.00092 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| N-Propylbenzene | ND | | 0.0018 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| o-Xylene | ND | | 0.00092 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| m,p-Xylene | ND | | 0.0018 | 0.00044 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| p-Isopropyltoluene | ND | | 0.00092 | 0.00065 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| sec-Butylbenzene | ND | | 0.00092 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Styrene | ND | | 0.00092 | 0.00065 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00092 | 0.00028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0018 | 0.00026 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| tert-Butylbenzene | ND | | 0.00092 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Tetrachloroethene | ND | | 0.00092 | 0.00021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Toluene | ND | | 0.00092 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Trichloroethene | ND | | 0.0018 | 0.00036 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Trichlorofluoromethane | ND | | 0.0092 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Vinyl acetate | ND | | 0.0092 | 0.0036 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |
| Vinyl chloride | ND | | 0.00092 | 0.00035 | mg/Kg | | 04/13/21 18:21 | 04/14/21 02:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *115* | | *80 - 142* | *04/13/21 18:21* | *04/14/21 02:49* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *80 - 120* | *04/13/21 18:21* | *04/14/21 02:49* | *1* |
| *Dibromofluoromethane (Surr)* | *101* | | *80 - 123* | *04/13/21 18:21* | *04/14/21 02:49* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/13/21 18:21* | *04/14/21 02:49* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: TW-2-5.0**
**Date Collected: 04/12/21 11:00**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-7**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00092 | 0.00027 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00092 | 0.00021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0018 | 0.00050 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0092 | 0.00042 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00092 | 0.00043 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 1,1-Dichloroethane | ND | | 0.00092 | 0.00026 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 1,1-Dichloroethene | ND | | 0.00092 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 1,1-Dichloropropene | ND | | 0.0018 | 0.00036 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0018 | 0.00092 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0018 | 0.00039 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0018 | 0.00038 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0018 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0092 | 0.0062 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 1,2-Dibromoethane | ND | | 0.00092 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00092 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 1,2-Dichloroethane | ND | | 0.00092 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 1,2-Dichloropropane | ND | | 0.00092 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0018 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00092 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 1,3-Dichloropropane | ND | | 0.00092 | 0.00027 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00092 | 0.00028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 2,2-Dichloropropane | ND | | 0.0046 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 2-Butanone | ND | | 0.018 | 0.0041 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 2-Chlorotoluene | ND | | 0.00092 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 2-Hexanone | ND | | 0.018 | 0.0028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 4-Chlorotoluene | ND | | 0.00092 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.018 | 0.0027 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| **Acetone** | **0.050** | | 0.018 | 0.0090 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Benzene | ND | | 0.00092 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Bromobenzene | ND | | 0.00092 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Bromochloromethane | ND | | 0.0018 | 0.00041 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Bromodichloromethane | ND | | 0.00092 | 0.00015 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Bromoform | ND | | 0.0046 | 0.0012 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Bromomethane | ND | | 0.018 | 0.0060 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00092 | 0.00031 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00092 | 0.00032 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Carbon disulfide | ND | | 0.0092 | 0.00037 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Carbon tetrachloride | ND | | 0.00092 | 0.00027 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Chlorobenzene | ND | | 0.00092 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Chloroethane | ND | | 0.0018 | 0.0014 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Chloroform | ND | | 0.00092 | 0.00054 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Chloromethane | ND | | 0.018 | 0.0014 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Dibromochloromethane | ND | | 0.0018 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Dibromomethane | ND | | 0.00092 | 0.00028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Dichlorodifluoromethane | ND | | 0.0018 | 0.00042 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Ethylbenzene | ND | | 0.00092 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Isopropylbenzene | ND | | 0.00092 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Methylene Chloride | ND | | 0.0092 | 0.0029 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0018 | 0.00017 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-2-5.0**
**Date Collected: 04/12/21 11:00**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-7**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0092 | 0.0048 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| n-Butylbenzene | ND | | 0.00092 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| N-Propylbenzene | ND | | 0.0018 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| o-Xylene | ND | | 0.00092 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| m,p-Xylene | ND | | 0.0018 | 0.00044 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| p-Isopropyltoluene | ND | | 0.00092 | 0.00064 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| sec-Butylbenzene | ND | | 0.00092 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Styrene | ND | | 0.00092 | 0.00064 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00092 | 0.00028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0018 | 0.00026 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| tert-Butylbenzene | ND | | 0.00092 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Tetrachloroethene | ND | | 0.00092 | 0.00021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Toluene | ND | | 0.00092 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Trichloroethene | ND | | 0.0018 | 0.00036 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Trichlorofluoromethane | ND | | 0.0092 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Vinyl acetate | ND | | 0.0092 | 0.0036 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |
| Vinyl chloride | ND | | 0.00092 | 0.00035 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *117* | | *80 - 142* | *04/13/21 18:21* | *04/14/21 03:14* | *1* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *80 - 120* | *04/13/21 18:21* | *04/14/21 03:14* | *1* |
| *Dibromofluoromethane (Surr)* | *103* | | *80 - 123* | *04/13/21 18:21* | *04/14/21 03:14* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/13/21 18:21* | *04/14/21 03:14* | *1* |

**Client Sample ID: SB-1-5.0**
**Date Collected: 04/12/21 13:35**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-8**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00091 | 0.00026 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00091 | 0.00021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0018 | 0.00049 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0091 | 0.00042 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00091 | 0.00042 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 1,1-Dichloroethane | ND | | 0.00091 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 1,1-Dichloroethene | ND | | 0.00091 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 1,1-Dichloropropene | ND | | 0.0018 | 0.00035 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0018 | 0.00091 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0018 | 0.00038 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0018 | 0.00037 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0018 | 0.00054 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0091 | 0.0061 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 1,2-Dibromoethane | ND | | 0.00091 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00091 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 1,2-Dichloroethane | ND | | 0.00091 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 1,2-Dichloropropane | ND | | 0.00091 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0018 | 0.00054 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00091 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 1,3-Dichloropropane | ND | | 0.00091 | 0.00027 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00091 | 0.00028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 2,2-Dichloropropane | ND | | 0.0045 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-1-5.0**
**Date Collected: 04/12/21 13:35**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-8**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **2-Butanone** | **0.0052** | **J** | 0.018 | 0.0041 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 2-Chlorotoluene | ND | | 0.00091 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 2-Hexanone | ND | | 0.018 | 0.0028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 4-Chlorotoluene | ND | | 0.00091 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.018 | 0.0026 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| **Acetone** | **0.079** | | 0.018 | 0.0089 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Benzene | ND | | 0.00091 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Bromobenzene | ND | | 0.00091 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Bromochloromethane | ND | | 0.0018 | 0.00040 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Bromodichloromethane | ND | | 0.00091 | 0.00014 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Bromoform | ND | | 0.0045 | 0.0012 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Bromomethane | ND | | 0.018 | 0.0060 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00091 | 0.00031 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00091 | 0.00032 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Carbon disulfide | ND | | 0.0091 | 0.00036 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Carbon tetrachloride | ND | | 0.00091 | 0.00027 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Chlorobenzene | ND | | 0.00091 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Chloroethane | ND | | 0.0018 | 0.0014 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Chloroform | ND | | 0.00091 | 0.00054 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Chloromethane | ND | | 0.018 | 0.0014 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Dibromochloromethane | ND | | 0.0018 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Dibromomethane | ND | | 0.00091 | 0.00028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Dichlorodifluoromethane | ND | | 0.0018 | 0.00041 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Ethylbenzene | ND | | 0.00091 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Isopropylbenzene | ND | | 0.00091 | 0.00054 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Methylene Chloride | ND | | 0.0091 | 0.0028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0018 | 0.00017 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Naphthalene | ND | | 0.0091 | 0.0047 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| n-Butylbenzene | ND | | 0.00091 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| N-Propylbenzene | ND | | 0.0018 | 0.00054 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| o-Xylene | ND | | 0.00091 | 0.00054 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| m,p-Xylene | ND | | 0.0018 | 0.00043 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| p-Isopropyltoluene | ND | | 0.00091 | 0.00064 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| sec-Butylbenzene | ND | | 0.00091 | 0.00054 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Styrene | ND | | 0.00091 | 0.00064 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00091 | 0.00027 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0018 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| tert-Butylbenzene | ND | | 0.00091 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Tetrachloroethene | ND | | 0.00091 | 0.00020 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Toluene | ND | | 0.00091 | 0.00054 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Trichloroethene | ND | | 0.0018 | 0.00035 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Trichlorofluoromethane | ND | | 0.0091 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Vinyl acetate | ND | | 0.0091 | 0.0036 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |
| Vinyl chloride | ND | | 0.00091 | 0.00034 | mg/Kg | | 04/13/21 18:21 | 04/14/21 03:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *118* | | *80 - 142* | *04/13/21 18:21* | *04/14/21 03:39* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *80 - 120* | *04/13/21 18:21* | *04/14/21 03:39* | *1* |
| *Dibromofluoromethane (Surr)* | *103* | | *80 - 123* | *04/13/21 18:21* | *04/14/21 03:39* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/13/21 18:21* | *04/14/21 03:39* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: SB-2-5.0**
**Date Collected: 04/12/21 14:00**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-9**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00087 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00087 | 0.00020 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0017 | 0.00047 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0087 | 0.00040 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00087 | 0.00040 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 1,1-Dichloroethane | ND | | 0.00087 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 1,1-Dichloroethene | ND | | 0.00087 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 1,1-Dichloropropene | ND | | 0.0017 | 0.00034 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0017 | 0.00087 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0017 | 0.00036 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0017 | 0.00036 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0017 | 0.00052 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0087 | 0.0059 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 1,2-Dibromoethane | ND | | 0.00087 | 0.00018 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00087 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 1,2-Dichloroethane | ND | | 0.00087 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 1,2-Dichloropropane | ND | | 0.00087 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0017 | 0.00052 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00087 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 1,3-Dichloropropane | ND | | 0.00087 | 0.00026 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00087 | 0.00027 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 2,2-Dichloropropane | ND | | 0.0043 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 2-Butanone | ND | | 0.017 | 0.0039 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 2-Chlorotoluene | ND | | 0.00087 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 2-Hexanone | ND | | 0.017 | 0.0027 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 4-Chlorotoluene | ND | | 0.00087 | 0.00021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.017 | 0.0025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| **Acetone** | **0.036** | | 0.017 | 0.0085 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Benzene | ND | | 0.00087 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Bromobenzene | ND | | 0.00087 | 0.00018 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Bromochloromethane | ND | | 0.0017 | 0.00039 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Bromodichloromethane | ND | | 0.00087 | 0.00014 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Bromoform | ND | | 0.0043 | 0.0011 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Bromomethane | ND | | 0.017 | 0.0057 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00087 | 0.00029 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00087 | 0.00030 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Carbon disulfide | ND | | 0.0087 | 0.00035 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Carbon tetrachloride | ND | | 0.00087 | 0.00026 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Chlorobenzene | ND | | 0.00087 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Chloroethane | ND | | 0.0017 | 0.0013 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Chloroform | ND | | 0.00087 | 0.00051 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Chloromethane | ND | | 0.017 | 0.0013 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Dibromochloromethane | ND | | 0.0017 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Dibromomethane | ND | | 0.00087 | 0.00026 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Dichlorodifluoromethane | ND | | 0.0017 | 0.00039 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Ethylbenzene | ND | | 0.00087 | 0.00018 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Isopropylbenzene | ND | | 0.00087 | 0.00052 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Methylene Chloride | ND | | 0.0087 | 0.0027 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0017 | 0.00016 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-2-5.0**
**Date Collected: 04/12/21 14:00**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-9**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0087 | 0.0045 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| n-Butylbenzene | ND | | 0.00087 | 0.00018 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| N-Propylbenzene | ND | | 0.0017 | 0.00052 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| o-Xylene | ND | | 0.00087 | 0.00052 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| m,p-Xylene | ND | | 0.0017 | 0.00041 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| p-Isopropyltoluene | ND | | 0.00087 | 0.00061 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| sec-Butylbenzene | ND | | 0.00087 | 0.00052 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Styrene | ND | | 0.00087 | 0.00061 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00087 | 0.00026 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0017 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| tert-Butylbenzene | ND | | 0.00087 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Tetrachloroethene | ND | | 0.00087 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Toluene | ND | | 0.00087 | 0.00052 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Trichloroethene | ND | | 0.0017 | 0.00034 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Trichlorofluoromethane | ND | | 0.0087 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Vinyl acetate | ND | | 0.0087 | 0.0034 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |
| Vinyl chloride | ND | | 0.00087 | 0.00033 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *118* | | *80 - 142* | *04/13/21 18:21* | *04/14/21 04:04* | *1* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *80 - 120* | *04/13/21 18:21* | *04/14/21 04:04* | *1* |
| *Dibromofluoromethane (Surr)* | *102* | | *80 - 123* | *04/13/21 18:21* | *04/14/21 04:04* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/13/21 18:21* | *04/14/21 04:04* | *1* |

**Client Sample ID: SB-3-5.0**
**Date Collected: 04/12/21 14:10**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-10**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00091 | 0.00026 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00091 | 0.00021 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0018 | 0.00050 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0091 | 0.00042 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00091 | 0.00042 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 1,1-Dichloroethane | ND | | 0.00091 | 0.00026 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 1,1-Dichloroethene | ND | | 0.00091 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 1,1-Dichloropropene | ND | | 0.0018 | 0.00035 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0018 | 0.00091 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0018 | 0.00038 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0018 | 0.00037 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0018 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0091 | 0.0062 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 1,2-Dibromoethane | ND | | 0.00091 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00091 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 1,2-Dichloroethane | ND | | 0.00091 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 1,2-Dichloropropane | ND | | 0.00091 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0018 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00091 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 1,3-Dichloropropane | ND | | 0.00091 | 0.00027 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00091 | 0.00028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 2,2-Dichloropropane | ND | | 0.0046 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-3-5.0**
**Date Collected: 04/12/21 14:10**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-10**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | ND | | 0.018 | 0.0041 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 2-Chlorotoluene | ND | | 0.00091 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 2-Hexanone | ND | | 0.018 | 0.0028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 4-Chlorotoluene | ND | | 0.00091 | 0.00022 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.018 | 0.0026 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| **Acetone** | **0.032** | | 0.018 | 0.0090 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Benzene | ND | | 0.00091 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Bromobenzene | ND | | 0.00091 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Bromochloromethane | ND | | 0.0018 | 0.00041 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Bromodichloromethane | ND | | 0.00091 | 0.00015 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Bromoform | ND | | 0.0046 | 0.0012 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Bromomethane | ND | | 0.018 | 0.0060 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00091 | 0.00031 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00091 | 0.00032 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Carbon disulfide | ND | | 0.0091 | 0.00036 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Carbon tetrachloride | ND | | 0.00091 | 0.00027 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Chlorobenzene | ND | | 0.00091 | 0.00024 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Chloroethane | ND | | 0.0018 | 0.0014 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Chloroform | ND | | 0.00091 | 0.00054 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Chloromethane | ND | | 0.018 | 0.0014 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Dibromochloromethane | ND | | 0.0018 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Dibromomethane | ND | | 0.00091 | 0.00028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Dichlorodifluoromethane | ND | | 0.0018 | 0.00041 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Ethylbenzene | ND | | 0.00091 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Isopropylbenzene | ND | | 0.00091 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Methylene Chloride | ND | | 0.0091 | 0.0028 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0018 | 0.00017 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Naphthalene | ND | | 0.0091 | 0.0047 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| n-Butylbenzene | ND | | 0.00091 | 0.00019 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| N-Propylbenzene | ND | | 0.0018 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| o-Xylene | ND | | 0.00091 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| m,p-Xylene | ND | | 0.0018 | 0.00043 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| p-Isopropyltoluene | ND | | 0.00091 | 0.00064 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| sec-Butylbenzene | ND | | 0.00091 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Styrene | ND | | 0.00091 | 0.00064 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00091 | 0.00027 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0018 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| tert-Butylbenzene | ND | | 0.00091 | 0.00023 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Tetrachloroethene | ND | | 0.00091 | 0.00020 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Toluene | ND | | 0.00091 | 0.00055 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Trichloroethene | ND | | 0.0018 | 0.00035 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Trichlorofluoromethane | ND | | 0.0091 | 0.00025 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Vinyl acetate | ND | | 0.0091 | 0.0036 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |
| Vinyl chloride | ND | | 0.00091 | 0.00034 | mg/Kg | | 04/13/21 18:21 | 04/14/21 04:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *122* | | *80 - 142* | *04/13/21 18:21* | *04/14/21 04:30* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *80 - 120* | *04/13/21 18:21* | *04/14/21 04:30* | *1* |
| *Dibromofluoromethane (Surr)* | *105* | | *80 - 123* | *04/13/21 18:21* | *04/14/21 04:30* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | *04/13/21 18:21* | *04/14/21 04:30* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Client Sample ID: TW-3-5.0**
**Date Collected: 04/12/21 08:40**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:05 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:05 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:05 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:05 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:05 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.045 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:05 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:05 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:05 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:05 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:05 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:05 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:05 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:05 | 1 |
| Fluorene | ND | | 0.50 | 0.066 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:05 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:05 | 1 |
| Naphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:05 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:05 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *81* | | *10 - 134* | *04/14/21 13:35* | *04/15/21 18:05* | *1* |
| *2-Fluorobiphenyl (Surr)* | *76* | | *14 - 142* | *04/14/21 13:35* | *04/15/21 18:05* | *1* |
| *2-Fluorophenol (Surr)* | *60* | | *10 - 123* | *04/14/21 13:35* | *04/15/21 18:05* | *1* |
| *Nitrobenzene-d5 (Surr)* | *67* | | *10 - 129* | *04/14/21 13:35* | *04/15/21 18:05* | *1* |
| *Phenol-d6 (Surr)* | *64* | | *10 - 120* | *04/14/21 13:35* | *04/15/21 18:05* | *1* |
| *p-Terphenyl-d14 (Surr)* | *93* | | *31 - 139* | *04/14/21 13:35* | *04/15/21 18:05* | *1* |

**Client Sample ID: TW-3-10**
**Date Collected: 04/12/21 09:00**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:24 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:24 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:24 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:24 | 1 |
| Anthracene | ND | | 0.50 | 0.051 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:24 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.046 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:24 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.077 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:24 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.080 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:24 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.084 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:24 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:24 | 1 |
| Chrysene | ND | | 0.50 | 0.068 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:24 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:24 | 1 |
| Fluoranthene | ND | | 0.50 | 0.059 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:24 | 1 |
| Fluorene | ND | | 0.50 | 0.067 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:24 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.091 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:24 | 1 |
| Naphthalene | ND | | 0.50 | 0.058 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:24 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:24 | 1 |
| Pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/14/21 13:35 | 04/15/21 18:24 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *79* | | *10 - 134* | *04/14/21 13:35* | *04/15/21 18:24* | *1* |
| *2-Fluorobiphenyl (Surr)* | *81* | | *14 - 142* | *04/14/21 13:35* | *04/15/21 18:24* | *1* |
| *2-Fluorophenol (Surr)* | *65* | | *10 - 123* | *04/14/21 13:35* | *04/15/21 18:24* | *1* |
| *Nitrobenzene-d5 (Surr)* | *70* | | *10 - 129* | *04/14/21 13:35* | *04/15/21 18:24* | *1* |
| *Phenol-d6 (Surr)* | *66* | | *10 - 120* | *04/14/21 13:35* | *04/15/21 18:24* | *1* |
| *p-Terphenyl-d14 (Surr)* | *101* | | *31 - 139* | *04/14/21 13:35* | *04/15/21 18:24* | *1* |

**Client Sample ID: TW-1-5.0**
**Date Collected: 04/12/21 10:55**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-6**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.49 | 0.036 | mg/Kg | | 04/14/21 13:39 | 04/15/21 18:43 | 1 |
| 2-Methylnaphthalene | ND | | 0.49 | 0.056 | mg/Kg | | 04/14/21 13:39 | 04/15/21 18:43 | 1 |
| Acenaphthene | ND | | 0.49 | 0.053 | mg/Kg | | 04/14/21 13:39 | 04/15/21 18:43 | 1 |
| Acenaphthylene | ND | | 0.49 | 0.038 | mg/Kg | | 04/14/21 13:39 | 04/15/21 18:43 | 1 |
| Anthracene | ND | | 0.49 | 0.050 | mg/Kg | | 04/14/21 13:39 | 04/15/21 18:43 | 1 |
| Benzo[a]anthracene | ND | | 0.49 | 0.045 | mg/Kg | | 04/14/21 13:39 | 04/15/21 18:43 | 1 |
| **Benzo[a]pyrene** | **0.086** | **J** | 0.49 | 0.076 | mg/Kg | | 04/14/21 13:39 | 04/15/21 18:43 | 1 |
| Benzo[b]fluoranthene | ND | | 0.49 | 0.079 | mg/Kg | | 04/14/21 13:39 | 04/15/21 18:43 | 1 |
| **Benzo[g,h,i]perylene** | **0.10** | **J** | 0.49 | 0.082 | mg/Kg | | 04/14/21 13:39 | 04/15/21 18:43 | 1 |
| Benzo[k]fluoranthene | ND | | 0.49 | 0.046 | mg/Kg | | 04/14/21 13:39 | 04/15/21 18:43 | 1 |
| Chrysene | ND | | 0.49 | 0.067 | mg/Kg | | 04/14/21 13:39 | 04/15/21 18:43 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.49 | 0.10 | mg/Kg | | 04/14/21 13:39 | 04/15/21 18:43 | 1 |
| **Fluoranthene** | **0.084** | **J** | 0.49 | 0.058 | mg/Kg | | 04/14/21 13:39 | 04/15/21 18:43 | 1 |
| Fluorene | ND | | 0.49 | 0.066 | mg/Kg | | 04/14/21 13:39 | 04/15/21 18:43 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.49 | 0.089 | mg/Kg | | 04/14/21 13:39 | 04/15/21 18:43 | 1 |
| Naphthalene | ND | | 0.49 | 0.057 | mg/Kg | | 04/14/21 13:39 | 04/15/21 18:43 | 1 |
| Phenanthrene | ND | | 0.49 | 0.060 | mg/Kg | | 04/14/21 13:39 | 04/15/21 18:43 | 1 |
| **Pyrene** | **0.15** | **J** | 0.49 | 0.074 | mg/Kg | | 04/14/21 13:39 | 04/15/21 18:43 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *94* | | *10 - 134* | *04/14/21 13:39* | *04/15/21 18:43* | *1* |
| *2-Fluorobiphenyl (Surr)* | *90* | | *14 - 142* | *04/14/21 13:39* | *04/15/21 18:43* | *1* |
| *2-Fluorophenol (Surr)* | *70* | | *10 - 123* | *04/14/21 13:39* | *04/15/21 18:43* | *1* |
| *Nitrobenzene-d5 (Surr)* | *80* | | *10 - 129* | *04/14/21 13:39* | *04/15/21 18:43* | *1* |
| *Phenol-d6 (Surr)* | *75* | | *10 - 120* | *04/14/21 13:39* | *04/15/21 18:43* | *1* |
| *p-Terphenyl-d14 (Surr)* | *114* | | *31 - 139* | *04/14/21 13:39* | *04/15/21 18:43* | *1* |

**Client Sample ID: TW-2-5.0**
**Date Collected: 04/12/21 11:00**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-7**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/14/21 13:39 | 04/15/21 22:50 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/14/21 13:39 | 04/15/21 22:50 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/14/21 13:39 | 04/15/21 22:50 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/14/21 13:39 | 04/15/21 22:50 | 1 |
| Anthracene | ND | | 0.50 | 0.051 | mg/Kg | | 04/14/21 13:39 | 04/15/21 22:50 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.046 | mg/Kg | | 04/14/21 13:39 | 04/15/21 22:50 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.077 | mg/Kg | | 04/14/21 13:39 | 04/15/21 22:50 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.080 | mg/Kg | | 04/14/21 13:39 | 04/15/21 22:50 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.084 | mg/Kg | | 04/14/21 13:39 | 04/15/21 22:50 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/14/21 13:39 | 04/15/21 22:50 | 1 |
| Chrysene | ND | | 0.50 | 0.068 | mg/Kg | | 04/14/21 13:39 | 04/15/21 22:50 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-2-5.0**
**Date Collected: 04/12/21 11:00**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-7**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/14/21 13:39 | 04/15/21 22:50 | 1 |
| Fluoranthene | ND | | 0.50 | 0.059 | mg/Kg | | 04/14/21 13:39 | 04/15/21 22:50 | 1 |
| Fluorene | ND | | 0.50 | 0.067 | mg/Kg | | 04/14/21 13:39 | 04/15/21 22:50 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.091 | mg/Kg | | 04/14/21 13:39 | 04/15/21 22:50 | 1 |
| Naphthalene | ND | | 0.50 | 0.058 | mg/Kg | | 04/14/21 13:39 | 04/15/21 22:50 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/14/21 13:39 | 04/15/21 22:50 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/14/21 13:39 | 04/15/21 22:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *82* | | *10 - 134* | *04/14/21 13:39* | *04/15/21 22:50* | *1* |
| *2-Fluorobiphenyl (Surr)* | *82* | | *14 - 142* | *04/14/21 13:39* | *04/15/21 22:50* | *1* |
| *2-Fluorophenol (Surr)* | *65* | | *10 - 123* | *04/14/21 13:39* | *04/15/21 22:50* | *1* |
| *Nitrobenzene-d5 (Surr)* | *79* | | *10 - 129* | *04/14/21 13:39* | *04/15/21 22:50* | *1* |
| *Phenol-d6 (Surr)* | *73* | | *10 - 120* | *04/14/21 13:39* | *04/15/21 22:50* | *1* |
| *p-Terphenyl-d14 (Surr)* | *112* | | *31 - 139* | *04/14/21 13:39* | *04/15/21 22:50* | *1* |

**Client Sample ID: SB-1-5.0**
**Date Collected: 04/12/21 13:35**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-8**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/14/21 13:39 | 04/15/21 23:09 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/14/21 13:39 | 04/15/21 23:09 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/14/21 13:39 | 04/15/21 23:09 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/14/21 13:39 | 04/15/21 23:09 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/14/21 13:39 | 04/15/21 23:09 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.046 | mg/Kg | | 04/14/21 13:39 | 04/15/21 23:09 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/14/21 13:39 | 04/15/21 23:09 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.080 | mg/Kg | | 04/14/21 13:39 | 04/15/21 23:09 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/14/21 13:39 | 04/15/21 23:09 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/14/21 13:39 | 04/15/21 23:09 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/14/21 13:39 | 04/15/21 23:09 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/14/21 13:39 | 04/15/21 23:09 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/14/21 13:39 | 04/15/21 23:09 | 1 |
| Fluorene | ND | | 0.50 | 0.066 | mg/Kg | | 04/14/21 13:39 | 04/15/21 23:09 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/14/21 13:39 | 04/15/21 23:09 | 1 |
| Naphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/14/21 13:39 | 04/15/21 23:09 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/14/21 13:39 | 04/15/21 23:09 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/14/21 13:39 | 04/15/21 23:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *79* | | *10 - 134* | *04/14/21 13:39* | *04/15/21 23:09* | *1* |
| *2-Fluorobiphenyl (Surr)* | *78* | | *14 - 142* | *04/14/21 13:39* | *04/15/21 23:09* | *1* |
| *2-Fluorophenol (Surr)* | *60* | | *10 - 123* | *04/14/21 13:39* | *04/15/21 23:09* | *1* |
| *Nitrobenzene-d5 (Surr)* | *68* | | *10 - 129* | *04/14/21 13:39* | *04/15/21 23:09* | *1* |
| *Phenol-d6 (Surr)* | *63* | | *10 - 120* | *04/14/21 13:39* | *04/15/21 23:09* | *1* |
| *p-Terphenyl-d14 (Surr)* | *107* | | *31 - 139* | *04/14/21 13:39* | *04/15/21 23:09* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Client Sample ID: SB-2-5.0**
**Date Collected: 04/12/21 14:00**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-9**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:38 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:38 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:38 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:38 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:38 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.046 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:38 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:38 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:38 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:38 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:38 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:38 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:38 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:38 | 1 |
| Fluorene | ND | | 0.50 | 0.066 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:38 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:38 | 1 |
| Naphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:38 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:38 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *79* | | *10 - 134* | *04/14/21 13:39* | *04/15/21 17:38* | *1* |
| *2-Fluorobiphenyl (Surr)* | *80* | | *14 - 142* | *04/14/21 13:39* | *04/15/21 17:38* | *1* |
| *2-Fluorophenol (Surr)* | *75* | | *10 - 123* | *04/14/21 13:39* | *04/15/21 17:38* | *1* |
| *Nitrobenzene-d5 (Surr)* | *72* | | *10 - 129* | *04/14/21 13:39* | *04/15/21 17:38* | *1* |
| *Phenol-d6 (Surr)* | *69* | | *10 - 120* | *04/14/21 13:39* | *04/15/21 17:38* | *1* |
| *p-Terphenyl-d14 (Surr)* | *74* | | *31 - 139* | *04/14/21 13:39* | *04/15/21 17:38* | *1* |

**Client Sample ID: SB-3-5.0**
**Date Collected: 04/12/21 14:10**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-10**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| Anthracene | ND | | 0.50 | 0.051 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.046 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.077 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.080 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.084 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| Chrysene | ND | | 0.50 | 0.068 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| Fluoranthene | ND | | 0.50 | 0.059 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| Fluorene | ND | | 0.50 | 0.067 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.091 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| Naphthalene | ND | | 0.50 | 0.058 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/14/21 13:39 | 04/15/21 17:56 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 75 | | 10 - 134 | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| 2-Fluorobiphenyl (Surr) | 74 | | 14 - 142 | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| 2-Fluorophenol (Surr) | 69 | | 10 - 123 | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| Nitrobenzene-d5 (Surr) | 70 | | 10 - 129 | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| Phenol-d6 (Surr) | 66 | | 10 - 120 | 04/14/21 13:39 | 04/15/21 17:56 | 1 |
| p-Terphenyl-d14 (Surr) | 79 | | 31 - 139 | 04/14/21 13:39 | 04/15/21 17:56 | 1 |

## Method: 8015B - Gasoline Range Organics - (GC)

**Client Sample ID: TW-3-5.0**
**Date Collected: 04/12/21 08:40**
**Date Received: 04/13/21 10:00**
**Lab Sample ID: 570-56328-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **GRO (C6-C12)** | **0.060** | **J** | 0.10 | 0.057 | mg/Kg | | 04/13/21 18:21 | 04/16/21 10:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *95* | | *42 - 126* | *04/13/21 18:21* | *04/16/21 10:30* | *1* |

**Client Sample ID: TW-3-10**
**Date Collected: 04/12/21 09:00**
**Date Received: 04/13/21 10:00**
**Lab Sample ID: 570-56328-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.074 | 0.041 | mg/Kg | | 04/13/21 18:21 | 04/16/21 10:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *80* | | *42 - 126* | *04/13/21 18:21* | *04/16/21 10:54* | *1* |

**Client Sample ID: TW-3-20**
**Date Collected: 04/12/21 09:15**
**Date Received: 04/13/21 10:00**
**Lab Sample ID: 570-56328-3**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.071 | 0.040 | mg/Kg | | 04/13/21 18:21 | 04/16/21 11:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *81* | | *42 - 126* | *04/13/21 18:21* | *04/16/21 11:18* | *1* |

**Client Sample ID: TW-3-30**
**Date Collected: 04/12/21 09:25**
**Date Received: 04/13/21 10:00**
**Lab Sample ID: 570-56328-4**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.071 | 0.040 | mg/Kg | | 04/13/21 18:21 | 04/16/21 11:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *77* | | *42 - 126* | *04/13/21 18:21* | *04/16/21 11:42* | *1* |

**Client Sample ID: TW-3-40**
**Date Collected: 04/12/21 10:50**
**Date Received: 04/13/21 10:00**
**Lab Sample ID: 570-56328-5**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.074 | 0.041 | mg/Kg | | 04/13/21 18:21 | 04/16/21 12:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *86* | | *42 - 126* | *04/13/21 18:21* | *04/16/21 12:06* | *1* |

**Client Sample ID: TW-1-5.0**
**Date Collected: 04/12/21 10:55**
**Date Received: 04/13/21 10:00**
**Lab Sample ID: 570-56328-6**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.088 | 0.049 | mg/Kg | | 04/13/21 18:21 | 04/16/21 12:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *79* | | *42 - 126* | *04/13/21 18:21* | *04/16/21 12:31* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Client Sample ID: TW-2-5.0**
**Date Collected: 04/12/21 11:00**
**Date Received: 04/13/21 10:00**
**Lab Sample ID: 570-56328-7**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **GRO (C6-C12)** | **0.068** | **J** | 0.093 | 0.052 | mg/Kg | | 04/13/21 18:21 | 04/16/21 12:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *84* | | *42 - 126* | *04/13/21 18:21* | *04/16/21 12:55* | *1* |

**Client Sample ID: SB-1-5.0**
**Date Collected: 04/12/21 13:35**
**Date Received: 04/13/21 10:00**
**Lab Sample ID: 570-56328-8**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.093 | 0.052 | mg/Kg | | 04/13/21 18:21 | 04/16/21 13:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *84* | | *42 - 126* | *04/13/21 18:21* | *04/16/21 13:19* | *1* |

**Client Sample ID: SB-2-5.0**
**Date Collected: 04/12/21 14:00**
**Date Received: 04/13/21 10:00**
**Lab Sample ID: 570-56328-9**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.091 | 0.051 | mg/Kg | | 04/13/21 18:21 | 04/16/21 13:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *89* | | *42 - 126* | *04/13/21 18:21* | *04/16/21 13:44* | *1* |

**Client Sample ID: SB-3-5.0**
**Date Collected: 04/12/21 14:10**
**Date Received: 04/13/21 10:00**
**Lab Sample ID: 570-56328-10**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.093 | 0.052 | mg/Kg | | 04/13/21 18:21 | 04/16/21 14:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *84* | | *42 - 126* | *04/13/21 18:21* | *04/16/21 14:08* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Client Sample ID: TW-3-5.0**
**Date Collected: 04/12/21 08:40**
**Date Received: 04/13/21 10:00**
**Lab Sample ID: 570-56328-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 10 | 7.7 | mg/Kg | | 04/19/21 19:51 | 04/20/21 11:38 | 2 |
| **C23-C40** | **100** | | 10 | 7.7 | mg/Kg | | 04/19/21 19:51 | 04/20/21 11:38 | 2 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *78* | | *60 - 138* | *04/19/21 19:51* | *04/20/21 11:38* | *2* |

**Client Sample ID: TW-3-10**
**Date Collected: 04/12/21 09:00**
**Date Received: 04/13/21 10:00**
**Lab Sample ID: 570-56328-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 5.0 | 3.8 | mg/Kg | | 04/19/21 19:51 | 04/20/21 12:00 | 1 |
| C23-C40 | ND | | 5.0 | 3.8 | mg/Kg | | 04/19/21 19:51 | 04/20/21 12:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *94* | | *60 - 138* | *04/19/21 19:51* | *04/20/21 12:00* | *1* |

**Client Sample ID: TW-1-5.0**
**Date Collected: 04/12/21 10:55**
**Date Received: 04/13/21 10:00**
**Lab Sample ID: 570-56328-6**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 4.9 | 3.8 | mg/Kg | | 04/19/21 19:51 | 04/20/21 12:20 | 1 |
| **C23-C40** | **21** | | 4.9 | 3.8 | mg/Kg | | 04/19/21 19:51 | 04/20/21 12:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *72* | | *60 - 138* | *04/19/21 19:51* | *04/20/21 12:20* | *1* |

**Client Sample ID: TW-2-5.0**
**Date Collected: 04/12/21 11:00**
**Date Received: 04/13/21 10:00**
**Lab Sample ID: 570-56328-7**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C13-C22** | **4.1** | **J** | 5.0 | 3.8 | mg/Kg | | 04/19/21 19:51 | 04/20/21 12:42 | 1 |
| **C23-C40** | **8.6** | | 5.0 | 3.8 | mg/Kg | | 04/19/21 19:51 | 04/20/21 12:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *72* | | *60 - 138* | *04/19/21 19:51* | *04/20/21 12:42* | *1* |

**Client Sample ID: SB-1-5.0**
**Date Collected: 04/12/21 13:35**
**Date Received: 04/13/21 10:00**
**Lab Sample ID: 570-56328-8**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 5.0 | 3.8 | mg/Kg | | 04/19/21 19:51 | 04/20/21 13:02 | 1 |
| **C23-C40** | **14** | | 5.0 | 3.8 | mg/Kg | | 04/19/21 19:51 | 04/20/21 13:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *93* | | *60 - 138* | *04/19/21 19:51* | *04/20/21 13:02* | *1* |

**Client Sample ID: SB-2-5.0**
**Date Collected: 04/12/21 14:00**
**Date Received: 04/13/21 10:00**
**Lab Sample ID: 570-56328-9**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 5.1 | 3.9 | mg/Kg | | 04/19/21 19:51 | 04/20/21 13:44 | 1 |
| C23-C40 | ND | | 5.1 | 3.9 | mg/Kg | | 04/19/21 19:51 | 04/20/21 13:44 | 1 |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *90* | | *60 - 138* | *04/19/21 19:51* | *04/20/21 13:44* | *1* |

**Client Sample ID: SB-3-5.0**
**Date Collected: 04/12/21 14:10**
**Date Received: 04/13/21 10:00**

**Lab Sample ID: 570-56328-10**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 5.0 | 3.9 | mg/Kg | | 04/19/21 19:51 | 04/20/21 14:05 | 1 |
| C23-C40 | ND | | 5.0 | 3.9 | mg/Kg | | 04/19/21 19:51 | 04/20/21 14:05 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *96* | | *60 - 138* | *04/19/21 19:51* | *04/20/21 14:05* | *1* |

# Surrogate Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56328-1
Project/Site: Chevron 206145 Oakland Center Street

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | BFB | DBFM | TOL |
| Lab Sample ID | Client Sample ID | (80-142) | (80-120) | (80-123) | (80-120) |
| 570-56328-1 | TW-3-5.0 | 107 | 98 | 98 | 99 |
| 570-56328-2 | TW-3-10 | 111 | 98 | 100 | 100 |
| 570-56328-3 | TW-3-20 | 108 | 97 | 96 | 100 |
| 570-56328-4 | TW-3-30 | 110 | 97 | 101 | 100 |
| 570-56328-5 | TW-3-40 | 112 | 98 | 101 | 100 |
| 570-56328-6 | TW-1-5.0 | 115 | 98 | 101 | 100 |
| 570-56328-7 | TW-2-5.0 | 117 | 99 | 103 | 100 |
| 570-56328-8 | SB-1-5.0 | 118 | 98 | 103 | 100 |
| 570-56328-9 | SB-2-5.0 | 118 | 99 | 102 | 100 |
| 570-56328-10 | SB-3-5.0 | 122 | 101 | 105 | 101 |
| LCS 570-143036/3 | Lab Control Sample | 96 | 99 | 104 | 102 |
| LCSD 570-143036/4 | Lab Control Sample Dup | 94 | 98 | 103 | 102 |
| MB 570-143036/8 | Method Blank | 99 | 96 | 97 | 100 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | |
|---|---|---|---|---|---|---|---|
| | | TBP | FBP | 2FP | NBZ | PHL6 | TPHd14 |
| Lab Sample ID | Client Sample ID | (10-134) | (14-142) | (10-123) | (10-129) | (10-120) | (31-139) |
| 570-56328-1 | TW-3-5.0 | 81 | 76 | 60 | 67 | 64 | 93 |
| 570-56328-1 MS | TW-3-5.0 | 81 | 71 | 64 | 68 | 69 | 93 |
| 570-56328-1 MSD | TW-3-5.0 | 87 | 79 | 68 | 71 | 76 | 99 |
| 570-56328-2 | TW-3-10 | 79 | 81 | 65 | 70 | 66 | 101 |
| 570-56328-6 | TW-1-5.0 | 94 | 90 | 70 | 80 | 75 | 114 |
| 570-56328-7 | TW-2-5.0 | 82 | 82 | 65 | 79 | 73 | 112 |
| 570-56328-8 | SB-1-5.0 | 79 | 78 | 60 | 68 | 63 | 107 |
| 570-56328-9 | SB-2-5.0 | 79 | 80 | 75 | 72 | 69 | 74 |
| 570-56328-10 | SB-3-5.0 | 75 | 74 | 69 | 70 | 66 | 79 |
| LCS 570-143218/2-A | Lab Control Sample | 92 | 91 | 88 | 77 | 82 | 94 |
| LCSD 570-143218/3-A | Lab Control Sample Dup | 95 | 90 | 87 | 76 | 78 | 93 |
| MB 570-143218/1-A | Method Blank | 90 | 92 | 86 | 85 | 80 | 94 |

**Surrogate Legend**

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL6 = Phenol-d6 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

# Surrogate Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56328-1
Project/Site: Chevron 206145 Oakland Center Street

## Method: 8015B - Gasoline Range Organics - (GC)

**Matrix: Solid**
**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) |
|---|---|---|
| Lab Sample ID | Client Sample ID | BFB1 (42-126) |
| 570-56328-1 | TW-3-5.0 | 95 |
| 570-56328-2 | TW-3-10 | 80 |
| 570-56328-3 | TW-3-20 | 81 |
| 570-56328-4 | TW-3-30 | 77 |
| 570-56328-5 | TW-3-40 | 86 |
| 570-56328-6 | TW-1-5.0 | 79 |
| 570-56328-7 | TW-2-5.0 | 84 |
| 570-56328-8 | SB-1-5.0 | 84 |
| 570-56328-9 | SB-2-5.0 | 89 |
| 570-56328-10 | SB-3-5.0 | 84 |
| LCS 570-143447/33 | Lab Control Sample | 98 |
| LCSD 570-143447/34 | Lab Control Sample Dup | 99 |
| MB 570-143447/35 | Method Blank | 84 |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Matrix: Solid**
**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) |
|---|---|---|
| Lab Sample ID | Client Sample ID | OTCSN1 (60-138) |
| 320-72426-A-5-F MS | Matrix Spike | 88 |
| 320-72426-A-5-G MSD | Matrix Spike Duplicate | 82 |
| 570-56328-1 | TW-3-5.0 | 78 |
| 570-56328-2 | TW-3-10 | 94 |
| 570-56328-6 | TW-1-5.0 | 72 |
| 570-56328-7 | TW-2-5.0 | 72 |
| 570-56328-8 | SB-1-5.0 | 93 |
| 570-56328-9 | SB-2-5.0 | 90 |
| 570-56328-10 | SB-3-5.0 | 96 |
| LCS 570-144427/2-A | Lab Control Sample | 96 |
| LCSD 570-144427/3-A | Lab Control Sample Dup | 91 |
| MB 570-144427/1-A | Method Blank | 105 |

**Surrogate Legend**

OTCSN = n-Octacosane (Surr)

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 570-143036/8**
**Matrix: Solid**
**Analysis Batch: 143036**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.0010 | 0.00029 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.0010 | 0.00023 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0020 | 0.00054 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.010 | 0.00046 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.0010 | 0.00046 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 1,1-Dichloroethane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 1,1-Dichloroethene | ND | | 0.0010 | 0.00027 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 1,1-Dichloropropene | ND | | 0.0020 | 0.00039 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0020 | 0.0010 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0020 | 0.00042 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0020 | 0.00041 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.010 | 0.0068 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 1,2-Dibromoethane | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 1,2-Dichloroethane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 1,2-Dichloropropane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 1,3-Dichloropropane | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.0010 | 0.00031 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 2,2-Dichloropropane | ND | | 0.0050 | 0.00027 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 2-Butanone | ND | | 0.020 | 0.0045 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 2-Chlorotoluene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 2-Hexanone | ND | | 0.020 | 0.0031 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 4-Chlorotoluene | ND | | 0.0010 | 0.00024 | mg/Kg | | | 04/13/21 22:42 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.020 | 0.0029 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Acetone | ND | | 0.020 | 0.0098 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Benzene | ND | | 0.0010 | 0.00026 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Bromobenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Bromochloromethane | ND | | 0.0020 | 0.00044 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Bromodichloromethane | ND | | 0.0010 | 0.00016 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Bromoform | ND | | 0.0050 | 0.0013 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Bromomethane | ND | | 0.020 | 0.0066 | mg/Kg | | | 04/13/21 22:42 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.0010 | 0.00034 | mg/Kg | | | 04/13/21 22:42 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.0010 | 0.00035 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Carbon disulfide | ND | | 0.010 | 0.00040 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Carbon tetrachloride | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Chlorobenzene | ND | | 0.0010 | 0.00027 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Chloroethane | ND | | 0.0020 | 0.0015 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Chloroform | ND | | 0.0010 | 0.00059 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Chloromethane | ND | | 0.020 | 0.0015 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Dibromochloromethane | ND | | 0.0020 | 0.00027 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Dibromomethane | ND | | 0.0010 | 0.00031 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Dichlorodifluoromethane | ND | | 0.0020 | 0.00045 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Ethylbenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Isopropylbenzene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Methylene Chloride | ND | | 0.010 | 0.0031 | mg/Kg | | | 04/13/21 22:42 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-143036/8**
**Matrix: Solid**
**Analysis Batch: 143036**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0020 | 0.00019 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Naphthalene | ND | | 0.010 | 0.0052 | mg/Kg | | | 04/13/21 22:42 | 1 |
| n-Butylbenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/13/21 22:42 | 1 |
| N-Propylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/13/21 22:42 | 1 |
| o-Xylene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/13/21 22:42 | 1 |
| m,p-Xylene | ND | | 0.0020 | 0.00047 | mg/Kg | | | 04/13/21 22:42 | 1 |
| p-Isopropyltoluene | ND | | 0.0010 | 0.00070 | mg/Kg | | | 04/13/21 22:42 | 1 |
| sec-Butylbenzene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Styrene | ND | | 0.0010 | 0.00070 | mg/Kg | | | 04/13/21 22:42 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/13/21 22:42 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0020 | 0.00028 | mg/Kg | | | 04/13/21 22:42 | 1 |
| tert-Butylbenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Tetrachloroethene | ND | | 0.0010 | 0.00022 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Toluene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Trichloroethene | ND | | 0.0020 | 0.00039 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Trichlorofluoromethane | ND | | 0.010 | 0.00027 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Vinyl acetate | ND | | 0.010 | 0.0039 | mg/Kg | | | 04/13/21 22:42 | 1 |
| Vinyl chloride | ND | | 0.0010 | 0.00038 | mg/Kg | | | 04/13/21 22:42 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *80 - 142* | | *04/13/21 22:42* | *1* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *80 - 120* | | *04/13/21 22:42* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *80 - 123* | | *04/13/21 22:42* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | | *04/13/21 22:42* | *1* |

**Lab Sample ID: LCS 570-143036/3**
**Matrix: Solid**
**Analysis Batch: 143036**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.0500 | 0.0503 | | mg/Kg | | 101 | 67 - 122 |
| 1,2-Dibromoethane | 0.0500 | 0.0500 | | mg/Kg | | 100 | 80 - 123 |
| 1,2-Dichlorobenzene | 0.0500 | 0.0494 | | mg/Kg | | 99 | 80 - 120 |
| 1,2-Dichloroethane | 0.0500 | 0.0444 | | mg/Kg | | 89 | 80 - 125 |
| Benzene | 0.0500 | 0.0491 | | mg/Kg | | 98 | 79 - 120 |
| Carbon tetrachloride | 0.0500 | 0.0494 | | mg/Kg | | 99 | 69 - 132 |
| Chlorobenzene | 0.0500 | 0.0494 | | mg/Kg | | 99 | 80 - 120 |
| Ethylbenzene | 0.0500 | 0.0488 | | mg/Kg | | 98 | 80 - 120 |
| Methyl-t-Butyl Ether (MTBE) | 0.0500 | 0.0470 | | mg/Kg | | 94 | 68 - 120 |
| o-Xylene | 0.0500 | 0.0498 | | mg/Kg | | 100 | 79 - 120 |
| m,p-Xylene | 0.100 | 0.0958 | | mg/Kg | | 96 | 79 - 120 |
| Toluene | 0.0500 | 0.0498 | | mg/Kg | | 100 | 80 - 120 |
| Trichloroethene | 0.0500 | 0.0487 | | mg/Kg | | 97 | 80 - 121 |
| Vinyl chloride | 0.0500 | 0.0519 | | mg/Kg | | 104 | 66 - 128 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *96* | | *80 - 142* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *80 - 120* |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 570-143036/3**
**Matrix: Solid**
**Analysis Batch: 143036**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *104* | | *80 - 123* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* |

**Lab Sample ID: LCSD 570-143036/4**
**Matrix: Solid**
**Analysis Batch: 143036**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | | | 0.0500 | 0.0505 | | mg/Kg | | 101 | 67 - 122 | 0 | 20 |
| 1,2-Dibromoethane | | | 0.0500 | 0.0517 | | mg/Kg | | 103 | 80 - 123 | 3 | 20 |
| 1,2-Dichlorobenzene | | | 0.0500 | 0.0505 | | mg/Kg | | 101 | 80 - 120 | 2 | 20 |
| 1,2-Dichloroethane | | | 0.0500 | 0.0452 | | mg/Kg | | 90 | 80 - 125 | 2 | 20 |
| Benzene | | | 0.0500 | 0.0499 | | mg/Kg | | 100 | 79 - 120 | 2 | 20 |
| Carbon tetrachloride | | | 0.0500 | 0.0495 | | mg/Kg | | 99 | 69 - 132 | 0 | 20 |
| Chlorobenzene | | | 0.0500 | 0.0508 | | mg/Kg | | 102 | 80 - 120 | 3 | 20 |
| Ethylbenzene | | | 0.0500 | 0.0496 | | mg/Kg | | 99 | 80 - 120 | 2 | 20 |
| Methyl-t-Butyl Ether (MTBE) | | | 0.0500 | 0.0478 | | mg/Kg | | 96 | 68 - 120 | 2 | 20 |
| o-Xylene | | | 0.0500 | 0.0505 | | mg/Kg | | 101 | 79 - 120 | 1 | 20 |
| m,p-Xylene | | | 0.100 | 0.0976 | | mg/Kg | | 98 | 79 - 120 | 2 | 20 |
| Toluene | | | 0.0500 | 0.0507 | | mg/Kg | | 101 | 80 - 120 | 2 | 20 |
| Trichloroethene | | | 0.0500 | 0.0506 | | mg/Kg | | 101 | 80 - 121 | 4 | 20 |
| Vinyl chloride | | | 0.0500 | 0.0519 | | mg/Kg | | 104 | 66 - 128 | 0 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *94* | | *80 - 142* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *103* | | *80 - 123* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 570-143218/1-A**
**Matrix: Solid**
**Analysis Batch: 143531**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 143218**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/14/21 13:35 | 04/15/21 14:35 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/14/21 13:35 | 04/15/21 14:35 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/14/21 13:35 | 04/15/21 14:35 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/14/21 13:35 | 04/15/21 14:35 | 1 |
| Anthracene | ND | | 0.50 | 0.051 | mg/Kg | | 04/14/21 13:35 | 04/15/21 14:35 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.046 | mg/Kg | | 04/14/21 13:35 | 04/15/21 14:35 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/14/21 13:35 | 04/15/21 14:35 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.080 | mg/Kg | | 04/14/21 13:35 | 04/15/21 14:35 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/14/21 13:35 | 04/15/21 14:35 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/14/21 13:35 | 04/15/21 14:35 | 1 |
| Chrysene | ND | | 0.50 | 0.068 | mg/Kg | | 04/14/21 13:35 | 04/15/21 14:35 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/14/21 13:35 | 04/15/21 14:35 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-143218/1-A**
**Matrix: Solid**
**Analysis Batch: 143531**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 143218**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/14/21 13:35 | 04/15/21 14:35 | 1 |
| Fluorene | ND | | 0.50 | 0.067 | mg/Kg | | 04/14/21 13:35 | 04/15/21 14:35 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/14/21 13:35 | 04/15/21 14:35 | 1 |
| Naphthalene | ND | | 0.50 | 0.058 | mg/Kg | | 04/14/21 13:35 | 04/15/21 14:35 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/14/21 13:35 | 04/15/21 14:35 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/14/21 13:35 | 04/15/21 14:35 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *90* | | *10 - 134* | *04/14/21 13:35* | *04/15/21 14:35* | *1* |
| *2-Fluorobiphenyl (Surr)* | *92* | | *14 - 142* | *04/14/21 13:35* | *04/15/21 14:35* | *1* |
| *2-Fluorophenol (Surr)* | *86* | | *10 - 123* | *04/14/21 13:35* | *04/15/21 14:35* | *1* |
| *Nitrobenzene-d5 (Surr)* | *85* | | *10 - 129* | *04/14/21 13:35* | *04/15/21 14:35* | *1* |
| *Phenol-d6 (Surr)* | *80* | | *10 - 120* | *04/14/21 13:35* | *04/15/21 14:35* | *1* |
| *p-Terphenyl-d14 (Surr)* | *94* | | *31 - 139* | *04/14/21 13:35* | *04/15/21 14:35* | *1* |

**Lab Sample ID: LCS 570-143218/2-A**
**Matrix: Solid**
**Analysis Batch: 143531**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 143218**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | | | 5.00 | 4.66 | | mg/Kg | | 93 | 64 - 120 | | |
| Acenaphthylene | | | 5.00 | 5.25 | | mg/Kg | | 105 | 69 - 126 | | |
| Fluorene | | | 5.00 | 4.61 | | mg/Kg | | 92 | 68 - 120 | | |
| Naphthalene | | | 5.00 | 4.25 | | mg/Kg | | 85 | 66 - 120 | | |
| Pyrene | | | 5.00 | 4.92 | | mg/Kg | | 98 | 72 - 120 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *92* | | *10 - 134* |
| *2-Fluorobiphenyl (Surr)* | *91* | | *14 - 142* |
| *2-Fluorophenol (Surr)* | *88* | | *10 - 123* |
| *Nitrobenzene-d5 (Surr)* | *77* | | *10 - 129* |
| *Phenol-d6 (Surr)* | *82* | | *10 - 120* |
| *p-Terphenyl-d14 (Surr)* | *94* | | *31 - 139* |

**Lab Sample ID: LCSD 570-143218/3-A**
**Matrix: Solid**
**Analysis Batch: 143531**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 143218**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | | | 5.00 | 4.62 | | mg/Kg | | 92 | 64 - 120 | 1 | 20 |
| Acenaphthylene | | | 5.00 | 5.16 | | mg/Kg | | 103 | 69 - 126 | 2 | 20 |
| Fluorene | | | 5.00 | 4.60 | | mg/Kg | | 92 | 68 - 120 | 0 | 20 |
| Naphthalene | | | 5.00 | 4.22 | | mg/Kg | | 84 | 66 - 120 | 1 | 20 |
| Pyrene | | | 5.00 | 4.83 | | mg/Kg | | 97 | 72 - 120 | 2 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *95* | | *10 - 134* |
| *2-Fluorobiphenyl (Surr)* | *90* | | *14 - 142* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 570-143218/3-A**
**Matrix: Solid**
**Analysis Batch: 143531**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 143218**

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorophenol (Surr)* | *87* | | *10 - 123* |
| *Nitrobenzene-d5 (Surr)* | *76* | | *10 - 129* |
| *Phenol-d6 (Surr)* | *78* | | *10 - 120* |
| *p-Terphenyl-d14 (Surr)* | *93* | | *31 - 139* |

**Lab Sample ID: 570-56328-1 MS**
**Matrix: Solid**
**Analysis Batch: 143489**

**Client Sample ID: TW-3-5.0**
**Prep Type: Total/NA**
**Prep Batch: 143218**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 5.00 | 3.64 | | mg/Kg | | 73 | 51 - 125 |
| Acenaphthylene | ND | | 5.00 | 4.14 | | mg/Kg | | 83 | 54 - 125 |
| Fluorene | ND | | 5.00 | 3.90 | | mg/Kg | | 78 | 54 - 125 |
| Naphthalene | ND | | 5.00 | 3.83 | | mg/Kg | | 77 | 39 - 127 |
| Pyrene | ND | | 5.00 | 4.68 | | mg/Kg | | 94 | 56 - 125 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *81* | | *10 - 134* |
| *2-Fluorobiphenyl (Surr)* | *71* | | *14 - 142* |
| *2-Fluorophenol (Surr)* | *64* | | *10 - 123* |
| *Nitrobenzene-d5 (Surr)* | *68* | | *10 - 129* |
| *Phenol-d6 (Surr)* | *69* | | *10 - 120* |
| *p-Terphenyl-d14 (Surr)* | *93* | | *31 - 139* |

**Lab Sample ID: 570-56328-1 MSD**
**Matrix: Solid**
**Analysis Batch: 143489**

**Client Sample ID: TW-3-5.0**
**Prep Type: Total/NA**
**Prep Batch: 143218**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 5.01 | 3.99 | | mg/Kg | | 80 | 51 - 125 | 9 | 20 |
| Acenaphthylene | ND | | 5.01 | 4.35 | | mg/Kg | | 87 | 54 - 125 | 5 | 20 |
| Fluorene | ND | | 5.01 | 4.30 | | mg/Kg | | 86 | 54 - 125 | 10 | 20 |
| Naphthalene | ND | | 5.01 | 4.04 | | mg/Kg | | 81 | 39 - 127 | 5 | 20 |
| Pyrene | ND | | 5.01 | 4.86 | | mg/Kg | | 97 | 56 - 125 | 4 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *87* | | *10 - 134* |
| *2-Fluorobiphenyl (Surr)* | *79* | | *14 - 142* |
| *2-Fluorophenol (Surr)* | *68* | | *10 - 123* |
| *Nitrobenzene-d5 (Surr)* | *71* | | *10 - 129* |
| *Phenol-d6 (Surr)* | *76* | | *10 - 120* |
| *p-Terphenyl-d14 (Surr)* | *99* | | *31 - 139* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: MB 570-143447/35**
**Matrix: Solid**
**Analysis Batch: 143447**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.10 | 0.056 | mg/Kg | | | 04/15/21 22:56 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *84* | | *42 - 126* | | *04/15/21 22:56* | *1* |

**Lab Sample ID: LCS 570-143447/33**
**Matrix: Solid**
**Analysis Batch: 143447**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C4-C13) | | | 1.99 | 1.89 | | mg/Kg | | 95 | 70 - 124 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *42 - 126* |

**Lab Sample ID: LCSD 570-143447/34**
**Matrix: Solid**
**Analysis Batch: 143447**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C4-C13) | | | 1.99 | 1.96 | | mg/Kg | | 99 | 70 - 124 | 4 | 18 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *42 - 126* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 570-144427/1-A**
**Matrix: Solid**
**Analysis Batch: 144294**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144427**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 5.0 | 3.8 | mg/Kg | | 04/19/21 19:51 | 04/19/21 23:09 | 1 |
| C23-C40 | ND | | 5.0 | 3.8 | mg/Kg | | 04/19/21 19:51 | 04/19/21 23:09 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *105* | | *60 - 138* | *04/19/21 19:51* | *04/19/21 23:09* | *1* |

**Lab Sample ID: LCS 570-144427/2-A**
**Matrix: Solid**
**Analysis Batch: 144294**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144427**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 400 | 431 | | mg/Kg | | 108 | 80 - 130 | | |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: LCS 570-144427/2-A**
**Matrix: Solid**
**Analysis Batch: 144294**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144427**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *n-Octacosane (Surr)* | *96* | | *60 - 138* |

**Lab Sample ID: LCSD 570-144427/3-A**
**Matrix: Solid**
**Analysis Batch: 144294**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144427**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 400 | 416 | | mg/Kg | | 104 | 80 - 130 | 4 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| *n-Octacosane (Surr)* | *91* | | *60 - 138* |

**Lab Sample ID: 320-72426-A-5-F MS**
**Matrix: Solid**
**Analysis Batch: 144294**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 144427**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 400 | 395 | | mg/Kg | | 99 | 43 - 165 | | |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| *n-Octacosane (Surr)* | *88* | | *60 - 138* |

**Lab Sample ID: 320-72426-A-5-G MSD**
**Matrix: Solid**
**Analysis Batch: 144294**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 144427**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 393 | 381 | | mg/Kg | | 97 | 43 - 165 | 4 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| *n-Octacosane (Surr)* | *82* | | *60 - 138* |

## GC/MS VOA

### Prep Batch: 143028

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56328-1 | TW-3-5.0 | Total/NA | Solid | 5035 | |
| 570-56328-2 | TW-3-10 | Total/NA | Solid | 5035 | |
| 570-56328-3 | TW-3-20 | Total/NA | Solid | 5035 | |
| 570-56328-4 | TW-3-30 | Total/NA | Solid | 5035 | |
| 570-56328-5 | TW-3-40 | Total/NA | Solid | 5035 | |
| 570-56328-6 | TW-1-5.0 | Total/NA | Solid | 5035 | |
| 570-56328-7 | TW-2-5.0 | Total/NA | Solid | 5035 | |
| 570-56328-8 | SB-1-5.0 | Total/NA | Solid | 5035 | |
| 570-56328-9 | SB-2-5.0 | Total/NA | Solid | 5035 | |
| 570-56328-10 | SB-3-5.0 | Total/NA | Solid | 5035 | |

### Analysis Batch: 143036

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56328-1 | TW-3-5.0 | Total/NA | Solid | 8260B | 143028 |
| 570-56328-2 | TW-3-10 | Total/NA | Solid | 8260B | 143028 |
| 570-56328-3 | TW-3-20 | Total/NA | Solid | 8260B | 143028 |
| 570-56328-4 | TW-3-30 | Total/NA | Solid | 8260B | 143028 |
| 570-56328-5 | TW-3-40 | Total/NA | Solid | 8260B | 143028 |
| 570-56328-6 | TW-1-5.0 | Total/NA | Solid | 8260B | 143028 |
| 570-56328-7 | TW-2-5.0 | Total/NA | Solid | 8260B | 143028 |
| 570-56328-8 | SB-1-5.0 | Total/NA | Solid | 8260B | 143028 |
| 570-56328-9 | SB-2-5.0 | Total/NA | Solid | 8260B | 143028 |
| 570-56328-10 | SB-3-5.0 | Total/NA | Solid | 8260B | 143028 |
| MB 570-143036/8 | Method Blank | Total/NA | Solid | 8260B | |
| LCS 570-143036/3 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 570-143036/4 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |

## GC/MS Semi VOA

### Prep Batch: 143218

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56328-1 | TW-3-5.0 | Total/NA | Solid | 3546 | |
| 570-56328-2 | TW-3-10 | Total/NA | Solid | 3546 | |
| 570-56328-6 | TW-1-5.0 | Total/NA | Solid | 3546 | |
| 570-56328-7 | TW-2-5.0 | Total/NA | Solid | 3546 | |
| 570-56328-8 | SB-1-5.0 | Total/NA | Solid | 3546 | |
| 570-56328-9 | SB-2-5.0 | Total/NA | Solid | 3546 | |
| 570-56328-10 | SB-3-5.0 | Total/NA | Solid | 3546 | |
| MB 570-143218/1-A | Method Blank | Total/NA | Solid | 3546 | |
| LCS 570-143218/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| LCSD 570-143218/3-A | Lab Control Sample Dup | Total/NA | Solid | 3546 | |
| 570-56328-1 MS | TW-3-5.0 | Total/NA | Solid | 3546 | |
| 570-56328-1 MSD | TW-3-5.0 | Total/NA | Solid | 3546 | |

### Analysis Batch: 143489

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56328-1 | TW-3-5.0 | Total/NA | Solid | 8270C | 143218 |
| 570-56328-2 | TW-3-10 | Total/NA | Solid | 8270C | 143218 |
| 570-56328-6 | TW-1-5.0 | Total/NA | Solid | 8270C | 143218 |
| 570-56328-7 | TW-2-5.0 | Total/NA | Solid | 8270C | 143218 |
| 570-56328-8 | SB-1-5.0 | Total/NA | Solid | 8270C | 143218 |

## GC/MS Semi VOA (Continued)

### Analysis Batch: 143489 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56328-1 MS | TW-3-5.0 | Total/NA | Solid | 8270C | 143218 |
| 570-56328-1 MSD | TW-3-5.0 | Total/NA | Solid | 8270C | 143218 |

### Analysis Batch: 143531

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56328-9 | SB-2-5.0 | Total/NA | Solid | 8270C | 143218 |
| 570-56328-10 | SB-3-5.0 | Total/NA | Solid | 8270C | 143218 |
| MB 570-143218/1-A | Method Blank | Total/NA | Solid | 8270C | 143218 |
| LCS 570-143218/2-A | Lab Control Sample | Total/NA | Solid | 8270C | 143218 |
| LCSD 570-143218/3-A | Lab Control Sample Dup | Total/NA | Solid | 8270C | 143218 |

## GC VOA

### Prep Batch: 143028

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56328-1 | TW-3-5.0 | Total/NA | Solid | 5035 | |
| 570-56328-2 | TW-3-10 | Total/NA | Solid | 5035 | |
| 570-56328-3 | TW-3-20 | Total/NA | Solid | 5035 | |
| 570-56328-4 | TW-3-30 | Total/NA | Solid | 5035 | |
| 570-56328-5 | TW-3-40 | Total/NA | Solid | 5035 | |
| 570-56328-6 | TW-1-5.0 | Total/NA | Solid | 5035 | |
| 570-56328-7 | TW-2-5.0 | Total/NA | Solid | 5035 | |
| 570-56328-8 | SB-1-5.0 | Total/NA | Solid | 5035 | |
| 570-56328-9 | SB-2-5.0 | Total/NA | Solid | 5035 | |
| 570-56328-10 | SB-3-5.0 | Total/NA | Solid | 5035 | |

### Analysis Batch: 143447

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56328-1 | TW-3-5.0 | Total/NA | Solid | 8015B | 143028 |
| 570-56328-2 | TW-3-10 | Total/NA | Solid | 8015B | 143028 |
| 570-56328-3 | TW-3-20 | Total/NA | Solid | 8015B | 143028 |
| 570-56328-4 | TW-3-30 | Total/NA | Solid | 8015B | 143028 |
| 570-56328-5 | TW-3-40 | Total/NA | Solid | 8015B | 143028 |
| 570-56328-6 | TW-1-5.0 | Total/NA | Solid | 8015B | 143028 |
| 570-56328-7 | TW-2-5.0 | Total/NA | Solid | 8015B | 143028 |
| 570-56328-8 | SB-1-5.0 | Total/NA | Solid | 8015B | 143028 |
| 570-56328-9 | SB-2-5.0 | Total/NA | Solid | 8015B | 143028 |
| 570-56328-10 | SB-3-5.0 | Total/NA | Solid | 8015B | 143028 |
| MB 570-143447/35 | Method Blank | Total/NA | Solid | 8015B | |
| LCS 570-143447/33 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 570-143447/34 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |

## GC Semi VOA

### Analysis Batch: 144294

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56328-1 | TW-3-5.0 | Total/NA | Solid | 8015B | 144427 |
| 570-56328-2 | TW-3-10 | Total/NA | Solid | 8015B | 144427 |
| 570-56328-6 | TW-1-5.0 | Total/NA | Solid | 8015B | 144427 |
| 570-56328-7 | TW-2-5.0 | Total/NA | Solid | 8015B | 144427 |
| 570-56328-8 | SB-1-5.0 | Total/NA | Solid | 8015B | 144427 |
| 570-56328-9 | SB-2-5.0 | Total/NA | Solid | 8015B | 144427 |

## GC Semi VOA (Continued)

### Analysis Batch: 144294 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56328-10 | SB-3-5.0 | Total/NA | Solid | 8015B | 144427 |
| MB 570-144427/1-A | Method Blank | Total/NA | Solid | 8015B | 144427 |
| LCS 570-144427/2-A | Lab Control Sample | Total/NA | Solid | 8015B | 144427 |
| LCSD 570-144427/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B | 144427 |
| 320-72426-A-5-F MS | Matrix Spike | Total/NA | Solid | 8015B | 144427 |
| 320-72426-A-5-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B | 144427 |

### Prep Batch: 144427

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56328-1 | TW-3-5.0 | Total/NA | Solid | 3550C | |
| 570-56328-2 | TW-3-10 | Total/NA | Solid | 3550C | |
| 570-56328-6 | TW-1-5.0 | Total/NA | Solid | 3550C | |
| 570-56328-7 | TW-2-5.0 | Total/NA | Solid | 3550C | |
| 570-56328-8 | SB-1-5.0 | Total/NA | Solid | 3550C | |
| 570-56328-9 | SB-2-5.0 | Total/NA | Solid | 3550C | |
| 570-56328-10 | SB-3-5.0 | Total/NA | Solid | 3550C | |
| MB 570-144427/1-A | Method Blank | Total/NA | Solid | 3550C | |
| LCS 570-144427/2-A | Lab Control Sample | Total/NA | Solid | 3550C | |
| LCSD 570-144427/3-A | Lab Control Sample Dup | Total/NA | Solid | 3550C | |
| 320-72426-A-5-F MS | Matrix Spike | Total/NA | Solid | 3550C | |
| 320-72426-A-5-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 3550C | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56328-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: TW-3-5.0
**Lab Sample ID: 570-56328-1**
**Date Collected: 04/12/21 08:40**
**Matrix: Solid**
**Date Received: 04/13/21 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.423 g | 5 g | 143028 | 04/13/21 18:21 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143036 | 04/14/21 00:43 | BE5H | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.08 g | 2 mL | 143218 | 04/14/21 13:35 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 143489 | 04/15/21 18:05 | N8CZ | ECL 1 |
| | Instrument ID: GCMSSS | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 4.894 g | 5 g | 143028 | 04/13/21 18:21 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143447 | 04/16/21 10:30 | A1W | ECL 2 |
| | Instrument ID: GC22 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 10.05 g | 10 mL | 144427 | 04/19/21 19:51 | EM5C | ECL 1 |
| Total/NA | Analysis | 8015B | | 2 | | | 144294 | 04/20/21 11:38 | A1W | ECL 1 |
| | Instrument ID: GC48 | | | | | | | | | |

## Client Sample ID: TW-3-10
**Lab Sample ID: 570-56328-2**
**Date Collected: 04/12/21 09:00**
**Matrix: Solid**
**Date Received: 04/13/21 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.312 g | 5 g | 143028 | 04/13/21 18:21 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143036 | 04/14/21 01:08 | BE5H | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 19.88 g | 2 mL | 143218 | 04/14/21 13:35 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 143489 | 04/15/21 18:24 | N8CZ | ECL 1 |
| | Instrument ID: GCMSSS | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.763 g | 5 g | 143028 | 04/13/21 18:21 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143447 | 04/16/21 10:54 | A1W | ECL 2 |
| | Instrument ID: GC22 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 10.01 g | 10 mL | 144427 | 04/19/21 19:51 | EM5C | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 144294 | 04/20/21 12:00 | A1W | ECL 1 |
| | Instrument ID: GC48 | | | | | | | | | |

## Client Sample ID: TW-3-20
**Lab Sample ID: 570-56328-3**
**Date Collected: 04/12/21 09:15**
**Matrix: Solid**
**Date Received: 04/13/21 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.13 g | 5 g | 143028 | 04/13/21 18:21 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143036 | 04/14/21 01:33 | BE5H | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 7.024 g | 5 g | 143028 | 04/13/21 18:21 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143447 | 04/16/21 11:18 | A1W | ECL 2 |
| | Instrument ID: GC22 | | | | | | | | | |

## Client Sample ID: TW-3-30
**Lab Sample ID: 570-56328-4**
**Date Collected: 04/12/21 09:25**
**Matrix: Solid**
**Date Received: 04/13/21 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.633 g | 5 g | 143028 | 04/13/21 18:21 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143036 | 04/14/21 01:59 | BE5H | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 7.012 g | 5 g | 143028 | 04/13/21 18:21 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143447 | 04/16/21 11:42 | A1W | ECL 2 |
| | Instrument ID: GC22 | | | | | | | | | |

## Client Sample ID: TW-3-40
**Lab Sample ID: 570-56328-5**
**Date Collected: 04/12/21 10:50**
**Matrix: Solid**
**Date Received: 04/13/21 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.853 g | 5 g | 143028 | 04/13/21 18:21 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143036 | 04/14/21 02:24 | BE5H | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.761 g | 5 g | 143028 | 04/13/21 18:21 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143447 | 04/16/21 12:06 | A1W | ECL 2 |
| | Instrument ID: GC22 | | | | | | | | | |

## Client Sample ID: TW-1-5.0
**Lab Sample ID: 570-56328-6**
**Date Collected: 04/12/21 10:55**
**Matrix: Solid**
**Date Received: 04/13/21 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.412 g | 5 g | 143028 | 04/13/21 18:21 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143036 | 04/14/21 02:49 | BE5H | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.23 g | 2 mL | 143218 | 04/14/21 13:39 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 143489 | 04/15/21 18:43 | N8CZ | ECL 1 |
| | Instrument ID: GCMSSS | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 5.703 g | 5 g | 143028 | 04/13/21 18:21 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143447 | 04/16/21 12:31 | A1W | ECL 2 |
| | Instrument ID: GC22 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 10.13 g | 10 mL | 144427 | 04/19/21 19:51 | EM5C | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 144294 | 04/20/21 12:20 | A1W | ECL 1 |
| | Instrument ID: GC48 | | | | | | | | | |

## Client Sample ID: TW-2-5.0
**Lab Sample ID: 570-56328-7**
**Date Collected: 04/12/21 11:00**
**Matrix: Solid**
**Date Received: 04/13/21 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.442 g | 5 g | 143028 | 04/13/21 18:21 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143036 | 04/14/21 03:14 | BE5H | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |

## Client Sample ID: TW-2-5.0
**Lab Sample ID: 570-56328-7**
**Date Collected: 04/12/21 11:00**
**Matrix: Solid**
**Date Received: 04/13/21 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 19.90 g | 2 mL | 143218 | 04/14/21 13:39 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 143489 | 04/15/21 22:50 | N8CZ | ECL 1 |
| | Instrument ID: GCMSSS | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 5.387 g | 5 g | 143028 | 04/13/21 18:21 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143447 | 04/16/21 12:55 | A1W | ECL 2 |
| | Instrument ID: GC22 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 10.02 g | 10 mL | 144427 | 04/19/21 19:51 | EM5C | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 144294 | 04/20/21 12:42 | A1W | ECL 1 |
| | Instrument ID: GC48 | | | | | | | | | |

## Client Sample ID: SB-1-5.0
**Lab Sample ID: 570-56328-8**
**Date Collected: 04/12/21 13:35**
**Matrix: Solid**
**Date Received: 04/13/21 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.505 g | 5 g | 143028 | 04/13/21 18:21 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143036 | 04/14/21 03:39 | BE5H | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.04 g | 2 mL | 143218 | 04/14/21 13:39 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 143489 | 04/15/21 23:09 | N8CZ | ECL 1 |
| | Instrument ID: GCMSSS | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 5.349 g | 5 g | 143028 | 04/13/21 18:21 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143447 | 04/16/21 13:19 | A1W | ECL 2 |
| | Instrument ID: GC22 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 10.10 g | 10 mL | 144427 | 04/19/21 19:51 | EM5C | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 144294 | 04/20/21 13:02 | A1W | ECL 1 |
| | Instrument ID: GC48 | | | | | | | | | |

## Client Sample ID: SB-2-5.0
**Lab Sample ID: 570-56328-9**
**Date Collected: 04/12/21 14:00**
**Matrix: Solid**
**Date Received: 04/13/21 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.767 g | 5 g | 143028 | 04/13/21 18:21 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143036 | 04/14/21 04:04 | BE5H | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.06 g | 2 mL | 143218 | 04/14/21 13:39 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 143531 | 04/15/21 17:38 | N8CZ | ECL 1 |
| | Instrument ID: GCMSCCC | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 5.478 g | 5 g | 143028 | 04/13/21 18:21 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143447 | 04/16/21 13:44 | A1W | ECL 2 |
| | Instrument ID: GC22 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 9.90 g | 10 mL | 144427 | 04/19/21 19:51 | EM5C | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 144294 | 04/20/21 13:44 | A1W | ECL 1 |
| | Instrument ID: GC48 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56328-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SB-3-5.0
**Lab Sample ID: 570-56328-10**

**Date Collected: 04/12/21 14:10**
**Matrix: Solid**

**Date Received: 04/13/21 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.489 g | 5 g | 143028 | 04/13/21 18:21 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143036 | 04/14/21 04:30 | BE5H | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 19.94 g | 2 mL | 143218 | 04/14/21 13:39 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 143531 | 04/15/21 17:56 | N8CZ | ECL 1 |
| | Instrument ID: GCMSCCC | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 5.357 g | 5 g | 143028 | 04/13/21 18:21 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143447 | 04/16/21 14:08 | A1W | ECL 2 |
| | Instrument ID: GC22 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 9.91 g | 10 mL | 144427 | 04/19/21 19:51 | EM5C | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 144294 | 04/20/21 14:05 | A1W | ECL 1 |
| | Instrument ID: GC48 | | | | | | | | | |

**Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

# Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56328-1
Project/Site: Chevron 206145 Oakland Center Street

## Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Arkansas DEQ | State | 88-0161 | 11-19-21 |
| California | Los Angeles County Sanitation Districts | 10109 | 09-30-21 |
| California | SCAQMD LAP | 17LA0919 | 11-30-21 |
| California | State | 2944 | 09-30-21 |
| Guam | State | 20-003R | 10-31-20 * |
| Nevada | State | CA00111 | 07-31-21 |
| Oregon | NELAP | CA300001 | 01-30-22 |
| USDA | US Federal Programs | P330-20-00034 | 02-10-23 |
| Washington | State | C916-18 | 10-11-21 |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56328-1
Project/Site: Chevron 206145 Oakland Center Street

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | ECL 2 |
| 8270C | Semivolatile Organic Compounds (GC/MS) | SW846 | ECL 1 |
| 8015B | Gasoline Range Organics - (GC) | SW846 | ECL 2 |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | ECL 1 |
| 3546 | Microwave Extraction | SW846 | ECL 1 |
| 3550C | Ultrasonic Extraction | SW846 | ECL 1 |
| 5035 | Closed System Purge and Trap | SW846 | ECL 2 |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

ECL 1 = Eurofins Calscience LLC  Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC  Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

# Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145 Oakland Center Street

Job ID: 570-56328-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 570-56328-1 | TW-3-5.0 | Solid | 04/12/21 08:40 | 04/13/21 10:00 | |
| 570-56328-2 | TW-3-10 | Solid | 04/12/21 09:00 | 04/13/21 10:00 | |
| 570-56328-3 | TW-3-20 | Solid | 04/12/21 09:15 | 04/13/21 10:00 | |
| 570-56328-4 | TW-3-30 | Solid | 04/12/21 09:25 | 04/13/21 10:00 | |
| 570-56328-5 | TW-3-40 | Solid | 04/12/21 10:50 | 04/13/21 10:00 | |
| 570-56328-6 | TW-1-5.0 | Solid | 04/12/21 10:55 | 04/13/21 10:00 | |
| 570-56328-7 | TW-2-5.0 | Solid | 04/12/21 11:00 | 04/13/21 10:00 | |
| 570-56328-8 | SB-1-5.0 | Solid | 04/12/21 13:35 | 04/13/21 10:00 | |
| 570-56328-9 | SB-2-5.0 | Solid | 04/12/21 14:00 | 04/13/21 10:00 | |
| 570-56328-10 | SB-3-5.0 | Solid | 04/12/21 14:10 | 04/13/21 10:00 | |

56328

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570-56328 Chain of Custody

# CHAIN OF CUSTODY RECORD

DATE: 4/12/21

PAGE: 1 OF 2

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus com or call us.

LABORATORY CLIENT: Arcadis U S Inc

ADDRESS: 2300 Clayton Rd Ste 400

CITY: Concord STATE: CA ZIP: 94520

TEL: 609-216-8139 E-MAIL: Nicholas Cardella@arcadis com

CLIENT PROJECT NAME / NUMBER: Chevron 206145

PO NO: 30045659

PROJECT CONTACT: Nicholas Cardella

SAMPLER(S) (PRINT): Radley A. and Mia J

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD')

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE

SPECIAL INSTRUCTIONS

## REQUESTED ANALYSES

Please check box or fill in blank as needed

| LAB USE ONLY | SAMPLE ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered | TPH-g by USEPA Method 8015 Modified | TPH-d by USEPA Method 8015 Modified | Full list VOCS by USEPA Method 8260B | PAHs and Naphthalene by USEPA Method 8270B | Lead by USEPA Method 6010B | Asbestos - CARB 435A | PCBs by USEPA Method 8082 with 541-Automated Soxhlet Extraction | OCPs by USEPA Method 8081A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | TW-3-5.0 | 4/12/21 | 0840 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 2 | TW-3-10 | | 0900 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 3 | TW-3-20 | | 0915 | Soil | 5 | | X | | X | X | X | | | | | |
| 4 | TW-3-30 | | 0925 | Soil | 5 | | X | | X | X | X | | | | | |
| 5 | TW-3-40 | | 1050 | Soil | 5 | | X | | X | X | X | | | | | |
| MS | ~~TW-3-50~~ | | | Soil | 5 | | X | | X | X | X | | | | | |
| MSD | ~~TW-3-60~~ | | | Soil | 5 | | X | | X | X | X | | | | | |
| 6 | TW-1-5.0 | | 1055 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 7 | TW-2-5.0 | | 1100 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 8 | SB-1-5.0 | | 1335 | Soil | 6 | X | X | | X | X | X | X | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: 4/12/21 | Time: 1415 |
| Relinquished by: (Signature) to 650 4/12/21 1680 | Received by: (Signature/Affiliation) | Date: 4/13/21 | Time: 10:00 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date | Time |

4-1 | 3-5 SCS

06/02/14 Revision



4/27/2021

56328

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For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

# CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 4/12/21

PAGE: 2 OF 2

LABORATORY CLIENT: Arcadis U S Inc

ADDRESS: 2300 Clayton Rd Ste 400

CITY: Concord STATE: CA ZIP: 94520

TEL: 609-216-8139 E-MAIL: Nicholas.Cardella@arcadis.com

CLIENT PROJECT NAME / NUMBER: Chevron 206145

PO NO: 30045659

PROJECT CONTACT: Nicholas Cardella

SAMPLER(S) (PRINT): Radley A. and Mia J

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD')

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF

GLOBAL ID:

LOG CODE:

SPECIAL INSTRUCTIONS:

## REQUESTED ANALYSES

Please check box or fill in blank as needed

| LAB USE ONLY | SAMPLE ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered | TPH-g by USEPA Method 8015 Modified | TPH-d by USEPA Method 8015 Modified | Full list VOCs by USEPA Method 8260B | PAHs and Naphthalene by USEPA Method 8270B | Lead by USEPA Method 6010B | Asbestos - CARB 435A | PCBs by USEPA Method 8082 with 541-Automated Soxhlet Extraction | OCPs by USEPA Method 8081A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | SB-2-5.0 | 4/12/21 | 1400 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 10 | SB-3-5.0 | 4/12/21 | 1410 | Soil | 6 | X | X | | X | X | X | X | | | | |
| | | | | Soil | | | | | | | | | | | | |
| | | | | Soil | | | | | | | | | | | | |
| | | | | Soil | | | | | | | | | | | | |
| | | | | Soil | | | | | | | | | | | | |
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| | | | | Soil | | | | | | | | | | | | |
| | | | | Soil | | | | | | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: 4/12/21 | Time: 1415 |
| Relinquished by: (Signature) to FED 4/12/21 1630 | Received by: (Signature/Affiliation) | Date: 4/13/21 | Time: 10 00 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: | Time: |

06/02/14 Revision

# Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 570-56328-1

**Login Number: 56328**
**List Number: 1**
**Creator: Patel, Jayesh**

**List Source: Eurofins Calscience**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

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# ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-56470-1
Client Project/Site: Chevron 206145

For:
ARCADIS U.S. Inc
111 SW Columbia Street
Suite 670
Portland, Oregon 97201

Attn: Meg Armstrong

*Authorized for release by:*
*4/28/2021 3:58:45 PM*

Lena Davidkov, Project Manager II
(949)260-3229
Lena.Davidkova@Eurofinset.com

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*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56470-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| *- | LCS and/or LCSD is outside acceptance limits, low biased. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| S1- | Surrogate recovery exceeds control limits, low biased. |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| F2 | MS/MSD RPD 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. |
| p | The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

## Job ID: 570-56470-1

### Laboratory: Eurofins Calscience LLC

**Narrative**

**Job Narrative**
**570-56470-1**

**Comments**
8015B-DRO results for samples TW-3-50, TW-3-60, TW-2-20, TW-2-30 and TW-2-40 were not included in the report. Containers for those samples were not provided

**Receipt**
The samples were received on 4/14/2021 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.9º C and 3.1º C.

**GC/MS VOA**
Method 8260B: The following analyte recovered outside control limits for the LCS and LCSD associated with analytical batch 570-143655: 1,2-Dichloroethane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-143655.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**GC/MS Semi VOA**
Method 8270C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-143342 and analytical batch 570-143852 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**GC VOA**
Method 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-143856.

Method 8015B: Surrogate recovery for the following sample was outside control limits: TW-3-60 (570-56470-2). Re-analysis was performed and surrogate recovery was outside control limits.The original data has been reported.

Method 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-144522.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**GC Semi VOA**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Metals**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Organic Prep**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**VOA Prep**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Lab Admin**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56470-1

## Client Sample ID: TW-3-50 — Lab Sample ID: 570-56470-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.044 | | 0.020 | 0.0096 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: TW-3-60 — Lab Sample ID: 570-56470-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.17 | | 0.037 | 0.018 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: G-15-C-5.0 — Lab Sample ID: 570-56470-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.0068 | J | 0.018 | 0.0040 | mg/Kg | 1 | | 8260B | Total/NA |
| Acetone | 0.085 | | 0.018 | 0.0087 | mg/Kg | 1 | | 8260B | Total/NA |
| Benzene | 0.00023 | J | 0.00089 | 0.00023 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: TW-2-10 — Lab Sample ID: 570-56470-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.038 | | 0.016 | 0.0079 | mg/Kg | 1 | | 8260B | Total/NA |
| p-Isopropyltoluene | 0.00072 | J | 0.00081 | 0.00057 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: TW-2-20 — Lab Sample ID: 570-56470-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.014 | | 0.014 | 0.0070 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: TW-2-30 — Lab Sample ID: 570-56470-6

No Detections.

## Client Sample ID: TW-2-40 — Lab Sample ID: 570-56470-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.0082 | J | 0.015 | 0.0071 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: SB-4-5.0 — Lab Sample ID: 570-56470-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.0064 | J | 0.017 | 0.0038 | mg/Kg | 1 | | 8260B | Total/NA |
| Acetone | 0.11 | | 0.017 | 0.0083 | mg/Kg | 1 | | 8260B | Total/NA |
| C23-C40 | 5.8 | | 4.9 | 3.8 | mg/Kg | 1 | | 8015B | Total/NA |

## Client Sample ID: G-16-C-5.0 — Lab Sample ID: 570-56470-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.0039 | J | 0.014 | 0.0032 | mg/Kg | 1 | | 8260B | Total/NA |
| Acetone | 0.045 | | 0.014 | 0.0070 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: G-17-C-5.0 — Lab Sample ID: 570-56470-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.033 | | 0.0015 | 0.00045 | mg/Kg | 1 | | 8260B | Total/NA |
| 1,3,5-Trimethylbenzene | 0.011 | | 0.0015 | 0.00045 | mg/Kg | 1 | | 8260B | Total/NA |
| 2-Butanone | 0.020 | | 0.015 | 0.0034 | mg/Kg | 1 | | 8260B | Total/NA |
| Acetone | 0.088 | | 0.015 | 0.0074 | mg/Kg | 1 | | 8260B | Total/NA |
| Benzene | 0.0054 | | 0.00075 | 0.00019 | mg/Kg | 1 | | 8260B | Total/NA |
| Carbon disulfide | 0.0037 | J | 0.0075 | 0.00030 | mg/Kg | 1 | | 8260B | Total/NA |

This Detection Summary does not include radiochemical test results.

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## Client Sample ID: G-17-C-5.0 (Continued) — Lab Sample ID: 570-56470-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.030 | | 0.00075 | 0.00016 | mg/Kg | 1 | | 8260B | Total/NA |
| Isopropylbenzene | 0.0015 | | 0.00075 | 0.00045 | mg/Kg | 1 | | 8260B | Total/NA |
| Naphthalene | 0.0074 | J | 0.0075 | 0.0039 | mg/Kg | 1 | | 8260B | Total/NA |
| n-Butylbenzene | 0.0017 | | 0.00075 | 0.00016 | mg/Kg | 1 | | 8260B | Total/NA |
| N-Propylbenzene | 0.0048 | | 0.0015 | 0.00045 | mg/Kg | 1 | | 8260B | Total/NA |
| o-Xylene | 0.030 | | 0.00075 | 0.00045 | mg/Kg | 1 | | 8260B | Total/NA |
| m,p-Xylene | 0.087 | | 0.0015 | 0.00036 | mg/Kg | 1 | | 8260B | Total/NA |
| Toluene | 0.067 | | 0.00075 | 0.00045 | mg/Kg | 1 | | 8260B | Total/NA |
| GRO (C6-C12) | 1.6 | | 0.076 | 0.042 | mg/Kg | 1 | | 8015B | Total/NA |
| Lead | 9.6 | | 4.8 | 0.93 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: G-27-C-5.0 — Lab Sample ID: 570-56470-11

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.044 | | 0.016 | 0.0077 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: SSD-12-0.0 — Lab Sample ID: 570-56470-12

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 4.5 | J | 5.0 | 0.99 | ug/Kg | 1 | | 8081A | Total/NA |
| 4,4'-DDE | 0.95 | J p | 5.0 | 0.54 | ug/Kg | 1 | | 8081A | Total/NA |
| gamma-Chlordane | 0.26 | J p | 5.0 | 0.26 | ug/Kg | 1 | | 8081A | Total/NA |
| Aroclor-1248 | 17 | | 10 | 5.5 | ug/Kg | 1 | | 8082 | Total/NA |
| Aroclor-1260 | 66 | | 10 | 5.0 | ug/Kg | 1 | | 8082 | Total/NA |

## Client Sample ID: SSD-12-1.0 — Lab Sample ID: 570-56470-13

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 30 | | 4.8 | 0.93 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-12-2.0 — Lab Sample ID: 570-56470-14

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 4.4 | J | 4.9 | 0.95 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-12-3.0 — Lab Sample ID: 570-56470-15

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 9.8 | | 5.1 | 0.98 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-12-4.0 — Lab Sample ID: 570-56470-16

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 3.7 | J | 4.8 | 0.93 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-12-5.0 — Lab Sample ID: 570-56470-17

No Detections.

## Client Sample ID: SSD-12-8.0 — Lab Sample ID: 570-56470-18

No Detections.

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56470-1

## Client Sample ID: SSD-11-0.0 — Lab Sample ID: 570-56470-19

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 1.4 | J | 5.0 | 0.99 | ug/Kg | 1 | | 8081A | Total/NA |
| 4,4'-DDE | 1.8 | J | 5.0 | 0.54 | ug/Kg | 1 | | 8081A | Total/NA |
| Dieldrin | 0.78 | J p | 5.0 | 0.25 | ug/Kg | 1 | | 8081A | Total/NA |
| gamma-Chlordane | 0.42 | J | 5.0 | 0.26 | ug/Kg | 1 | | 8081A | Total/NA |
| Aroclor-1260 | 35 | | 10 | 5.0 | ug/Kg | 1 | | 8082 | Total/NA |

## Client Sample ID: SSD-11-1.0 — Lab Sample ID: 570-56470-20

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDE | 2.5 | J | 5.0 | 0.54 | ug/Kg | 1 | | 8081A | Total/NA |
| Aroclor-1260 | 8.6 | J | 9.9 | 4.9 | ug/Kg | 1 | | 8082 | Total/NA |
| Lead | 380 | | 4.9 | 0.95 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-11-2.0 — Lab Sample ID: 570-56470-21

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDT | 0.44 | J p | 5.0 | 0.36 | ug/Kg | 1 | | 8081A | Total/NA |
| Lead | 35 | | 4.8 | 0.92 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-11-3.0 — Lab Sample ID: 570-56470-22

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 7.8 | | 5.0 | 0.96 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-11-.4.0 — Lab Sample ID: 570-56470-23

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 15 | | 5.0 | 0.97 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-11-5.0 — Lab Sample ID: 570-56470-24

No Detections.

## Client Sample ID: SSD-11-8.0 — Lab Sample ID: 570-56470-25

No Detections.

## Client Sample ID: SW-2-C-5.0 — Lab Sample ID: 570-56470-26

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.0052 | J | 0.018 | 0.0040 | mg/Kg | 1 | | 8260B | Total/NA |
| Acetone | 0.049 | | 0.018 | 0.0087 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: SW-3-C-0.0 — Lab Sample ID: 570-56470-27

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDT | 0.82 | J p | 5.0 | 0.36 | ug/Kg | 1 | | 8081A | Total/NA |
| Aroclor-1260 | 6.0 | J | 10 | 5.0 | ug/Kg | 1 | | 8082 | Total/NA |

## Client Sample ID: SW-3-C-1.0 — Lab Sample ID: 570-56470-28

No Detections.

## Client Sample ID: SW-3-C-2.0 — Lab Sample ID: 570-56470-29

No Detections.

This Detection Summary does not include radiochemical test results.

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# Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56470-1

## Client Sample ID: SW-3-C-3.0 — Lab Sample ID: 570-56470-30

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1254 | 8.7 | J | 10 | 5.0 | ug/Kg | 1 | | 8082 | Total/NA |

## Client Sample ID: SW-3-C-5.0 — Lab Sample ID: 570-56470-31

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.0040 | | 0.0013 | 0.00040 | mg/Kg | 1 | | 8260B | Total/NA |
| 1,3,5-Trimethylbenzene | 0.0018 | | 0.0013 | 0.00040 | mg/Kg | 1 | | 8260B | Total/NA |
| 2-Butanone | 0.0048 | J | 0.013 | 0.0030 | mg/Kg | 1 | | 8260B | Total/NA |
| Acetone | 0.048 | | 0.013 | 0.0066 | mg/Kg | 1 | | 8260B | Total/NA |
| Benzene | 0.00097 | | 0.00067 | 0.00017 | mg/Kg | 1 | | 8260B | Total/NA |
| Carbon disulfide | 0.00033 | J | 0.0067 | 0.00027 | mg/Kg | 1 | | 8260B | Total/NA |
| Ethylbenzene | 0.0022 | | 0.00067 | 0.00014 | mg/Kg | 1 | | 8260B | Total/NA |
| o-Xylene | 0.00041 | J | 0.00067 | 0.00040 | mg/Kg | 1 | | 8260B | Total/NA |
| m,p-Xylene | 0.0070 | | 0.0013 | 0.00032 | mg/Kg | 1 | | 8260B | Total/NA |
| Toluene | 0.00052 | J | 0.00067 | 0.00040 | mg/Kg | 1 | | 8260B | Total/NA |
| GRO (C6-C12) | 0.26 | | 0.087 | 0.048 | mg/Kg | 1 | | 8015B | Total/NA |

This Detection Summary does not include radiochemical test results.

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: TW-3-50**
**Date Collected: 04/12/21 14:30**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00098 | 0.00028 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00098 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0020 | 0.00053 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0098 | 0.00045 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00098 | 0.00045 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 1,1-Dichloroethane | ND | | 0.00098 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 1,1-Dichloroethene | ND | | 0.00098 | 0.00026 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 1,1-Dichloropropene | ND | | 0.0020 | 0.00038 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0020 | 0.00098 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0020 | 0.00041 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0020 | 0.00040 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0020 | 0.00059 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0098 | 0.0066 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 1,2-Dibromoethane | ND | | 0.00098 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00098 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 1,2-Dichloroethane | ND | *- | 0.00098 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 1,2-Dichloropropane | ND | | 0.00098 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0020 | 0.00059 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00098 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 1,3-Dichloropropane | ND | | 0.00098 | 0.00029 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00098 | 0.00030 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 2,2-Dichloropropane | ND | | 0.0049 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 2-Butanone | ND | | 0.020 | 0.0044 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 2-Chlorotoluene | ND | | 0.00098 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 2-Hexanone | ND | | 0.020 | 0.0030 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 4-Chlorotoluene | ND | | 0.00098 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.020 | 0.0028 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| **Acetone** | **0.044** | | 0.020 | 0.0096 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Benzene | ND | | 0.00098 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Bromobenzene | ND | | 0.00098 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Bromochloromethane | ND | | 0.0020 | 0.00043 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Bromodichloromethane | ND | | 0.00098 | 0.00016 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Bromoform | ND | | 0.0049 | 0.0013 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Bromomethane | ND | | 0.020 | 0.0064 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00098 | 0.00033 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00098 | 0.00034 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Carbon disulfide | ND | | 0.0098 | 0.00039 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Carbon tetrachloride | ND | | 0.00098 | 0.00029 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Chlorobenzene | ND | | 0.00098 | 0.00026 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Chloroethane | ND | | 0.0020 | 0.0015 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Chloroform | ND | | 0.00098 | 0.00058 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Chloromethane | ND | | 0.020 | 0.0015 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Dibromochloromethane | ND | | 0.0020 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Dibromomethane | ND | | 0.00098 | 0.00030 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Dichlorodifluoromethane | ND | | 0.0020 | 0.00044 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Ethylbenzene | ND | | 0.00098 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Isopropylbenzene | ND | | 0.00098 | 0.00059 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Methylene Chloride | ND | | 0.0098 | 0.0031 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0020 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-3-50**
**Date Collected: 04/12/21 14:30**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0098 | 0.0051 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| n-Butylbenzene | ND | | 0.00098 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| N-Propylbenzene | ND | | 0.0020 | 0.00059 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| o-Xylene | ND | | 0.00098 | 0.00059 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| m,p-Xylene | ND | | 0.0020 | 0.00046 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| p-Isopropyltoluene | ND | | 0.00098 | 0.00068 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| sec-Butylbenzene | ND | | 0.00098 | 0.00059 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Styrene | ND | | 0.00098 | 0.00068 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00098 | 0.00029 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0020 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| tert-Butylbenzene | ND | | 0.00098 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Tetrachloroethene | ND | | 0.00098 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Toluene | ND | | 0.00098 | 0.00059 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Trichloroethene | ND | | 0.0020 | 0.00038 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Trichlorofluoromethane | ND | | 0.0098 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Vinyl acetate | ND | | 0.0098 | 0.0038 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |
| Vinyl chloride | ND | | 0.00098 | 0.00037 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *94* | | *80 - 142* | *04/15/21 18:13* | *04/16/21 00:13* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 00:13* | *1* |
| *Dibromofluoromethane (Surr)* | *92* | | *80 - 123* | *04/15/21 18:13* | *04/16/21 00:13* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 00:13* | *1* |

**Client Sample ID: TW-3-60**
**Date Collected: 04/12/21 14:40**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.0019 | 0.00055 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.0019 | 0.00044 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0037 | 0.0010 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.019 | 0.00087 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.0019 | 0.00087 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 1,1-Dichloroethane | ND | | 0.0019 | 0.00053 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 1,1-Dichloroethene | ND | | 0.0019 | 0.00050 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 1,1-Dichloropropene | ND | | 0.0037 | 0.00073 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0037 | 0.0019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0037 | 0.00079 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0037 | 0.00077 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0037 | 0.0011 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.019 | 0.013 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 1,2-Dibromoethane | ND | | 0.0019 | 0.00039 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.0019 | 0.00047 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 1,2-Dichloroethane | ND | *- | 0.0019 | 0.00052 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 1,2-Dichloropropane | ND | | 0.0019 | 0.00052 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0037 | 0.0011 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.0019 | 0.00047 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 1,3-Dichloropropane | ND | | 0.0019 | 0.00055 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.0019 | 0.00058 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 2,2-Dichloropropane | ND | | 0.0094 | 0.00051 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-3-60**
**Date Collected: 04/12/21 14:40**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | ND | | 0.037 | 0.0085 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 2-Chlorotoluene | ND | | 0.0019 | 0.00047 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 2-Hexanone | ND | | 0.037 | 0.0058 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 4-Chlorotoluene | ND | | 0.0019 | 0.00045 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.037 | 0.0055 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| **Acetone** | **0.17** | | 0.037 | 0.018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Benzene | ND | | 0.0019 | 0.00048 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Bromobenzene | ND | | 0.0019 | 0.00039 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Bromochloromethane | ND | | 0.0037 | 0.00083 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Bromodichloromethane | ND | | 0.0019 | 0.00030 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Bromoform | ND | | 0.0094 | 0.0025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Bromomethane | ND | | 0.037 | 0.012 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.0019 | 0.00063 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.0019 | 0.00065 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Carbon disulfide | ND | | 0.019 | 0.00075 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Carbon tetrachloride | ND | | 0.0019 | 0.00056 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Chlorobenzene | ND | | 0.0019 | 0.00050 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Chloroethane | ND | | 0.0037 | 0.0028 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Chloroform | ND | | 0.0019 | 0.0011 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Chloromethane | ND | | 0.037 | 0.0029 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Dibromochloromethane | ND | | 0.0037 | 0.00051 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Dibromomethane | ND | | 0.0019 | 0.00057 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Dichlorodifluoromethane | ND | | 0.0037 | 0.00085 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Ethylbenzene | ND | | 0.0019 | 0.00039 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Isopropylbenzene | ND | | 0.0019 | 0.0011 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Methylene Chloride | ND | | 0.019 | 0.0059 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0037 | 0.00035 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Naphthalene | ND | | 0.019 | 0.0098 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| n-Butylbenzene | ND | | 0.0019 | 0.00039 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| N-Propylbenzene | ND | | 0.0037 | 0.0011 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| o-Xylene | ND | | 0.0019 | 0.0011 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| m,p-Xylene | ND | | 0.0037 | 0.00089 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| p-Isopropyltoluene | ND | | 0.0019 | 0.0013 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| sec-Butylbenzene | ND | | 0.0019 | 0.0011 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Styrene | ND | | 0.0019 | 0.0013 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.0019 | 0.00056 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0037 | 0.00052 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| tert-Butylbenzene | ND | | 0.0019 | 0.00048 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Tetrachloroethene | ND | | 0.0019 | 0.00042 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Toluene | ND | | 0.0019 | 0.0011 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Trichloroethene | ND | | 0.0037 | 0.00072 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Trichlorofluoromethane | ND | | 0.019 | 0.00051 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Vinyl acetate | ND | | 0.019 | 0.0073 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |
| Vinyl chloride | ND | | 0.0019 | 0.00071 | mg/Kg | | 04/15/21 18:13 | 04/16/21 00:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *93* | | *80 - 142* | *04/15/21 18:13* | *04/16/21 00:38* | *1* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 00:38* | *1* |
| *Dibromofluoromethane (Surr)* | *91* | | *80 - 123* | *04/15/21 18:13* | *04/16/21 00:38* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 00:38* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: G-15-C-5.0**
**Date Collected: 04/12/21 15:00**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-3**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00089 | 0.00026 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00089 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0018 | 0.00048 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0089 | 0.00041 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00089 | 0.00041 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 1,1-Dichloroethane | ND | | 0.00089 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 1,1-Dichloroethene | ND | | 0.00089 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 1,1-Dichloropropene | ND | | 0.0018 | 0.00034 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0018 | 0.00089 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0018 | 0.00037 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0018 | 0.00036 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0018 | 0.00053 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0089 | 0.0060 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 1,2-Dibromoethane | ND | | 0.00089 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00089 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 1,2-Dichloroethane | ND | *- | 0.00089 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 1,2-Dichloropropane | ND | | 0.00089 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0018 | 0.00053 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00089 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 1,3-Dichloropropane | ND | | 0.00089 | 0.00026 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00089 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 2,2-Dichloropropane | ND | | 0.0044 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| **2-Butanone** | **0.0068** | **J** | 0.018 | 0.0040 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 2-Chlorotoluene | ND | | 0.00089 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 2-Hexanone | ND | | 0.018 | 0.0027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 4-Chlorotoluene | ND | | 0.00089 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.018 | 0.0026 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| **Acetone** | **0.085** | | 0.018 | 0.0087 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| **Benzene** | **0.00023** | **J** | 0.00089 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Bromobenzene | ND | | 0.00089 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Bromochloromethane | ND | | 0.0018 | 0.00040 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Bromodichloromethane | ND | | 0.00089 | 0.00014 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Bromoform | ND | | 0.0044 | 0.0012 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Bromomethane | ND | | 0.018 | 0.0058 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00089 | 0.00030 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00089 | 0.00031 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Carbon disulfide | ND | | 0.0089 | 0.00036 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Carbon tetrachloride | ND | | 0.00089 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Chlorobenzene | ND | | 0.00089 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Chloroethane | ND | | 0.0018 | 0.0013 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Chloroform | ND | | 0.00089 | 0.00052 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Chloromethane | ND | | 0.018 | 0.0014 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Dibromochloromethane | ND | | 0.0018 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Dibromomethane | ND | | 0.00089 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Dichlorodifluoromethane | ND | | 0.0018 | 0.00040 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Ethylbenzene | ND | | 0.00089 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Isopropylbenzene | ND | | 0.00089 | 0.00053 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Methylene Chloride | ND | | 0.0089 | 0.0028 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0018 | 0.00017 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: G-15-C-5.0**
**Date Collected: 04/12/21 15:00**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-3**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0089 | 0.0046 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| n-Butylbenzene | ND | | 0.00089 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| N-Propylbenzene | ND | | 0.0018 | 0.00053 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| o-Xylene | ND | | 0.00089 | 0.00053 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| m,p-Xylene | ND | | 0.0018 | 0.00042 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| p-Isopropyltoluene | ND | | 0.00089 | 0.00062 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| sec-Butylbenzene | ND | | 0.00089 | 0.00053 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Styrene | ND | | 0.00089 | 0.00062 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00089 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0018 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| tert-Butylbenzene | ND | | 0.00089 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Tetrachloroethene | ND | | 0.00089 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Toluene | ND | | 0.00089 | 0.00053 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Trichloroethene | ND | | 0.0018 | 0.00034 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Trichlorofluoromethane | ND | | 0.0089 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Vinyl acetate | ND | | 0.0089 | 0.0035 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |
| Vinyl chloride | ND | | 0.00089 | 0.00034 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *95* | | *80 - 142* | *04/15/21 18:13* | *04/16/21 01:03* | *1* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 01:03* | *1* |
| *Dibromofluoromethane (Surr)* | *95* | | *80 - 123* | *04/15/21 18:13* | *04/16/21 01:03* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 01:03* | *1* |

**Client Sample ID: TW-2-10**
**Date Collected: 04/12/21 15:40**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-4**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00081 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00081 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0016 | 0.00044 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0081 | 0.00037 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00081 | 0.00037 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 1,1-Dichloroethane | ND | | 0.00081 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 1,1-Dichloroethene | ND | | 0.00081 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 1,1-Dichloropropene | ND | | 0.0016 | 0.00031 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0016 | 0.00081 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0016 | 0.00034 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0016 | 0.00033 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0016 | 0.00048 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0081 | 0.0055 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 1,2-Dibromoethane | ND | | 0.00081 | 0.00017 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00081 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 1,2-Dichloroethane | ND | *- | 0.00081 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 1,2-Dichloropropane | ND | | 0.00081 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0016 | 0.00048 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00081 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 1,3-Dichloropropane | ND | | 0.00081 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00081 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 2,2-Dichloropropane | ND | | 0.0040 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-2-10**
**Date Collected: 04/12/21 15:40**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-4**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | ND | | 0.016 | 0.0036 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 2-Chlorotoluene | ND | | 0.00081 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 2-Hexanone | ND | | 0.016 | 0.0025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 4-Chlorotoluene | ND | | 0.00081 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.016 | 0.0023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| **Acetone** | **0.038** | | 0.016 | 0.0079 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Benzene | ND | | 0.00081 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Bromobenzene | ND | | 0.00081 | 0.00017 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Bromochloromethane | ND | | 0.0016 | 0.00036 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Bromodichloromethane | ND | | 0.00081 | 0.00013 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Bromoform | ND | | 0.0040 | 0.0011 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Bromomethane | ND | | 0.016 | 0.0053 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00081 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00081 | 0.00028 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Carbon disulfide | ND | | 0.0081 | 0.00032 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Carbon tetrachloride | ND | | 0.00081 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Chlorobenzene | ND | | 0.00081 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Chloroethane | ND | | 0.0016 | 0.0012 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Chloroform | ND | | 0.00081 | 0.00048 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Chloromethane | ND | | 0.016 | 0.0012 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Dibromochloromethane | ND | | 0.0016 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Dibromomethane | ND | | 0.00081 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Dichlorodifluoromethane | ND | | 0.0016 | 0.00037 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Ethylbenzene | ND | | 0.00081 | 0.00017 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Isopropylbenzene | ND | | 0.00081 | 0.00048 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Methylene Chloride | ND | | 0.0081 | 0.0025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0016 | 0.00015 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Naphthalene | ND | | 0.0081 | 0.0042 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| n-Butylbenzene | ND | | 0.00081 | 0.00017 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| N-Propylbenzene | ND | | 0.0016 | 0.00048 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| o-Xylene | ND | | 0.00081 | 0.00048 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| m,p-Xylene | ND | | 0.0016 | 0.00038 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| **p-Isopropyltoluene** | **0.00072** | **J** | 0.00081 | 0.00057 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| sec-Butylbenzene | ND | | 0.00081 | 0.00048 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Styrene | ND | | 0.00081 | 0.00057 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00081 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0016 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| tert-Butylbenzene | ND | | 0.00081 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Tetrachloroethene | ND | | 0.00081 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Toluene | ND | | 0.00081 | 0.00048 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Trichloroethene | ND | | 0.0016 | 0.00031 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Trichlorofluoromethane | ND | | 0.0081 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Vinyl acetate | ND | | 0.0081 | 0.0032 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |
| Vinyl chloride | ND | | 0.00081 | 0.00031 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *80 - 142* | *04/15/21 18:13* | *04/16/21 01:28* | *1* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 01:28* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *80 - 123* | *04/15/21 18:13* | *04/16/21 01:28* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 01:28* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: TW-2-20**
**Date Collected: 04/12/21 15:50**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-5**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00071 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00071 | 0.00017 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0014 | 0.00039 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0071 | 0.00033 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00071 | 0.00033 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 1,1-Dichloroethane | ND | | 0.00071 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 1,1-Dichloroethene | ND | | 0.00071 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 1,1-Dichloropropene | ND | | 0.0014 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0014 | 0.00071 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0014 | 0.00030 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0014 | 0.00029 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0014 | 0.00042 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0071 | 0.0048 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 1,2-Dibromoethane | ND | | 0.00071 | 0.00015 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00071 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 1,2-Dichloroethane | ND | *- | 0.00071 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 1,2-Dichloropropane | ND | | 0.00071 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0014 | 0.00042 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00071 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 1,3-Dichloropropane | ND | | 0.00071 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00071 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 2,2-Dichloropropane | ND | | 0.0035 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 2-Butanone | ND | | 0.014 | 0.0032 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 2-Chlorotoluene | ND | | 0.00071 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 2-Hexanone | ND | | 0.014 | 0.0022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 4-Chlorotoluene | ND | | 0.00071 | 0.00017 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.014 | 0.0021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| **Acetone** | **0.014** | | 0.014 | 0.0070 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Benzene | ND | | 0.00071 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Bromobenzene | ND | | 0.00071 | 0.00015 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Bromochloromethane | ND | | 0.0014 | 0.00031 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Bromodichloromethane | ND | | 0.00071 | 0.00011 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Bromoform | ND | | 0.0035 | 0.00094 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Bromomethane | ND | | 0.014 | 0.0047 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00071 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00071 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Carbon disulfide | ND | | 0.0071 | 0.00028 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Carbon tetrachloride | ND | | 0.00071 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Chlorobenzene | ND | | 0.00071 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Chloroethane | ND | | 0.0014 | 0.0011 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Chloroform | ND | | 0.00071 | 0.00042 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Chloromethane | ND | | 0.014 | 0.0011 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Dibromochloromethane | ND | | 0.0014 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Dibromomethane | ND | | 0.00071 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Dichlorodifluoromethane | ND | | 0.0014 | 0.00032 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Ethylbenzene | ND | | 0.00071 | 0.00015 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Isopropylbenzene | ND | | 0.00071 | 0.00042 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Methylene Chloride | ND | | 0.0071 | 0.0022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0014 | 0.00013 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-2-20**
**Date Collected: 04/12/21 15:50**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-5**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0071 | 0.0037 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| n-Butylbenzene | ND | | 0.00071 | 0.00015 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| N-Propylbenzene | ND | | 0.0014 | 0.00042 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| o-Xylene | ND | | 0.00071 | 0.00042 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| m,p-Xylene | ND | | 0.0014 | 0.00034 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| p-Isopropyltoluene | ND | | 0.00071 | 0.00050 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| sec-Butylbenzene | ND | | 0.00071 | 0.00042 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Styrene | ND | | 0.00071 | 0.00050 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00071 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0014 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| tert-Butylbenzene | ND | | 0.00071 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Tetrachloroethene | ND | | 0.00071 | 0.00016 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Toluene | ND | | 0.00071 | 0.00042 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Trichloroethene | ND | | 0.0014 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Trichlorofluoromethane | ND | | 0.0071 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Vinyl acetate | ND | | 0.0071 | 0.0028 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |
| Vinyl chloride | ND | | 0.00071 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 01:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *95* | | *80 - 142* | *04/15/21 18:13* | *04/16/21 01:54* | *1* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 01:54* | *1* |
| *Dibromofluoromethane (Surr)* | *95* | | *80 - 123* | *04/15/21 18:13* | *04/16/21 01:54* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 01:54* | *1* |

**Client Sample ID: TW-2-30**
**Date Collected: 04/12/21 16:00**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-6**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00075 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00075 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0015 | 0.00041 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0075 | 0.00035 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00075 | 0.00035 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 1,1-Dichloroethane | ND | | 0.00075 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 1,1-Dichloroethene | ND | | 0.00075 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 1,1-Dichloropropene | ND | | 0.0015 | 0.00029 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0015 | 0.00075 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0015 | 0.00031 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0015 | 0.00031 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0015 | 0.00045 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0075 | 0.0051 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 1,2-Dibromoethane | ND | | 0.00075 | 0.00015 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 1,2-Dichloroethane | ND | *- | 0.00075 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 1,2-Dichloropropane | ND | | 0.00075 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0015 | 0.00045 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 1,3-Dichloropropane | ND | | 0.00075 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00075 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 2,2-Dichloropropane | ND | | 0.0037 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-2-30**
**Date Collected: 04/12/21 16:00**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-6**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | ND | | 0.015 | 0.0034 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 2-Chlorotoluene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 2-Hexanone | ND | | 0.015 | 0.0023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 4-Chlorotoluene | ND | | 0.00075 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.015 | 0.0022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Acetone | ND | | 0.015 | 0.0074 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Benzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Bromobenzene | ND | | 0.00075 | 0.00016 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Bromochloromethane | ND | | 0.0015 | 0.00033 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Bromodichloromethane | ND | | 0.00075 | 0.00012 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Bromoform | ND | | 0.0037 | 0.00099 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Bromomethane | ND | | 0.015 | 0.0049 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00075 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00075 | 0.00026 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Carbon disulfide | ND | | 0.0075 | 0.00030 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Carbon tetrachloride | ND | | 0.00075 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Chlorobenzene | ND | | 0.00075 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Chloroethane | ND | | 0.0015 | 0.0011 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Chloroform | ND | | 0.00075 | 0.00044 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Chloromethane | ND | | 0.015 | 0.0012 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Dibromochloromethane | ND | | 0.0015 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Dibromomethane | ND | | 0.00075 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Dichlorodifluoromethane | ND | | 0.0015 | 0.00034 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Ethylbenzene | ND | | 0.00075 | 0.00015 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Isopropylbenzene | ND | | 0.00075 | 0.00045 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Methylene Chloride | ND | | 0.0075 | 0.0023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0015 | 0.00014 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Naphthalene | ND | | 0.0075 | 0.0039 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| n-Butylbenzene | ND | | 0.00075 | 0.00016 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| N-Propylbenzene | ND | | 0.0015 | 0.00045 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| o-Xylene | ND | | 0.00075 | 0.00045 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| m,p-Xylene | ND | | 0.0015 | 0.00036 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| p-Isopropyltoluene | ND | | 0.00075 | 0.00052 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| sec-Butylbenzene | ND | | 0.00075 | 0.00045 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Styrene | ND | | 0.00075 | 0.00052 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00075 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0015 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| tert-Butylbenzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Tetrachloroethene | ND | | 0.00075 | 0.00017 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Toluene | ND | | 0.00075 | 0.00045 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Trichloroethene | ND | | 0.0015 | 0.00029 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Trichlorofluoromethane | ND | | 0.0075 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Vinyl acetate | ND | | 0.0075 | 0.0029 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |
| Vinyl chloride | ND | | 0.00075 | 0.00028 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *96* | | *80 - 142* | *04/15/21 18:13* | *04/16/21 02:19* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 02:19* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *80 - 123* | *04/15/21 18:13* | *04/16/21 02:19* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 02:19* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: TW-2-40**
**Date Collected: 04/12/21 16:07**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-7**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00073 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00073 | 0.00017 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0015 | 0.00039 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0073 | 0.00034 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00073 | 0.00034 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 1,1-Dichloroethane | ND | | 0.00073 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 1,1-Dichloroethene | ND | | 0.00073 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 1,1-Dichloropropene | ND | | 0.0015 | 0.00028 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0015 | 0.00073 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0015 | 0.00030 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0015 | 0.00030 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0015 | 0.00044 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0073 | 0.0049 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 1,2-Dibromoethane | ND | | 0.00073 | 0.00015 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00073 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 1,2-Dichloroethane | ND | *- | 0.00073 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 1,2-Dichloropropane | ND | | 0.00073 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0015 | 0.00044 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00073 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 1,3-Dichloropropane | ND | | 0.00073 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00073 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 2,2-Dichloropropane | ND | | 0.0036 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 2-Butanone | ND | | 0.015 | 0.0033 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 2-Chlorotoluene | ND | | 0.00073 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 2-Hexanone | ND | | 0.015 | 0.0022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 4-Chlorotoluene | ND | | 0.00073 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.015 | 0.0021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| **Acetone** | **0.0082** | **J** | 0.015 | 0.0071 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Benzene | ND | | 0.00073 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Bromobenzene | ND | | 0.00073 | 0.00015 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Bromochloromethane | ND | | 0.0015 | 0.00032 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Bromodichloromethane | ND | | 0.00073 | 0.00012 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Bromoform | ND | | 0.0036 | 0.00096 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Bromomethane | ND | | 0.015 | 0.0048 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00073 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00073 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Carbon disulfide | ND | | 0.0073 | 0.00029 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Carbon tetrachloride | ND | | 0.00073 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Chlorobenzene | ND | | 0.00073 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Chloroethane | ND | | 0.0015 | 0.0011 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Chloroform | ND | | 0.00073 | 0.00043 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Chloromethane | ND | | 0.015 | 0.0011 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Dibromochloromethane | ND | | 0.0015 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Dibromomethane | ND | | 0.00073 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Dichlorodifluoromethane | ND | | 0.0015 | 0.00033 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Ethylbenzene | ND | | 0.00073 | 0.00015 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Isopropylbenzene | ND | | 0.00073 | 0.00044 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Methylene Chloride | ND | | 0.0073 | 0.0023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0015 | 0.00014 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-2-40**
**Date Collected: 04/12/21 16:07**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-7**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0073 | 0.0038 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| n-Butylbenzene | ND | | 0.00073 | 0.00015 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| N-Propylbenzene | ND | | 0.0015 | 0.00044 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| o-Xylene | ND | | 0.00073 | 0.00044 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| m,p-Xylene | ND | | 0.0015 | 0.00034 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| p-Isopropyltoluene | ND | | 0.00073 | 0.00051 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| sec-Butylbenzene | ND | | 0.00073 | 0.00044 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Styrene | ND | | 0.00073 | 0.00051 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00073 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0015 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| tert-Butylbenzene | ND | | 0.00073 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Tetrachloroethene | ND | | 0.00073 | 0.00016 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Toluene | ND | | 0.00073 | 0.00044 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Trichloroethene | ND | | 0.0015 | 0.00028 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Trichlorofluoromethane | ND | | 0.0073 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Vinyl acetate | ND | | 0.0073 | 0.0028 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |
| Vinyl chloride | ND | | 0.00073 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 02:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *80 - 142* | *04/15/21 18:13* | *04/16/21 02:44* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 02:44* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *80 - 123* | *04/15/21 18:13* | *04/16/21 02:44* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 02:44* | *1* |

**Client Sample ID: SB-4-5.0**
**Date Collected: 04/12/21 16:15**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-8**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00085 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00085 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0017 | 0.00046 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0085 | 0.00039 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00085 | 0.00039 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 1,1-Dichloroethane | ND | | 0.00085 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 1,1-Dichloroethene | ND | | 0.00085 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 1,1-Dichloropropene | ND | | 0.0017 | 0.00033 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0017 | 0.00085 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0017 | 0.00036 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0017 | 0.00035 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0017 | 0.00051 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0085 | 0.0057 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 1,2-Dibromoethane | ND | | 0.00085 | 0.00017 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00085 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 1,2-Dichloroethane | ND | *- | 0.00085 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 1,2-Dichloropropane | ND | | 0.00085 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0017 | 0.00051 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00085 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 1,3-Dichloropropane | ND | | 0.00085 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00085 | 0.00026 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 2,2-Dichloropropane | ND | | 0.0042 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-4-5.0**
**Date Collected: 04/12/21 16:15**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-8**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **2-Butanone** | **0.0064** | **J** | 0.017 | 0.0038 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 2-Chlorotoluene | ND | | 0.00085 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 2-Hexanone | ND | | 0.017 | 0.0026 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 4-Chlorotoluene | ND | | 0.00085 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.017 | 0.0025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| **Acetone** | **0.11** | | 0.017 | 0.0083 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Benzene | ND | | 0.00085 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Bromobenzene | ND | | 0.00085 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Bromochloromethane | ND | | 0.0017 | 0.00038 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Bromodichloromethane | ND | | 0.00085 | 0.00013 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Bromoform | ND | | 0.0042 | 0.0011 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Bromomethane | ND | | 0.017 | 0.0056 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00085 | 0.00029 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00085 | 0.00030 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Carbon disulfide | ND | | 0.0085 | 0.00034 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Carbon tetrachloride | ND | | 0.00085 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Chlorobenzene | ND | | 0.00085 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Chloroethane | ND | | 0.0017 | 0.0013 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Chloroform | ND | | 0.00085 | 0.00050 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Chloromethane | ND | | 0.017 | 0.0013 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Dibromochloromethane | ND | | 0.0017 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Dibromomethane | ND | | 0.00085 | 0.00026 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Dichlorodifluoromethane | ND | | 0.0017 | 0.00038 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Ethylbenzene | ND | | 0.00085 | 0.00017 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Isopropylbenzene | ND | | 0.00085 | 0.00051 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Methylene Chloride | ND | | 0.0085 | 0.0026 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0017 | 0.00016 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Naphthalene | ND | | 0.0085 | 0.0044 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| n-Butylbenzene | ND | | 0.00085 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| N-Propylbenzene | ND | | 0.0017 | 0.00051 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| o-Xylene | ND | | 0.00085 | 0.00051 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| m,p-Xylene | ND | | 0.0017 | 0.00040 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| p-Isopropyltoluene | ND | | 0.00085 | 0.00059 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| sec-Butylbenzene | ND | | 0.00085 | 0.00051 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Styrene | ND | | 0.00085 | 0.00059 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00085 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0017 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| tert-Butylbenzene | ND | | 0.00085 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Tetrachloroethene | ND | | 0.00085 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Toluene | ND | | 0.00085 | 0.00051 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Trichloroethene | ND | | 0.0017 | 0.00033 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Trichlorofluoromethane | ND | | 0.0085 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Vinyl acetate | ND | | 0.0085 | 0.0033 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |
| Vinyl chloride | ND | | 0.00085 | 0.00032 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *96* | | *80 - 142* | *04/15/21 18:13* | *04/16/21 03:09* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 03:09* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *80 - 123* | *04/15/21 18:13* | *04/16/21 03:09* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 03:09* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: G-16-C-5.0**
**Date Collected: 04/13/21 08:50**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-9**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00071 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00071 | 0.00017 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0014 | 0.00039 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0071 | 0.00033 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00071 | 0.00033 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 1,1-Dichloroethane | ND | | 0.00071 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 1,1-Dichloroethene | ND | | 0.00071 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 1,1-Dichloropropene | ND | | 0.0014 | 0.00028 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0014 | 0.00071 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0014 | 0.00030 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0014 | 0.00029 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0014 | 0.00043 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0071 | 0.0048 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 1,2-Dibromoethane | ND | | 0.00071 | 0.00015 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00071 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 1,2-Dichloroethane | ND | *- | 0.00071 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 1,2-Dichloropropane | ND | | 0.00071 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0014 | 0.00043 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00071 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 1,3-Dichloropropane | ND | | 0.00071 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00071 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 2,2-Dichloropropane | ND | | 0.0036 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| **2-Butanone** | **0.0039** | **J** | 0.014 | 0.0032 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 2-Chlorotoluene | ND | | 0.00071 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 2-Hexanone | ND | | 0.014 | 0.0022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 4-Chlorotoluene | ND | | 0.00071 | 0.00017 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.014 | 0.0021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| **Acetone** | **0.045** | | 0.014 | 0.0070 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Benzene | ND | | 0.00071 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Bromobenzene | ND | | 0.00071 | 0.00015 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Bromochloromethane | ND | | 0.0014 | 0.00032 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Bromodichloromethane | ND | | 0.00071 | 0.00011 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Bromoform | ND | | 0.0036 | 0.00094 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Bromomethane | ND | | 0.014 | 0.0047 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00071 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00071 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Carbon disulfide | ND | | 0.0071 | 0.00029 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Carbon tetrachloride | ND | | 0.00071 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Chlorobenzene | ND | | 0.00071 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Chloroethane | ND | | 0.0014 | 0.0011 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Chloroform | ND | | 0.00071 | 0.00042 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Chloromethane | ND | | 0.014 | 0.0011 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Dibromochloromethane | ND | | 0.0014 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Dibromomethane | ND | | 0.00071 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Dichlorodifluoromethane | ND | | 0.0014 | 0.00032 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Ethylbenzene | ND | | 0.00071 | 0.00015 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Isopropylbenzene | ND | | 0.00071 | 0.00043 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Methylene Chloride | ND | | 0.0071 | 0.0022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0014 | 0.00013 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: G-16-C-5.0**
**Date Collected: 04/13/21 08:50**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-9**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0071 | 0.0037 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| n-Butylbenzene | ND | | 0.00071 | 0.00015 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| N-Propylbenzene | ND | | 0.0014 | 0.00043 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| o-Xylene | ND | | 0.00071 | 0.00043 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| m,p-Xylene | ND | | 0.0014 | 0.00034 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| p-Isopropyltoluene | ND | | 0.00071 | 0.00050 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| sec-Butylbenzene | ND | | 0.00071 | 0.00043 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Styrene | ND | | 0.00071 | 0.00050 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00071 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0014 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| tert-Butylbenzene | ND | | 0.00071 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Tetrachloroethene | ND | | 0.00071 | 0.00016 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Toluene | ND | | 0.00071 | 0.00043 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Trichloroethene | ND | | 0.0014 | 0.00028 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Trichlorofluoromethane | ND | | 0.0071 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Vinyl acetate | ND | | 0.0071 | 0.0028 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |
| Vinyl chloride | ND | | 0.00071 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *96* | | *80 - 142* | *04/15/21 18:13* | *04/16/21 03:34* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 03:34* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *80 - 123* | *04/15/21 18:13* | *04/16/21 03:34* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 03:34* | *1* |

**Client Sample ID: G-17-C-5.0**
**Date Collected: 04/13/21 08:45**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-10**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00075 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00075 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0015 | 0.00041 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0075 | 0.00035 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00075 | 0.00035 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 1,1-Dichloroethane | ND | | 0.00075 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 1,1-Dichloroethene | ND | | 0.00075 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 1,1-Dichloropropene | ND | | 0.0015 | 0.00029 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0015 | 0.00075 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0015 | 0.00032 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0015 | 0.00031 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| **1,2,4-Trimethylbenzene** | **0.033** | | 0.0015 | 0.00045 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0075 | 0.0051 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 1,2-Dibromoethane | ND | | 0.00075 | 0.00016 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 1,2-Dichloroethane | ND | *- | 0.00075 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 1,2-Dichloropropane | ND | | 0.00075 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| **1,3,5-Trimethylbenzene** | **0.011** | | 0.0015 | 0.00045 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 1,3-Dichloropropane | ND | | 0.00075 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00075 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 2,2-Dichloropropane | ND | | 0.0038 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: G-17-C-5.0**
**Date Collected: 04/13/21 08:45**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-10**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **2-Butanone** | **0.020** | | 0.015 | 0.0034 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 2-Chlorotoluene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 2-Hexanone | ND | | 0.015 | 0.0023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 4-Chlorotoluene | ND | | 0.00075 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.015 | 0.0022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| **Acetone** | **0.088** | | 0.015 | 0.0074 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| **Benzene** | **0.0054** | | 0.00075 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| Bromobenzene | ND | | 0.00075 | 0.00016 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| Bromochloromethane | ND | | 0.0015 | 0.00034 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| Bromodichloromethane | ND | | 0.00075 | 0.00012 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| Bromoform | ND | | 0.0038 | 0.0010 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| Bromomethane | ND | | 0.015 | 0.0050 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00075 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00075 | 0.00026 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| **Carbon disulfide** | **0.0037** | **J** | 0.0075 | 0.00030 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| Carbon tetrachloride | ND | | 0.00075 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| Chlorobenzene | ND | | 0.00075 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| Chloroethane | ND | | 0.0015 | 0.0011 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| Chloroform | ND | | 0.00075 | 0.00044 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| Chloromethane | ND | | 0.015 | 0.0012 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| Dibromochloromethane | ND | | 0.0015 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| Dibromomethane | ND | | 0.00075 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| Dichlorodifluoromethane | ND | | 0.0015 | 0.00034 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| **Ethylbenzene** | **0.030** | | 0.00075 | 0.00016 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| **Isopropylbenzene** | **0.0015** | | 0.00075 | 0.00045 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| Methylene Chloride | ND | | 0.0075 | 0.0024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0015 | 0.00014 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| **Naphthalene** | **0.0074** | **J** | 0.0075 | 0.0039 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| **n-Butylbenzene** | **0.0017** | | 0.00075 | 0.00016 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| **N-Propylbenzene** | **0.0048** | | 0.0015 | 0.00045 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| **o-Xylene** | **0.030** | | 0.00075 | 0.00045 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| **m,p-Xylene** | **0.087** | | 0.0015 | 0.00036 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| p-Isopropyltoluene | ND | | 0.00075 | 0.00053 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| sec-Butylbenzene | ND | | 0.00075 | 0.00045 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| Styrene | ND | | 0.00075 | 0.00053 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00075 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0015 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| tert-Butylbenzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| Tetrachloroethene | ND | | 0.00075 | 0.00017 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| **Toluene** | **0.067** | | 0.00075 | 0.00045 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| Trichloroethene | ND | | 0.0015 | 0.00029 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| Trichlorofluoromethane | ND | | 0.0075 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| Vinyl acetate | ND | | 0.0075 | 0.0030 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |
| Vinyl chloride | ND | | 0.00075 | 0.00029 | mg/Kg | | 04/15/21 18:13 | 04/16/21 03:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *80 - 142* | *04/15/21 18:13* | *04/16/21 03:59* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 03:59* | *1* |
| *Dibromofluoromethane (Surr)* | *101* | | *80 - 123* | *04/15/21 18:13* | *04/16/21 03:59* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 03:59* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: G-27-C-5.0**
**Date Collected: 04/13/21 09:30**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-11**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00078 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00078 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0016 | 0.00042 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0078 | 0.00036 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00078 | 0.00036 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 1,1-Dichloroethane | ND | | 0.00078 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 1,1-Dichloroethene | ND | | 0.00078 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 1,1-Dichloropropene | ND | | 0.0016 | 0.00030 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0016 | 0.00078 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0016 | 0.00033 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0016 | 0.00032 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0016 | 0.00047 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0078 | 0.0053 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 1,2-Dibromoethane | ND | | 0.00078 | 0.00016 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00078 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 1,2-Dichloroethane | ND | *- | 0.00078 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 1,2-Dichloropropane | ND | | 0.00078 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0016 | 0.00047 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00078 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 1,3-Dichloropropane | ND | | 0.00078 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00078 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 2,2-Dichloropropane | ND | | 0.0039 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 2-Butanone | ND | | 0.016 | 0.0035 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 2-Chlorotoluene | ND | | 0.00078 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 2-Hexanone | ND | | 0.016 | 0.0024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 4-Chlorotoluene | ND | | 0.00078 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.016 | 0.0023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| **Acetone** | **0.044** | | 0.016 | 0.0077 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Benzene | ND | | 0.00078 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Bromobenzene | ND | | 0.00078 | 0.00016 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Bromochloromethane | ND | | 0.0016 | 0.00035 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Bromodichloromethane | ND | | 0.00078 | 0.00012 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Bromoform | ND | | 0.0039 | 0.0010 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Bromomethane | ND | | 0.016 | 0.0051 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00078 | 0.00026 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00078 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Carbon disulfide | ND | | 0.0078 | 0.00031 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Carbon tetrachloride | ND | | 0.00078 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Chlorobenzene | ND | | 0.00078 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Chloroethane | ND | | 0.0016 | 0.0012 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Chloroform | ND | | 0.00078 | 0.00046 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Chloromethane | ND | | 0.016 | 0.0012 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Dibromochloromethane | ND | | 0.0016 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Dibromomethane | ND | | 0.00078 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Dichlorodifluoromethane | ND | | 0.0016 | 0.00035 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Ethylbenzene | ND | | 0.00078 | 0.00016 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Isopropylbenzene | ND | | 0.00078 | 0.00047 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Methylene Chloride | ND | | 0.0078 | 0.0024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0016 | 0.00015 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: G-27-C-5.0**
**Date Collected: 04/13/21 09:30**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-11**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0078 | 0.0041 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| n-Butylbenzene | ND | | 0.00078 | 0.00016 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| N-Propylbenzene | ND | | 0.0016 | 0.00047 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| o-Xylene | ND | | 0.00078 | 0.00047 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| m,p-Xylene | ND | | 0.0016 | 0.00037 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| p-Isopropyltoluene | ND | | 0.00078 | 0.00055 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| sec-Butylbenzene | ND | | 0.00078 | 0.00047 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Styrene | ND | | 0.00078 | 0.00055 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00078 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0016 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| tert-Butylbenzene | ND | | 0.00078 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Tetrachloroethene | ND | | 0.00078 | 0.00017 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Toluene | ND | | 0.00078 | 0.00047 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Trichloroethene | ND | | 0.0016 | 0.00030 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Trichlorofluoromethane | ND | | 0.0078 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Vinyl acetate | ND | | 0.0078 | 0.0031 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |
| Vinyl chloride | ND | | 0.00078 | 0.00030 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *80 - 142* | *04/15/21 18:13* | *04/16/21 04:24* | *1* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 04:24* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *80 - 123* | *04/15/21 18:13* | *04/16/21 04:24* | *1* |
| *Toluene-d8 (Surr)* | *95* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 04:24* | *1* |

**Client Sample ID: SW-2-C-5.0**
**Date Collected: 04/13/21 11:20**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-26**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00089 | 0.00026 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00089 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0018 | 0.00048 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0089 | 0.00041 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00089 | 0.00041 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 1,1-Dichloroethane | ND | | 0.00089 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 1,1-Dichloroethene | ND | | 0.00089 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 1,1-Dichloropropene | ND | | 0.0018 | 0.00034 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0018 | 0.00089 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0018 | 0.00037 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0018 | 0.00036 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0018 | 0.00053 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0089 | 0.0060 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 1,2-Dibromoethane | ND | | 0.00089 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00089 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 1,2-Dichloroethane | ND | *- | 0.00089 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 1,2-Dichloropropane | ND | | 0.00089 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0018 | 0.00053 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00089 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 1,3-Dichloropropane | ND | | 0.00089 | 0.00026 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00089 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 2,2-Dichloropropane | ND | | 0.0044 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SW-2-C-5.0**
**Date Collected: 04/13/21 11:20**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-26**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **2-Butanone** | **0.0052** | **J** | 0.018 | 0.0040 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 2-Chlorotoluene | ND | | 0.00089 | 0.00022 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 2-Hexanone | ND | | 0.018 | 0.0027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 4-Chlorotoluene | ND | | 0.00089 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.018 | 0.0026 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| **Acetone** | **0.049** | | 0.018 | 0.0087 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Benzene | ND | | 0.00089 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Bromobenzene | ND | | 0.00089 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Bromochloromethane | ND | | 0.0018 | 0.00039 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Bromodichloromethane | ND | | 0.00089 | 0.00014 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Bromoform | ND | | 0.0044 | 0.0012 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Bromomethane | ND | | 0.018 | 0.0058 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00089 | 0.00030 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00089 | 0.00031 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Carbon disulfide | ND | | 0.0089 | 0.00035 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Carbon tetrachloride | ND | | 0.00089 | 0.00026 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Chlorobenzene | ND | | 0.00089 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Chloroethane | ND | | 0.0018 | 0.0013 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Chloroform | ND | | 0.00089 | 0.00052 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Chloromethane | ND | | 0.018 | 0.0014 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Dibromochloromethane | ND | | 0.0018 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Dibromomethane | ND | | 0.00089 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Dichlorodifluoromethane | ND | | 0.0018 | 0.00040 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Ethylbenzene | ND | | 0.00089 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Isopropylbenzene | ND | | 0.00089 | 0.00053 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Methylene Chloride | ND | | 0.0089 | 0.0028 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0018 | 0.00017 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Naphthalene | ND | | 0.0089 | 0.0046 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| n-Butylbenzene | ND | | 0.00089 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| N-Propylbenzene | ND | | 0.0018 | 0.00053 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| o-Xylene | ND | | 0.00089 | 0.00053 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| m,p-Xylene | ND | | 0.0018 | 0.00042 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| p-Isopropyltoluene | ND | | 0.00089 | 0.00062 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| sec-Butylbenzene | ND | | 0.00089 | 0.00053 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Styrene | ND | | 0.00089 | 0.00062 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00089 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0018 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| tert-Butylbenzene | ND | | 0.00089 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Tetrachloroethene | ND | | 0.00089 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Toluene | ND | | 0.00089 | 0.00053 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Trichloroethene | ND | | 0.0018 | 0.00034 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Trichlorofluoromethane | ND | | 0.0089 | 0.00024 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Vinyl acetate | ND | | 0.0089 | 0.0035 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |
| Vinyl chloride | ND | | 0.00089 | 0.00034 | mg/Kg | | 04/15/21 18:13 | 04/16/21 04:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *80 - 142* | *04/15/21 18:13* | *04/16/21 04:50* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 04:50* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *80 - 123* | *04/15/21 18:13* | *04/16/21 04:50* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 04:50* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: SW-3-C-5.0**
**Date Collected: 04/13/21 11:48**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-31**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00067 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00067 | 0.00016 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0013 | 0.00037 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0067 | 0.00031 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00067 | 0.00031 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 1,1-Dichloroethane | ND | | 0.00067 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 1,1-Dichloroethene | ND | | 0.00067 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 1,1-Dichloropropene | ND | | 0.0013 | 0.00026 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0013 | 0.00067 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0013 | 0.00028 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0013 | 0.00028 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| **1,2,4-Trimethylbenzene** | **0.0040** | | 0.0013 | 0.00040 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0067 | 0.0045 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 1,2-Dibromoethane | ND | | 0.00067 | 0.00014 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00067 | 0.00017 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 1,2-Dichloroethane | ND | *- | 0.00067 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 1,2-Dichloropropane | ND | | 0.00067 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| **1,3,5-Trimethylbenzene** | **0.0018** | | 0.0013 | 0.00040 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00067 | 0.00017 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 1,3-Dichloropropane | ND | | 0.00067 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00067 | 0.00021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 2,2-Dichloropropane | ND | | 0.0034 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| **2-Butanone** | **0.0048** | **J** | 0.013 | 0.0030 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 2-Chlorotoluene | ND | | 0.00067 | 0.00017 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 2-Hexanone | ND | | 0.013 | 0.0021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 4-Chlorotoluene | ND | | 0.00067 | 0.00016 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.013 | 0.0020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| **Acetone** | **0.048** | | 0.013 | 0.0066 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| **Benzene** | **0.00097** | | 0.00067 | 0.00017 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Bromobenzene | ND | | 0.00067 | 0.00014 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Bromochloromethane | ND | | 0.0013 | 0.00030 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Bromodichloromethane | ND | | 0.00067 | 0.00011 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Bromoform | ND | | 0.0034 | 0.00089 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Bromomethane | ND | | 0.013 | 0.0044 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00067 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00067 | 0.00023 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| **Carbon disulfide** | **0.00033** | **J** | 0.0067 | 0.00027 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Carbon tetrachloride | ND | | 0.00067 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Chlorobenzene | ND | | 0.00067 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Chloroethane | ND | | 0.0013 | 0.0010 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Chloroform | ND | | 0.00067 | 0.00040 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Chloromethane | ND | | 0.013 | 0.0010 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Dibromochloromethane | ND | | 0.0013 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Dibromomethane | ND | | 0.00067 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Dichlorodifluoromethane | ND | | 0.0013 | 0.00030 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| **Ethylbenzene** | **0.0022** | | 0.00067 | 0.00014 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Isopropylbenzene | ND | | 0.00067 | 0.00040 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Methylene Chloride | ND | | 0.0067 | 0.0021 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0013 | 0.00013 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SW-3-C-5.0**
**Date Collected: 04/13/21 11:48**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-31**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0067 | 0.0035 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| n-Butylbenzene | ND | | 0.00067 | 0.00014 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| N-Propylbenzene | ND | | 0.0013 | 0.00040 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| **o-Xylene** | **0.00041** | **J** | 0.00067 | 0.00040 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| **m,p-Xylene** | **0.0070** | | 0.0013 | 0.00032 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| p-Isopropyltoluene | ND | | 0.00067 | 0.00047 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| sec-Butylbenzene | ND | | 0.00067 | 0.00040 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Styrene | ND | | 0.00067 | 0.00047 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00067 | 0.00020 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0013 | 0.00019 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| tert-Butylbenzene | ND | | 0.00067 | 0.00017 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Tetrachloroethene | ND | | 0.00067 | 0.00015 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| **Toluene** | **0.00052** | **J** | 0.00067 | 0.00040 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Trichloroethene | ND | | 0.0013 | 0.00026 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Trichlorofluoromethane | ND | | 0.0067 | 0.00018 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Vinyl acetate | ND | | 0.0067 | 0.0026 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |
| Vinyl chloride | ND | | 0.00067 | 0.00025 | mg/Kg | | 04/15/21 18:13 | 04/16/21 05:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *80 - 142* | *04/15/21 18:13* | *04/16/21 05:15* | *1* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 05:15* | *1* |
| *Dibromofluoromethane (Surr)* | *99* | | *80 - 123* | *04/15/21 18:13* | *04/16/21 05:15* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *80 - 120* | *04/15/21 18:13* | *04/16/21 05:15* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Client Sample ID: G-15-C-5.0**
**Date Collected: 04/12/21 15:00**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-3**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/15/21 10:33 | 04/16/21 17:39 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/15/21 10:33 | 04/16/21 17:39 | 1 |
| Acenaphthene | ND | | 0.50 | 0.053 | mg/Kg | | 04/15/21 10:33 | 04/16/21 17:39 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.038 | mg/Kg | | 04/15/21 10:33 | 04/16/21 17:39 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/15/21 10:33 | 04/16/21 17:39 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.045 | mg/Kg | | 04/15/21 10:33 | 04/16/21 17:39 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/15/21 10:33 | 04/16/21 17:39 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/15/21 10:33 | 04/16/21 17:39 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/15/21 10:33 | 04/16/21 17:39 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/15/21 10:33 | 04/16/21 17:39 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/15/21 10:33 | 04/16/21 17:39 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/15/21 10:33 | 04/16/21 17:39 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/15/21 10:33 | 04/16/21 17:39 | 1 |
| Fluorene | ND | | 0.50 | 0.066 | mg/Kg | | 04/15/21 10:33 | 04/16/21 17:39 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/15/21 10:33 | 04/16/21 17:39 | 1 |
| Naphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/15/21 10:33 | 04/16/21 17:39 | 1 |
| Phenanthrene | ND | | 0.50 | 0.060 | mg/Kg | | 04/15/21 10:33 | 04/16/21 17:39 | 1 |
| Pyrene | ND | | 0.50 | 0.074 | mg/Kg | | 04/15/21 10:33 | 04/16/21 17:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *74* | | *10 - 134* | *04/15/21 10:33* | *04/16/21 17:39* | *1* |
| *2-Fluorobiphenyl (Surr)* | *77* | | *14 - 142* | *04/15/21 10:33* | *04/16/21 17:39* | *1* |
| *2-Fluorophenol (Surr)* | *78* | | *10 - 123* | *04/15/21 10:33* | *04/16/21 17:39* | *1* |
| *Nitrobenzene-d5 (Surr)* | *75* | | *10 - 129* | *04/15/21 10:33* | *04/16/21 17:39* | *1* |
| *Phenol-d6 (Surr)* | *76* | | *10 - 120* | *04/15/21 10:33* | *04/16/21 17:39* | *1* |
| *p-Terphenyl-d14 (Surr)* | *82* | | *31 - 139* | *04/15/21 10:33* | *04/16/21 17:39* | *1* |

**Client Sample ID: TW-2-10**
**Date Collected: 04/12/21 15:40**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-4**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:19 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:19 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:19 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:19 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:19 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.045 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:19 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:19 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:19 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:19 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:19 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:19 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:19 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:19 | 1 |
| Fluorene | ND | | 0.50 | 0.066 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:19 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:19 | 1 |
| Naphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:19 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:19 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:19 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *72* | | *10 - 134* | *04/15/21 10:33* | *04/16/21 21:19* | *1* |
| *2-Fluorobiphenyl (Surr)* | *72* | | *14 - 142* | *04/15/21 10:33* | *04/16/21 21:19* | *1* |
| *2-Fluorophenol (Surr)* | *74* | | *10 - 123* | *04/15/21 10:33* | *04/16/21 21:19* | *1* |
| *Nitrobenzene-d5 (Surr)* | *70* | | *10 - 129* | *04/15/21 10:33* | *04/16/21 21:19* | *1* |
| *Phenol-d6 (Surr)* | *70* | | *10 - 120* | *04/15/21 10:33* | *04/16/21 21:19* | *1* |
| *p-Terphenyl-d14 (Surr)* | *74* | | *31 - 139* | *04/15/21 10:33* | *04/16/21 21:19* | *1* |

**Client Sample ID: SB-4-5.0**
**Date Collected: 04/12/21 16:15**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-8**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:15 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:15 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:15 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:15 | 1 |
| Anthracene | ND | | 0.50 | 0.051 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:15 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.046 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:15 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.077 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:15 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.080 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:15 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.084 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:15 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:15 | 1 |
| Chrysene | ND | | 0.50 | 0.068 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:15 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:15 | 1 |
| Fluoranthene | ND | | 0.50 | 0.059 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:15 | 1 |
| Fluorene | ND | | 0.50 | 0.067 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:15 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.091 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:15 | 1 |
| Naphthalene | ND | | 0.50 | 0.058 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:15 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:15 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:15 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *68* | | *10 - 134* | *04/15/21 10:33* | *04/16/21 18:15* | *1* |
| *2-Fluorobiphenyl (Surr)* | *66* | | *14 - 142* | *04/15/21 10:33* | *04/16/21 18:15* | *1* |
| *2-Fluorophenol (Surr)* | *68* | | *10 - 123* | *04/15/21 10:33* | *04/16/21 18:15* | *1* |
| *Nitrobenzene-d5 (Surr)* | *65* | | *10 - 129* | *04/15/21 10:33* | *04/16/21 18:15* | *1* |
| *Phenol-d6 (Surr)* | *65* | | *10 - 120* | *04/15/21 10:33* | *04/16/21 18:15* | *1* |
| *p-Terphenyl-d14 (Surr)* | *71* | | *31 - 139* | *04/15/21 10:33* | *04/16/21 18:15* | *1* |

**Client Sample ID: G-16-C-5.0**
**Date Collected: 04/13/21 08:50**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-9**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.49 | 0.035 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:34 | 1 |
| 2-Methylnaphthalene | ND | | 0.49 | 0.056 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:34 | 1 |
| Acenaphthene | ND | | 0.49 | 0.053 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:34 | 1 |
| Acenaphthylene | ND | | 0.49 | 0.038 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:34 | 1 |
| Anthracene | ND | | 0.49 | 0.049 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:34 | 1 |
| Benzo[a]anthracene | ND | | 0.49 | 0.045 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:34 | 1 |
| Benzo[a]pyrene | ND | | 0.49 | 0.075 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:34 | 1 |
| Benzo[b]fluoranthene | ND | | 0.49 | 0.078 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:34 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.49 | 0.081 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:34 | 1 |
| Benzo[k]fluoranthene | ND | | 0.49 | 0.045 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:34 | 1 |
| Chrysene | ND | | 0.49 | 0.066 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:34 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: G-16-C-5.0**
**Date Collected: 04/13/21 08:50**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-9**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dibenz(a,h)anthracene | ND | | 0.49 | 0.10 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:34 | 1 |
| Fluoranthene | ND | | 0.49 | 0.057 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:34 | 1 |
| Fluorene | ND | | 0.49 | 0.065 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:34 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.49 | 0.088 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:34 | 1 |
| Naphthalene | ND | | 0.49 | 0.056 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:34 | 1 |
| Phenanthrene | ND | | 0.49 | 0.059 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:34 | 1 |
| Pyrene | ND | | 0.49 | 0.073 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *80* | | *10 - 134* | *04/15/21 10:33* | *04/16/21 18:34* | *1* |
| *2-Fluorobiphenyl (Surr)* | *77* | | *14 - 142* | *04/15/21 10:33* | *04/16/21 18:34* | *1* |
| *2-Fluorophenol (Surr)* | *79* | | *10 - 123* | *04/15/21 10:33* | *04/16/21 18:34* | *1* |
| *Nitrobenzene-d5 (Surr)* | *75* | | *10 - 129* | *04/15/21 10:33* | *04/16/21 18:34* | *1* |
| *Phenol-d6 (Surr)* | *77* | | *10 - 120* | *04/15/21 10:33* | *04/16/21 18:34* | *1* |
| *p-Terphenyl-d14 (Surr)* | *80* | | *31 - 139* | *04/15/21 10:33* | *04/16/21 18:34* | *1* |

**Client Sample ID: G-17-C-5.0**
**Date Collected: 04/13/21 08:45**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-10**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:52 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:52 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:52 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:52 | 1 |
| Anthracene | ND | | 0.50 | 0.051 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:52 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.046 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:52 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.077 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:52 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.080 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:52 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.084 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:52 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:52 | 1 |
| Chrysene | ND | | 0.50 | 0.068 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:52 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:52 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:52 | 1 |
| Fluorene | ND | | 0.50 | 0.067 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:52 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.091 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:52 | 1 |
| Naphthalene | ND | | 0.50 | 0.058 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:52 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:52 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/15/21 10:33 | 04/16/21 18:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *74* | | *10 - 134* | *04/15/21 10:33* | *04/16/21 18:52* | *1* |
| *2-Fluorobiphenyl (Surr)* | *73* | | *14 - 142* | *04/15/21 10:33* | *04/16/21 18:52* | *1* |
| *2-Fluorophenol (Surr)* | *75* | | *10 - 123* | *04/15/21 10:33* | *04/16/21 18:52* | *1* |
| *Nitrobenzene-d5 (Surr)* | *70* | | *10 - 129* | *04/15/21 10:33* | *04/16/21 18:52* | *1* |
| *Phenol-d6 (Surr)* | *70* | | *10 - 120* | *04/15/21 10:33* | *04/16/21 18:52* | *1* |
| *p-Terphenyl-d14 (Surr)* | *74* | | *31 - 139* | *04/15/21 10:33* | *04/16/21 18:52* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Client Sample ID: G-27-C-5.0**
**Date Collected: 04/13/21 09:30**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-11**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.037 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:10 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.058 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:10 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:10 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:10 | 1 |
| Anthracene | ND | | 0.50 | 0.051 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:10 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.046 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:10 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.077 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:10 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.080 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:10 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.084 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:10 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.047 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:10 | 1 |
| Chrysene | ND | | 0.50 | 0.068 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:10 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:10 | 1 |
| Fluoranthene | ND | | 0.50 | 0.059 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:10 | 1 |
| Fluorene | ND | | 0.50 | 0.067 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:10 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.091 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:10 | 1 |
| Naphthalene | ND | | 0.50 | 0.058 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:10 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:10 | 1 |
| Pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *71* | | *10 - 134* | *04/15/21 10:33* | *04/16/21 19:10* | *1* |
| *2-Fluorobiphenyl (Surr)* | *73* | | *14 - 142* | *04/15/21 10:33* | *04/16/21 19:10* | *1* |
| *2-Fluorophenol (Surr)* | *73* | | *10 - 123* | *04/15/21 10:33* | *04/16/21 19:10* | *1* |
| *Nitrobenzene-d5 (Surr)* | *70* | | *10 - 129* | *04/15/21 10:33* | *04/16/21 19:10* | *1* |
| *Phenol-d6 (Surr)* | *70* | | *10 - 120* | *04/15/21 10:33* | *04/16/21 19:10* | *1* |
| *p-Terphenyl-d14 (Surr)* | *75* | | *31 - 139* | *04/15/21 10:33* | *04/16/21 19:10* | *1* |

**Client Sample ID: SSD-12-5.0**
**Date Collected: 04/13/21 10:25**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-17**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.51 | 0.037 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:29 | 1 |
| 2-Methylnaphthalene | ND | | 0.51 | 0.058 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:29 | 1 |
| Acenaphthene | ND | | 0.51 | 0.055 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:29 | 1 |
| Acenaphthylene | ND | | 0.51 | 0.039 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:29 | 1 |
| Anthracene | ND | | 0.51 | 0.051 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:29 | 1 |
| Benzo[a]anthracene | ND | | 0.51 | 0.046 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:29 | 1 |
| Benzo[a]pyrene | ND | | 0.51 | 0.077 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:29 | 1 |
| Benzo[b]fluoranthene | ND | | 0.51 | 0.081 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:29 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.51 | 0.084 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:29 | 1 |
| Benzo[k]fluoranthene | ND | | 0.51 | 0.047 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:29 | 1 |
| Chrysene | ND | | 0.51 | 0.068 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:29 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.51 | 0.11 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:29 | 1 |
| Fluoranthene | ND | | 0.51 | 0.059 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:29 | 1 |
| Fluorene | ND | | 0.51 | 0.067 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:29 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.51 | 0.092 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:29 | 1 |
| Naphthalene | ND | | 0.51 | 0.058 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:29 | 1 |
| Phenanthrene | ND | | 0.51 | 0.062 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:29 | 1 |
| Pyrene | ND | | 0.51 | 0.076 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:29 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *69* | | *10 - 134* | *04/15/21 10:33* | *04/16/21 19:29* | *1* |
| *2-Fluorobiphenyl (Surr)* | *67* | | *14 - 142* | *04/15/21 10:33* | *04/16/21 19:29* | *1* |
| *2-Fluorophenol (Surr)* | *72* | | *10 - 123* | *04/15/21 10:33* | *04/16/21 19:29* | *1* |
| *Nitrobenzene-d5 (Surr)* | *67* | | *10 - 129* | *04/15/21 10:33* | *04/16/21 19:29* | *1* |
| *Phenol-d6 (Surr)* | *69* | | *10 - 120* | *04/15/21 10:33* | *04/16/21 19:29* | *1* |
| *p-Terphenyl-d14 (Surr)* | *74* | | *31 - 139* | *04/15/21 10:33* | *04/16/21 19:29* | *1* |

**Client Sample ID: SSD-12-8.0**
**Date Collected: 04/13/21 10:27**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-18**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.51 | 0.037 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:47 | 1 |
| 2-Methylnaphthalene | ND | | 0.51 | 0.058 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:47 | 1 |
| Acenaphthene | ND | | 0.51 | 0.055 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:47 | 1 |
| Acenaphthylene | ND | | 0.51 | 0.040 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:47 | 1 |
| Anthracene | ND | | 0.51 | 0.052 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:47 | 1 |
| Benzo[a]anthracene | ND | | 0.51 | 0.047 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:47 | 1 |
| Benzo[a]pyrene | ND | | 0.51 | 0.078 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:47 | 1 |
| Benzo[b]fluoranthene | ND | | 0.51 | 0.082 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:47 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.51 | 0.085 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:47 | 1 |
| Benzo[k]fluoranthene | ND | | 0.51 | 0.047 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:47 | 1 |
| Chrysene | ND | | 0.51 | 0.069 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:47 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.51 | 0.11 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:47 | 1 |
| Fluoranthene | ND | | 0.51 | 0.060 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:47 | 1 |
| Fluorene | ND | | 0.51 | 0.068 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:47 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.51 | 0.093 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:47 | 1 |
| Naphthalene | ND | | 0.51 | 0.059 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:47 | 1 |
| Phenanthrene | ND | | 0.51 | 0.062 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:47 | 1 |
| Pyrene | ND | | 0.51 | 0.077 | mg/Kg | | 04/15/21 10:33 | 04/16/21 19:47 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *70* | | *10 - 134* | *04/15/21 10:33* | *04/16/21 19:47* | *1* |
| *2-Fluorobiphenyl (Surr)* | *68* | | *14 - 142* | *04/15/21 10:33* | *04/16/21 19:47* | *1* |
| *2-Fluorophenol (Surr)* | *69* | | *10 - 123* | *04/15/21 10:33* | *04/16/21 19:47* | *1* |
| *Nitrobenzene-d5 (Surr)* | *67* | | *10 - 129* | *04/15/21 10:33* | *04/16/21 19:47* | *1* |
| *Phenol-d6 (Surr)* | *65* | | *10 - 120* | *04/15/21 10:33* | *04/16/21 19:47* | *1* |
| *p-Terphenyl-d14 (Surr)* | *74* | | *31 - 139* | *04/15/21 10:33* | *04/16/21 19:47* | *1* |

**Client Sample ID: SSD-11-5.0**
**Date Collected: 04/13/21 11:10**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-24**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:05 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:05 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:05 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:05 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:05 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.045 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:05 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:05 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:05 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:05 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:05 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:05 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SSD-11-5.0**
**Date Collected: 04/13/21 11:10**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-24**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:05 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:05 | 1 |
| Fluorene | ND | | 0.50 | 0.066 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:05 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:05 | 1 |
| Naphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:05 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:05 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *67* | | *10 - 134* | *04/15/21 10:33* | *04/16/21 20:05* | *1* |
| *2-Fluorobiphenyl (Surr)* | *71* | | *14 - 142* | *04/15/21 10:33* | *04/16/21 20:05* | *1* |
| *2-Fluorophenol (Surr)* | *70* | | *10 - 123* | *04/15/21 10:33* | *04/16/21 20:05* | *1* |
| *Nitrobenzene-d5 (Surr)* | *68* | | *10 - 129* | *04/15/21 10:33* | *04/16/21 20:05* | *1* |
| *Phenol-d6 (Surr)* | *68* | | *10 - 120* | *04/15/21 10:33* | *04/16/21 20:05* | *1* |
| *p-Terphenyl-d14 (Surr)* | *72* | | *31 - 139* | *04/15/21 10:33* | *04/16/21 20:05* | *1* |

**Client Sample ID: SSD-11-8.0**
**Date Collected: 04/13/21 11:12**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-25**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:24 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:24 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:24 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:24 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:24 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.045 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:24 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:24 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:24 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:24 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:24 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:24 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:24 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:24 | 1 |
| Fluorene | ND | | 0.50 | 0.066 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:24 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:24 | 1 |
| Naphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:24 | 1 |
| Phenanthrene | ND | | 0.50 | 0.060 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:24 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *74* | | *10 - 134* | *04/15/21 10:33* | *04/16/21 20:24* | *1* |
| *2-Fluorobiphenyl (Surr)* | *74* | | *14 - 142* | *04/15/21 10:33* | *04/16/21 20:24* | *1* |
| *2-Fluorophenol (Surr)* | *75* | | *10 - 123* | *04/15/21 10:33* | *04/16/21 20:24* | *1* |
| *Nitrobenzene-d5 (Surr)* | *73* | | *10 - 129* | *04/15/21 10:33* | *04/16/21 20:24* | *1* |
| *Phenol-d6 (Surr)* | *73* | | *10 - 120* | *04/15/21 10:33* | *04/16/21 20:24* | *1* |
| *p-Terphenyl-d14 (Surr)* | *77* | | *31 - 139* | *04/15/21 10:33* | *04/16/21 20:24* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Client Sample ID: SW-2-C-5.0**
**Date Collected: 04/13/21 11:20**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-26**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.49 | 0.036 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:42 | 1 |
| 2-Methylnaphthalene | ND | | 0.49 | 0.056 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:42 | 1 |
| Acenaphthene | ND | | 0.49 | 0.053 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:42 | 1 |
| Acenaphthylene | ND | | 0.49 | 0.038 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:42 | 1 |
| Anthracene | ND | | 0.49 | 0.050 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:42 | 1 |
| Benzo[a]anthracene | ND | | 0.49 | 0.045 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:42 | 1 |
| Benzo[a]pyrene | ND | | 0.49 | 0.075 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:42 | 1 |
| Benzo[b]fluoranthene | ND | | 0.49 | 0.078 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:42 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.49 | 0.082 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:42 | 1 |
| Benzo[k]fluoranthene | ND | | 0.49 | 0.045 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:42 | 1 |
| Chrysene | ND | | 0.49 | 0.066 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:42 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.49 | 0.10 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:42 | 1 |
| Fluoranthene | ND | | 0.49 | 0.057 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:42 | 1 |
| Fluorene | ND | | 0.49 | 0.065 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:42 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.49 | 0.089 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:42 | 1 |
| Naphthalene | ND | | 0.49 | 0.056 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:42 | 1 |
| Phenanthrene | ND | | 0.49 | 0.060 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:42 | 1 |
| Pyrene | ND | | 0.49 | 0.074 | mg/Kg | | 04/15/21 10:33 | 04/16/21 20:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *67* | | *10 - 134* | *04/15/21 10:33* | *04/16/21 20:42* | *1* |
| *2-Fluorobiphenyl (Surr)* | *70* | | *14 - 142* | *04/15/21 10:33* | *04/16/21 20:42* | *1* |
| *2-Fluorophenol (Surr)* | *68* | | *10 - 123* | *04/15/21 10:33* | *04/16/21 20:42* | *1* |
| *Nitrobenzene-d5 (Surr)* | *69* | | *10 - 129* | *04/15/21 10:33* | *04/16/21 20:42* | *1* |
| *Phenol-d6 (Surr)* | *67* | | *10 - 120* | *04/15/21 10:33* | *04/16/21 20:42* | *1* |
| *p-Terphenyl-d14 (Surr)* | *74* | | *31 - 139* | *04/15/21 10:33* | *04/16/21 20:42* | *1* |

**Client Sample ID: SW-3-C-5.0**
**Date Collected: 04/13/21 11:48**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-31**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.52 | 0.037 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| 2-Methylnaphthalene | ND | | 0.52 | 0.059 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| Acenaphthene | ND | | 0.52 | 0.056 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| Acenaphthylene | ND | | 0.52 | 0.040 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| Anthracene | ND | | 0.52 | 0.052 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| Benzo[a]anthracene | ND | | 0.52 | 0.047 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| Benzo[a]pyrene | ND | | 0.52 | 0.079 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| Benzo[b]fluoranthene | ND | | 0.52 | 0.082 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.52 | 0.086 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| Benzo[k]fluoranthene | ND | | 0.52 | 0.048 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| Chrysene | ND | | 0.52 | 0.070 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.52 | 0.11 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| Fluoranthene | ND | | 0.52 | 0.060 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| Fluorene | ND | | 0.52 | 0.069 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.52 | 0.093 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| Naphthalene | ND | | 0.52 | 0.059 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| Phenanthrene | ND | | 0.52 | 0.063 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| Pyrene | ND | | 0.52 | 0.078 | mg/Kg | | 04/15/21 10:33 | 04/16/21 21:00 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 67 | | 10 - 134 | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| 2-Fluorobiphenyl (Surr) | 67 | | 14 - 142 | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| 2-Fluorophenol (Surr) | 69 | | 10 - 123 | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| Nitrobenzene-d5 (Surr) | 65 | | 10 - 129 | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| Phenol-d6 (Surr) | 66 | | 10 - 120 | 04/15/21 10:33 | 04/16/21 21:00 | 1 |
| p-Terphenyl-d14 (Surr) | 71 | | 31 - 139 | 04/15/21 10:33 | 04/16/21 21:00 | 1 |

## Method: 8015B - Gasoline Range Organics - (GC)

**Client Sample ID: TW-3-50**
**Date Collected: 04/12/21 14:30**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.072 | 0.040 | mg/Kg | | 04/15/21 18:13 | 04/17/21 10:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *79* | | *42 - 126* | *04/15/21 18:13* | *04/17/21 10:41* | *1* |

**Client Sample ID: TW-3-60**
**Date Collected: 04/12/21 14:40**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.080 | 0.045 | mg/Kg | | 04/15/21 18:13 | 04/17/21 05:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *41* | *S1-* | *42 - 126* | *04/15/21 18:13* | *04/17/21 05:05* | *1* |

**Client Sample ID: G-15-C-5.0**
**Date Collected: 04/12/21 15:00**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-3**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.081 | 0.045 | mg/Kg | | 04/15/21 18:13 | 04/17/21 05:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *88* | | *42 - 126* | *04/15/21 18:13* | *04/17/21 05:29* | *1* |

**Client Sample ID: TW-2-10**
**Date Collected: 04/12/21 15:40**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-4**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.076 | 0.042 | mg/Kg | | 04/15/21 18:13 | 04/17/21 05:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *83* | | *42 - 126* | *04/15/21 18:13* | *04/17/21 05:53* | *1* |

**Client Sample ID: TW-2-20**
**Date Collected: 04/12/21 15:50**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-5**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.071 | 0.040 | mg/Kg | | 04/15/21 18:13 | 04/17/21 06:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *80* | | *42 - 126* | *04/15/21 18:13* | *04/17/21 06:17* | *1* |

**Client Sample ID: TW-2-30**
**Date Collected: 04/12/21 16:00**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-6**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.072 | 0.040 | mg/Kg | | 04/15/21 18:13 | 04/17/21 06:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *77* | | *42 - 126* | *04/15/21 18:13* | *04/17/21 06:41* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Client Sample ID: TW-2-40**
**Date Collected: 04/12/21 16:07**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-7**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.073 | 0.041 | mg/Kg | | 04/15/21 18:13 | 04/17/21 07:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *77* | | *42 - 126* | *04/15/21 18:13* | *04/17/21 07:53* | *1* |

**Client Sample ID: SB-4-5.0**
**Date Collected: 04/12/21 16:15**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-8**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.086 | 0.048 | mg/Kg | | 04/15/21 18:13 | 04/17/21 08:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *70* | | *42 - 126* | *04/15/21 18:13* | *04/17/21 08:17* | *1* |

**Client Sample ID: G-16-C-5.0**
**Date Collected: 04/13/21 08:50**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-9**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.079 | 0.044 | mg/Kg | | 04/15/21 18:13 | 04/20/21 12:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *80* | | *42 - 126* | *04/15/21 18:13* | *04/20/21 12:55* | *1* |

**Client Sample ID: G-17-C-5.0**
**Date Collected: 04/13/21 08:45**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-10**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **GRO (C6-C12)** | **1.6** | | 0.076 | 0.042 | mg/Kg | | 04/15/21 18:13 | 04/17/21 09:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *66* | | *42 - 126* | *04/15/21 18:13* | *04/17/21 09:05* | *1* |

**Client Sample ID: G-27-C-5.0**
**Date Collected: 04/13/21 09:30**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-11**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.082 | 0.046 | mg/Kg | | 04/15/21 18:13 | 04/17/21 09:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *86* | | *42 - 126* | *04/15/21 18:13* | *04/17/21 09:29* | *1* |

**Client Sample ID: SW-2-C-5.0**
**Date Collected: 04/13/21 11:20**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-26**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.089 | 0.050 | mg/Kg | | 04/15/21 18:13 | 04/17/21 09:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *89* | | *42 - 126* | *04/15/21 18:13* | *04/17/21 09:53* | *1* |

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56470-1

## Method: 8015B - Gasoline Range Organics - (GC)

**Client Sample ID: SW-3-C-5.0**
**Date Collected: 04/13/21 11:48**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-31**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | 0.26 | | 0.087 | 0.048 | mg/Kg | | 04/15/21 18:13 | 04/17/21 10:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *88* | | *42 - 126* | *04/15/21 18:13* | *04/17/21 10:17* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Client Sample ID: G-15-C-5.0**
**Date Collected: 04/12/21 15:00**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-3**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 4.7 | 3.6 | mg/Kg | | 04/20/21 13:40 | 04/21/21 12:26 | 1 |
| C23-C40 | ND | | 4.7 | 3.6 | mg/Kg | | 04/20/21 13:40 | 04/21/21 12:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *92* | | *60 - 138* | *04/20/21 13:40* | *04/21/21 12:26* | *1* |

**Client Sample ID: TW-2-10**
**Date Collected: 04/12/21 15:40**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-4**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 4.9 | 3.8 | mg/Kg | | 04/20/21 13:40 | 04/21/21 12:47 | 1 |
| C23-C40 | ND | | 4.9 | 3.8 | mg/Kg | | 04/20/21 13:40 | 04/21/21 12:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *93* | | *60 - 138* | *04/20/21 13:40* | *04/21/21 12:47* | *1* |

**Client Sample ID: SB-4-5.0**
**Date Collected: 04/12/21 16:15**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-8**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 4.9 | 3.8 | mg/Kg | | 04/20/21 13:40 | 04/21/21 13:08 | 1 |
| **C23-C40** | **5.8** | | 4.9 | 3.8 | mg/Kg | | 04/20/21 13:40 | 04/21/21 13:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *94* | | *60 - 138* | *04/20/21 13:40* | *04/21/21 13:08* | *1* |

**Client Sample ID: G-16-C-5.0**
**Date Collected: 04/13/21 08:50**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-9**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 4.9 | 3.8 | mg/Kg | | 04/20/21 13:40 | 04/21/21 13:29 | 1 |
| C23-C40 | ND | | 4.9 | 3.8 | mg/Kg | | 04/20/21 13:40 | 04/21/21 13:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *91* | | *60 - 138* | *04/20/21 13:40* | *04/21/21 13:29* | *1* |

**Client Sample ID: G-17-C-5.0**
**Date Collected: 04/13/21 08:45**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-10**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 4.9 | 3.8 | mg/Kg | | 04/20/21 13:40 | 04/21/21 13:50 | 1 |
| C23-C40 | ND | | 4.9 | 3.8 | mg/Kg | | 04/20/21 13:40 | 04/21/21 13:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *95* | | *60 - 138* | *04/20/21 13:40* | *04/21/21 13:50* | *1* |

**Client Sample ID: G-27-C-5.0**
**Date Collected: 04/13/21 09:30**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-11**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 5.2 | 4.0 | mg/Kg | | 04/20/21 13:40 | 04/21/21 14:11 | 1 |
| C23-C40 | ND | | 5.2 | 4.0 | mg/Kg | | 04/20/21 13:40 | 04/21/21 14:11 | 1 |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *95* | | *60 - 138* | *04/20/21 13:40* | *04/21/21 14:11* | *1* |

**Client Sample ID: SW-2-C-5.0**
**Date Collected: 04/13/21 11:20**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-26**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 4.8 | 3.7 | mg/Kg | | 04/20/21 13:40 | 04/21/21 14:31 | 1 |
| C23-C40 | ND | | 4.8 | 3.7 | mg/Kg | | 04/20/21 13:40 | 04/21/21 14:31 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *89* | | *60 - 138* | *04/20/21 13:40* | *04/21/21 14:31* | *1* |

**Client Sample ID: SW-3-C-5.0**
**Date Collected: 04/13/21 11:48**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-31**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 4.7 | 3.6 | mg/Kg | | 04/20/21 13:40 | 04/21/21 14:52 | 1 |
| C23-C40 | ND | | 4.7 | 3.6 | mg/Kg | | 04/20/21 13:40 | 04/21/21 14:52 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *94* | | *60 - 138* | *04/20/21 13:40* | *04/21/21 14:52* | *1* |

## Method: 8081A - Organochlorine Pesticides (GC)

**Client Sample ID: SSD-12-0.0**
**Date Collected: 04/13/21 10:15**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-12**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **4,4'-DDD** | **4.5** | **J** | 5.0 | 0.99 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |
| **4,4'-DDE** | **0.95** | **J p** | 5.0 | 0.54 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |
| 4,4'-DDT | ND | | 5.0 | 0.36 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |
| Endosulfan I | ND | | 5.0 | 0.44 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |
| Endrin ketone | ND | | 5.0 | 0.48 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |
| **gamma-Chlordane** | **0.26** | **J p** | 5.0 | 0.26 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |
| Heptachlor | ND | | 5.0 | 0.89 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.67 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/15/21 10:38 | 04/19/21 07:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *66* | | *38 - 148* | *04/15/21 10:38* | *04/19/21 07:50* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *88* | | *37 - 151* | *04/15/21 10:38* | *04/19/21 07:50* | *1* |

**Client Sample ID: SSD-12-1.0**
**Date Collected: 04/13/21 10:17**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-13**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.99 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.54 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |
| 4,4'-DDT | ND | | 5.0 | 0.36 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |
| Endosulfan I | ND | | 5.0 | 0.44 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |
| Endrin | ND | | 5.0 | 0.34 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |
| Endrin ketone | ND | | 5.0 | 0.48 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.26 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |
| Heptachlor | ND | | 5.0 | 0.89 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Client Sample ID: SSD-12-1.0**
**Date Collected: 04/13/21 10:17**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-13**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Heptachlor epoxide | ND | | 5.0 | 0.67 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *70* | | *38 - 148* | *04/15/21 10:38* | *04/19/21 08:05* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *81* | | *37 - 151* | *04/15/21 10:38* | *04/19/21 08:05* | *1* |

**Client Sample ID: SSD-12-2.0**
**Date Collected: 04/13/21 10:19**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-14**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.99 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.54 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |
| 4,4'-DDT | ND | | 5.0 | 0.36 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |
| Endosulfan I | ND | | 5.0 | 0.44 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |
| Endrin ketone | ND | | 5.0 | 0.48 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.26 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |
| Heptachlor | ND | | 5.0 | 0.88 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.67 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *82* | | *38 - 148* | *04/15/21 10:38* | *04/18/21 20:00* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *80* | | *37 - 151* | *04/15/21 10:38* | *04/18/21 20:00* | *1* |

**Client Sample ID: SSD-12-3.0**
**Date Collected: 04/13/21 10:21**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-15**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.99 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.54 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |
| 4,4'-DDT | ND | | 5.0 | 0.36 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Client Sample ID: SSD-12-3.0**
**Date Collected: 04/13/21 10:21**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-15**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |
| Endosulfan I | ND | | 5.0 | 0.44 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |
| Endrin ketone | ND | | 5.0 | 0.48 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.26 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |
| Heptachlor | ND | | 5.0 | 0.89 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.67 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/15/21 10:38 | 04/18/21 20:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *83* | | *38 - 148* | *04/15/21 10:38* | *04/18/21 20:15* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *79* | | *37 - 151* | *04/15/21 10:38* | *04/18/21 20:15* | *1* |

**Client Sample ID: SSD-11-0.0**
**Date Collected: 04/13/21 11:00**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-19**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **4,4'-DDD** | **1.4** | **J** | 5.0 | 0.99 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |
| **4,4'-DDE** | **1.8** | **J** | 5.0 | 0.54 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |
| 4,4'-DDT | ND | | 5.0 | 0.36 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |
| **Dieldrin** | **0.78** | **J p** | 5.0 | 0.25 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |
| Endosulfan I | ND | | 5.0 | 0.44 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.41 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |
| Endrin | ND | | 5.0 | 0.34 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |
| Endrin ketone | ND | | 5.0 | 0.48 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |
| **gamma-Chlordane** | **0.42** | **J** | 5.0 | 0.26 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |
| gamma-BHC | ND | | 5.0 | 0.63 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |
| Heptachlor | ND | | 5.0 | 0.89 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.67 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *68* | | *38 - 148* | *04/15/21 10:38* | *04/19/21 08:19* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *93* | | *37 - 151* | *04/15/21 10:38* | *04/19/21 08:19* | *1* |

## Method: 8081A - Organochlorine Pesticides (GC)

**Client Sample ID: SSD-11-1.0**
**Date Collected: 04/13/21 11:02**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-20**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.99 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |
| **4,4'-DDE** | **2.5** | **J** | 5.0 | 0.54 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |
| 4,4'-DDT | ND | | 5.0 | 0.36 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |
| Endosulfan I | ND | | 5.0 | 0.44 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |
| Endrin ketone | ND | | 5.0 | 0.48 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.26 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |
| Heptachlor | ND | | 5.0 | 0.88 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.67 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/15/21 10:38 | 04/19/21 08:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *62* | | *38 - 148* | *04/15/21 10:38* | *04/19/21 08:33* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *116* | | *37 - 151* | *04/15/21 10:38* | *04/19/21 08:33* | *1* |

**Client Sample ID: SSD-11-2.0**
**Date Collected: 04/13/21 11:04**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-21**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.99 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.54 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |
| **4,4'-DDT** | **0.44** | **J p** | 5.0 | 0.36 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |
| Endosulfan I | ND | | 5.0 | 0.44 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |
| Endrin | ND | | 5.0 | 0.34 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |
| Endrin ketone | ND | | 5.0 | 0.48 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.26 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |
| Heptachlor | ND | | 5.0 | 0.89 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Client Sample ID: SSD-11-2.0**
**Date Collected: 04/13/21 11:04**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-21**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Heptachlor epoxide | ND | | 5.0 | 0.67 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *70* | | *38 - 148* | *04/15/21 10:38* | *04/19/21 11:10* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *84* | | *37 - 151* | *04/15/21 10:38* | *04/19/21 11:10* | *1* |

**Client Sample ID: SSD-11-3.0**
**Date Collected: 04/13/21 11:06**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-22**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.98 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.53 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |
| 4,4'-DDT | ND | | 5.0 | 0.36 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |
| beta-BHC | ND | | 5.0 | 3.6 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |
| Endosulfan I | ND | | 5.0 | 0.43 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |
| Endosulfan II | ND | | 5.0 | 0.30 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.72 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |
| Endrin ketone | ND | | 5.0 | 0.47 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.25 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |
| Heptachlor | ND | | 5.0 | 0.88 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.66 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |
| Methoxychlor | ND | | 5.0 | 0.80 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *83* | | *38 - 148* | *04/15/21 10:38* | *04/19/21 02:24* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *88* | | *37 - 151* | *04/15/21 10:38* | *04/19/21 02:24* | *1* |

**Client Sample ID: SW-3-C-0.0**
**Date Collected: 04/13/21 11:40**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-27**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.99 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.54 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |
| **4,4'-DDT** | **0.82** | **J p** | 5.0 | 0.36 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Client Sample ID: SW-3-C-0.0**
**Date Collected: 04/13/21 11:40**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-27**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |
| Endosulfan I | ND | | 5.0 | 0.44 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |
| Endrin ketone | ND | | 5.0 | 0.48 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.26 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |
| Heptachlor | ND | | 5.0 | 0.88 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.67 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *68* | | *38 - 148* | *04/15/21 10:38* | *04/19/21 11:24* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *109* | | *37 - 151* | *04/15/21 10:38* | *04/19/21 11:24* | *1* |

**Client Sample ID: SW-3-C-1.0**
**Date Collected: 04/13/21 11:42**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-28**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.99 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.54 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |
| 4,4'-DDT | ND | | 5.0 | 0.36 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |
| Endosulfan I | ND | | 5.0 | 0.44 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |
| Endrin ketone | ND | | 5.0 | 0.48 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.26 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |
| Heptachlor | ND | | 5.0 | 0.89 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.67 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/15/21 10:38 | 04/19/21 02:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *89* | | *38 - 148* | *04/15/21 10:38* | *04/19/21 02:38* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *86* | | *37 - 151* | *04/15/21 10:38* | *04/19/21 02:38* | *1* |

## Method: 8081A - Organochlorine Pesticides (GC)

**Client Sample ID: SW-3-C-2.0**
**Date Collected: 04/13/21 11:44**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-29**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.99 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.54 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |
| 4,4'-DDT | ND | | 5.0 | 0.36 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |
| Endosulfan I | ND | | 5.0 | 0.44 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |
| Endrin | ND | | 5.0 | 0.34 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |
| Endrin ketone | ND | | 5.0 | 0.48 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.26 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |
| Heptachlor | ND | | 5.0 | 0.89 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.67 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *71* | | *38 - 148* | *04/15/21 10:38* | *04/19/21 11:39* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *76* | | *37 - 151* | *04/15/21 10:38* | *04/19/21 11:39* | *1* |

**Client Sample ID: SW-3-C-3.0**
**Date Collected: 04/13/21 11:46**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-30**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.99 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.54 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |
| 4,4'-DDT | ND | | 5.0 | 0.36 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |
| Endosulfan I | ND | | 5.0 | 0.44 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |
| Endrin ketone | ND | | 5.0 | 0.48 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.26 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |
| Heptachlor | ND | | 5.0 | 0.88 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Client Sample ID: SW-3-C-3.0**
**Date Collected: 04/13/21 11:46**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-30**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Heptachlor epoxide | ND | | 5.0 | 0.67 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/15/21 10:38 | 04/19/21 11:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *64* | | *38 - 148* | *04/15/21 10:38* | *04/19/21 11:53* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *72* | | *37 - 151* | *04/15/21 10:38* | *04/19/21 11:53* | *1* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Client Sample ID: SSD-12-0.0**
**Date Collected: 04/13/21 10:15**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-12**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:52 | 1 |
| Aroclor-1221 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:52 | 1 |
| Aroclor-1232 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:52 | 1 |
| Aroclor-1242 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:52 | 1 |
| **Aroclor-1248** | **17** | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:52 | 1 |
| Aroclor-1254 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:52 | 1 |
| **Aroclor-1260** | **66** | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:52 | 1 |
| Aroclor-1262 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:52 | 1 |
| Aroclor-1268 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *88* | | *25 - 126* | *04/17/21 08:36* | *04/21/21 15:52* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *95* | | *20 - 155* | *04/17/21 08:36* | *04/21/21 15:52* | *1* |

**Client Sample ID: SSD-12-1.0**
**Date Collected: 04/13/21 10:17**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-13**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:10 | 1 |
| Aroclor-1221 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:10 | 1 |
| Aroclor-1232 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:10 | 1 |
| Aroclor-1242 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:10 | 1 |
| Aroclor-1248 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:10 | 1 |
| Aroclor-1254 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:10 | 1 |
| Aroclor-1260 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:10 | 1 |
| Aroclor-1262 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:10 | 1 |
| Aroclor-1268 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *85* | | *25 - 126* | *04/17/21 08:36* | *04/21/21 16:10* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *89* | | *20 - 155* | *04/17/21 08:36* | *04/21/21 16:10* | *1* |

**Client Sample ID: SSD-12-2.0**
**Date Collected: 04/13/21 10:19**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-14**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:28 | 1 |
| Aroclor-1221 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:28 | 1 |
| Aroclor-1232 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:28 | 1 |
| Aroclor-1242 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:28 | 1 |
| Aroclor-1248 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:28 | 1 |
| Aroclor-1254 | ND | | 9.9 | 4.9 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:28 | 1 |
| Aroclor-1260 | ND | | 9.9 | 4.9 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:28 | 1 |
| Aroclor-1262 | ND | | 9.9 | 4.9 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:28 | 1 |
| Aroclor-1268 | ND | | 9.9 | 4.9 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *87* | | *25 - 126* | *04/17/21 08:36* | *04/21/21 16:28* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *88* | | *20 - 155* | *04/17/21 08:36* | *04/21/21 16:28* | *1* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Client Sample ID: SSD-12-3.0**
**Date Collected: 04/13/21 10:21**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-15**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:46 | 1 |
| Aroclor-1221 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:46 | 1 |
| Aroclor-1232 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:46 | 1 |
| Aroclor-1242 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:46 | 1 |
| Aroclor-1248 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:46 | 1 |
| Aroclor-1254 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:46 | 1 |
| Aroclor-1260 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:46 | 1 |
| Aroclor-1262 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:46 | 1 |
| Aroclor-1268 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *80* | | *25 - 126* | *04/17/21 08:36* | *04/21/21 16:46* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *89* | | *20 - 155* | *04/17/21 08:36* | *04/21/21 16:46* | *1* |

**Client Sample ID: SSD-11-0.0**
**Date Collected: 04/13/21 11:00**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-19**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:18 | 1 |
| Aroclor-1221 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:18 | 1 |
| Aroclor-1232 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:18 | 1 |
| Aroclor-1242 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:18 | 1 |
| Aroclor-1248 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:18 | 1 |
| Aroclor-1254 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:18 | 1 |
| **Aroclor-1260** | **35** | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:18 | 1 |
| Aroclor-1262 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:18 | 1 |
| Aroclor-1268 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *81* | | *25 - 126* | *04/17/21 08:36* | *04/21/21 14:18* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *72* | | *20 - 155* | *04/17/21 08:36* | *04/21/21 14:18* | *1* |

**Client Sample ID: SSD-11-1.0**
**Date Collected: 04/13/21 11:02**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-20**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:36 | 1 |
| Aroclor-1221 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:36 | 1 |
| Aroclor-1232 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:36 | 1 |
| Aroclor-1242 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:36 | 1 |
| Aroclor-1248 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:36 | 1 |
| Aroclor-1254 | ND | | 9.9 | 4.9 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:36 | 1 |
| **Aroclor-1260** | **8.6** | **J** | 9.9 | 4.9 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:36 | 1 |
| Aroclor-1262 | ND | | 9.9 | 4.9 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:36 | 1 |
| Aroclor-1268 | ND | | 9.9 | 4.9 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *68* | | *25 - 126* | *04/17/21 08:36* | *04/21/21 14:36* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *152* | | *20 - 155* | *04/17/21 08:36* | *04/21/21 14:36* | *1* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Client Sample ID: SSD-11-2.0**
**Date Collected: 04/13/21 11:04**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-21**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:54 | 1 |
| Aroclor-1221 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:54 | 1 |
| Aroclor-1232 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:54 | 1 |
| Aroclor-1242 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:54 | 1 |
| Aroclor-1248 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:54 | 1 |
| Aroclor-1254 | ND | | 9.9 | 4.9 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:54 | 1 |
| Aroclor-1260 | ND | | 9.9 | 4.9 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:54 | 1 |
| Aroclor-1262 | ND | | 9.9 | 4.9 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:54 | 1 |
| Aroclor-1268 | ND | | 9.9 | 4.9 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *86* | | *25 - 126* | *04/17/21 08:36* | *04/21/21 14:54* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *68* | | *20 - 155* | *04/17/21 08:36* | *04/21/21 14:54* | *1* |

**Client Sample ID: SSD-11-3.0**
**Date Collected: 04/13/21 11:06**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-22**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:12 | 1 |
| Aroclor-1221 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:12 | 1 |
| Aroclor-1232 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:12 | 1 |
| Aroclor-1242 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:12 | 1 |
| Aroclor-1248 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:12 | 1 |
| Aroclor-1254 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:12 | 1 |
| Aroclor-1260 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:12 | 1 |
| Aroclor-1262 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:12 | 1 |
| Aroclor-1268 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *83* | | *25 - 126* | *04/17/21 08:36* | *04/21/21 15:12* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *67* | | *20 - 155* | *04/17/21 08:36* | *04/21/21 15:12* | *1* |

**Client Sample ID: SW-3-C-0.0**
**Date Collected: 04/13/21 11:40**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-27**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:31 | 1 |
| Aroclor-1221 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:31 | 1 |
| Aroclor-1232 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:31 | 1 |
| Aroclor-1242 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:31 | 1 |
| Aroclor-1248 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:31 | 1 |
| Aroclor-1254 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:31 | 1 |
| **Aroclor-1260** | **6.0** | **J** | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:31 | 1 |
| Aroclor-1262 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:31 | 1 |
| Aroclor-1268 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *88* | | *25 - 126* | *04/17/21 08:36* | *04/21/21 15:31* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *76* | | *20 - 155* | *04/17/21 08:36* | *04/21/21 15:31* | *1* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Client Sample ID: SW-3-C-1.0**
**Date Collected: 04/13/21 11:42**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-28**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:49 | 1 |
| Aroclor-1221 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:49 | 1 |
| Aroclor-1232 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:49 | 1 |
| Aroclor-1242 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:49 | 1 |
| Aroclor-1248 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:49 | 1 |
| Aroclor-1254 | ND | | 9.9 | 4.9 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:49 | 1 |
| Aroclor-1260 | ND | | 9.9 | 4.9 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:49 | 1 |
| Aroclor-1262 | ND | | 9.9 | 4.9 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:49 | 1 |
| Aroclor-1268 | ND | | 9.9 | 4.9 | ug/Kg | | 04/17/21 08:36 | 04/21/21 15:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *74* | | *25 - 126* | *04/17/21 08:36* | *04/21/21 15:49* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *65* | | *20 - 155* | *04/17/21 08:36* | *04/21/21 15:49* | *1* |

**Client Sample ID: SW-3-C-2.0**
**Date Collected: 04/13/21 11:44**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-29**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:07 | 1 |
| Aroclor-1221 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:07 | 1 |
| Aroclor-1232 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:07 | 1 |
| Aroclor-1242 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:07 | 1 |
| Aroclor-1248 | ND | | 9.9 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:07 | 1 |
| Aroclor-1254 | ND | | 9.9 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:07 | 1 |
| Aroclor-1260 | ND | | 9.9 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:07 | 1 |
| Aroclor-1262 | ND | | 9.9 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:07 | 1 |
| Aroclor-1268 | ND | | 9.9 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:07 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *89* | | *25 - 126* | *04/17/21 08:36* | *04/21/21 16:07* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *74* | | *20 - 155* | *04/17/21 08:36* | *04/21/21 16:07* | *1* |

**Client Sample ID: SW-3-C-3.0**
**Date Collected: 04/13/21 11:46**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-30**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:26 | 1 |
| Aroclor-1221 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:26 | 1 |
| Aroclor-1232 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:26 | 1 |
| Aroclor-1242 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:26 | 1 |
| Aroclor-1248 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:26 | 1 |
| **Aroclor-1254** | **8.7** | **J** | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:26 | 1 |
| Aroclor-1260 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:26 | 1 |
| Aroclor-1262 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:26 | 1 |
| Aroclor-1268 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 16:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *81* | | *25 - 126* | *04/17/21 08:36* | *04/21/21 16:26* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *71* | | *20 - 155* | *04/17/21 08:36* | *04/21/21 16:26* | *1* |

## Method: 6010B - Metals (ICP)

**Client Sample ID: G-17-C-5.0**
**Date Collected: 04/13/21 08:45**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-10**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 9.6 | | 4.8 | 0.93 | mg/Kg | | 04/17/21 13:00 | 04/19/21 22:49 | 1 |

**Client Sample ID: SSD-12-1.0**
**Date Collected: 04/13/21 10:17**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-13**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 30 | | 4.8 | 0.93 | mg/Kg | | 04/17/21 13:00 | 04/19/21 23:01 | 1 |

**Client Sample ID: SSD-12-2.0**
**Date Collected: 04/13/21 10:19**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-14**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 4.4 | J | 4.9 | 0.95 | mg/Kg | | 04/17/21 13:00 | 04/19/21 23:03 | 1 |

**Client Sample ID: SSD-12-3.0**
**Date Collected: 04/13/21 10:21**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-15**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 9.8 | | 5.1 | 0.98 | mg/Kg | | 04/17/21 13:00 | 04/19/21 23:04 | 1 |

**Client Sample ID: SSD-12-4.0**
**Date Collected: 04/13/21 10:23**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-16**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 3.7 | J | 4.8 | 0.93 | mg/Kg | | 04/17/21 13:00 | 04/19/21 23:06 | 1 |

**Client Sample ID: SSD-11-1.0**
**Date Collected: 04/13/21 11:02**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-20**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 380 | | 4.9 | 0.95 | mg/Kg | | 04/17/21 13:00 | 04/19/21 23:08 | 1 |

**Client Sample ID: SSD-11-2.0**
**Date Collected: 04/13/21 11:04**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-21**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 35 | | 4.8 | 0.92 | mg/Kg | | 04/17/21 13:00 | 04/19/21 23:10 | 1 |

**Client Sample ID: SSD-11-3.0**
**Date Collected: 04/13/21 11:06**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-22**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 7.8 | | 5.0 | 0.96 | mg/Kg | | 04/17/21 13:00 | 04/19/21 23:12 | 1 |

**Client Sample ID: SSD-11-.4.0**
**Date Collected: 04/13/21 11:08**
**Date Received: 04/14/21 09:50**

**Lab Sample ID: 570-56470-23**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 15 | | 5.0 | 0.97 | mg/Kg | | 04/17/21 13:00 | 04/19/21 23:14 | 1 |

# Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56470-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | BFB | DBFM | TOL |
| Lab Sample ID | Client Sample ID | (80-142) | (80-120) | (80-123) | (80-120) |
| 570-56470-1 | TW-3-50 | 94 | 94 | 92 | 94 |
| 570-56470-2 | TW-3-60 | 93 | 90 | 91 | 96 |
| 570-56470-3 | G-15-C-5.0 | 95 | 92 | 95 | 96 |
| 570-56470-4 | TW-2-10 | 97 | 90 | 96 | 96 |
| 570-56470-5 | TW-2-20 | 95 | 90 | 95 | 96 |
| 570-56470-6 | TW-2-30 | 96 | 91 | 96 | 97 |
| 570-56470-7 | TW-2-40 | 98 | 91 | 97 | 96 |
| 570-56470-8 | SB-4-5.0 | 96 | 91 | 97 | 96 |
| 570-56470-9 | G-16-C-5.0 | 96 | 91 | 97 | 97 |
| 570-56470-10 | G-17-C-5.0 | 97 | 94 | 101 | 98 |
| 570-56470-11 | G-27-C-5.0 | 98 | 92 | 97 | 95 |
| 570-56470-26 | SW-2-C-5.0 | 98 | 91 | 96 | 96 |
| 570-56470-31 | SW-3-C-5.0 | 101 | 92 | 99 | 98 |
| LCS 570-143655/3 | Lab Control Sample | 82 | 90 | 99 | 99 |
| LCSD 570-143655/4 | Lab Control Sample Dup | 82 | 91 | 99 | 99 |
| MB 570-143655/8 | Method Blank | 86 | 90 | 92 | 96 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | |
|---|---|---|---|---|---|---|---|
| | | TBP | FBP | 2FP | NBZ | PHL6 | TPHd14 |
| Lab Sample ID | Client Sample ID | (10-134) | (14-142) | (10-123) | (10-129) | (10-120) | (31-139) |
| 570-56456-A-2-B MS | Matrix Spike | 13 | 73 | 44 | 62 | 58 | 86 |
| 570-56456-A-2-C MSD | Matrix Spike Duplicate | 12 | 72 | 45 | 60 | 62 | 86 |
| 570-56470-3 | G-15-C-5.0 | 74 | 77 | 78 | 75 | 76 | 82 |
| 570-56470-4 | TW-2-10 | 72 | 72 | 74 | 70 | 70 | 74 |
| 570-56470-8 | SB-4-5.0 | 68 | 66 | 68 | 65 | 65 | 71 |
| 570-56470-9 | G-16-C-5.0 | 80 | 77 | 79 | 75 | 77 | 80 |
| 570-56470-10 | G-17-C-5.0 | 74 | 73 | 75 | 70 | 70 | 74 |
| 570-56470-11 | G-27-C-5.0 | 71 | 73 | 73 | 70 | 70 | 75 |
| 570-56470-17 | SSD-12-5.0 | 69 | 67 | 72 | 67 | 69 | 74 |
| 570-56470-18 | SSD-12-8.0 | 70 | 68 | 69 | 67 | 65 | 74 |
| 570-56470-24 | SSD-11-5.0 | 67 | 71 | 70 | 68 | 68 | 72 |
| 570-56470-25 | SSD-11-8.0 | 74 | 74 | 75 | 73 | 73 | 77 |
| 570-56470-26 | SW-2-C-5.0 | 67 | 70 | 68 | 69 | 67 | 74 |
| 570-56470-31 | SW-3-C-5.0 | 67 | 67 | 69 | 65 | 66 | 71 |
| LCS 570-143342/2-A | Lab Control Sample | 97 | 91 | 93 | 79 | 85 | 98 |
| LCSD 570-143342/3-A | Lab Control Sample Dup | 100 | 94 | 92 | 80 | 83 | 100 |
| MB 570-143342/1-A | Method Blank | 94 | 95 | 89 | 90 | 84 | 97 |

**Surrogate Legend**

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)

# Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56470-1

NBZ = Nitrobenzene-d5 (Surr)
PHL6 = Phenol-d6 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

## Method: 8015B - Gasoline Range Organics - (GC)

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) |
|---|---|---|
| Lab Sample ID | Client Sample ID | BFB1 (42-126) |
| 570-56470-1 | TW-3-50 | 79 |
| 570-56470-2 | TW-3-60 | 41 S1- |
| 570-56470-3 | G-15-C-5.0 | 88 |
| 570-56470-4 | TW-2-10 | 83 |
| 570-56470-5 | TW-2-20 | 80 |
| 570-56470-6 | TW-2-30 | 77 |
| 570-56470-7 | TW-2-40 | 77 |
| 570-56470-8 | SB-4-5.0 | 70 |
| 570-56470-9 | G-16-C-5.0 | 80 |
| 570-56470-10 | G-17-C-5.0 | 66 |
| 570-56470-11 | G-27-C-5.0 | 86 |
| 570-56470-26 | SW-2-C-5.0 | 89 |
| 570-56470-31 | SW-3-C-5.0 | 88 |
| LCS 570-143856/31 | Lab Control Sample | 110 |
| LCS 570-144522/3 | Lab Control Sample | 98 |
| LCSD 570-143856/32 | Lab Control Sample Dup | 107 |
| LCSD 570-144522/4 | Lab Control Sample Dup | 98 |
| MB 570-143856/33 | Method Blank | 86 |
| MB 570-144522/5 | Method Blank | 82 |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) |
|---|---|---|
| Lab Sample ID | Client Sample ID | OTCSN1 (60-138) |
| 570-56470-3 | G-15-C-5.0 | 92 |
| 570-56470-4 | TW-2-10 | 93 |
| 570-56470-8 | SB-4-5.0 | 94 |
| 570-56470-9 | G-16-C-5.0 | 91 |
| 570-56470-10 | G-17-C-5.0 | 95 |
| 570-56470-11 | G-27-C-5.0 | 95 |
| 570-56470-26 | SW-2-C-5.0 | 89 |
| 570-56470-31 | SW-3-C-5.0 | 94 |
| 570-56676-A-1-D MS | Matrix Spike | 88 |
| 570-56676-A-1-E MSD | Matrix Spike Duplicate | 63 |
| LCS 570-144622/2-A | Lab Control Sample | 91 |
| LCSD 570-144622/3-A | Lab Control Sample Dup | 94 |
| MB 570-144622/1-A | Method Blank | 98 |

**Surrogate Legend**

OTCSN = n-Octacosane (Surr)

# Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56470-1

## Method: 8081A - Organochlorine Pesticides (GC)

**Matrix: Solid**

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| | | TCX1 | DCB1 |
| Lab Sample ID | Client Sample ID | (38-148) | (37-151) |
| 570-56470-12 | SSD-12-0.0 | 66 | 88 |
| 570-56470-13 | SSD-12-1.0 | 70 | 81 |
| 570-56470-14 | SSD-12-2.0 | 82 | 80 |
| 570-56470-15 | SSD-12-3.0 | 83 | 79 |
| 570-56470-19 | SSD-11-0.0 | 68 | 93 |
| 570-56470-20 | SSD-11-1.0 | 62 | 116 |
| 570-56470-21 | SSD-11-2.0 | 70 | 84 |
| 570-56470-22 | SSD-11-3.0 | 83 | 88 |
| 570-56470-22 MS | SSD-11-3.0 | 80 | 82 |
| 570-56470-22 MSD | SSD-11-3.0 | 85 | 86 |
| 570-56470-27 | SW-3-C-0.0 | 68 | 109 |
| 570-56470-28 | SW-3-C-1.0 | 89 | 86 |
| 570-56470-29 | SW-3-C-2.0 | 71 | 76 |
| 570-56470-30 | SW-3-C-3.0 | 64 | 72 |
| LCS 570-143475/2-A | Lab Control Sample | 93 | 93 |
| LCSD 570-143475/3-A | Lab Control Sample Dup | 94 | 94 |
| MB 570-143475/1-A | Method Blank | 96 | 97 |

**Surrogate Legend**

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Matrix: Solid**

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| | | TCX1 | DCB1 |
| Lab Sample ID | Client Sample ID | (25-126) | (20-155) |
| 570-56470-12 | SSD-12-0.0 | 88 | 95 |
| 570-56470-13 | SSD-12-1.0 | 85 | 89 |
| 570-56470-14 | SSD-12-2.0 | 87 | 88 |
| 570-56470-15 | SSD-12-3.0 | 80 | 89 |
| 570-56470-15 MS | SSD-12-3.0 | 81 | 91 |
| 570-56470-15 MSD | SSD-12-3.0 | 82 | 89 |
| 570-56470-19 | SSD-11-0.0 | 81 | 72 |
| 570-56470-20 | SSD-11-1.0 | 68 | 152 |
| 570-56470-21 | SSD-11-2.0 | 86 | 68 |
| 570-56470-22 | SSD-11-3.0 | 83 | 67 |
| 570-56470-27 | SW-3-C-0.0 | 88 | 76 |
| 570-56470-28 | SW-3-C-1.0 | 74 | 65 |
| 570-56470-29 | SW-3-C-2.0 | 89 | 74 |
| 570-56470-30 | SW-3-C-3.0 | 81 | 71 |
| LCS 570-144014/2-A | Lab Control Sample | 104 | 98 |
| LCSD 570-144014/3-A | Lab Control Sample Dup | 105 | 99 |
| MB 570-144014/1-A | Method Blank | 97 | 104 |

**Surrogate Legend**

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 570-143655/8**
**Matrix: Solid**
**Analysis Batch: 143655**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.0010 | 0.00029 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.0010 | 0.00023 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0020 | 0.00054 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.010 | 0.00046 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.0010 | 0.00046 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 1,1-Dichloroethane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 1,1-Dichloroethene | ND | | 0.0010 | 0.00027 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 1,1-Dichloropropene | ND | | 0.0020 | 0.00039 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0020 | 0.0010 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0020 | 0.00042 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0020 | 0.00041 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.010 | 0.0068 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 1,2-Dibromoethane | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 1,2-Dichloroethane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 1,2-Dichloropropane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 1,3-Dichloropropane | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.0010 | 0.00031 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 2,2-Dichloropropane | ND | | 0.0050 | 0.00027 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 2-Butanone | ND | | 0.020 | 0.0045 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 2-Chlorotoluene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 2-Hexanone | ND | | 0.020 | 0.0031 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 4-Chlorotoluene | ND | | 0.0010 | 0.00024 | mg/Kg | | | 04/15/21 22:57 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.020 | 0.0029 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Acetone | ND | | 0.020 | 0.0098 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Benzene | ND | | 0.0010 | 0.00026 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Bromobenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Bromochloromethane | ND | | 0.0020 | 0.00044 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Bromodichloromethane | ND | | 0.0010 | 0.00016 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Bromoform | ND | | 0.0050 | 0.0013 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Bromomethane | ND | | 0.020 | 0.0066 | mg/Kg | | | 04/15/21 22:57 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.0010 | 0.00034 | mg/Kg | | | 04/15/21 22:57 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.0010 | 0.00035 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Carbon disulfide | ND | | 0.010 | 0.00040 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Carbon tetrachloride | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Chlorobenzene | ND | | 0.0010 | 0.00027 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Chloroethane | ND | | 0.0020 | 0.0015 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Chloroform | ND | | 0.0010 | 0.00059 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Chloromethane | ND | | 0.020 | 0.0015 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Dibromochloromethane | ND | | 0.0020 | 0.00027 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Dibromomethane | ND | | 0.0010 | 0.00031 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Dichlorodifluoromethane | ND | | 0.0020 | 0.00045 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Ethylbenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Isopropylbenzene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Methylene Chloride | ND | | 0.010 | 0.0031 | mg/Kg | | | 04/15/21 22:57 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-143655/8**
**Matrix: Solid**
**Analysis Batch: 143655**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0020 | 0.00019 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Naphthalene | ND | | 0.010 | 0.0052 | mg/Kg | | | 04/15/21 22:57 | 1 |
| n-Butylbenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/15/21 22:57 | 1 |
| N-Propylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/15/21 22:57 | 1 |
| o-Xylene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/15/21 22:57 | 1 |
| m,p-Xylene | ND | | 0.0020 | 0.00047 | mg/Kg | | | 04/15/21 22:57 | 1 |
| p-Isopropyltoluene | ND | | 0.0010 | 0.00070 | mg/Kg | | | 04/15/21 22:57 | 1 |
| sec-Butylbenzene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Styrene | ND | | 0.0010 | 0.00070 | mg/Kg | | | 04/15/21 22:57 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/15/21 22:57 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0020 | 0.00028 | mg/Kg | | | 04/15/21 22:57 | 1 |
| tert-Butylbenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Tetrachloroethene | ND | | 0.0010 | 0.00022 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Toluene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Trichloroethene | ND | | 0.0020 | 0.00039 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Trichlorofluoromethane | ND | | 0.010 | 0.00027 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Vinyl acetate | ND | | 0.010 | 0.0039 | mg/Kg | | | 04/15/21 22:57 | 1 |
| Vinyl chloride | ND | | 0.0010 | 0.00038 | mg/Kg | | | 04/15/21 22:57 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *86* | | *80 - 142* | | *04/15/21 22:57* | *1* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *80 - 120* | | *04/15/21 22:57* | *1* |
| *Dibromofluoromethane (Surr)* | *92* | | *80 - 123* | | *04/15/21 22:57* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *80 - 120* | | *04/15/21 22:57* | *1* |

**Lab Sample ID: LCS 570-143655/3**
**Matrix: Solid**
**Analysis Batch: 143655**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.0500 | 0.0485 | | mg/Kg | | 97 | 67 - 122 |
| 1,2-Dibromoethane | 0.0500 | 0.0503 | | mg/Kg | | 101 | 80 - 123 |
| 1,2-Dichlorobenzene | 0.0500 | 0.0509 | | mg/Kg | | 102 | 80 - 120 |
| 1,2-Dichloroethane | 0.0500 | 0.0396 | *- | mg/Kg | | 79 | 80 - 125 |
| Benzene | 0.0500 | 0.0488 | | mg/Kg | | 98 | 79 - 120 |
| Carbon tetrachloride | 0.0500 | 0.0450 | | mg/Kg | | 90 | 69 - 132 |
| Chlorobenzene | 0.0500 | 0.0510 | | mg/Kg | | 102 | 80 - 120 |
| Ethylbenzene | 0.0500 | 0.0475 | | mg/Kg | | 95 | 80 - 120 |
| Methyl-t-Butyl Ether (MTBE) | 0.0500 | 0.0449 | | mg/Kg | | 90 | 68 - 120 |
| o-Xylene | 0.0500 | 0.0482 | | mg/Kg | | 96 | 79 - 120 |
| m,p-Xylene | 0.100 | 0.0925 | | mg/Kg | | 93 | 79 - 120 |
| Toluene | 0.0500 | 0.0504 | | mg/Kg | | 101 | 80 - 120 |
| Trichloroethene | 0.0500 | 0.0478 | | mg/Kg | | 96 | 80 - 121 |
| Vinyl chloride | 0.0500 | 0.0501 | | mg/Kg | | 100 | 66 - 128 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *82* | | *80 - 142* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *80 - 120* |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 570-143655/3**
**Matrix: Solid**
**Analysis Batch: 143655**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *99* | | *80 - 123* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* |

**Lab Sample ID: LCSD 570-143655/4**
**Matrix: Solid**
**Analysis Batch: 143655**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | | | 0.0500 | 0.0474 | | mg/Kg | | 95 | 67 - 122 | 2 | 20 |
| 1,2-Dibromoethane | | | 0.0500 | 0.0505 | | mg/Kg | | 101 | 80 - 123 | 1 | 20 |
| 1,2-Dichlorobenzene | | | 0.0500 | 0.0503 | | mg/Kg | | 101 | 80 - 120 | 1 | 20 |
| 1,2-Dichloroethane | | | 0.0500 | 0.0396 | *- | mg/Kg | | 79 | 80 - 125 | 0 | 20 |
| Benzene | | | 0.0500 | 0.0481 | | mg/Kg | | 96 | 79 - 120 | 1 | 20 |
| Carbon tetrachloride | | | 0.0500 | 0.0441 | | mg/Kg | | 88 | 69 - 132 | 2 | 20 |
| Chlorobenzene | | | 0.0500 | 0.0504 | | mg/Kg | | 101 | 80 - 120 | 1 | 20 |
| Ethylbenzene | | | 0.0500 | 0.0464 | | mg/Kg | | 93 | 80 - 120 | 2 | 20 |
| Methyl-t-Butyl Ether (MTBE) | | | 0.0500 | 0.0449 | | mg/Kg | | 90 | 68 - 120 | 0 | 20 |
| o-Xylene | | | 0.0500 | 0.0467 | | mg/Kg | | 93 | 79 - 120 | 3 | 20 |
| m,p-Xylene | | | 0.100 | 0.0903 | | mg/Kg | | 90 | 79 - 120 | 2 | 20 |
| Toluene | | | 0.0500 | 0.0492 | | mg/Kg | | 98 | 80 - 120 | 2 | 20 |
| Trichloroethene | | | 0.0500 | 0.0464 | | mg/Kg | | 93 | 80 - 121 | 3 | 20 |
| Vinyl chloride | | | 0.0500 | 0.0509 | | mg/Kg | | 102 | 66 - 128 | 2 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *82* | | *80 - 142* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *99* | | *80 - 123* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 570-143342/1-A**
**Matrix: Solid**
**Analysis Batch: 143531**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 143342**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/15/21 06:51 | 04/15/21 14:53 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/15/21 06:51 | 04/15/21 14:53 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/15/21 06:51 | 04/15/21 14:53 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/15/21 06:51 | 04/15/21 14:53 | 1 |
| Anthracene | ND | | 0.50 | 0.051 | mg/Kg | | 04/15/21 06:51 | 04/15/21 14:53 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.046 | mg/Kg | | 04/15/21 06:51 | 04/15/21 14:53 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/15/21 06:51 | 04/15/21 14:53 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.080 | mg/Kg | | 04/15/21 06:51 | 04/15/21 14:53 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/15/21 06:51 | 04/15/21 14:53 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/15/21 06:51 | 04/15/21 14:53 | 1 |
| Chrysene | ND | | 0.50 | 0.068 | mg/Kg | | 04/15/21 06:51 | 04/15/21 14:53 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/15/21 06:51 | 04/15/21 14:53 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-143342/1-A**
**Matrix: Solid**
**Analysis Batch: 143531**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 143342**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/15/21 06:51 | 04/15/21 14:53 | 1 |
| Fluorene | ND | | 0.50 | 0.067 | mg/Kg | | 04/15/21 06:51 | 04/15/21 14:53 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/15/21 06:51 | 04/15/21 14:53 | 1 |
| Naphthalene | ND | | 0.50 | 0.058 | mg/Kg | | 04/15/21 06:51 | 04/15/21 14:53 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/15/21 06:51 | 04/15/21 14:53 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/15/21 06:51 | 04/15/21 14:53 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *94* | | *10 - 134* | *04/15/21 06:51* | *04/15/21 14:53* | *1* |
| *2-Fluorobiphenyl (Surr)* | *95* | | *14 - 142* | *04/15/21 06:51* | *04/15/21 14:53* | *1* |
| *2-Fluorophenol (Surr)* | *89* | | *10 - 123* | *04/15/21 06:51* | *04/15/21 14:53* | *1* |
| *Nitrobenzene-d5 (Surr)* | *90* | | *10 - 129* | *04/15/21 06:51* | *04/15/21 14:53* | *1* |
| *Phenol-d6 (Surr)* | *84* | | *10 - 120* | *04/15/21 06:51* | *04/15/21 14:53* | *1* |
| *p-Terphenyl-d14 (Surr)* | *97* | | *31 - 139* | *04/15/21 06:51* | *04/15/21 14:53* | *1* |

**Lab Sample ID: LCS 570-143342/2-A**
**Matrix: Solid**
**Analysis Batch: 143531**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 143342**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | | | 5.00 | 4.74 | | mg/Kg | | 95 | 64 - 120 | | |
| Acenaphthylene | | | 5.00 | 5.15 | | mg/Kg | | 103 | 69 - 126 | | |
| Fluorene | | | 5.00 | 4.70 | | mg/Kg | | 94 | 68 - 120 | | |
| Naphthalene | | | 5.00 | 4.25 | | mg/Kg | | 85 | 66 - 120 | | |
| Pyrene | | | 5.00 | 4.92 | | mg/Kg | | 98 | 72 - 120 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *97* | | *10 - 134* |
| *2-Fluorobiphenyl (Surr)* | *91* | | *14 - 142* |
| *2-Fluorophenol (Surr)* | *93* | | *10 - 123* |
| *Nitrobenzene-d5 (Surr)* | *79* | | *10 - 129* |
| *Phenol-d6 (Surr)* | *85* | | *10 - 120* |
| *p-Terphenyl-d14 (Surr)* | *98* | | *31 - 139* |

**Lab Sample ID: LCSD 570-143342/3-A**
**Matrix: Solid**
**Analysis Batch: 143531**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 143342**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | | | 5.00 | 4.73 | | mg/Kg | | 95 | 64 - 120 | 0 | 20 |
| Acenaphthylene | | | 5.00 | 5.30 | | mg/Kg | | 106 | 69 - 126 | 3 | 20 |
| Fluorene | | | 5.00 | 4.79 | | mg/Kg | | 96 | 68 - 120 | 2 | 20 |
| Naphthalene | | | 5.00 | 4.36 | | mg/Kg | | 87 | 66 - 120 | 3 | 20 |
| Pyrene | | | 5.00 | 4.93 | | mg/Kg | | 99 | 72 - 120 | 0 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *100* | | *10 - 134* |
| *2-Fluorobiphenyl (Surr)* | *94* | | *14 - 142* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 570-143342/3-A**
**Matrix: Solid**
**Analysis Batch: 143531**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 143342**

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorophenol (Surr)* | *92* | | *10 - 123* |
| *Nitrobenzene-d5 (Surr)* | *80* | | *10 - 129* |
| *Phenol-d6 (Surr)* | *83* | | *10 - 120* |
| *p-Terphenyl-d14 (Surr)* | *100* | | *31 - 139* |

**Lab Sample ID: 570-56456-A-2-B MS**
**Matrix: Solid**
**Analysis Batch: 143852**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 143342**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 4.96 | 3.37 | | mg/Kg | | 68 | 51 - 125 |
| Acenaphthylene | ND | | 4.96 | 3.72 | | mg/Kg | | 75 | 54 - 125 |
| Fluorene | ND | | 4.96 | 3.67 | | mg/Kg | | 74 | 54 - 125 |
| Naphthalene | ND | | 4.96 | 3.43 | | mg/Kg | | 69 | 39 - 127 |
| Pyrene | 0.14 | J | 4.96 | 5.74 | | mg/Kg | | 113 | 56 - 125 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *13* | | *10 - 134* |
| *2-Fluorobiphenyl (Surr)* | *73* | | *14 - 142* |
| *2-Fluorophenol (Surr)* | *44* | | *10 - 123* |
| *Nitrobenzene-d5 (Surr)* | *62* | | *10 - 129* |
| *Phenol-d6 (Surr)* | *58* | | *10 - 120* |
| *p-Terphenyl-d14 (Surr)* | *86* | | *31 - 139* |

**Lab Sample ID: 570-56456-A-2-C MSD**
**Matrix: Solid**
**Analysis Batch: 143852**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 143342**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 5.01 | 3.48 | | mg/Kg | | 70 | 51 - 125 | 3 | 20 |
| Acenaphthylene | ND | | 5.01 | 3.78 | | mg/Kg | | 75 | 54 - 125 | 2 | 20 |
| Fluorene | ND | | 5.01 | 3.58 | | mg/Kg | | 71 | 54 - 125 | 3 | 20 |
| Naphthalene | ND | | 5.01 | 3.28 | | mg/Kg | | 65 | 39 - 127 | 4 | 20 |
| Pyrene | 0.14 | J | 5.01 | 5.29 | | mg/Kg | | 103 | 56 - 125 | 8 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *12* | | *10 - 134* |
| *2-Fluorobiphenyl (Surr)* | *72* | | *14 - 142* |
| *2-Fluorophenol (Surr)* | *45* | | *10 - 123* |
| *Nitrobenzene-d5 (Surr)* | *60* | | *10 - 129* |
| *Phenol-d6 (Surr)* | *62* | | *10 - 120* |
| *p-Terphenyl-d14 (Surr)* | *86* | | *31 - 139* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: MB 570-143856/33**
**Matrix: Solid**
**Analysis Batch: 143856**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.099 | 0.055 | mg/Kg | | | 04/17/21 01:29 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *86* | | *42 - 126* | | *04/17/21 01:29* | *1* |

**Lab Sample ID: LCS 570-143856/31**
**Matrix: Solid**
**Analysis Batch: 143856**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C4-C13) | 1.99 | 1.75 | | mg/Kg | | 88 | 70 - 124 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *110* | | *42 - 126* |

**Lab Sample ID: LCSD 570-143856/32**
**Matrix: Solid**
**Analysis Batch: 143856**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C4-C13) | 1.98 | 1.71 | | mg/Kg | | 86 | 70 - 124 | 2 | 18 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *107* | | *42 - 126* |

**Lab Sample ID: MB 570-144522/5**
**Matrix: Solid**
**Analysis Batch: 144522**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.10 | 0.055 | mg/Kg | | | 04/20/21 11:59 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *82* | | *42 - 126* | | *04/20/21 11:59* | *1* |

**Lab Sample ID: LCS 570-144522/3**
**Matrix: Solid**
**Analysis Batch: 144522**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C4-C13) | 1.98 | 2.05 | | mg/Kg | | 104 | 70 - 124 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *42 - 126* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: LCSD 570-144522/4**
**Matrix: Solid**
**Analysis Batch: 144522**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C4-C13) | | | 1.97 | 1.97 | | mg/Kg | | 100 | 70 - 124 | 4 | 18 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *42 - 126* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 570-144622/1-A**
**Matrix: Solid**
**Analysis Batch: 144703**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144622**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 5.0 | 3.8 | mg/Kg | | 04/20/21 13:40 | 04/20/21 19:26 | 1 |
| C23-C40 | ND | | 5.0 | 3.8 | mg/Kg | | 04/20/21 13:40 | 04/20/21 19:26 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *98* | | *60 - 138* | *04/20/21 13:40* | *04/20/21 19:26* | *1* |

**Lab Sample ID: LCS 570-144622/2-A**
**Matrix: Solid**
**Analysis Batch: 144703**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144622**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 400 | 425 | | mg/Kg | | 106 | 80 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane (Surr)* | *91* | | *60 - 138* |

**Lab Sample ID: LCSD 570-144622/3-A**
**Matrix: Solid**
**Analysis Batch: 144703**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144622**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 400 | 412 | | mg/Kg | | 103 | 80 - 130 | 3 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane (Surr)* | *94* | | *60 - 138* |

**Lab Sample ID: 570-56676-A-1-D MS**
**Matrix: Solid**
**Analysis Batch: 144703**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 144622**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 25 | F2 | 421 | 470 | | mg/Kg | | 106 | 43 - 165 |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: 570-56676-A-1-D MS**
**Matrix: Solid**
**Analysis Batch: 144703**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 144622**

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| *n-Octacosane (Surr)* | 88 | | 60 - 138 |

**Lab Sample ID: 570-56676-A-1-E MSD**
**Matrix: Solid**
**Analysis Batch: 144703**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 144622**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 25 | F2 | 390 | 309 | F2 | mg/Kg | | 73 | 43 - 165 | 41 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| *n-Octacosane (Surr)* | 63 | | 60 - 138 |

## Method: 8081A - Organochlorine Pesticides (GC)

**Lab Sample ID: MB 570-143475/1-A**
**Matrix: Solid**
**Analysis Batch: 143969**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 143475**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.99 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.54 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| 4,4'-DDT | ND | | 5.0 | 0.36 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| Endosulfan I | ND | | 5.0 | 0.44 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| Endrin ketone | ND | | 5.0 | 0.48 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.26 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| Heptachlor | ND | | 5.0 | 0.89 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.67 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/15/21 10:37 | 04/18/21 19:18 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | 96 | | 38 - 148 | 04/15/21 10:37 | 04/18/21 19:18 | 1 |
| *DCB Decachlorobiphenyl (Surr)* | 97 | | 37 - 151 | 04/15/21 10:37 | 04/18/21 19:18 | 1 |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: LCS 570-143475/2-A**
**Matrix: Solid**
**Analysis Batch: 143969**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 143475**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | | | 25.0 | 23.7 | | ug/Kg | | 95 | 54 - 154 | | |
| 4,4'-DDE | | | 25.0 | 22.5 | | ug/Kg | | 90 | 51 - 149 | | |
| 4,4'-DDT | | | 25.0 | 25.0 | | ug/Kg | | 100 | 39 - 152 | | |
| Aldrin | | | 25.0 | 21.4 | | ug/Kg | | 86 | 52 - 138 | | |
| alpha-BHC | | | 25.0 | 23.5 | | ug/Kg | | 94 | 51 - 140 | | |
| alpha-Chlordane | | | 25.0 | 21.6 | | ug/Kg | | 86 | 53 - 141 | | |
| beta-BHC | | | 25.0 | 23.5 | | ug/Kg | | 94 | 53 - 141 | | |
| delta-BHC | | | 25.0 | 22.4 | | ug/Kg | | 90 | 20 - 132 | | |
| Dieldrin | | | 25.0 | 21.9 | | ug/Kg | | 88 | 52 - 144 | | |
| Endosulfan I | | | 25.0 | 21.6 | | ug/Kg | | 86 | 49 - 139 | | |
| Endosulfan II | | | 25.0 | 22.0 | | ug/Kg | | 88 | 51 - 150 | | |
| Endosulfan sulfate | | | 25.0 | 22.7 | | ug/Kg | | 91 | 45 - 139 | | |
| Endrin | | | 25.0 | 23.7 | | ug/Kg | | 95 | 53 - 151 | | |
| Endrin aldehyde | | | 25.0 | 21.8 | | ug/Kg | | 87 | 31 - 146 | | |
| gamma-Chlordane | | | 25.0 | 21.9 | | ug/Kg | | 88 | 46 - 156 | | |
| gamma-BHC | | | 25.0 | 23.1 | | ug/Kg | | 92 | 53 - 141 | | |
| Heptachlor | | | 25.0 | 23.1 | | ug/Kg | | 92 | 52 - 144 | | |
| Heptachlor epoxide | | | 25.0 | 21.9 | | ug/Kg | | 88 | 54 - 141 | | |
| Methoxychlor | | | 25.0 | 25.2 | | ug/Kg | | 101 | 47 - 148 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *93* | | *38 - 148* |
| *DCB Decachlorobiphenyl (Surr)* | *93* | | *37 - 151* |

**Lab Sample ID: LCSD 570-143475/3-A**
**Matrix: Solid**
**Analysis Batch: 143969**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 143475**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | | | 25.0 | 24.2 | | ug/Kg | | 97 | 54 - 154 | 2 | 30 |
| 4,4'-DDE | | | 25.0 | 23.0 | | ug/Kg | | 92 | 51 - 149 | 2 | 28 |
| 4,4'-DDT | | | 25.0 | 25.5 | | ug/Kg | | 102 | 39 - 152 | 2 | 31 |
| Aldrin | | | 25.0 | 21.9 | | ug/Kg | | 88 | 52 - 138 | 2 | 30 |
| alpha-BHC | | | 25.0 | 24.0 | | ug/Kg | | 96 | 51 - 140 | 2 | 29 |
| alpha-Chlordane | | | 25.0 | 22.1 | | ug/Kg | | 88 | 53 - 141 | 2 | 28 |
| beta-BHC | | | 25.0 | 24.2 | | ug/Kg | | 97 | 53 - 141 | 3 | 29 |
| delta-BHC | | | 25.0 | 22.9 | | ug/Kg | | 92 | 20 - 132 | 2 | 40 |
| Dieldrin | | | 25.0 | 22.4 | | ug/Kg | | 89 | 52 - 144 | 2 | 28 |
| Endosulfan I | | | 25.0 | 22.1 | | ug/Kg | | 88 | 49 - 139 | 2 | 28 |
| Endosulfan II | | | 25.0 | 22.5 | | ug/Kg | | 90 | 51 - 150 | 2 | 29 |
| Endosulfan sulfate | | | 25.0 | 23.2 | | ug/Kg | | 93 | 45 - 139 | 2 | 30 |
| Endrin | | | 25.0 | 24.2 | | ug/Kg | | 97 | 53 - 151 | 2 | 29 |
| Endrin aldehyde | | | 25.0 | 22.2 | | ug/Kg | | 89 | 31 - 146 | 2 | 40 |
| gamma-Chlordane | | | 25.0 | 22.4 | | ug/Kg | | 90 | 46 - 156 | 2 | 39 |
| gamma-BHC | | | 25.0 | 23.6 | | ug/Kg | | 95 | 53 - 141 | 2 | 29 |
| Heptachlor | | | 25.0 | 23.7 | | ug/Kg | | 95 | 52 - 144 | 3 | 29 |
| Heptachlor epoxide | | | 25.0 | 22.3 | | ug/Kg | | 89 | 54 - 141 | 2 | 29 |
| Methoxychlor | | | 25.0 | 25.7 | | ug/Kg | | 103 | 47 - 148 | 2 | 29 |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: LCSD 570-143475/3-A**
**Matrix: Solid**
**Analysis Batch: 143969**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 143475**

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *94* | | *38 - 148* |
| *DCB Decachlorobiphenyl (Surr)* | *94* | | *37 - 151* |

**Lab Sample ID: 570-56470-22 MS**
**Matrix: Solid**
**Analysis Batch: 143969**

**Client Sample ID: SSD-11-3.0**
**Prep Type: Total/NA**
**Prep Batch: 143475**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 24.8 | 19.4 | | ug/Kg | | 78 | 27 - 144 |
| 4,4'-DDE | ND | | 24.8 | 18.6 | | ug/Kg | | 75 | 28 - 141 |
| 4,4'-DDT | ND | | 24.8 | 18.3 | | ug/Kg | | 74 | 10 - 154 |
| Aldrin | ND | | 24.8 | 18.2 | | ug/Kg | | 74 | 26 - 125 |
| alpha-BHC | ND | | 24.8 | 8.87 | p | ug/Kg | | 36 | 24 - 125 |
| alpha-Chlordane | ND | | 24.8 | 17.5 | | ug/Kg | | 71 | 17 - 144 |
| beta-BHC | ND | | 24.8 | 18.3 | | ug/Kg | | 74 | 28 - 125 |
| delta-BHC | ND | | 24.8 | 18.3 | | ug/Kg | | 74 | 10 - 125 |
| Dieldrin | ND | | 24.8 | 17.8 | | ug/Kg | | 72 | 19 - 145 |
| Endosulfan I | ND | | 24.8 | 17.7 | | ug/Kg | | 72 | 25 - 125 |
| Endosulfan II | ND | | 24.8 | 18.0 | | ug/Kg | | 73 | 13 - 142 |
| Endosulfan sulfate | ND | | 24.8 | 19.7 | | ug/Kg | | 80 | 14 - 126 |
| Endrin | ND | | 24.8 | 19.1 | | ug/Kg | | 77 | 28 - 139 |
| Endrin aldehyde | ND | | 24.8 | 16.4 | | ug/Kg | | 66 | 12 - 125 |
| gamma-Chlordane | ND | | 24.8 | 17.8 | | ug/Kg | | 72 | 10 - 160 |
| gamma-BHC | ND | | 24.8 | 18.8 | | ug/Kg | | 76 | 24 - 125 |
| Heptachlor | ND | | 24.8 | 18.5 | | ug/Kg | | 75 | 19 - 127 |
| Heptachlor epoxide | ND | | 24.8 | 17.3 | | ug/Kg | | 70 | 33 - 123 |
| Methoxychlor | ND | | 24.8 | 22.9 | | ug/Kg | | 92 | 19 - 128 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *80* | | *38 - 148* |
| *DCB Decachlorobiphenyl (Surr)* | *82* | | *37 - 151* |

**Lab Sample ID: 570-56470-22 MSD**
**Matrix: Solid**
**Analysis Batch: 143969**

**Client Sample ID: SSD-11-3.0**
**Prep Type: Total/NA**
**Prep Batch: 143475**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 25.0 | 21.1 | | ug/Kg | | 84 | 27 - 144 | 8 | 40 |
| 4,4'-DDE | ND | | 25.0 | 19.7 | | ug/Kg | | 79 | 28 - 141 | 6 | 32 |
| 4,4'-DDT | ND | | 25.0 | 19.7 | | ug/Kg | | 79 | 10 - 154 | 7 | 40 |
| Aldrin | ND | | 25.0 | 19.5 | | ug/Kg | | 78 | 26 - 125 | 7 | 40 |
| alpha-BHC | ND | | 25.0 | 9.97 | p | ug/Kg | | 40 | 24 - 125 | 12 | 40 |
| alpha-Chlordane | ND | | 25.0 | 19.0 | | ug/Kg | | 76 | 17 - 144 | 8 | 40 |
| beta-BHC | ND | | 25.0 | 20.1 | | ug/Kg | | 80 | 28 - 125 | 9 | 39 |
| delta-BHC | ND | | 25.0 | 20.2 | | ug/Kg | | 81 | 10 - 125 | 10 | 40 |
| Dieldrin | ND | | 25.0 | 19.2 | | ug/Kg | | 77 | 19 - 145 | 8 | 39 |
| Endosulfan I | ND | | 25.0 | 19.2 | | ug/Kg | | 77 | 25 - 125 | 8 | 39 |
| Endosulfan II | ND | | 25.0 | 19.1 | | ug/Kg | | 76 | 13 - 142 | 6 | 40 |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: 570-56470-22 MSD**
**Matrix: Solid**
**Analysis Batch: 143969**

**Client Sample ID: SSD-11-3.0**
**Prep Type: Total/NA**
**Prep Batch: 143475**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Endosulfan sulfate | ND | | 25.0 | 22.9 | | ug/Kg | | 92 | 14 - 126 | 15 | 38 |
| Endrin | ND | | 25.0 | 20.8 | | ug/Kg | | 83 | 28 - 139 | 8 | 40 |
| Endrin aldehyde | ND | | 25.0 | 18.4 | | ug/Kg | | 74 | 12 - 125 | 11 | 40 |
| gamma-Chlordane | ND | | 25.0 | 19.1 | | ug/Kg | | 76 | 10 - 160 | 7 | 40 |
| gamma-BHC | ND | | 25.0 | 20.3 | | ug/Kg | | 81 | 24 - 125 | 8 | 40 |
| Heptachlor | ND | | 25.0 | 20.1 | | ug/Kg | | 80 | 19 - 127 | 9 | 40 |
| Heptachlor epoxide | ND | | 25.0 | 19.0 | | ug/Kg | | 76 | 33 - 123 | 9 | 34 |
| Methoxychlor | ND | | 25.0 | 24.8 | | ug/Kg | | 99 | 19 - 128 | 8 | 40 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *85* | | *38 - 148* |
| *DCB Decachlorobiphenyl (Surr)* | *86* | | *37 - 151* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 570-144014/1-A**
**Matrix: Solid**
**Analysis Batch: 144877**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144014**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:05 | 1 |
| Aroclor-1221 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:05 | 1 |
| Aroclor-1232 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:05 | 1 |
| Aroclor-1242 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:05 | 1 |
| Aroclor-1248 | ND | | 10 | 5.5 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:05 | 1 |
| Aroclor-1254 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:05 | 1 |
| Aroclor-1260 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:05 | 1 |
| Aroclor-1262 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:05 | 1 |
| Aroclor-1268 | ND | | 10 | 5.0 | ug/Kg | | 04/17/21 08:36 | 04/21/21 14:05 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *97* | | *25 - 126* | *04/17/21 08:36* | *04/21/21 14:05* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *104* | | *20 - 155* | *04/17/21 08:36* | *04/21/21 14:05* | *1* |

**Lab Sample ID: LCS 570-144014/2-A**
**Matrix: Solid**
**Analysis Batch: 144877**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144014**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | | | 20.0 | 21.5 | | ug/Kg | | 107 | 50 - 142 | | |
| Aroclor-1260 | | | 20.0 | 21.0 | | ug/Kg | | 105 | 50 - 150 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *104* | | *25 - 126* |
| *DCB Decachlorobiphenyl (Surr)* | *98* | | *20 - 155* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: LCSD 570-144014/3-A**
**Matrix: Solid**
**Analysis Batch: 144877**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144014**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | | | 20.0 | 22.0 | | ug/Kg | | 110 | 50 - 142 | 2 | 30 |
| Aroclor-1260 | | | 20.0 | 21.1 | | ug/Kg | | 105 | 50 - 150 | 0 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *105* | | *25 - 126* |
| *DCB Decachlorobiphenyl (Surr)* | *99* | | *20 - 155* |

**Lab Sample ID: 570-56470-15 MS**
**Matrix: Solid**
**Analysis Batch: 144877**

**Client Sample ID: SSD-12-3.0**
**Prep Type: Total/NA**
**Prep Batch: 144014**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 19.9 | 23.4 | | ug/Kg | | 118 | 20 - 175 |
| Aroclor-1260 | ND | | 19.9 | 23.1 | | ug/Kg | | 116 | 20 - 180 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *81* | | *25 - 126* |
| *DCB Decachlorobiphenyl (Surr)* | *91* | | *20 - 155* |

**Lab Sample ID: 570-56470-15 MSD**
**Matrix: Solid**
**Analysis Batch: 144877**

**Client Sample ID: SSD-12-3.0**
**Prep Type: Total/NA**
**Prep Batch: 144014**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 19.9 | 24.7 | | ug/Kg | | 124 | 20 - 175 | 5 | 40 |
| Aroclor-1260 | ND | | 19.9 | 26.0 | | ug/Kg | | 131 | 20 - 180 | 12 | 40 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *82* | | *25 - 126* |
| *DCB Decachlorobiphenyl (Surr)* | *89* | | *20 - 155* |

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 570-144090/1-A**
**Matrix: Solid**
**Analysis Batch: 144576**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144090**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | | 4.9 | 0.95 | mg/Kg | | 04/17/21 13:00 | 04/19/21 22:29 | 1 |

**Lab Sample ID: LCS 570-144090/2-A**
**Matrix: Solid**
**Analysis Batch: 144576**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144090**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Lead | | | 24.6 | 27.2 | | mg/Kg | | 111 | 80 - 120 |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCSD 570-144090/3-A**
**Matrix: Solid**
**Analysis Batch: 144576**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144090**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | | | 25.4 | 27.6 | | mg/Kg | | 109 | 80 - 120 | 1 | 20 |

**Lab Sample ID: 570-55883-A-1-J MS**
**Matrix: Solid**
**Analysis Batch: 144576**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 144090**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 6.2 | | 24.6 | 29.1 | | mg/Kg | | 93 | 75 - 125 | | |

**Lab Sample ID: 570-55883-A-1-K MSD**
**Matrix: Solid**
**Analysis Batch: 144576**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 144090**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 6.2 | | 25.1 | 31.5 | | mg/Kg | | 101 | 75 - 125 | 8 | 20 |

## GC/MS VOA

### Prep Batch: 143636

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56470-1 | TW-3-50 | Total/NA | Solid | 5035 | |
| 570-56470-2 | TW-3-60 | Total/NA | Solid | 5035 | |
| 570-56470-3 | G-15-C-5.0 | Total/NA | Solid | 5035 | |
| 570-56470-4 | TW-2-10 | Total/NA | Solid | 5035 | |
| 570-56470-5 | TW-2-20 | Total/NA | Solid | 5035 | |
| 570-56470-6 | TW-2-30 | Total/NA | Solid | 5035 | |
| 570-56470-7 | TW-2-40 | Total/NA | Solid | 5035 | |
| 570-56470-8 | SB-4-5.0 | Total/NA | Solid | 5035 | |
| 570-56470-9 | G-16-C-5.0 | Total/NA | Solid | 5035 | |
| 570-56470-10 | G-17-C-5.0 | Total/NA | Solid | 5035 | |
| 570-56470-11 | G-27-C-5.0 | Total/NA | Solid | 5035 | |
| 570-56470-26 | SW-2-C-5.0 | Total/NA | Solid | 5035 | |
| 570-56470-31 | SW-3-C-5.0 | Total/NA | Solid | 5035 | |

### Analysis Batch: 143655

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56470-1 | TW-3-50 | Total/NA | Solid | 8260B | 143636 |
| 570-56470-2 | TW-3-60 | Total/NA | Solid | 8260B | 143636 |
| 570-56470-3 | G-15-C-5.0 | Total/NA | Solid | 8260B | 143636 |
| 570-56470-4 | TW-2-10 | Total/NA | Solid | 8260B | 143636 |
| 570-56470-5 | TW-2-20 | Total/NA | Solid | 8260B | 143636 |
| 570-56470-6 | TW-2-30 | Total/NA | Solid | 8260B | 143636 |
| 570-56470-7 | TW-2-40 | Total/NA | Solid | 8260B | 143636 |
| 570-56470-8 | SB-4-5.0 | Total/NA | Solid | 8260B | 143636 |
| 570-56470-9 | G-16-C-5.0 | Total/NA | Solid | 8260B | 143636 |
| 570-56470-10 | G-17-C-5.0 | Total/NA | Solid | 8260B | 143636 |
| 570-56470-11 | G-27-C-5.0 | Total/NA | Solid | 8260B | 143636 |
| 570-56470-26 | SW-2-C-5.0 | Total/NA | Solid | 8260B | 143636 |
| 570-56470-31 | SW-3-C-5.0 | Total/NA | Solid | 8260B | 143636 |
| MB 570-143655/8 | Method Blank | Total/NA | Solid | 8260B | |
| LCS 570-143655/3 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 570-143655/4 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |

## GC/MS Semi VOA

### Prep Batch: 143342

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56470-3 | G-15-C-5.0 | Total/NA | Solid | 3546 | |
| 570-56470-4 | TW-2-10 | Total/NA | Solid | 3546 | |
| 570-56470-8 | SB-4-5.0 | Total/NA | Solid | 3546 | |
| 570-56470-9 | G-16-C-5.0 | Total/NA | Solid | 3546 | |
| 570-56470-10 | G-17-C-5.0 | Total/NA | Solid | 3546 | |
| 570-56470-11 | G-27-C-5.0 | Total/NA | Solid | 3546 | |
| 570-56470-17 | SSD-12-5.0 | Total/NA | Solid | 3546 | |
| 570-56470-18 | SSD-12-8.0 | Total/NA | Solid | 3546 | |
| 570-56470-24 | SSD-11-5.0 | Total/NA | Solid | 3546 | |
| 570-56470-25 | SSD-11-8.0 | Total/NA | Solid | 3546 | |
| 570-56470-26 | SW-2-C-5.0 | Total/NA | Solid | 3546 | |
| 570-56470-31 | SW-3-C-5.0 | Total/NA | Solid | 3546 | |
| MB 570-143342/1-A | Method Blank | Total/NA | Solid | 3546 | |
| LCS 570-143342/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |

## GC/MS Semi VOA (Continued)

### Prep Batch: 143342 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCSD 570-143342/3-A | Lab Control Sample Dup | Total/NA | Solid | 3546 | |
| 570-56456-A-2-B MS | Matrix Spike | Total/NA | Solid | 3546 | |
| 570-56456-A-2-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 3546 | |

### Analysis Batch: 143531

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 570-143342/1-A | Method Blank | Total/NA | Solid | 8270C | 143342 |
| LCS 570-143342/2-A | Lab Control Sample | Total/NA | Solid | 8270C | 143342 |
| LCSD 570-143342/3-A | Lab Control Sample Dup | Total/NA | Solid | 8270C | 143342 |

### Analysis Batch: 143819

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56470-3 | G-15-C-5.0 | Total/NA | Solid | 8270C | 143342 |
| 570-56470-4 | TW-2-10 | Total/NA | Solid | 8270C | 143342 |
| 570-56470-8 | SB-4-5.0 | Total/NA | Solid | 8270C | 143342 |
| 570-56470-9 | G-16-C-5.0 | Total/NA | Solid | 8270C | 143342 |
| 570-56470-10 | G-17-C-5.0 | Total/NA | Solid | 8270C | 143342 |
| 570-56470-11 | G-27-C-5.0 | Total/NA | Solid | 8270C | 143342 |
| 570-56470-17 | SSD-12-5.0 | Total/NA | Solid | 8270C | 143342 |
| 570-56470-18 | SSD-12-8.0 | Total/NA | Solid | 8270C | 143342 |
| 570-56470-24 | SSD-11-5.0 | Total/NA | Solid | 8270C | 143342 |
| 570-56470-25 | SSD-11-8.0 | Total/NA | Solid | 8270C | 143342 |
| 570-56470-26 | SW-2-C-5.0 | Total/NA | Solid | 8270C | 143342 |
| 570-56470-31 | SW-3-C-5.0 | Total/NA | Solid | 8270C | 143342 |

### Analysis Batch: 143852

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56456-A-2-B MS | Matrix Spike | Total/NA | Solid | 8270C | 143342 |
| 570-56456-A-2-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8270C | 143342 |

## GC VOA

### Prep Batch: 143636

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56470-1 | TW-3-50 | Total/NA | Solid | 5035 | |
| 570-56470-2 | TW-3-60 | Total/NA | Solid | 5035 | |
| 570-56470-3 | G-15-C-5.0 | Total/NA | Solid | 5035 | |
| 570-56470-4 | TW-2-10 | Total/NA | Solid | 5035 | |
| 570-56470-5 | TW-2-20 | Total/NA | Solid | 5035 | |
| 570-56470-6 | TW-2-30 | Total/NA | Solid | 5035 | |
| 570-56470-7 | TW-2-40 | Total/NA | Solid | 5035 | |
| 570-56470-8 | SB-4-5.0 | Total/NA | Solid | 5035 | |
| 570-56470-9 | G-16-C-5.0 | Total/NA | Solid | 5035 | |
| 570-56470-10 | G-17-C-5.0 | Total/NA | Solid | 5035 | |
| 570-56470-11 | G-27-C-5.0 | Total/NA | Solid | 5035 | |
| 570-56470-26 | SW-2-C-5.0 | Total/NA | Solid | 5035 | |
| 570-56470-31 | SW-3-C-5.0 | Total/NA | Solid | 5035 | |

### Analysis Batch: 143856

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56470-1 | TW-3-50 | Total/NA | Solid | 8015B | 143636 |

## GC VOA (Continued)

### Analysis Batch: 143856 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56470-2 | TW-3-60 | Total/NA | Solid | 8015B | 143636 |
| 570-56470-3 | G-15-C-5.0 | Total/NA | Solid | 8015B | 143636 |
| 570-56470-4 | TW-2-10 | Total/NA | Solid | 8015B | 143636 |
| 570-56470-5 | TW-2-20 | Total/NA | Solid | 8015B | 143636 |
| 570-56470-6 | TW-2-30 | Total/NA | Solid | 8015B | 143636 |
| 570-56470-7 | TW-2-40 | Total/NA | Solid | 8015B | 143636 |
| 570-56470-8 | SB-4-5.0 | Total/NA | Solid | 8015B | 143636 |
| 570-56470-10 | G-17-C-5.0 | Total/NA | Solid | 8015B | 143636 |
| 570-56470-11 | G-27-C-5.0 | Total/NA | Solid | 8015B | 143636 |
| 570-56470-26 | SW-2-C-5.0 | Total/NA | Solid | 8015B | 143636 |
| 570-56470-31 | SW-3-C-5.0 | Total/NA | Solid | 8015B | 143636 |
| MB 570-143856/33 | Method Blank | Total/NA | Solid | 8015B | |
| LCS 570-143856/31 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 570-143856/32 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |

### Analysis Batch: 144522

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56470-9 | G-16-C-5.0 | Total/NA | Solid | 8015B | 143636 |
| MB 570-144522/5 | Method Blank | Total/NA | Solid | 8015B | |
| LCS 570-144522/3 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 570-144522/4 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |

## GC Semi VOA

### Prep Batch: 143475

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56470-12 | SSD-12-0.0 | Total/NA | Solid | 3546 | |
| 570-56470-13 | SSD-12-1.0 | Total/NA | Solid | 3546 | |
| 570-56470-14 | SSD-12-2.0 | Total/NA | Solid | 3546 | |
| 570-56470-15 | SSD-12-3.0 | Total/NA | Solid | 3546 | |
| 570-56470-19 | SSD-11-0.0 | Total/NA | Solid | 3546 | |
| 570-56470-20 | SSD-11-1.0 | Total/NA | Solid | 3546 | |
| 570-56470-21 | SSD-11-2.0 | Total/NA | Solid | 3546 | |
| 570-56470-22 | SSD-11-3.0 | Total/NA | Solid | 3546 | |
| 570-56470-27 | SW-3-C-0.0 | Total/NA | Solid | 3546 | |
| 570-56470-28 | SW-3-C-1.0 | Total/NA | Solid | 3546 | |
| 570-56470-29 | SW-3-C-2.0 | Total/NA | Solid | 3546 | |
| 570-56470-30 | SW-3-C-3.0 | Total/NA | Solid | 3546 | |
| MB 570-143475/1-A | Method Blank | Total/NA | Solid | 3546 | |
| LCS 570-143475/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| LCSD 570-143475/3-A | Lab Control Sample Dup | Total/NA | Solid | 3546 | |
| 570-56470-22 MS | SSD-11-3.0 | Total/NA | Solid | 3546 | |
| 570-56470-22 MSD | SSD-11-3.0 | Total/NA | Solid | 3546 | |

### Analysis Batch: 143969

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56470-12 | SSD-12-0.0 | Total/NA | Solid | 8081A | 143475 |
| 570-56470-13 | SSD-12-1.0 | Total/NA | Solid | 8081A | 143475 |
| 570-56470-14 | SSD-12-2.0 | Total/NA | Solid | 8081A | 143475 |
| 570-56470-15 | SSD-12-3.0 | Total/NA | Solid | 8081A | 143475 |
| 570-56470-19 | SSD-11-0.0 | Total/NA | Solid | 8081A | 143475 |

## GC Semi VOA (Continued)

### Analysis Batch: 143969 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56470-20 | SSD-11-1.0 | Total/NA | Solid | 8081A | 143475 |
| 570-56470-21 | SSD-11-2.0 | Total/NA | Solid | 8081A | 143475 |
| 570-56470-22 | SSD-11-3.0 | Total/NA | Solid | 8081A | 143475 |
| 570-56470-27 | SW-3-C-0.0 | Total/NA | Solid | 8081A | 143475 |
| 570-56470-28 | SW-3-C-1.0 | Total/NA | Solid | 8081A | 143475 |
| 570-56470-29 | SW-3-C-2.0 | Total/NA | Solid | 8081A | 143475 |
| 570-56470-30 | SW-3-C-3.0 | Total/NA | Solid | 8081A | 143475 |
| MB 570-143475/1-A | Method Blank | Total/NA | Solid | 8081A | 143475 |
| LCS 570-143475/2-A | Lab Control Sample | Total/NA | Solid | 8081A | 143475 |
| LCSD 570-143475/3-A | Lab Control Sample Dup | Total/NA | Solid | 8081A | 143475 |
| 570-56470-22 MS | SSD-11-3.0 | Total/NA | Solid | 8081A | 143475 |
| 570-56470-22 MSD | SSD-11-3.0 | Total/NA | Solid | 8081A | 143475 |

### Prep Batch: 144014

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56470-12 | SSD-12-0.0 | Total/NA | Solid | 3541 | |
| 570-56470-13 | SSD-12-1.0 | Total/NA | Solid | 3541 | |
| 570-56470-14 | SSD-12-2.0 | Total/NA | Solid | 3541 | |
| 570-56470-15 | SSD-12-3.0 | Total/NA | Solid | 3541 | |
| 570-56470-19 | SSD-11-0.0 | Total/NA | Solid | 3541 | |
| 570-56470-20 | SSD-11-1.0 | Total/NA | Solid | 3541 | |
| 570-56470-21 | SSD-11-2.0 | Total/NA | Solid | 3541 | |
| 570-56470-22 | SSD-11-3.0 | Total/NA | Solid | 3541 | |
| 570-56470-27 | SW-3-C-0.0 | Total/NA | Solid | 3541 | |
| 570-56470-28 | SW-3-C-1.0 | Total/NA | Solid | 3541 | |
| 570-56470-29 | SW-3-C-2.0 | Total/NA | Solid | 3541 | |
| 570-56470-30 | SW-3-C-3.0 | Total/NA | Solid | 3541 | |
| MB 570-144014/1-A | Method Blank | Total/NA | Solid | 3541 | |
| LCS 570-144014/2-A | Lab Control Sample | Total/NA | Solid | 3541 | |
| LCSD 570-144014/3-A | Lab Control Sample Dup | Total/NA | Solid | 3541 | |
| 570-56470-15 MS | SSD-12-3.0 | Total/NA | Solid | 3541 | |
| 570-56470-15 MSD | SSD-12-3.0 | Total/NA | Solid | 3541 | |

### Prep Batch: 144622

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56470-3 | G-15-C-5.0 | Total/NA | Solid | 3550C | |
| 570-56470-4 | TW-2-10 | Total/NA | Solid | 3550C | |
| 570-56470-8 | SB-4-5.0 | Total/NA | Solid | 3550C | |
| 570-56470-9 | G-16-C-5.0 | Total/NA | Solid | 3550C | |
| 570-56470-10 | G-17-C-5.0 | Total/NA | Solid | 3550C | |
| 570-56470-11 | G-27-C-5.0 | Total/NA | Solid | 3550C | |
| 570-56470-26 | SW-2-C-5.0 | Total/NA | Solid | 3550C | |
| 570-56470-31 | SW-3-C-5.0 | Total/NA | Solid | 3550C | |
| MB 570-144622/1-A | Method Blank | Total/NA | Solid | 3550C | |
| LCS 570-144622/2-A | Lab Control Sample | Total/NA | Solid | 3550C | |
| LCSD 570-144622/3-A | Lab Control Sample Dup | Total/NA | Solid | 3550C | |
| 570-56676-A-1-D MS | Matrix Spike | Total/NA | Solid | 3550C | |
| 570-56676-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 3550C | |

## GC Semi VOA

### Analysis Batch: 144703

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56470-3 | G-15-C-5.0 | Total/NA | Solid | 8015B | 144622 |
| 570-56470-4 | TW-2-10 | Total/NA | Solid | 8015B | 144622 |
| 570-56470-8 | SB-4-5.0 | Total/NA | Solid | 8015B | 144622 |
| 570-56470-9 | G-16-C-5.0 | Total/NA | Solid | 8015B | 144622 |
| 570-56470-10 | G-17-C-5.0 | Total/NA | Solid | 8015B | 144622 |
| 570-56470-11 | G-27-C-5.0 | Total/NA | Solid | 8015B | 144622 |
| 570-56470-26 | SW-2-C-5.0 | Total/NA | Solid | 8015B | 144622 |
| 570-56470-31 | SW-3-C-5.0 | Total/NA | Solid | 8015B | 144622 |
| MB 570-144622/1-A | Method Blank | Total/NA | Solid | 8015B | 144622 |
| LCS 570-144622/2-A | Lab Control Sample | Total/NA | Solid | 8015B | 144622 |
| LCSD 570-144622/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B | 144622 |
| 570-56676-A-1-D MS | Matrix Spike | Total/NA | Solid | 8015B | 144622 |
| 570-56676-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B | 144622 |

### Analysis Batch: 144877

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56470-12 | SSD-12-0.0 | Total/NA | Solid | 8082 | 144014 |
| 570-56470-13 | SSD-12-1.0 | Total/NA | Solid | 8082 | 144014 |
| 570-56470-14 | SSD-12-2.0 | Total/NA | Solid | 8082 | 144014 |
| 570-56470-15 | SSD-12-3.0 | Total/NA | Solid | 8082 | 144014 |
| MB 570-144014/1-A | Method Blank | Total/NA | Solid | 8082 | 144014 |
| LCS 570-144014/2-A | Lab Control Sample | Total/NA | Solid | 8082 | 144014 |
| LCSD 570-144014/3-A | Lab Control Sample Dup | Total/NA | Solid | 8082 | 144014 |
| 570-56470-15 MS | SSD-12-3.0 | Total/NA | Solid | 8082 | 144014 |
| 570-56470-15 MSD | SSD-12-3.0 | Total/NA | Solid | 8082 | 144014 |

### Analysis Batch: 144917

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56470-19 | SSD-11-0.0 | Total/NA | Solid | 8082 | 144014 |
| 570-56470-20 | SSD-11-1.0 | Total/NA | Solid | 8082 | 144014 |
| 570-56470-21 | SSD-11-2.0 | Total/NA | Solid | 8082 | 144014 |
| 570-56470-22 | SSD-11-3.0 | Total/NA | Solid | 8082 | 144014 |
| 570-56470-27 | SW-3-C-0.0 | Total/NA | Solid | 8082 | 144014 |
| 570-56470-28 | SW-3-C-1.0 | Total/NA | Solid | 8082 | 144014 |
| 570-56470-29 | SW-3-C-2.0 | Total/NA | Solid | 8082 | 144014 |
| 570-56470-30 | SW-3-C-3.0 | Total/NA | Solid | 8082 | 144014 |

## Metals

### Prep Batch: 144090

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56470-10 | G-17-C-5.0 | Total/NA | Solid | 3050B | |
| 570-56470-13 | SSD-12-1.0 | Total/NA | Solid | 3050B | |
| 570-56470-14 | SSD-12-2.0 | Total/NA | Solid | 3050B | |
| 570-56470-15 | SSD-12-3.0 | Total/NA | Solid | 3050B | |
| 570-56470-16 | SSD-12-4.0 | Total/NA | Solid | 3050B | |
| 570-56470-20 | SSD-11-1.0 | Total/NA | Solid | 3050B | |
| 570-56470-21 | SSD-11-2.0 | Total/NA | Solid | 3050B | |
| 570-56470-22 | SSD-11-3.0 | Total/NA | Solid | 3050B | |
| 570-56470-23 | SSD-11-.4.0 | Total/NA | Solid | 3050B | |
| MB 570-144090/1-A | Method Blank | Total/NA | Solid | 3050B | |

## Metals (Continued)

### Prep Batch: 144090 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 570-144090/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| LCSD 570-144090/3-A | Lab Control Sample Dup | Total/NA | Solid | 3050B | |
| 570-55883-A-1-J MS | Matrix Spike | Total/NA | Solid | 3050B | |
| 570-55883-A-1-K MSD | Matrix Spike Duplicate | Total/NA | Solid | 3050B | |

### Analysis Batch: 144576

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56470-10 | G-17-C-5.0 | Total/NA | Solid | 6010B | 144090 |
| 570-56470-13 | SSD-12-1.0 | Total/NA | Solid | 6010B | 144090 |
| 570-56470-14 | SSD-12-2.0 | Total/NA | Solid | 6010B | 144090 |
| 570-56470-15 | SSD-12-3.0 | Total/NA | Solid | 6010B | 144090 |
| 570-56470-16 | SSD-12-4.0 | Total/NA | Solid | 6010B | 144090 |
| 570-56470-20 | SSD-11-1.0 | Total/NA | Solid | 6010B | 144090 |
| 570-56470-21 | SSD-11-2.0 | Total/NA | Solid | 6010B | 144090 |
| 570-56470-22 | SSD-11-3.0 | Total/NA | Solid | 6010B | 144090 |
| 570-56470-23 | SSD-11-.4.0 | Total/NA | Solid | 6010B | 144090 |
| MB 570-144090/1-A | Method Blank | Total/NA | Solid | 6010B | 144090 |
| LCS 570-144090/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 144090 |
| LCSD 570-144090/3-A | Lab Control Sample Dup | Total/NA | Solid | 6010B | 144090 |
| 570-55883-A-1-J MS | Matrix Spike | Total/NA | Solid | 6010B | 144090 |
| 570-55883-A-1-K MSD | Matrix Spike Duplicate | Total/NA | Solid | 6010B | 144090 |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56470-1

## Client Sample ID: TW-3-50
**Date Collected: 04/12/21 14:30**
**Date Received: 04/14/21 09:50**

## Lab Sample ID: 570-56470-1
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.112 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143655 | 04/16/21 00:13 | C5SC | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.922 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143856 | 04/17/21 10:41 | A9VE | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |

## Client Sample ID: TW-3-60
**Date Collected: 04/12/21 14:40**
**Date Received: 04/14/21 09:50**

## Lab Sample ID: 570-56470-2
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 2.667 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143655 | 04/16/21 00:38 | C5SC | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.222 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143856 | 04/17/21 05:05 | A9VE | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |

## Client Sample ID: G-15-C-5.0
**Date Collected: 04/12/21 15:00**
**Date Received: 04/14/21 09:50**

## Lab Sample ID: 570-56470-3
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.628 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143655 | 04/16/21 01:03 | C5SC | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.18 g | 2 mL | 143342 | 04/15/21 10:33 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | 1 mL | 1.0 mL | 143819 | 04/16/21 17:39 | N8CZ | ECL 1 |
| | Instrument ID: GCMSCCC | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.201 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143856 | 04/17/21 05:29 | A9VE | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 10.63 g | 10 mL | 144622 | 04/20/21 13:40 | N5Y3 | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 144703 | 04/21/21 12:26 | A1W | ECL 1 |
| | Instrument ID: GC48 | | | | | | | | | |

## Client Sample ID: TW-2-10
**Date Collected: 04/12/21 15:40**
**Date Received: 04/14/21 09:50**

## Lab Sample ID: 570-56470-4
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.191 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143655 | 04/16/21 01:28 | C5SC | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56470-1

## Client Sample ID: TW-2-10
**Date Collected: 04/12/21 15:40**
**Date Received: 04/14/21 09:50**

## Lab Sample ID: 570-56470-4
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.09 g | 2 mL | 143342 | 04/15/21 10:33 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 143819 | 04/16/21 21:19 | N8CZ | ECL 1 |
| | Instrument ID: GCMSCCC | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.582 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143856 | 04/17/21 05:53 | A9VE | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 10.23 g | 10 mL | 144622 | 04/20/21 13:40 | N5Y3 | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 144703 | 04/21/21 12:47 | A1W | ECL 1 |
| | Instrument ID: GC48 | | | | | | | | | |

## Client Sample ID: TW-2-20
**Date Collected: 04/12/21 15:50**
**Date Received: 04/14/21 09:50**

## Lab Sample ID: 570-56470-5
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 7.062 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143655 | 04/16/21 01:54 | C5SC | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 7.016 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143856 | 04/17/21 06:17 | A9VE | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |

## Client Sample ID: TW-2-30
**Date Collected: 04/12/21 16:00**
**Date Received: 04/14/21 09:50**

## Lab Sample ID: 570-56470-6
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.667 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143655 | 04/16/21 02:19 | C5SC | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.932 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143856 | 04/17/21 06:41 | A9VE | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |

## Client Sample ID: TW-2-40
**Date Collected: 04/12/21 16:07**
**Date Received: 04/14/21 09:50**

## Lab Sample ID: 570-56470-7
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.888 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143655 | 04/16/21 02:44 | C5SC | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.829 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143856 | 04/17/21 07:53 | A9VE | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56470-1

## Client Sample ID: SB-4-5.0

**Date Collected: 04/12/21 16:15**
**Date Received: 04/14/21 09:50**

## Lab Sample ID: 570-56470-8

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.902 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143655 | 04/16/21 03:09 | C5SC | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 19.94 g | 2 mL | 143342 | 04/15/21 10:33 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 143819 | 04/16/21 18:15 | N8CZ | ECL 1 |
| | Instrument ID: GCMSCCC | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 5.825 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143856 | 04/17/21 08:17 | A9VE | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 10.20 g | 10 mL | 144622 | 04/20/21 13:40 | N5Y3 | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 144703 | 04/21/21 13:08 | A1W | ECL 1 |
| | Instrument ID: GC48 | | | | | | | | | |

## Client Sample ID: G-16-C-5.0

**Date Collected: 04/13/21 08:50**
**Date Received: 04/14/21 09:50**

## Lab Sample ID: 570-56470-9

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 7.007 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143655 | 04/16/21 03:34 | C5SC | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.49 g | 2 mL | 143342 | 04/15/21 10:33 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 143819 | 04/16/21 18:34 | N8CZ | ECL 1 |
| | Instrument ID: GCMSCCC | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.295 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 144522 | 04/20/21 12:55 | A9VE | ECL 2 |
| | Instrument ID: GC22 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 10.15 g | 10 mL | 144622 | 04/20/21 13:40 | N5Y3 | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 144703 | 04/21/21 13:29 | A1W | ECL 1 |
| | Instrument ID: GC48 | | | | | | | | | |

## Client Sample ID: G-17-C-5.0

**Date Collected: 04/13/21 08:45**
**Date Received: 04/14/21 09:50**

## Lab Sample ID: 570-56470-10

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.625 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143655 | 04/16/21 03:59 | C5SC | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 19.95 g | 2 mL | 143342 | 04/15/21 10:33 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 143819 | 04/16/21 18:52 | N8CZ | ECL 1 |
| | Instrument ID: GCMSCCC | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.548 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143856 | 04/17/21 09:05 | A9VE | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |

## Client Sample ID: G-17-C-5.0

**Lab Sample ID: 570-56470-10**

**Date Collected: 04/13/21 08:45**

**Matrix: Solid**

**Date Received: 04/14/21 09:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 10.21 g | 10 mL | 144622 | 04/20/21 13:40 | N5Y3 | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 144703 | 04/21/21 13:50 | A1W | ECL 1 |
| | Instrument ID: GC48 | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 2.07 g | 100 mL | 144090 | 04/17/21 13:00 | WL8G | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 144576 | 04/19/21 22:49 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: G-27-C-5.0

**Lab Sample ID: 570-56470-11**

**Date Collected: 04/13/21 09:30**

**Matrix: Solid**

**Date Received: 04/14/21 09:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.402 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143655 | 04/16/21 04:24 | C5SC | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 19.81 g | 2 mL | 143342 | 04/15/21 10:33 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 143819 | 04/16/21 19:10 | N8CZ | ECL 1 |
| | Instrument ID: GCMSCCC | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.089 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143856 | 04/17/21 09:29 | A9VE | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 9.65 g | 10 mL | 144622 | 04/20/21 13:40 | N5Y3 | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 144703 | 04/21/21 14:11 | A1W | ECL 1 |
| | Instrument ID: GC48 | | | | | | | | | |

## Client Sample ID: SSD-12-0.0

**Lab Sample ID: 570-56470-12**

**Date Collected: 04/13/21 10:15**

**Matrix: Solid**

**Date Received: 04/14/21 09:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.02 g | 10 mL | 143475 | 04/15/21 10:38 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 143969 | 04/19/21 07:50 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |
| Total/NA | Prep | 3541 | | | 20.07 g | 2 mL | 144014 | 04/17/21 08:36 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 144877 | 04/21/21 15:52 | UHHN | ECL 1 |
| | Instrument ID: GC58 | | | | | | | | | |

## Client Sample ID: SSD-12-1.0

**Lab Sample ID: 570-56470-13**

**Date Collected: 04/13/21 10:17**

**Matrix: Solid**

**Date Received: 04/14/21 09:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 19.97 g | 10 mL | 143475 | 04/15/21 10:38 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 143969 | 04/19/21 08:05 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56470-1

## Client Sample ID: SSD-12-1.0
**Date Collected: 04/13/21 10:17**
**Date Received: 04/14/21 09:50**

## Lab Sample ID: 570-56470-13
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3541 | | | 20.06 g | 2 mL | 144014 | 04/17/21 08:36 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 144877 | 04/21/21 16:10 | UHHN | ECL 1 |
| | Instrument ID: GC58 | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 2.08 g | 100 mL | 144090 | 04/17/21 13:00 | WL8G | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 144576 | 04/19/21 23:01 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-12-2.0
**Date Collected: 04/13/21 10:19**
**Date Received: 04/14/21 09:50**

## Lab Sample ID: 570-56470-14
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.03 g | 10 mL | 143475 | 04/15/21 10:38 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 143969 | 04/18/21 20:00 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |
| Total/NA | Prep | 3541 | | | 20.22 g | 2 mL | 144014 | 04/17/21 08:36 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 144877 | 04/21/21 16:28 | UHHN | ECL 1 |
| | Instrument ID: GC58 | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 2.04 g | 100 mL | 144090 | 04/17/21 13:00 | WL8G | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 144576 | 04/19/21 23:03 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-12-3.0
**Date Collected: 04/13/21 10:21**
**Date Received: 04/14/21 09:50**

## Lab Sample ID: 570-56470-15
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.00 g | 10 mL | 143475 | 04/15/21 10:38 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 143969 | 04/18/21 20:15 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |
| Total/NA | Prep | 3541 | | | 20.02 g | 2 mL | 144014 | 04/17/21 08:36 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 144877 | 04/21/21 16:46 | UHHN | ECL 1 |
| | Instrument ID: GC58 | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 1.97 g | 100 mL | 144090 | 04/17/21 13:00 | WL8G | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 144576 | 04/19/21 23:04 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-12-4.0
**Date Collected: 04/13/21 10:23**
**Date Received: 04/14/21 09:50**

## Lab Sample ID: 570-56470-16
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.07 g | 100 mL | 144090 | 04/17/21 13:00 | WL8G | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 144576 | 04/19/21 23:06 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56470-1

## Client Sample ID: SSD-12-5.0
**Date Collected: 04/13/21 10:25**
**Date Received: 04/14/21 09:50**

## Lab Sample ID: 570-56470-17
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 19.74 g | 2 mL | 143342 | 04/15/21 10:33 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 143819 | 04/16/21 19:29 | N8CZ | ECL 1 |
| | Instrument ID: GCMSCCC | | | | | | | | | |

## Client Sample ID: SSD-12-8.0
**Date Collected: 04/13/21 10:27**
**Date Received: 04/14/21 09:50**

## Lab Sample ID: 570-56470-18
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 19.50 g | 2 mL | 143342 | 04/15/21 10:33 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 143819 | 04/16/21 19:47 | N8CZ | ECL 1 |
| | Instrument ID: GCMSCCC | | | | | | | | | |

## Client Sample ID: SSD-11-0.0
**Date Collected: 04/13/21 11:00**
**Date Received: 04/14/21 09:50**

## Lab Sample ID: 570-56470-19
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 19.95 g | 10 mL | 143475 | 04/15/21 10:38 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 143969 | 04/19/21 08:19 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |
| Total/NA | Prep | 3541 | | | 20.06 g | 2 mL | 144014 | 04/17/21 08:36 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 144917 | 04/21/21 14:18 | UHHN | ECL 1 |
| | Instrument ID: GC66 | | | | | | | | | |

## Client Sample ID: SSD-11-1.0
**Date Collected: 04/13/21 11:02**
**Date Received: 04/14/21 09:50**

## Lab Sample ID: 570-56470-20
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.04 g | 10 mL | 143475 | 04/15/21 10:38 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 143969 | 04/19/21 08:33 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |
| Total/NA | Prep | 3541 | | | 20.20 g | 2 mL | 144014 | 04/17/21 08:36 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 144917 | 04/21/21 14:36 | UHHN | ECL 1 |
| | Instrument ID: GC66 | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 2.03 g | 100 mL | 144090 | 04/17/21 13:00 | WL8G | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 144576 | 04/19/21 23:08 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-11-2.0

**Lab Sample ID: 570-56470-21**

**Date Collected: 04/13/21 11:04**

**Matrix: Solid**

**Date Received: 04/14/21 09:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 19.97 g | 10 mL | 143475 | 04/15/21 10:38 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 143969 | 04/19/21 11:10 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |
| Total/NA | Prep | 3541 | | | 20.18 g | 2 mL | 144014 | 04/17/21 08:36 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 144917 | 04/21/21 14:54 | UHHN | ECL 1 |
| | Instrument ID: GC66 | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 2.10 g | 100 mL | 144090 | 04/17/21 13:00 | WL8G | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 144576 | 04/19/21 23:10 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-11-3.0

**Lab Sample ID: 570-56470-22**

**Date Collected: 04/13/21 11:06**

**Matrix: Solid**

**Date Received: 04/14/21 09:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.17 g | 10 mL | 143475 | 04/15/21 10:38 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 143969 | 04/19/21 02:24 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |
| Total/NA | Prep | 3541 | | | 20.09 g | 2 mL | 144014 | 04/17/21 08:36 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 144917 | 04/21/21 15:12 | UHHN | ECL 1 |
| | Instrument ID: GC66 | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 2.02 g | 100 mL | 144090 | 04/17/21 13:00 | WL8G | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 144576 | 04/19/21 23:12 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-11-.4.0

**Lab Sample ID: 570-56470-23**

**Date Collected: 04/13/21 11:08**

**Matrix: Solid**

**Date Received: 04/14/21 09:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.99 g | 100 mL | 144090 | 04/17/21 13:00 | WL8G | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 144576 | 04/19/21 23:14 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-11-5.0

**Lab Sample ID: 570-56470-24**

**Date Collected: 04/13/21 11:10**

**Matrix: Solid**

**Date Received: 04/14/21 09:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.10 g | 2 mL | 143342 | 04/15/21 10:33 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 143819 | 04/16/21 20:05 | N8CZ | ECL 1 |
| | Instrument ID: GCMSCCC | | | | | | | | | |

## Client Sample ID: SSD-11-8.0

**Lab Sample ID: 570-56470-25**

**Date Collected: 04/13/21 11:12**

**Matrix: Solid**

**Date Received: 04/14/21 09:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.14 g | 2 mL | 143342 | 04/15/21 10:33 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 143819 | 04/16/21 20:24 | N8CZ | ECL 1 |
| | Instrument ID: GCMSCCC | | | | | | | | | |

## Client Sample ID: SW-2-C-5.0

**Lab Sample ID: 570-56470-26**

**Date Collected: 04/13/21 11:20**

**Matrix: Solid**

**Date Received: 04/14/21 09:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.648 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143655 | 04/16/21 04:50 | C5SC | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.37 g | 2 mL | 143342 | 04/15/21 10:33 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 143819 | 04/16/21 20:42 | N8CZ | ECL 1 |
| | Instrument ID: GCMSCCC | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 5.601 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143856 | 04/17/21 09:53 | A9VE | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 10.38 g | 10 mL | 144622 | 04/20/21 13:40 | N5Y3 | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 144703 | 04/21/21 14:31 | A1W | ECL 1 |
| | Instrument ID: GC48 | | | | | | | | | |

## Client Sample ID: SW-3-C-0.0

**Lab Sample ID: 570-56470-27**

**Date Collected: 04/13/21 11:40**

**Matrix: Solid**

**Date Received: 04/14/21 09:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.03 g | 10 mL | 143475 | 04/15/21 10:38 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 143969 | 04/19/21 11:24 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |
| Total/NA | Prep | 3541 | | | 20.10 g | 2 mL | 144014 | 04/17/21 08:36 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 144917 | 04/21/21 15:31 | UHHN | ECL 1 |
| | Instrument ID: GC66 | | | | | | | | | |

## Client Sample ID: SW-3-C-1.0

**Lab Sample ID: 570-56470-28**

**Date Collected: 04/13/21 11:42**

**Matrix: Solid**

**Date Received: 04/14/21 09:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.01 g | 10 mL | 143475 | 04/15/21 10:38 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 143969 | 04/19/21 02:38 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |
| Total/NA | Prep | 3541 | | | 20.13 g | 2 mL | 144014 | 04/17/21 08:36 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 144917 | 04/21/21 15:49 | UHHN | ECL 1 |
| | Instrument ID: GC66 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56470-1

## Client Sample ID: SW-3-C-2.0

**Lab Sample ID: 570-56470-29**

**Date Collected: 04/13/21 11:44**

**Matrix: Solid**

**Date Received: 04/14/21 09:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 19.99 g | 10 mL | 143475 | 04/15/21 10:38 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 143969 | 04/19/21 11:39 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |
| Total/NA | Prep | 3541 | | | 20.12 g | 2 mL | 144014 | 04/17/21 08:36 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 144917 | 04/21/21 16:07 | UHHN | ECL 1 |
| | Instrument ID: GC66 | | | | | | | | | |

## Client Sample ID: SW-3-C-3.0

**Lab Sample ID: 570-56470-30**

**Date Collected: 04/13/21 11:46**

**Matrix: Solid**

**Date Received: 04/14/21 09:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.03 g | 10 mL | 143475 | 04/15/21 10:38 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 143969 | 04/19/21 11:53 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |
| Total/NA | Prep | 3541 | | | 20.10 g | 2 mL | 144014 | 04/17/21 08:36 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 144917 | 04/21/21 16:26 | UHHN | ECL 1 |
| | Instrument ID: GC66 | | | | | | | | | |

## Client Sample ID: SW-3-C-5.0

**Lab Sample ID: 570-56470-31**

**Date Collected: 04/13/21 11:48**

**Matrix: Solid**

**Date Received: 04/14/21 09:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 7.449 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 143655 | 04/16/21 05:15 | C5SC | ECL 2 |
| | Instrument ID: GCMSGGG | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 19.35 g | 2 mL | 143342 | 04/15/21 10:33 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 143819 | 04/16/21 21:00 | N8CZ | ECL 1 |
| | Instrument ID: GCMSCCC | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 5.775 g | 5 g | 143636 | 04/15/21 18:13 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 143856 | 04/17/21 10:17 | A9VE | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 10.63 g | 10 mL | 144622 | 04/20/21 13:40 | N5Y3 | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 144703 | 04/21/21 14:52 | A1W | ECL 1 |
| | Instrument ID: GC48 | | | | | | | | | |

**Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

EMLab = EMLab - Irvine, 17461 Derian Ave., Suite 100, Irvine, CA 92614

# Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56470-1

## Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Arkansas DEQ | State | 88-0161 | 11-19-21 |
| California | Los Angeles County Sanitation Districts | 10109 | 09-30-21 |
| California | SCAQMD LAP | 17LA0919 | 11-30-21 |
| California | State | 2944 | 09-30-21 |
| Guam | State | 20-003R | 10-31-20 * |
| Nevada | State | CA00111 | 07-31-21 |
| Oregon | NELAP | CA300001 | 01-30-22 |
| USDA | US Federal Programs | P330-20-00034 | 02-10-23 |
| Washington | State | C916-18 | 10-11-21 |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56470-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | ECL 2 |
| 8270C | Semivolatile Organic Compounds (GC/MS) | SW846 | ECL 1 |
| 8015B | Gasoline Range Organics - (GC) | SW846 | ECL 2 |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | ECL 1 |
| 8081A | Organochlorine Pesticides (GC) | SW846 | ECL 1 |
| 8082 | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | ECL 1 |
| 6010B | Metals (ICP) | SW846 | ECL 1 |
| Subcontract | Asbestos CARB-435 | None | EMLab |
| 3050B | Preparation, Metals | SW846 | ECL 1 |
| 3541 | Automated Soxhlet Extraction | SW846 | ECL 1 |
| 3546 | Microwave Extraction | SW846 | ECL 1 |
| 3550C | Ultrasonic Extraction | SW846 | ECL 1 |
| 5035 | Closed System Purge and Trap | SW846 | ECL 2 |

**Protocol References:**

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

EMLab = EMLab - Irvine, 17461 Derian Ave., Suite 100, Irvine, CA 92614

# Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56470-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 570-56470-1 | TW-3-50 | Solid | 04/12/21 14:30 | 04/14/21 09:50 | |
| 570-56470-2 | TW-3-60 | Solid | 04/12/21 14:40 | 04/14/21 09:50 | |
| 570-56470-3 | G-15-C-5.0 | Solid | 04/12/21 15:00 | 04/14/21 09:50 | |
| 570-56470-4 | TW-2-10 | Solid | 04/12/21 15:40 | 04/14/21 09:50 | |
| 570-56470-5 | TW-2-20 | Solid | 04/12/21 15:50 | 04/14/21 09:50 | |
| 570-56470-6 | TW-2-30 | Solid | 04/12/21 16:00 | 04/14/21 09:50 | |
| 570-56470-7 | TW-2-40 | Solid | 04/12/21 16:07 | 04/14/21 09:50 | |
| 570-56470-8 | SB-4-5.0 | Solid | 04/12/21 16:15 | 04/14/21 09:50 | |
| 570-56470-9 | G-16-C-5.0 | Solid | 04/13/21 08:50 | 04/14/21 09:50 | |
| 570-56470-10 | G-17-C-5.0 | Solid | 04/13/21 08:45 | 04/14/21 09:50 | |
| 570-56470-11 | G-27-C-5.0 | Solid | 04/13/21 09:30 | 04/14/21 09:50 | |
| 570-56470-12 | SSD-12-0.0 | Solid | 04/13/21 10:15 | 04/14/21 09:50 | |
| 570-56470-13 | SSD-12-1.0 | Solid | 04/13/21 10:17 | 04/14/21 09:50 | |
| 570-56470-14 | SSD-12-2.0 | Solid | 04/13/21 10:19 | 04/14/21 09:50 | |
| 570-56470-15 | SSD-12-3.0 | Solid | 04/13/21 10:21 | 04/14/21 09:50 | |
| 570-56470-16 | SSD-12-4.0 | Solid | 04/13/21 10:23 | 04/14/21 09:50 | |
| 570-56470-17 | SSD-12-5.0 | Solid | 04/13/21 10:25 | 04/14/21 09:50 | |
| 570-56470-18 | SSD-12-8.0 | Solid | 04/13/21 10:27 | 04/14/21 09:50 | |
| 570-56470-19 | SSD-11-0.0 | Solid | 04/13/21 11:00 | 04/14/21 09:50 | |
| 570-56470-20 | SSD-11-1.0 | Solid | 04/13/21 11:02 | 04/14/21 09:50 | |
| 570-56470-21 | SSD-11-2.0 | Solid | 04/13/21 11:04 | 04/14/21 09:50 | |
| 570-56470-22 | SSD-11-3.0 | Solid | 04/13/21 11:06 | 04/14/21 09:50 | |
| 570-56470-23 | SSD-11-.4.0 | Solid | 04/13/21 11:08 | 04/14/21 09:50 | |
| 570-56470-24 | SSD-11-5.0 | Solid | 04/13/21 11:10 | 04/14/21 09:50 | |
| 570-56470-25 | SSD-11-8.0 | Solid | 04/13/21 11:12 | 04/14/21 09:50 | |
| 570-56470-26 | SW-2-C-5.0 | Solid | 04/13/21 11:20 | 04/14/21 09:50 | |
| 570-56470-27 | SW-3-C-0.0 | Solid | 04/13/21 11:40 | 04/14/21 09:50 | |
| 570-56470-28 | SW-3-C-1.0 | Solid | 04/13/21 11:42 | 04/14/21 09:50 | |
| 570-56470-29 | SW-3-C-2.0 | Solid | 04/13/21 11:44 | 04/14/21 09:50 | |
| 570-56470-30 | SW-3-C-3.0 | Solid | 04/13/21 11:46 | 04/14/21 09:50 | |
| 570-56470-31 | SW-3-C-5.0 | Solid | 04/13/21 11:48 | 04/14/21 09:50 | |

eurofins | EMLab P&K

Report for:

**Lena Davidkova**
**Eurofins Calscience LLC**
17461 Derian Ave.
Suite 100
Irvine, CA 92614

Regarding: Project: 570-56470-1; Chevron 206145
EML ID: 2620720

Approved by:

Murali R Putty

Technical Manager
Murali Putty

Dates of Analysis:
Asbestos-CARB 435 (1000 pt ct): 04-28-2021

Service SOPs: Asbestos-CARB 435 (1000 pt ct) (EM-AS-S-1265)
NVLAP Lab Code 200728-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

**Eurofins EMLab P&K**
6000 Shoreline Ct, Ste 205, So. San Francisco, CA 94080
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Eurofins Calscience LLC
C/O: Lena Davidkova
Re: 570-56470-1; Chevron 206145

Date of Sampling: 04-13-2021
Date of Receipt: 04-16-2021
Date of Report: 04-28-2021

## ASBESTOS POINT COUNT REPORT: CARB METHOD 435

| Location: | G-17-C-5.0 (570-56470-10) | | |
|---|---|---|---|
| Total Points Counted: | 400 | | |
| Lab ID-Version‡: | 12516152-1 | | |
| **Sample Layers** | **Asbestos Type** | **Asbestos Points Counted** | **Asbestos Concentration (%)** |
| Brown Soil | - | - | ND |
| **Layer Totals:** | | - | - |

**Comments:** No asbestos was detected and no points were counted.

| Location: | SSD-12-0.0 (570-56470-12) | | |
|---|---|---|---|
| Total Points Counted: | 400 | | |
| Lab ID-Version‡: | 12516153-1 | | |
| **Sample Layers** | **Asbestos Type** | **Asbestos Points Counted** | **Asbestos Concentration (%)** |
| Brown Soil | - | - | ND |
| **Layer Totals:** | | - | - |

**Comments:** No asbestos was detected and no points were counted.

| Location: | SSD-12-1.0 (570-56470-13) | | |
|---|---|---|---|
| Total Points Counted: | 400 | | |
| Lab ID-Version‡: | 12516154-1 | | |
| **Sample Layers** | **Asbestos Type** | **Asbestos Points Counted** | **Asbestos Concentration (%)** |
| Brown Soil | - | - | ND |
| **Layer Totals:** | | - | - |

**Comments:** No asbestos was detected and no points were counted.

The analytical sensitivity is 1 asbestos point. The limit of detection is 1 asbestos point divided by the total number of points counted and multiplied by 100.

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government.

All samples were received in acceptable condition unless otherwise noted. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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Client: Eurofins Calscience LLC
C/O: Lena Davidkova
Re: 570-56470-1; Chevron 206145

Date of Sampling: 04-13-2021
Date of Receipt: 04-16-2021
Date of Report: 04-28-2021

## ASBESTOS POINT COUNT REPORT: CARB METHOD 435

| Location: | SSD-12-2.0 (570-56470-14) | | |
|---|---|---|---|
| Total Points Counted: | 400 | | |
| Lab ID-Version‡: | 12516155-1 | | |
| **Sample Layers** | **Asbestos Type** | **Asbestos Points Counted** | **Asbestos Concentration (%)** |
| Brown Soil | - | - | ND |
| **Layer Totals:** | | - | - |

**Comments:** No asbestos was detected and no points were counted.

| Location: | SSD-12-3.0 (570-56470-15) | | |
|---|---|---|---|
| Total Points Counted: | 400 | | |
| Lab ID-Version‡: | 12516156-1 | | |
| **Sample Layers** | **Asbestos Type** | **Asbestos Points Counted** | **Asbestos Concentration (%)** |
| Brown Soil | - | - | ND |
| **Layer Totals:** | | - | - |

**Comments:** No asbestos was detected and no points were counted.

| Location: | SSD-11-0.0 (570-56470-19) | | |
|---|---|---|---|
| Total Points Counted: | 400 | | |
| Lab ID-Version‡: | 12516157-1 | | |
| **Sample Layers** | **Asbestos Type** | **Asbestos Points Counted** | **Asbestos Concentration (%)** |
| Brown Soil | - | - | ND |
| **Layer Totals:** | | - | - |

**Comments:** No asbestos was detected and no points were counted.

The analytical sensitivity is 1 asbestos point. The limit of detection is 1 asbestos point divided by the total number of points counted and multiplied by 100.

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government.

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Client: Eurofins Calscience LLC
C/O: Lena Davidkova
Re: 570-56470-1; Chevron 206145

Date of Sampling: 04-13-2021
Date of Receipt: 04-16-2021
Date of Report: 04-28-2021

## ASBESTOS POINT COUNT REPORT: CARB METHOD 435

| Location: | SSD-11-1.0 (570-56470-20) | | |
|---|---|---|---|
| Total Points Counted: | 400 | | |
| Lab ID-Version‡: | 12516158-1 | | |
| **Sample Layers** | **Asbestos Type** | **Asbestos Points Counted** | **Asbestos Concentration (%)** |
| Brown Soil | - | - | ND |
| **Layer Totals:** | | - | - |

**Comments:** No asbestos was detected and no points were counted.

| Location: | SSD-11-2.0 (570-56470-21) | | |
|---|---|---|---|
| Total Points Counted: | 400 | | |
| Lab ID-Version‡: | 12516159-1 | | |
| **Sample Layers** | **Asbestos Type** | **Asbestos Points Counted** | **Asbestos Concentration (%)** |
| Brown Soil | - | - | ND |
| **Layer Totals:** | | - | - |

**Comments:** No asbestos was detected and no points were counted.

| Location: | SSD-11-3.0 (570-56470-22) | | |
|---|---|---|---|
| Total Points Counted: | 400 | | |
| Lab ID-Version‡: | 12516160-1 | | |
| **Sample Layers** | **Asbestos Type** | **Asbestos Points Counted** | **Asbestos Concentration (%)** |
| Brown Soil | - | - | ND |
| **Layer Totals:** | | - | - |

**Comments:** No asbestos was detected and no points were counted.

The analytical sensitivity is 1 asbestos point. The limit of detection is 1 asbestos point divided by the total number of points counted and multiplied by 100.

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government.

All samples were received in acceptable condition unless otherwise noted. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.
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Client: Eurofins Calscience LLC
C/O: Lena Davidkova
Re: 570-56470-1; Chevron 206145

Date of Sampling: 04-13-2021
Date of Receipt: 04-16-2021
Date of Report: 04-28-2021

## ASBESTOS POINT COUNT REPORT: CARB METHOD 435

| Location: | SW-3-C-0.0 (570-56470-27) | | |
|---|---|---|---|
| Total Points Counted: | 400 | | |
| Lab ID-Version‡: | 12516161-1 | | |
| **Sample Layers** | **Asbestos Type** | **Asbestos Points Counted** | **Asbestos Concentration (%)** |
| Brown Soil | - | - | ND |
| **Layer Totals:** | | - | - |

**Comments:** No asbestos was detected and no points were counted.

| Location: | SW-3-C-1.0 (570-56470-28) | | |
|---|---|---|---|
| Total Points Counted: | 400 | | |
| Lab ID-Version‡: | 12516162-1 | | |
| **Sample Layers** | **Asbestos Type** | **Asbestos Points Counted** | **Asbestos Concentration (%)** |
| Brown Soil | - | - | ND |
| **Layer Totals:** | | - | - |

**Comments:** No asbestos was detected and no points were counted.

| Location: | SW-3-C-2.0 (570-56470-29) | | |
|---|---|---|---|
| Total Points Counted: | 400 | | |
| Lab ID-Version‡: | 12516163-1 | | |
| **Sample Layers** | **Asbestos Type** | **Asbestos Points Counted** | **Asbestos Concentration (%)** |
| Brown Soil | - | - | ND |
| **Layer Totals:** | | - | - |

**Comments:** No asbestos was detected and no points were counted.

The analytical sensitivity is 1 asbestos point. The limit of detection is 1 asbestos point divided by the total number of points counted and multiplied by 100.

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government.

All samples were received in acceptable condition unless otherwise noted. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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Client: Eurofins Calscience LLC
C/O: Lena Davidkova
Re: 570-56470-1; Chevron 206145

Date of Sampling: 04-13-2021
Date of Receipt: 04-16-2021
Date of Report: 04-28-2021

## ASBESTOS POINT COUNT REPORT: CARB METHOD 435

| Location: | SW-3-C-3.0 (570-56470-30) | | |
|---|---|---|---|
| Total Points Counted: | 400 | | |
| Lab ID-Version‡: | 12516164-1 | | |
| **Sample Layers** | **Asbestos Type** | **Asbestos Points Counted** | **Asbestos Concentration (%)** |
| Brown Soil | - | - | ND |
| **Layer Totals:** | | - | - |

**Comments:** No asbestos was detected and no points were counted.

The analytical sensitivity is 1 asbestos point. The limit of detection is 1 asbestos point divided by the total number of points counted and multiplied by 100.

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government.

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570-56470 Chain of Custody

# CHAIN OF CUSTODY RECORD

DATE: 4/13/21

PAGE: 1 OF 4

LABORATORY CLIENT: Arcadis U S Inc

ADDRESS: 2300 Clayton Rd Ste 400

CITY: Concord STATE: CA ZIP: 94520

TEL: 609-216-8139 E-MAIL: Nicholas Cardella@arcadis com

CLIENT PROJECT NAME / NUMBER: Chevron 206145

P.O NO: 30045659

PROJECT CONTACT: Nicholas Cardella

SAMPLER(S) (PRINT): Radley A and Mia J

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD')
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE

SPECIAL INSTRUCTIONS.

## REQUESTED ANALYSES

Please check box or fill in blank as needed

| LAB USE ONLY | SAMPLE ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered | TPH-g by USEPA Method 8015 Modified | TPH-d by USEPA Method 8015 Modified | Full list VOCS by USEPA Method 8260B | PAHs and Naphthalene by USEPA Method 8270B | Lead by USEPA Method 6010B | Asbestos - CARB 435A | PCBs by USEPA Method 8082 with 541-Automated Soxhlet Extraction | OCPs by USEPA Method 8081A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | TW-3-50 | 4/12/21 | 1430 | Soil | 5 | | X | | X | X | X | | | | | |
| 2 | TW-3-60 | " | 1440 | Soil | 5 | | X | | X | X | X | | | | | |
| 3 | G-15-C-5.0 | | 1500 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 4 | TW-2-10 | | 1540 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 5 | TW-2-20 | | 1550 | Soil | 5 | | X | | X | X | X | | | | | |
| 6 | TW-2-30 | | 1600 | Soil | 5 | | X | | X | X | X | | | | | |
| 7 | TW-2-40 | | 1607 | Soil | 5 | | X | | X | X | X | | | | | |
| 8 | SB-4-5.0 | | 1615 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 9 | G-16-C-5.0 | 4/13/21 | 0850 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 10 | G-17-C-5.0 | " | 0845 | Soil | 7 | X | X | | X | X | X | X | X | | | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: 4/13/21 | Time: 1300 |
| Relinquished by: (Signature) 4/13/21 1630 | Received by: (Signature/Affiliation) @ | Date: 4/14/21 | Time 0930 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: | Time |

25/29, 27/31 SCJ * C-5

06/02/14 Revision



4/28/2021

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# CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 4/13/21

PAGE: 2 OF 4

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CITY: Concord STATE: CA ZIP: 94520

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CLIENT PROJECT NAME / NUMBER: Chevron 206145

P.O. NO: 30045659

PROJECT CONTACT: Nicholas Cardella

SAMPLER(S) (PRINT): Radley A. and Mia J

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD')

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS

## REQUESTED ANALYSES

Please check box or fill in blank as needed

| LAB USE ONLY | SAMPLE ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered | TPH-g by USEPA Method 8015 Modified | TPH-d by USEPA Method 8015 Modified | Full list VOCS by USEPA Method 8260B | PAHs and Naphthalene by USEPA Method 8270B | Lead by USEPA Method 6010B | Asbestos - CARB 435A | PCBs by USEPA Method 8082 with 541-Automated Soxhlet Extraction | OCPs by USEPA Method 8081A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | G-27-C-5.0 | 4/13/21 | 0930 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 12 | SSD-12-0.0 | | 1015 | Soil | 2 | X | | | | | | | | X | X | X |
| 13 | SSD-12-1.0 | | 1017 | Soil | 2 | X | | | | | | | X | X | X | X |
| 14 | SSD-12-2.0 | | 1019 | Soil | 2 | X | | | | | | | X | X | X | X |
| 15 | SSD-12-3.0 | | 1021 | Soil | 2 | X | | | | | | | X | X | X | X |
| 16 | SSD-12-4.0 | | 1023 | Soil | 1 | X | | | | | | | X | | | |
| 17 | SSD-12-5.0 | | 1025 | Soil | 1 | X | | | | | | X | | | | |
| 18 | SSD-12-8.0 | | 1027 | Soil | 1 | X | | | | | | X | | | | |
| 19 | SSD-11-0.0 | | 1100 | Soil | 2 | X | | | | | | | | X | X | X |
| 20 | SSD-11-1.0 | | 1102 | Soil | 2 | X | | | | | | | X | X | X | X |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: 4/13/21 | Time: 1300 |
| Relinquished by: (Signature) 4/13/21 1630 | Received by: (Signature/Affiliation) | Date: 4/14/21 | Time: 0950 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: | Time |

06/02/14 Revision



4/28/2021

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# CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 4/13/21

PAGE: 3 OF 4

LABORATORY CLIENT: Arcadis U S Inc

ADDRESS: 2300 Clayton Rd Ste 400

CITY: Concord STATE: CA ZIP: 94520

TEL.: 609-216-8139 E-MAIL.: Nicholas Cardella@arcadis.com

CLIENT PROJECT NAME / NUMBER.: Chevron 206145

P.O. NO: 30045659

PROJECT CONTACT: Nicholas Cardella

SAMPLER(S). (PRINT): Radley A. and Mia J

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

## REQUESTED ANALYSES

Please check box or fill in blank as needed

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | SSD-11-2.0 | 4/13/21 | 1104 | Soil | 2 | X | | | | | | | X | X | X | X |
| 22 | SSD-11-3.0 | | 1106 | Soil | 2 | X | | | | | | | X | X | X | X |
| 23 | SSD-11-4.0 | | 1108 | Soil | 1 | X | | | | | | | X | | | |
| 24 | SSD-11-5.0 | | 1110 | Soil | 1 | X | | | | | | X | | | | |
| 25 | SSD-11-8.0 | | 1112 | Soil | 1 | X | | | | | | X | | | | |
| 26 | SW-2-C-5.0 | | 1120 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 27 | SW-3-C-0.0 | | 1140 | Soil | 2 | X | | | | | | | | X | X | X |
| 28 | SW-3-C-1.0 | | 1142 | Soil | 2 | X | | | | | | | | X | X | X |
| 29 | SW-3-C-2.0 | | 1144 | Soil | 2 | X | | | | | | | | X | X | X |
| 30 | SW-3-C-3.0 | | 1146 | Soil | 2 | X | | | | | | | | X | X | X |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: 4/13/21 | Time: 1300 |
| Relinquished by: (Signature) 4/13/21 1630 | Received by: (Signature/Affiliation) | Date 4/14/21 | Time: 0950 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date | Time: |

06/02/14 Revision

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WO # / LAB USE ONLY

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PAGE: 4 OF 4

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P.O. NO: 30045659

PROJECT CONTACT: Nicholas Cardella

SAMPLER(S): (PRINT): Radley A. and Mia J

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

## REQUESTED ANALYSES

Please check box or fill in blank as needed

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | SW-3-C-5.0 | 4/13/21 | 1148 | Soil | 2 | X | X | | X | X | X | X | | | | |
| | | | | Soil | | | | | | | | | | | | |
| | | | | Soil | | | | | | | | | | | | |
| | | | | Soil | | | | | | | | | | | | |
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| | | | | Soil | | | | | | | | | | | | |
| | | | | Soil | | | | | | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: 4/13/21 | Time: 1300 |
| Relinquished by: (Signature) 650 4/13/21 1650 | Received by: (Signature/Affiliation) | Date: 4/14/21 | Time: 0950 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date | Time |

06/02/14 Revision

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A 94520

570-56470 Waybill

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ROVE, CA 92841

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s)

40100070

ructions:

pe: STANDARD

ORC CA927-CL0

Print Date: 4/13/2021 3:26 PM

2

TRUCTIONS:

# Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 570-56470-1

**Login Number: 56470**
**List Number: 1**
**Creator: Liao, Gineyau**

**List Source: Eurofins Calscience**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | False | Refer to Job Narrative for details. |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

eurofins | Environment Testing America

# ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-56782-1
Client Project/Site: Chevron 206145 Oakland Center Street

For:
ARCADIS U.S. Inc
111 SW Columbia Street
Suite 670
Portland, Oregon 97201

Attn: Meg Armstrong

*Authorized for release by:*
*5/4/2021 12:54:25 PM*

Lena Davidkov, Project Manager II
(949)260-3229
Lena.Davidkova@Eurofinset.com

LINKS

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*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| p | The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported. |
| S1+ | Surrogate recovery exceeds control limits, high biased. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| F1 | MS and/or MSD recovery 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. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |

## Glossary (Continued)

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

## Job ID: 570-56782-1

### Laboratory: Eurofins Calscience LLC

**Narrative**

**Job Narrative**
**570-56782-1**

**Comments**
Proper container for 815B-TPH was not received for the following samples: SB-3-15.0 (570-56782-32), SB-4-15.0 (570-56782-34), G-15-C-15.0 (570-56782-62), G-16-C-15.0 (570-56782-64), SW-3-C-15.0 (570-56782-68) and SW-4/MW-14-C-15.0 (570-56782-70)

**Receipt**
The samples were received on 4/16/2021 10:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.4º C, 3.6º C and 3.8º C.

**GC/MS VOA**
Method 8260B: The continuing calibration verification (CCV) associated with batch 570-144782 recovered above the upper control limit for Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 570-144782/3).

Method 8260B: The following analyte(s) recovered outside control limits for the LCS associated with analytical batch 570-144782: Vinyl acetate. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 570-144782 and 570-145066.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**GC/MS Semi VOA**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**GC VOA**
Method 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-145244, 570-145050 and 570-145488

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**GC Semi VOA**
Method 8082: Surrogate recovery for the following sample was outside control limits: SSD-6-0.0 (570-56782-39). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081A: The continuing calibration verification (CCV) associated with 570-145226 recovered high and outside the control limits for < DCB Decachlorobiphenyl (Surr)> on one column. Results are confirmed on both columns and reported from the passing column. The associated sample is: (CCV 570-145226/58).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Metals**
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-144129 and analytical batch 570-145179 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-144125 and analytical batch 570-145179 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: Due to the high concentration of Lead the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 570-144950

## Job ID: 570-56782-1 (Continued)

### Laboratory: Eurofins Calscience LLC (Continued)

and analytical batch 570-145331 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 6010B: Due to the high concentration of Lead the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 570-144964 and analytical batch 570-145216 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Organic Prep**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**VOA Prep**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Lab Admin**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-19-4.0 — Lab Sample ID: 570-56782-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 97 | F1 | 4.8 | 0.93 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-19-0.0 — Lab Sample ID: 570-56782-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDT | 2.1 | J | 5.0 | 0.36 | ug/Kg | 1 | | 8081A | Total/NA |
| Aroclor-1260 | 27 | | 10 | 5.0 | ug/Kg | 1 | | 8082 | Total/NA |

## Client Sample ID: SSD-18-1.0 — Lab Sample ID: 570-56782-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 160 | | 4.9 | 0.95 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-18-2.0 — Lab Sample ID: 570-56782-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 58 | | 5.0 | 0.97 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-18-3.0 — Lab Sample ID: 570-56782-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 11 | | 4.9 | 0.95 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-18-4.0 — Lab Sample ID: 570-56782-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 99 | | 4.8 | 0.93 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-14-1.0 — Lab Sample ID: 570-56782-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 320 | | 5.1 | 0.98 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-14-2.0 — Lab Sample ID: 570-56782-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 280 | | 5.1 | 0.99 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-14-3.0 — Lab Sample ID: 570-56782-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 130 | | 5.0 | 0.97 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-14-4.0 — Lab Sample ID: 570-56782-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 23 | | 5.0 | 0.97 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-13-1.0 — Lab Sample ID: 570-56782-11

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 180 | | 5.1 | 0.98 | mg/Kg | 1 | | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-13-2.0 — Lab Sample ID: 570-56782-12

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 10 | | 5.0 | 0.97 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-13-3.0 — Lab Sample ID: 570-56782-13

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 77 | | 5.1 | 0.99 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-13-4.0 — Lab Sample ID: 570-56782-14

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 2.8 | J | 4.9 | 0.94 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-10-1.0 — Lab Sample ID: 570-56782-15

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 160 | | 5.1 | 0.99 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-10-2.0 — Lab Sample ID: 570-56782-16

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 9.2 | | 5.0 | 0.96 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-10-3.0 — Lab Sample ID: 570-56782-17

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 11 | | 4.8 | 0.93 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-10-4.0 — Lab Sample ID: 570-56782-18

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 5.7 | | 5.2 | 1.0 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-9-1.0 — Lab Sample ID: 570-56782-19

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1300 | | 5.0 | 0.96 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-9-2.0 — Lab Sample ID: 570-56782-20

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 380 | | 4.9 | 0.95 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-9-3.0 — Lab Sample ID: 570-56782-21

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 340 | | 4.8 | 0.93 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-9-4.0 — Lab Sample ID: 570-56782-22

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 80 | F1 | 4.8 | 0.93 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-8-1.0 — Lab Sample ID: 570-56782-23

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1200 | | 5.2 | 1.0 | mg/Kg | 1 | | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-8-2.0 — Lab Sample ID: 570-56782-24

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 12 | | 4.8 | 0.93 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-8-3.0 — Lab Sample ID: 570-56782-25

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 24 | | 5.2 | 1.0 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-8-4.0 — Lab Sample ID: 570-56782-26

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 10 | | 4.8 | 0.93 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-7-1.0 — Lab Sample ID: 570-56782-27

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 950 | | 5.1 | 0.99 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-7-2.0 — Lab Sample ID: 570-56782-28

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 16 | | 5.1 | 0.98 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-7-3.0 — Lab Sample ID: 570-56782-29

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 15 | | 4.9 | 0.94 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-7-4.0 — Lab Sample ID: 570-56782-30

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 29 | | 5.1 | 0.99 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SB-3-10.0 — Lab Sample ID: 570-56782-31

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.016 | | 0.015 | 0.0074 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: SB-3-15.0 — Lab Sample ID: 570-56782-32

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.035 | | 0.016 | 0.0080 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: SB-4-10.0 — Lab Sample ID: 570-56782-33

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.014 | J | 0.015 | 0.0074 | mg/Kg | 1 | | 8260B | Total/NA |
| Trichloroethene | 0.00030 | J | 0.0015 | 0.00029 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: SB-4-15.0 — Lab Sample ID: 570-56782-34

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.018 | | 0.014 | 0.0070 | mg/Kg | 1 | | 8260B | Total/NA |

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-5-1.0 — Lab Sample ID: 570-56782-35

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1300 | | 4.9 | 0.94 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-5-2.0 — Lab Sample ID: 570-56782-36

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 530 | | 5.1 | 0.98 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-5-3.0 — Lab Sample ID: 570-56782-37

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 160 | | 5.1 | 0.98 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-5-4.0 — Lab Sample ID: 570-56782-38

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 110 | | 4.8 | 0.93 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-6-0.0 — Lab Sample ID: 570-56782-39

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 4.1 | J p | 5.0 | 0.98 | ug/Kg | 1 | | 8081A | Total/NA |
| 4,4'-DDE | 20 | | 5.0 | 0.54 | ug/Kg | 1 | | 8081A | Total/NA |
| alpha-Chlordane | 1.3 | J p | 5.0 | 1.3 | ug/Kg | 1 | | 8081A | Total/NA |
| Chlordane | 10 | J p | 25 | 2.4 | ug/Kg | 1 | | 8081A | Total/NA |
| Dieldrin | 6.6 | | 5.0 | 0.25 | ug/Kg | 1 | | 8081A | Total/NA |
| gamma-Chlordane | 2.2 | J | 5.0 | 0.26 | ug/Kg | 1 | | 8081A | Total/NA |
| 4,4'-DDT - DL | 43 | | 25 | 1.8 | ug/Kg | 5 | | 8081A | Total/NA |
| Aroclor-1268 - DL | 180 | | 99 | 50 | ug/Kg | 10 | | 8082 | Total/NA |

## Client Sample ID: SSD-6-1.0 — Lab Sample ID: 570-56782-40

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1268 | 29 | | 10 | 5.0 | ug/Kg | 1 | | 8082 | Total/NA |
| Lead | 180 | | 5.2 | 1.0 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-6-2.0 — Lab Sample ID: 570-56782-41

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDT | 1.3 | J | 5.0 | 0.36 | ug/Kg | 1 | | 8081A | Total/NA |
| Aroclor-1268 | 12 | | 10 | 5.0 | ug/Kg | 1 | | 8082 | Total/NA |
| Lead | 45 | | 4.8 | 0.93 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-6-3.0 — Lab Sample ID: 570-56782-42

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDT | 0.42 | J | 5.0 | 0.36 | ug/Kg | 1 | | 8081A | Total/NA |
| Lead | 17 | | 5.2 | 1.0 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-6-4.0 — Lab Sample ID: 570-56782-43

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 90 | | 5.2 | 1.0 | mg/Kg | 1 | | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-4-1.0 — Lab Sample ID: 570-56782-44

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 2900 | | 4.9 | 0.94 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-4-2.0 — Lab Sample ID: 570-56782-45

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 34 | | 5.1 | 0.98 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-4-3.0 — Lab Sample ID: 570-56782-46

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 45 | | 5.1 | 0.99 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-4-4.0 — Lab Sample ID: 570-56782-47

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 100 | | 4.9 | 0.94 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-3-1.0 — Lab Sample ID: 570-56782-48

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1300 | | 5.0 | 0.96 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-3-2.0 — Lab Sample ID: 570-56782-49

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1600 | | 5.1 | 0.99 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-3-3.0 — Lab Sample ID: 570-56782-50

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 310 | | 5.0 | 0.96 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-3-4.0 — Lab Sample ID: 570-56782-51

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 130 | | 4.9 | 0.94 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-2-1.0 — Lab Sample ID: 570-56782-52

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 2400 | | 4.9 | 0.95 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-2-2.0 — Lab Sample ID: 570-56782-53

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 750 | | 4.9 | 0.95 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-2-3.0 — Lab Sample ID: 570-56782-54

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 240 | | 5.0 | 0.97 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-2-4.0 — Lab Sample ID: 570-56782-55

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 60 | | 5.0 | 0.97 | mg/Kg | 1 | | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-1-1.0 — Lab Sample ID: 570-56782-56

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 780 | | 4.9 | 0.94 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-1-2.0 — Lab Sample ID: 570-56782-57

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 910 | | 5.1 | 0.98 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-1-3.0 — Lab Sample ID: 570-56782-58

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 95 | | 4.9 | 0.95 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-1-4.0 — Lab Sample ID: 570-56782-59

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 44 | | 4.9 | 0.94 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-29-1.0 — Lab Sample ID: 570-56782-60

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 720 | | 4.8 | 0.93 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: G-15-C-10.0 — Lab Sample ID: 570-56782-61

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 210 | | 8.0 | 2.4 | mg/Kg | 5000 | | 8260B | Total/NA |
| 1,3,5-Trimethylbenzene | 64 | | 8.0 | 2.4 | mg/Kg | 5000 | | 8260B | Total/NA |
| Benzene | 6.9 | | 4.0 | 1.0 | mg/Kg | 5000 | | 8260B | Total/NA |
| Ethylbenzene | 120 | | 4.0 | 0.83 | mg/Kg | 5000 | | 8260B | Total/NA |
| Isopropylbenzene | 8.3 | | 4.0 | 2.4 | mg/Kg | 5000 | | 8260B | Total/NA |
| Naphthalene | 33 | J | 40 | 21 | mg/Kg | 5000 | | 8260B | Total/NA |
| n-Butylbenzene | 15 | | 4.0 | 0.85 | mg/Kg | 5000 | | 8260B | Total/NA |
| N-Propylbenzene | 28 | | 8.0 | 2.4 | mg/Kg | 5000 | | 8260B | Total/NA |
| o-Xylene | 150 | | 4.0 | 2.4 | mg/Kg | 5000 | | 8260B | Total/NA |
| m,p-Xylene | 430 | | 8.0 | 1.9 | mg/Kg | 5000 | | 8260B | Total/NA |
| Toluene | 280 | | 4.0 | 2.4 | mg/Kg | 5000 | | 8260B | Total/NA |
| 1-Methylnaphthalene | 4.8 | | 0.50 | 0.036 | mg/Kg | 1 | | 8270C | Total/NA |
| 2-Methylnaphthalene | 9.5 | | 0.50 | 0.057 | mg/Kg | 1 | | 8270C | Total/NA |
| Naphthalene | 10 | | 0.50 | 0.057 | mg/Kg | 1 | | 8270C | Total/NA |
| Phenanthrene | 0.091 | J | 0.50 | 0.060 | mg/Kg | 1 | | 8270C | Total/NA |
| GRO (C6-C12) | 4700 | | 160 | 89 | mg/Kg | 2000 | | 8015B | Total/NA |
| C13-C22 | 80 | | 5.0 | 3.9 | mg/Kg | 1 | | 8015B | Total/NA |

## Client Sample ID: G-15-C-15.0 — Lab Sample ID: 570-56782-62

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.00067 | J | 0.0014 | 0.00042 | mg/Kg | 1 | | 8260B | Total/NA |
| Acetone | 0.016 | | 0.014 | 0.0069 | mg/Kg | 1 | | 8260B | Total/NA |
| Benzene | 0.00018 | J | 0.00070 | 0.00018 | mg/Kg | 1 | | 8260B | Total/NA |
| Ethylbenzene | 0.00094 | | 0.00070 | 0.00015 | mg/Kg | 1 | | 8260B | Total/NA |
| o-Xylene | 0.00055 | J | 0.00070 | 0.00042 | mg/Kg | 1 | | 8260B | Total/NA |
| m,p-Xylene | 0.0021 | | 0.0014 | 0.00033 | mg/Kg | 1 | | 8260B | Total/NA |
| Toluene | 0.0014 | | 0.00070 | 0.00042 | mg/Kg | 1 | | 8260B | Total/NA |
| GRO (C6-C12) | 0.046 | J | 0.071 | 0.039 | mg/Kg | 1 | | 8015B | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: G-16-C-10.0
## Lab Sample ID: 570-56782-63

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 290 | | 7.6 | 2.3 | mg/Kg | 5000 | | 8260B | Total/NA |
| 1,3,5-Trimethylbenzene | 89 | | 7.6 | 2.3 | mg/Kg | 5000 | | 8260B | Total/NA |
| Benzene | 45 | | 3.8 | 0.98 | mg/Kg | 5000 | | 8260B | Total/NA |
| Ethylbenzene | 240 | | 3.8 | 0.79 | mg/Kg | 5000 | | 8260B | Total/NA |
| Isopropylbenzene | 11 | | 3.8 | 2.3 | mg/Kg | 5000 | | 8260B | Total/NA |
| Naphthalene | 43 | | 38 | 20 | mg/Kg | 5000 | | 8260B | Total/NA |
| n-Butylbenzene | 19 | | 3.8 | 0.80 | mg/Kg | 5000 | | 8260B | Total/NA |
| N-Propylbenzene | 39 | | 7.6 | 2.3 | mg/Kg | 5000 | | 8260B | Total/NA |
| o-Xylene | 270 | | 3.8 | 2.3 | mg/Kg | 5000 | | 8260B | Total/NA |
| m,p-Xylene | 780 | | 7.6 | 1.8 | mg/Kg | 5000 | | 8260B | Total/NA |
| Toluene - DL | 890 | | 7.6 | 4.6 | mg/Kg | 10000 | | 8260B | Total/NA |
| 1-Methylnaphthalene | 13 | | 0.50 | 0.036 | mg/Kg | 1 | | 8270C | Total/NA |
| Fluorene | 0.10 | J | 0.50 | 0.066 | mg/Kg | 1 | | 8270C | Total/NA |
| Phenanthrene | 0.22 | J | 0.50 | 0.060 | mg/Kg | 1 | | 8270C | Total/NA |
| Pyrene | 0.075 | J | 0.50 | 0.074 | mg/Kg | 1 | | 8270C | Total/NA |
| 2-Methylnaphthalene - DL | 26 | | 2.5 | 0.28 | mg/Kg | 5 | | 8270C | Total/NA |
| Naphthalene - DL | 30 | | 2.5 | 0.29 | mg/Kg | 5 | | 8270C | Total/NA |
| GRO (C6-C12) | 8100 | | 150 | 85 | mg/Kg | 2000 | | 8015B | Total/NA |
| C13-C22 | 170 | | 4.9 | 3.8 | mg/Kg | 1 | | 8015B | Total/NA |

## Client Sample ID: G-17-C-10.0
## Lab Sample ID: 570-56782-65

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 80 | | 1.6 | 0.49 | mg/Kg | 1000 | | 8260B | Total/NA |
| 1,3,5-Trimethylbenzene | 25 | | 1.6 | 0.49 | mg/Kg | 1000 | | 8260B | Total/NA |
| Benzene | 2.0 | | 0.82 | 0.21 | mg/Kg | 1000 | | 8260B | Total/NA |
| Ethylbenzene | 50 | | 0.82 | 0.17 | mg/Kg | 1000 | | 8260B | Total/NA |
| Isopropylbenzene | 2.9 | | 0.82 | 0.49 | mg/Kg | 1000 | | 8260B | Total/NA |
| Naphthalene | 12 | | 8.2 | 4.3 | mg/Kg | 1000 | | 8260B | Total/NA |
| n-Butylbenzene | 5.4 | | 0.82 | 0.17 | mg/Kg | 1000 | | 8260B | Total/NA |
| N-Propylbenzene | 11 | | 1.6 | 0.49 | mg/Kg | 1000 | | 8260B | Total/NA |
| o-Xylene | 58 | | 0.82 | 0.49 | mg/Kg | 1000 | | 8260B | Total/NA |
| m,p-Xylene | 170 | | 1.6 | 0.39 | mg/Kg | 1000 | | 8260B | Total/NA |
| Toluene | 100 | | 0.82 | 0.49 | mg/Kg | 1000 | | 8260B | Total/NA |
| 1-Methylnaphthalene | 3.5 | | 0.50 | 0.036 | mg/Kg | 1 | | 8270C | Total/NA |
| 2-Methylnaphthalene | 7.1 | | 0.50 | 0.057 | mg/Kg | 1 | | 8270C | Total/NA |
| Naphthalene | 8.4 | | 0.50 | 0.057 | mg/Kg | 1 | | 8270C | Total/NA |
| GRO (C6-C12) | 2400 | | 160 | 92 | mg/Kg | 2000 | | 8015B | Total/NA |
| C13-C22 | 40 | | 4.9 | 3.7 | mg/Kg | 1 | | 8015B | Total/NA |
| Lead | 12 | | 4.8 | 0.93 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: G-17-C-15.0
## Lab Sample ID: 570-56782-66

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.0039 | | 0.0015 | 0.00044 | mg/Kg | 1 | | 8260B | Total/NA |
| 1,3,5-Trimethylbenzene | 0.0019 | | 0.0015 | 0.00044 | mg/Kg | 1 | | 8260B | Total/NA |
| Acetone | 0.0095 | J | 0.015 | 0.0072 | mg/Kg | 1 | | 8260B | Total/NA |
| Ethylbenzene | 0.0017 | | 0.00073 | 0.00015 | mg/Kg | 1 | | 8260B | Total/NA |
| n-Butylbenzene | 0.00063 | J | 0.00073 | 0.00015 | mg/Kg | 1 | | 8260B | Total/NA |
| N-Propylbenzene | 0.0010 | J | 0.0015 | 0.00044 | mg/Kg | 1 | | 8260B | Total/NA |
| o-Xylene | 0.00083 | | 0.00073 | 0.00044 | mg/Kg | 1 | | 8260B | Total/NA |
| m,p-Xylene | 0.0032 | | 0.0015 | 0.00035 | mg/Kg | 1 | | 8260B | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: G-17-C-15.0 (Continued) — Lab Sample ID: 570-56782-66

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | 0.0012 | | 0.00073 | 0.00044 | mg/Kg | 1 | | 8260B | Total/NA |
| GRO (C6-C12) | 0.75 | | 0.072 | 0.040 | mg/Kg | 1 | | 8015B | Total/NA |
| Lead | 2.7 | J | 5.1 | 0.99 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SW-3-C-10.0 — Lab Sample ID: 570-56782-67

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 240 | | 7.7 | 2.3 | mg/Kg | 5000 | | 8260B | Total/NA |
| 1,3,5-Trimethylbenzene | 77 | | 7.7 | 2.3 | mg/Kg | 5000 | | 8260B | Total/NA |
| Benzene | 40 | | 3.9 | 1.0 | mg/Kg | 5000 | | 8260B | Total/NA |
| Ethylbenzene | 190 | | 3.9 | 0.80 | mg/Kg | 5000 | | 8260B | Total/NA |
| Isopropylbenzene | 8.3 | | 3.9 | 2.3 | mg/Kg | 5000 | | 8260B | Total/NA |
| Naphthalene | 41 | | 39 | 20 | mg/Kg | 5000 | | 8260B | Total/NA |
| n-Butylbenzene | 22 | | 3.9 | 0.81 | mg/Kg | 5000 | | 8260B | Total/NA |
| N-Propylbenzene | 35 | | 7.7 | 2.3 | mg/Kg | 5000 | | 8260B | Total/NA |
| o-Xylene | 220 | | 3.9 | 2.3 | mg/Kg | 5000 | | 8260B | Total/NA |
| m,p-Xylene | 650 | | 7.7 | 1.8 | mg/Kg | 5000 | | 8260B | Total/NA |
| Toluene | 590 | | 3.9 | 2.3 | mg/Kg | 5000 | | 8260B | Total/NA |
| 1-Methylnaphthalene | 7.8 | | 0.50 | 0.036 | mg/Kg | 1 | | 8270C | Total/NA |
| Phenanthrene | 0.13 | J | 0.50 | 0.060 | mg/Kg | 1 | | 8270C | Total/NA |
| 2-Methylnaphthalene - DL | 18 | | 2.5 | 0.28 | mg/Kg | 5 | | 8270C | Total/NA |
| Naphthalene - DL | 35 | | 2.5 | 0.29 | mg/Kg | 5 | | 8270C | Total/NA |
| GRO (C6-C12) | 6500 | | 150 | 86 | mg/Kg | 2000 | | 8015B | Total/NA |
| C13-C22 | 130 | | 5.0 | 3.8 | mg/Kg | 1 | | 8015B | Total/NA |

## Client Sample ID: SW-3-C-15.0 — Lab Sample ID: 570-56782-68

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 14 | | 0.80 | 0.24 | mg/Kg | 500 | | 8260B | Total/NA |
| 1,3,5-Trimethylbenzene | 4.5 | | 0.80 | 0.24 | mg/Kg | 500 | | 8260B | Total/NA |
| Benzene | 2.8 | | 0.40 | 0.10 | mg/Kg | 500 | | 8260B | Total/NA |
| Ethylbenzene | 9.4 | | 0.40 | 0.083 | mg/Kg | 500 | | 8260B | Total/NA |
| Isopropylbenzene | 0.43 | | 0.40 | 0.24 | mg/Kg | 500 | | 8260B | Total/NA |
| Naphthalene | 2.6 | J | 4.0 | 2.1 | mg/Kg | 500 | | 8260B | Total/NA |
| n-Butylbenzene | 1.4 | | 0.40 | 0.084 | mg/Kg | 500 | | 8260B | Total/NA |
| N-Propylbenzene | 2.0 | | 0.80 | 0.24 | mg/Kg | 500 | | 8260B | Total/NA |
| o-Xylene | 6.4 | | 0.40 | 0.24 | mg/Kg | 500 | | 8260B | Total/NA |
| m,p-Xylene | 22 | | 0.80 | 0.19 | mg/Kg | 500 | | 8260B | Total/NA |
| Toluene | 4.8 | | 0.40 | 0.24 | mg/Kg | 500 | | 8260B | Total/NA |
| GRO (C6-C12) | 610 | | 20 | 11 | mg/Kg | 250 | | 8015B | Total/NA |

## Client Sample ID: SW-4/MW-14-C-10.0 — Lab Sample ID: 570-56782-69

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 270 | | 7.9 | 2.4 | mg/Kg | 5000 | | 8260B | Total/NA |
| 1,3,5-Trimethylbenzene | 83 | | 7.9 | 2.4 | mg/Kg | 5000 | | 8260B | Total/NA |
| Benzene | 19 | | 3.9 | 1.0 | mg/Kg | 5000 | | 8260B | Total/NA |
| Ethylbenzene | 240 | | 3.9 | 0.81 | mg/Kg | 5000 | | 8260B | Total/NA |
| Isopropylbenzene | 9.2 | | 3.9 | 2.4 | mg/Kg | 5000 | | 8260B | Total/NA |
| Naphthalene | 39 | | 39 | 20 | mg/Kg | 5000 | | 8260B | Total/NA |
| n-Butylbenzene | 20 | | 3.9 | 0.83 | mg/Kg | 5000 | | 8260B | Total/NA |
| N-Propylbenzene | 35 | | 7.9 | 2.4 | mg/Kg | 5000 | | 8260B | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: SW-4/MW-14-C-10.0 (Continued) — Lab Sample ID: 570-56782-69

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | 260 | | 3.9 | 2.4 | mg/Kg | 5000 | | 8260B | Total/NA |
| m,p-Xylene | 770 | | 7.9 | 1.9 | mg/Kg | 5000 | | 8260B | Total/NA |
| Toluene | 640 | | 3.9 | 2.4 | mg/Kg | 5000 | | 8260B | Total/NA |
| 1-Methylnaphthalene | 11 | | 0.50 | 0.036 | mg/Kg | 1 | | 8270C | Total/NA |
| 2-Methylnaphthalene | 26 | | 2.5 | 0.29 | mg/Kg | 5 | | 8270C | Total/NA |
| Fluorene | 0.098 | J | 0.50 | 0.067 | mg/Kg | 1 | | 8270C | Total/NA |
| Naphthalene | 36 | | 2.5 | 0.29 | mg/Kg | 5 | | 8270C | Total/NA |
| Phenanthrene | 0.21 | J | 0.50 | 0.061 | mg/Kg | 1 | | 8270C | Total/NA |
| GRO (C6-C12) | 13000 | | 160 | 87 | mg/Kg | 2000 | | 8015B | Total/NA |
| C13-C22 | 180 | | 5.0 | 3.9 | mg/Kg | 1 | | 8015B | Total/NA |

## Client Sample ID: SW-4/MW-14-C-15.0 — Lab Sample ID: 570-56782-70

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.027 | | 0.0014 | 0.00042 | mg/Kg | 1 | | 8260B | Total/NA |
| 1,2-Dichloroethane | 0.018 | | 0.00069 | 0.00019 | mg/Kg | 1 | | 8260B | Total/NA |
| 1,3,5-Trimethylbenzene | 0.0078 | | 0.0014 | 0.00042 | mg/Kg | 1 | | 8260B | Total/NA |
| 2-Butanone | 0.0040 | J | 0.014 | 0.0031 | mg/Kg | 1 | | 8260B | Total/NA |
| Acetone | 0.017 | | 0.014 | 0.0068 | mg/Kg | 1 | | 8260B | Total/NA |
| Benzene | 0.024 | | 0.00069 | 0.00018 | mg/Kg | 1 | | 8260B | Total/NA |
| Ethylbenzene | 0.012 | | 0.00069 | 0.00014 | mg/Kg | 1 | | 8260B | Total/NA |
| Isopropylbenzene | 0.00086 | | 0.00069 | 0.00042 | mg/Kg | 1 | | 8260B | Total/NA |
| Naphthalene | 0.0082 | | 0.0069 | 0.0036 | mg/Kg | 1 | | 8260B | Total/NA |
| n-Butylbenzene | 0.0025 | | 0.00069 | 0.00015 | mg/Kg | 1 | | 8260B | Total/NA |
| N-Propylbenzene | 0.0027 | | 0.0014 | 0.00042 | mg/Kg | 1 | | 8260B | Total/NA |
| o-Xylene | 0.016 | | 0.00069 | 0.00042 | mg/Kg | 1 | | 8260B | Total/NA |
| m,p-Xylene | 0.040 | | 0.0014 | 0.00033 | mg/Kg | 1 | | 8260B | Total/NA |
| Toluene | 0.018 | | 0.00069 | 0.00042 | mg/Kg | 1 | | 8260B | Total/NA |
| GRO (C6-C12) | 0.53 | | 0.073 | 0.040 | mg/Kg | 1 | | 8015B | Total/NA |

## Client Sample ID: SSD-29-2.0 — Lab Sample ID: 570-56782-71

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 810 | | 4.9 | 0.95 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-29-3.0 — Lab Sample ID: 570-56782-72

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1200 | | 5.1 | 0.98 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-29-3.5 — Lab Sample ID: 570-56782-73

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1700 | | 5.1 | 0.99 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-29-4.0 — Lab Sample ID: 570-56782-74

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 290 | | 5.1 | 0.98 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-20-1.0 — Lab Sample ID: 570-56782-75

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 2100 | | 5.1 | 0.98 | mg/Kg | 1 | | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-20-2.0 — Lab Sample ID: 570-56782-76

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 150 | | 5.2 | 1.0 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-20-3.0 — Lab Sample ID: 570-56782-77

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 53 | | 5.1 | 0.98 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-20-4.0 — Lab Sample ID: 570-56782-78

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 280 | | 5.1 | 0.99 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-22-3.5 — Lab Sample ID: 570-56782-79

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 170 | | 5.1 | 0.98 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-22-4.0 — Lab Sample ID: 570-56782-80

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.6 | J | 4.9 | 0.95 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-24-3.5 — Lab Sample ID: 570-56782-81

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 160 | | 5.0 | 0.96 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-24-4.0 — Lab Sample ID: 570-56782-82

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 13 | | 4.9 | 0.94 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-23-1.0 — Lab Sample ID: 570-56782-83

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 140 | | 5.0 | 0.96 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-23-2.0 — Lab Sample ID: 570-56782-84

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 550 | | 5.1 | 0.99 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-23-3.0 — Lab Sample ID: 570-56782-85

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 190 | | 5.0 | 0.96 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-23-4.0 — Lab Sample ID: 570-56782-86

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 13 | | 4.9 | 0.95 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-25-1.0 — Lab Sample ID: 570-56782-87

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 100 | | 4.9 | 0.95 | mg/Kg | 1 | | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-25-2.0 — Lab Sample ID: 570-56782-88

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 38 | | 4.8 | 0.93 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-25-3.0 — Lab Sample ID: 570-56782-89

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 23 | | 4.8 | 0.93 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-25-4.0 — Lab Sample ID: 570-56782-90

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 17 | | 4.8 | 0.93 | mg/Kg | 1 | | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: SB-3-10.0**
**Date Collected: 04/14/21 15:20**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-31**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00075 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00075 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0015 | 0.00041 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0075 | 0.00035 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00075 | 0.00035 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 1,1-Dichloroethane | ND | | 0.00075 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 1,1-Dichloroethene | ND | | 0.00075 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 1,1-Dichloropropene | ND | | 0.0015 | 0.00029 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0015 | 0.00075 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0015 | 0.00031 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0015 | 0.00031 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0015 | 0.00045 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0075 | 0.0051 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 1,2-Dibromoethane | ND | | 0.00075 | 0.00015 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 1,2-Dichloroethane | ND | | 0.00075 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 1,2-Dichloropropane | ND | | 0.00075 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0015 | 0.00045 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 1,3-Dichloropropane | ND | | 0.00075 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00075 | 0.00023 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 2,2-Dichloropropane | ND | | 0.0038 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 2-Butanone | ND | | 0.015 | 0.0034 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 2-Chlorotoluene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 2-Hexanone | ND | | 0.015 | 0.0023 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 4-Chlorotoluene | ND | | 0.00075 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.015 | 0.0022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| **Acetone** | **0.016** | | 0.015 | 0.0074 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Benzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Bromobenzene | ND | | 0.00075 | 0.00016 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Bromochloromethane | ND | | 0.0015 | 0.00033 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Bromodichloromethane | ND | | 0.00075 | 0.00012 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Bromoform | ND | | 0.0038 | 0.00099 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Bromomethane | ND | | 0.015 | 0.0049 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00075 | 0.00025 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00075 | 0.00026 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Carbon disulfide | ND | | 0.0075 | 0.00030 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Carbon tetrachloride | ND | | 0.00075 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Chlorobenzene | ND | | 0.00075 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Chloroethane | ND | | 0.0015 | 0.0011 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Chloroform | ND | | 0.00075 | 0.00044 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Chloromethane | ND | | 0.015 | 0.0012 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Dibromochloromethane | ND | | 0.0015 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Dibromomethane | ND | | 0.00075 | 0.00023 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Dichlorodifluoromethane | ND | | 0.0015 | 0.00034 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Ethylbenzene | ND | | 0.00075 | 0.00015 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Isopropylbenzene | ND | | 0.00075 | 0.00045 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Methylene Chloride | ND | | 0.0075 | 0.0023 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0015 | 0.00014 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-3-10.0**
**Date Collected: 04/14/21 15:20**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-31**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0075 | 0.0039 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| n-Butylbenzene | ND | | 0.00075 | 0.00016 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| N-Propylbenzene | ND | | 0.0015 | 0.00045 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| o-Xylene | ND | | 0.00075 | 0.00045 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| m,p-Xylene | ND | | 0.0015 | 0.00036 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| p-Isopropyltoluene | ND | | 0.00075 | 0.00053 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| sec-Butylbenzene | ND | | 0.00075 | 0.00045 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Styrene | ND | | 0.00075 | 0.00053 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00075 | 0.00023 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0015 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| tert-Butylbenzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Tetrachloroethene | ND | | 0.00075 | 0.00017 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Toluene | ND | | 0.00075 | 0.00045 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Trichloroethene | ND | | 0.0015 | 0.00029 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Trichlorofluoromethane | ND | | 0.0075 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Vinyl acetate | ND | *+ | 0.0075 | 0.0029 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |
| Vinyl chloride | ND | | 0.00075 | 0.00028 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *80 - 142* | *04/20/21 11:55* | *04/21/21 13:06* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 13:06* | *1* |
| *Dibromofluoromethane (Surr)* | *94* | | *80 - 123* | *04/20/21 11:55* | *04/21/21 13:06* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 13:06* | *1* |

**Client Sample ID: SB-3-15.0**
**Date Collected: 04/14/21 15:40**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-32**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00081 | 0.00024 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00081 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0016 | 0.00044 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0081 | 0.00038 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00081 | 0.00038 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 1,1-Dichloroethane | ND | | 0.00081 | 0.00023 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 1,1-Dichloroethene | ND | | 0.00081 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 1,1-Dichloropropene | ND | | 0.0016 | 0.00032 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0016 | 0.00081 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0016 | 0.00034 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0016 | 0.00033 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0016 | 0.00049 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0081 | 0.0055 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 1,2-Dibromoethane | ND | | 0.00081 | 0.00017 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00081 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 1,2-Dichloroethane | ND | | 0.00081 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 1,2-Dichloropropane | ND | | 0.00081 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0016 | 0.00049 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00081 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 1,3-Dichloropropane | ND | | 0.00081 | 0.00024 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00081 | 0.00025 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 2,2-Dichloropropane | ND | | 0.0041 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-3-15.0**
**Date Collected: 04/14/21 15:40**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-32**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | ND | | 0.016 | 0.0037 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 2-Chlorotoluene | ND | | 0.00081 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 2-Hexanone | ND | | 0.016 | 0.0025 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 4-Chlorotoluene | ND | | 0.00081 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.016 | 0.0024 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| **Acetone** | **0.035** | | 0.016 | 0.0080 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Benzene | ND | | 0.00081 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Bromobenzene | ND | | 0.00081 | 0.00017 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Bromochloromethane | ND | | 0.0016 | 0.00036 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Bromodichloromethane | ND | | 0.00081 | 0.00013 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Bromoform | ND | | 0.0041 | 0.0011 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Bromomethane | ND | | 0.016 | 0.0053 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00081 | 0.00027 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00081 | 0.00028 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Carbon disulfide | ND | | 0.0081 | 0.00033 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Carbon tetrachloride | ND | | 0.00081 | 0.00024 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Chlorobenzene | ND | | 0.00081 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Chloroethane | ND | | 0.0016 | 0.0012 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Chloroform | ND | | 0.00081 | 0.00048 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Chloromethane | ND | | 0.016 | 0.0012 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Dibromochloromethane | ND | | 0.0016 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Dibromomethane | ND | | 0.00081 | 0.00025 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Dichlorodifluoromethane | ND | | 0.0016 | 0.00037 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Ethylbenzene | ND | | 0.00081 | 0.00017 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Isopropylbenzene | ND | | 0.00081 | 0.00049 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Methylene Chloride | ND | | 0.0081 | 0.0025 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0016 | 0.00015 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Naphthalene | ND | | 0.0081 | 0.0042 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| n-Butylbenzene | ND | | 0.00081 | 0.00017 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| N-Propylbenzene | ND | | 0.0016 | 0.00049 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| o-Xylene | ND | | 0.00081 | 0.00049 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| m,p-Xylene | ND | | 0.0016 | 0.00039 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| p-Isopropyltoluene | ND | | 0.00081 | 0.00057 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| sec-Butylbenzene | ND | | 0.00081 | 0.00049 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Styrene | ND | | 0.00081 | 0.00057 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00081 | 0.00024 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0016 | 0.00023 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| tert-Butylbenzene | ND | | 0.00081 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Tetrachloroethene | ND | | 0.00081 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Toluene | ND | | 0.00081 | 0.00049 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Trichloroethene | ND | | 0.0016 | 0.00031 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Trichlorofluoromethane | ND | | 0.0081 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Vinyl acetate | ND | *+ | 0.0081 | 0.0032 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |
| Vinyl chloride | ND | | 0.00081 | 0.00031 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *109* | | *80 - 142* | *04/20/21 11:55* | *04/21/21 13:32* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 13:32* | *1* |
| *Dibromofluoromethane (Surr)* | *98* | | *80 - 123* | *04/20/21 11:55* | *04/21/21 13:32* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 13:32* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: SB-4-10.0**
**Date Collected: 04/14/21 15:45**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-33**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00075 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00075 | 0.00017 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0015 | 0.00041 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0075 | 0.00035 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00075 | 0.00035 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 1,1-Dichloroethane | ND | | 0.00075 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 1,1-Dichloroethene | ND | | 0.00075 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 1,1-Dichloropropene | ND | | 0.0015 | 0.00029 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0015 | 0.00075 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0015 | 0.00031 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0015 | 0.00031 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0015 | 0.00045 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0075 | 0.0051 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 1,2-Dibromoethane | ND | | 0.00075 | 0.00015 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 1,2-Dichloroethane | ND | | 0.00075 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 1,2-Dichloropropane | ND | | 0.00075 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0015 | 0.00045 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 1,3-Dichloropropane | ND | | 0.00075 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00075 | 0.00023 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 2,2-Dichloropropane | ND | | 0.0037 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 2-Butanone | ND | | 0.015 | 0.0034 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 2-Chlorotoluene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 2-Hexanone | ND | | 0.015 | 0.0023 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 4-Chlorotoluene | ND | | 0.00075 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.015 | 0.0022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| **Acetone** | **0.014** | **J** | 0.015 | 0.0074 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Benzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Bromobenzene | ND | | 0.00075 | 0.00016 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Bromochloromethane | ND | | 0.0015 | 0.00033 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Bromodichloromethane | ND | | 0.00075 | 0.00012 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Bromoform | ND | | 0.0037 | 0.00099 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Bromomethane | ND | | 0.015 | 0.0049 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00075 | 0.00025 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00075 | 0.00026 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Carbon disulfide | ND | | 0.0075 | 0.00030 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Carbon tetrachloride | ND | | 0.00075 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Chlorobenzene | ND | | 0.00075 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Chloroethane | ND | | 0.0015 | 0.0011 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Chloroform | ND | | 0.00075 | 0.00044 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Chloromethane | ND | | 0.015 | 0.0012 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Dibromochloromethane | ND | | 0.0015 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Dibromomethane | ND | | 0.00075 | 0.00023 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Dichlorodifluoromethane | ND | | 0.0015 | 0.00034 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Ethylbenzene | ND | | 0.00075 | 0.00015 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Isopropylbenzene | ND | | 0.00075 | 0.00045 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Methylene Chloride | ND | | 0.0075 | 0.0023 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0015 | 0.00014 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-4-10.0**
**Date Collected: 04/14/21 15:45**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-33**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0075 | 0.0039 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| n-Butylbenzene | ND | | 0.00075 | 0.00016 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| N-Propylbenzene | ND | | 0.0015 | 0.00045 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| o-Xylene | ND | | 0.00075 | 0.00045 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| m,p-Xylene | ND | | 0.0015 | 0.00035 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| p-Isopropyltoluene | ND | | 0.00075 | 0.00052 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| sec-Butylbenzene | ND | | 0.00075 | 0.00045 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Styrene | ND | | 0.00075 | 0.00052 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00075 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0015 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| tert-Butylbenzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Tetrachloroethene | ND | | 0.00075 | 0.00017 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Toluene | ND | | 0.00075 | 0.00045 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| **Trichloroethene** | **0.00030** | **J** | 0.0015 | 0.00029 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Trichlorofluoromethane | ND | | 0.0075 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Vinyl acetate | ND | *+ | 0.0075 | 0.0029 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |
| Vinyl chloride | ND | | 0.00075 | 0.00028 | mg/Kg | | 04/20/21 11:55 | 04/21/21 13:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *80 - 142* | *04/20/21 11:55* | *04/21/21 13:57* | *1* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 13:57* | *1* |
| *Dibromofluoromethane (Surr)* | *95* | | *80 - 123* | *04/20/21 11:55* | *04/21/21 13:57* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 13:57* | *1* |

**Client Sample ID: SB-4-15.0**
**Date Collected: 04/14/21 15:50**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-34**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00072 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00072 | 0.00017 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0014 | 0.00039 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0072 | 0.00033 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00072 | 0.00033 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 1,1-Dichloroethane | ND | | 0.00072 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 1,1-Dichloroethene | ND | | 0.00072 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 1,1-Dichloropropene | ND | | 0.0014 | 0.00028 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0014 | 0.00072 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0014 | 0.00030 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0014 | 0.00029 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0014 | 0.00043 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0072 | 0.0048 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 1,2-Dibromoethane | ND | | 0.00072 | 0.00015 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00072 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 1,2-Dichloroethane | ND | | 0.00072 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 1,2-Dichloropropane | ND | | 0.00072 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0014 | 0.00043 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00072 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 1,3-Dichloropropane | ND | | 0.00072 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00072 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 2,2-Dichloropropane | ND | | 0.0036 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-4-15.0**
**Date Collected: 04/14/21 15:50**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-34**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | ND | | 0.014 | 0.0032 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 2-Chlorotoluene | ND | | 0.00072 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 2-Hexanone | ND | | 0.014 | 0.0022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 4-Chlorotoluene | ND | | 0.00072 | 0.00017 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.014 | 0.0021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| **Acetone** | **0.018** | | 0.014 | 0.0070 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Benzene | ND | | 0.00072 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Bromobenzene | ND | | 0.00072 | 0.00015 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Bromochloromethane | ND | | 0.0014 | 0.00032 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Bromodichloromethane | ND | | 0.00072 | 0.00011 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Bromoform | ND | | 0.0036 | 0.00095 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Bromomethane | ND | | 0.014 | 0.0047 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00072 | 0.00024 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00072 | 0.00025 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Carbon disulfide | ND | | 0.0072 | 0.00029 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Carbon tetrachloride | ND | | 0.00072 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Chlorobenzene | ND | | 0.00072 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Chloroethane | ND | | 0.0014 | 0.0011 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Chloroform | ND | | 0.00072 | 0.00042 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Chloromethane | ND | | 0.014 | 0.0011 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Dibromochloromethane | ND | | 0.0014 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Dibromomethane | ND | | 0.00072 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Dichlorodifluoromethane | ND | | 0.0014 | 0.00032 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Ethylbenzene | ND | | 0.00072 | 0.00015 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Isopropylbenzene | ND | | 0.00072 | 0.00043 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Methylene Chloride | ND | | 0.0072 | 0.0022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0014 | 0.00013 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Naphthalene | ND | | 0.0072 | 0.0037 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| n-Butylbenzene | ND | | 0.00072 | 0.00015 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| N-Propylbenzene | ND | | 0.0014 | 0.00043 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| o-Xylene | ND | | 0.00072 | 0.00043 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| m,p-Xylene | ND | | 0.0014 | 0.00034 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| p-Isopropyltoluene | ND | | 0.00072 | 0.00050 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| sec-Butylbenzene | ND | | 0.00072 | 0.00043 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Styrene | ND | | 0.00072 | 0.00050 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00072 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0014 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| tert-Butylbenzene | ND | | 0.00072 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Tetrachloroethene | ND | | 0.00072 | 0.00016 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Toluene | ND | | 0.00072 | 0.00043 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Trichloroethene | ND | | 0.0014 | 0.00028 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Trichlorofluoromethane | ND | | 0.0072 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Vinyl acetate | ND | *+ | 0.0072 | 0.0028 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |
| Vinyl chloride | ND | | 0.00072 | 0.00027 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *80 - 142* | *04/20/21 11:55* | *04/21/21 14:23* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 14:23* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *80 - 123* | *04/20/21 11:55* | *04/21/21 14:23* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 14:23* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: G-15-C-10.0**
**Date Collected: 04/15/21 09:05**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-61**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 4.0 | 1.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 1,1,1-Trichloroethane | ND | | 4.0 | 0.94 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 1,1,2,2-Tetrachloroethane | ND | | 8.0 | 2.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 40 | 1.9 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 1,1,2-Trichloroethane | ND | | 4.0 | 1.9 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 1,1-Dichloroethane | ND | | 4.0 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 1,1-Dichloroethene | ND | | 4.0 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 1,1-Dichloropropene | ND | | 8.0 | 1.6 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 1,2,3-Trichlorobenzene | ND | | 8.0 | 4.0 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 1,2,3-Trichloropropane | ND | | 8.0 | 1.7 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 1,2,4-Trichlorobenzene | ND | | 8.0 | 1.7 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| **1,2,4-Trimethylbenzene** | **210** | | 8.0 | 2.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 1,2-Dibromo-3-Chloropropane | ND | | 40 | 27 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 1,2-Dibromoethane | ND | | 4.0 | 0.83 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 1,2-Dichlorobenzene | ND | | 4.0 | 1.0 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 1,2-Dichloroethane | ND | | 4.0 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 1,2-Dichloropropane | ND | | 4.0 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| **1,3,5-Trimethylbenzene** | **64** | | 8.0 | 2.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 1,3-Dichlorobenzene | ND | | 4.0 | 1.0 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 1,3-Dichloropropane | ND | | 4.0 | 1.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 1,4-Dichlorobenzene | ND | | 4.0 | 1.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 2,2-Dichloropropane | ND | | 20 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 2-Butanone | ND | | 80 | 18 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 2-Chlorotoluene | ND | | 4.0 | 1.0 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 2-Hexanone | ND | | 80 | 12 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 4-Chlorotoluene | ND | | 4.0 | 0.97 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| 4-Methyl-2-pentanone | ND | | 80 | 12 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Acetone | ND | | 80 | 40 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| **Benzene** | **6.9** | | 4.0 | 1.0 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Bromobenzene | ND | | 4.0 | 0.84 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Bromochloromethane | ND | | 8.0 | 1.8 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Bromodichloromethane | ND | | 4.0 | 0.64 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Bromoform | ND | | 20 | 5.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Bromomethane | ND | | 80 | 26 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| cis-1,2-Dichloroethene | ND | | 4.0 | 1.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| cis-1,3-Dichloropropene | ND | | 4.0 | 1.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Carbon disulfide | ND | | 40 | 1.6 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Carbon tetrachloride | ND | | 4.0 | 1.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Chlorobenzene | ND | | 4.0 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Chloroethane | ND | | 8.0 | 6.0 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Chloroform | ND | | 4.0 | 2.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Chloromethane | ND | | 80 | 6.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Dibromochloromethane | ND | | 8.0 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Dibromomethane | ND | | 4.0 | 1.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Dichlorodifluoromethane | ND | | 8.0 | 1.8 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| **Ethylbenzene** | **120** | | 4.0 | 0.83 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| **Isopropylbenzene** | **8.3** | | 4.0 | 2.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Methylene Chloride | ND | | 40 | 13 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 8.0 | 0.76 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: G-15-C-10.0**
**Date Collected: 04/15/21 09:05**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-61**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Naphthalene** | **33** | **J** | 40 | 21 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| **n-Butylbenzene** | **15** | | 4.0 | 0.85 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| **N-Propylbenzene** | **28** | | 8.0 | 2.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| **o-Xylene** | **150** | | 4.0 | 2.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| **m,p-Xylene** | **430** | | 8.0 | 1.9 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| p-Isopropyltoluene | ND | | 4.0 | 2.8 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| sec-Butylbenzene | ND | | 4.0 | 2.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Styrene | ND | | 4.0 | 2.8 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| trans-1,2-Dichloroethene | ND | | 4.0 | 1.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| trans-1,3-Dichloropropene | ND | | 8.0 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| tert-Butylbenzene | ND | | 4.0 | 1.0 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Tetrachloroethene | ND | | 4.0 | 0.90 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| **Toluene** | **280** | | 4.0 | 2.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Trichloroethene | ND | | 8.0 | 1.6 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Trichlorofluoromethane | ND | | 40 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Vinyl acetate | ND | *+ | 40 | 16 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |
| Vinyl chloride | ND | | 4.0 | 1.5 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:33 | 5000 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *80 - 142* | *04/20/21 11:55* | *04/21/21 16:33* | *5000* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 16:33* | *5000* |
| *Dibromofluoromethane (Surr)* | *95* | | *80 - 123* | *04/20/21 11:55* | *04/21/21 16:33* | *5000* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 16:33* | *5000* |

**Client Sample ID: G-15-C-15.0**
**Date Collected: 04/15/21 09:20**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-62**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00070 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00070 | 0.00016 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0014 | 0.00038 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0070 | 0.00033 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00070 | 0.00033 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 1,1-Dichloroethane | ND | | 0.00070 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 1,1-Dichloroethene | ND | | 0.00070 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 1,1-Dichloropropene | ND | | 0.0014 | 0.00027 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0014 | 0.00070 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0014 | 0.00029 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0014 | 0.00029 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| **1,2,4-Trimethylbenzene** | **0.00067** | **J** | 0.0014 | 0.00042 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0070 | 0.0048 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 1,2-Dibromoethane | ND | | 0.00070 | 0.00014 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00070 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 1,2-Dichloroethane | ND | | 0.00070 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 1,2-Dichloropropane | ND | | 0.00070 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0014 | 0.00042 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00070 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 1,3-Dichloropropane | ND | | 0.00070 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00070 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 2,2-Dichloropropane | ND | | 0.0035 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: G-15-C-15.0**
**Date Collected: 04/15/21 09:20**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-62**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | ND | | 0.014 | 0.0032 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 2-Chlorotoluene | ND | | 0.00070 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 2-Hexanone | ND | | 0.014 | 0.0022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 4-Chlorotoluene | ND | | 0.00070 | 0.00017 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.014 | 0.0020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| **Acetone** | **0.016** | | 0.014 | 0.0069 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| **Benzene** | **0.00018** | **J** | 0.00070 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Bromobenzene | ND | | 0.00070 | 0.00015 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Bromochloromethane | ND | | 0.0014 | 0.00031 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Bromodichloromethane | ND | | 0.00070 | 0.00011 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Bromoform | ND | | 0.0035 | 0.00093 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Bromomethane | ND | | 0.014 | 0.0046 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00070 | 0.00024 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00070 | 0.00025 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Carbon disulfide | ND | | 0.0070 | 0.00028 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Carbon tetrachloride | ND | | 0.00070 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Chlorobenzene | ND | | 0.00070 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Chloroethane | ND | | 0.0014 | 0.0011 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Chloroform | ND | | 0.00070 | 0.00041 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Chloromethane | ND | | 0.014 | 0.0011 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Dibromochloromethane | ND | | 0.0014 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Dibromomethane | ND | | 0.00070 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Dichlorodifluoromethane | ND | | 0.0014 | 0.00032 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| **Ethylbenzene** | **0.00094** | | 0.00070 | 0.00015 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Isopropylbenzene | ND | | 0.00070 | 0.00042 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Methylene Chloride | ND | | 0.0070 | 0.0022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0014 | 0.00013 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Naphthalene | ND | | 0.0070 | 0.0037 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| n-Butylbenzene | ND | | 0.00070 | 0.00015 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| N-Propylbenzene | ND | | 0.0014 | 0.00042 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| **o-Xylene** | **0.00055** | **J** | 0.00070 | 0.00042 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| **m,p-Xylene** | **0.0021** | | 0.0014 | 0.00033 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| p-Isopropyltoluene | ND | | 0.00070 | 0.00049 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| sec-Butylbenzene | ND | | 0.00070 | 0.00042 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Styrene | ND | | 0.00070 | 0.00049 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00070 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0014 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| tert-Butylbenzene | ND | | 0.00070 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Tetrachloroethene | ND | | 0.00070 | 0.00016 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| **Toluene** | **0.0014** | | 0.00070 | 0.00042 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Trichloroethene | ND | | 0.0014 | 0.00027 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Trichlorofluoromethane | ND | | 0.0070 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Vinyl acetate | ND | *+ | 0.0070 | 0.0028 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |
| Vinyl chloride | ND | | 0.00070 | 0.00027 | mg/Kg | | 04/20/21 11:55 | 04/21/21 14:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *80 - 142* | *04/20/21 11:55* | *04/21/21 14:49* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 14:49* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *80 - 123* | *04/20/21 11:55* | *04/21/21 14:49* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 14:49* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: G-16-C-10.0**
**Date Collected: 04/15/21 09:35**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-63**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 3.8 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 1,1,1-Trichloroethane | ND | | 3.8 | 0.89 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 1,1,2,2-Tetrachloroethane | ND | | 7.6 | 2.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 38 | 1.8 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 1,1,2-Trichloroethane | ND | | 3.8 | 1.8 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 1,1-Dichloroethane | ND | | 3.8 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 1,1-Dichloroethene | ND | | 3.8 | 1.0 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 1,1-Dichloropropene | ND | | 7.6 | 1.5 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 1,2,3-Trichlorobenzene | ND | | 7.6 | 3.8 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 1,2,3-Trichloropropane | ND | | 7.6 | 1.6 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 1,2,4-Trichlorobenzene | ND | | 7.6 | 1.6 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| **1,2,4-Trimethylbenzene** | **290** | | 7.6 | 2.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 1,2-Dibromo-3-Chloropropane | ND | | 38 | 26 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 1,2-Dibromoethane | ND | | 3.8 | 0.79 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 1,2-Dichlorobenzene | ND | | 3.8 | 0.96 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 1,2-Dichloroethane | ND | | 3.8 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 1,2-Dichloropropane | ND | | 3.8 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| **1,3,5-Trimethylbenzene** | **89** | | 7.6 | 2.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 1,3-Dichlorobenzene | ND | | 3.8 | 0.96 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 1,3-Dichloropropane | ND | | 3.8 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 1,4-Dichlorobenzene | ND | | 3.8 | 1.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 2,2-Dichloropropane | ND | | 19 | 1.0 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 2-Butanone | ND | | 76 | 17 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 2-Chlorotoluene | ND | | 3.8 | 0.96 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 2-Hexanone | ND | | 76 | 12 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 4-Chlorotoluene | ND | | 3.8 | 0.92 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| 4-Methyl-2-pentanone | ND | | 76 | 11 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Acetone | ND | | 76 | 38 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| **Benzene** | **45** | | 3.8 | 0.98 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Bromobenzene | ND | | 3.8 | 0.80 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Bromochloromethane | ND | | 7.6 | 1.7 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Bromodichloromethane | ND | | 3.8 | 0.61 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Bromoform | ND | | 19 | 5.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Bromomethane | ND | | 76 | 25 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| cis-1,2-Dichloroethene | ND | | 3.8 | 1.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| cis-1,3-Dichloropropene | ND | | 3.8 | 1.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Carbon disulfide | ND | | 38 | 1.5 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Carbon tetrachloride | ND | | 3.8 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Chlorobenzene | ND | | 3.8 | 1.0 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Chloroethane | ND | | 7.6 | 5.7 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Chloroform | ND | | 3.8 | 2.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Chloromethane | ND | | 76 | 5.9 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Dibromochloromethane | ND | | 7.6 | 1.0 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Dibromomethane | ND | | 3.8 | 1.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Dichlorodifluoromethane | ND | | 7.6 | 1.7 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| **Ethylbenzene** | **240** | | 3.8 | 0.79 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| **Isopropylbenzene** | **11** | | 3.8 | 2.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Methylene Chloride | ND | | 38 | 12 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 7.6 | 0.72 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: G-16-C-10.0**
**Date Collected: 04/15/21 09:35**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-63**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Naphthalene** | **43** | | 38 | 20 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| **n-Butylbenzene** | **19** | | 3.8 | 0.80 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| **N-Propylbenzene** | **39** | | 7.6 | 2.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| **o-Xylene** | **270** | | 3.8 | 2.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| **m,p-Xylene** | **780** | | 7.6 | 1.8 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| p-Isopropyltoluene | ND | | 3.8 | 2.7 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| sec-Butylbenzene | ND | | 3.8 | 2.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Styrene | ND | | 3.8 | 2.7 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| trans-1,2-Dichloroethene | ND | | 3.8 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| trans-1,3-Dichloropropene | ND | | 7.6 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| tert-Butylbenzene | ND | | 3.8 | 0.97 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Tetrachloroethene | ND | | 3.8 | 0.85 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Trichloroethene | ND | | 7.6 | 1.5 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Trichlorofluoromethane | ND | | 38 | 1.0 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Vinyl acetate | ND | *+ | 38 | 15 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |
| Vinyl chloride | ND | | 3.8 | 1.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 16:58 | 5000 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *80 - 142* | *04/20/21 11:55* | *04/21/21 16:58* | *5000* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 16:58* | *5000* |
| *Dibromofluoromethane (Surr)* | *98* | | *80 - 123* | *04/20/21 11:55* | *04/21/21 16:58* | *5000* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 16:58* | *5000* |

**Client Sample ID: G-17-C-10.0**
**Date Collected: 04/15/21 10:15**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-65**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.82 | 0.24 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 1,1,1-Trichloroethane | ND | | 0.82 | 0.19 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.6 | 0.45 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 8.2 | 0.38 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 1,1,2-Trichloroethane | ND | | 0.82 | 0.38 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 1,1-Dichloroethane | ND | | 0.82 | 0.23 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 1,1-Dichloroethene | ND | | 0.82 | 0.22 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 1,1-Dichloropropene | ND | | 1.6 | 0.32 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 1,2,3-Trichlorobenzene | ND | | 1.6 | 0.82 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 1,2,3-Trichloropropane | ND | | 1.6 | 0.35 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 1,2,4-Trichlorobenzene | ND | | 1.6 | 0.34 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| **1,2,4-Trimethylbenzene** | **80** | | 1.6 | 0.49 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 1,2-Dibromo-3-Chloropropane | ND | | 8.2 | 5.6 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 1,2-Dibromoethane | ND | | 0.82 | 0.17 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 1,2-Dichlorobenzene | ND | | 0.82 | 0.21 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 1,2-Dichloroethane | ND | | 0.82 | 0.23 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 1,2-Dichloropropane | ND | | 0.82 | 0.23 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| **1,3,5-Trimethylbenzene** | **25** | | 1.6 | 0.49 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 1,3-Dichlorobenzene | ND | | 0.82 | 0.21 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 1,3-Dichloropropane | ND | | 0.82 | 0.24 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 1,4-Dichlorobenzene | ND | | 0.82 | 0.25 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 2,2-Dichloropropane | ND | | 4.1 | 0.22 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 2-Butanone | ND | | 16 | 3.7 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: G-17-C-10.0**
**Date Collected: 04/15/21 10:15**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-65**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | ND | | 0.82 | 0.21 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 2-Hexanone | ND | | 16 | 2.5 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 4-Chlorotoluene | ND | | 0.82 | 0.20 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| 4-Methyl-2-pentanone | ND | | 16 | 2.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Acetone | ND | | 16 | 8.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| **Benzene** | **2.0** | | 0.82 | 0.21 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Bromobenzene | ND | | 0.82 | 0.17 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Bromochloromethane | ND | | 1.6 | 0.37 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Bromodichloromethane | ND | | 0.82 | 0.13 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Bromoform | ND | | 4.1 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Bromomethane | ND | | 16 | 5.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| cis-1,2-Dichloroethene | ND | | 0.82 | 0.28 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| cis-1,3-Dichloropropene | ND | | 0.82 | 0.29 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Carbon disulfide | ND | | 8.2 | 0.33 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Carbon tetrachloride | ND | | 0.82 | 0.25 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Chlorobenzene | ND | | 0.82 | 0.22 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Chloroethane | ND | | 1.6 | 1.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Chloroform | ND | | 0.82 | 0.49 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Chloromethane | ND | | 16 | 1.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Dibromochloromethane | ND | | 1.6 | 0.22 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Dibromomethane | ND | | 0.82 | 0.25 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Dichlorodifluoromethane | ND | | 1.6 | 0.37 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| **Ethylbenzene** | **50** | | 0.82 | 0.17 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| **Isopropylbenzene** | **2.9** | | 0.82 | 0.49 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Methylene Chloride | ND | | 8.2 | 2.6 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 1.6 | 0.15 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| **Naphthalene** | **12** | | 8.2 | 4.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| **n-Butylbenzene** | **5.4** | | 0.82 | 0.17 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| **N-Propylbenzene** | **11** | | 1.6 | 0.49 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| **o-Xylene** | **58** | | 0.82 | 0.49 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| **m,p-Xylene** | **170** | | 1.6 | 0.39 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| p-Isopropyltoluene | ND | | 0.82 | 0.58 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| sec-Butylbenzene | ND | | 0.82 | 0.49 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Styrene | ND | | 0.82 | 0.58 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| trans-1,2-Dichloroethene | ND | | 0.82 | 0.25 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| trans-1,3-Dichloropropene | ND | | 1.6 | 0.23 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| tert-Butylbenzene | ND | | 0.82 | 0.21 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Tetrachloroethene | ND | | 0.82 | 0.18 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| **Toluene** | **100** | | 0.82 | 0.49 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Trichloroethene | ND | | 1.6 | 0.32 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Trichlorofluoromethane | ND | | 8.2 | 0.22 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Vinyl acetate | ND | *+ | 8.2 | 3.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |
| Vinyl chloride | ND | | 0.82 | 0.31 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:24 | 1000 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *80 - 142* | *04/20/21 11:55* | *04/21/21 17:24* | *1000* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 17:24* | *1000* |
| *Dibromofluoromethane (Surr)* | *97* | | *80 - 123* | *04/20/21 11:55* | *04/21/21 17:24* | *1000* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 17:24* | *1000* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: G-17-C-15.0**
**Date Collected: 04/15/21 10:25**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-66**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00073 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00073 | 0.00017 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0015 | 0.00040 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0073 | 0.00034 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00073 | 0.00034 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 1,1-Dichloroethane | ND | | 0.00073 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 1,1-Dichloroethene | ND | | 0.00073 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 1,1-Dichloropropene | ND | | 0.0015 | 0.00028 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0015 | 0.00073 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0015 | 0.00031 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0015 | 0.00030 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| **1,2,4-Trimethylbenzene** | **0.0039** | | 0.0015 | 0.00044 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0073 | 0.0049 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 1,2-Dibromoethane | ND | | 0.00073 | 0.00015 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00073 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 1,2-Dichloroethane | ND | | 0.00073 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 1,2-Dichloropropane | ND | | 0.00073 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| **1,3,5-Trimethylbenzene** | **0.0019** | | 0.0015 | 0.00044 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00073 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 1,3-Dichloropropane | ND | | 0.00073 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00073 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 2,2-Dichloropropane | ND | | 0.0037 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 2-Butanone | ND | | 0.015 | 0.0033 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 2-Chlorotoluene | ND | | 0.00073 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 2-Hexanone | ND | | 0.015 | 0.0022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 4-Chlorotoluene | ND | | 0.00073 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.015 | 0.0021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| **Acetone** | **0.0095** | **J** | 0.015 | 0.0072 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Benzene | ND | | 0.00073 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Bromobenzene | ND | | 0.00073 | 0.00015 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Bromochloromethane | ND | | 0.0015 | 0.00033 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Bromodichloromethane | ND | | 0.00073 | 0.00012 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Bromoform | ND | | 0.0037 | 0.00097 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Bromomethane | ND | | 0.015 | 0.0048 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00073 | 0.00025 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00073 | 0.00025 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Carbon disulfide | ND | | 0.0073 | 0.00029 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Carbon tetrachloride | ND | | 0.00073 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Chlorobenzene | ND | | 0.00073 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Chloroethane | ND | | 0.0015 | 0.0011 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Chloroform | ND | | 0.00073 | 0.00043 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Chloromethane | ND | | 0.015 | 0.0011 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Dibromochloromethane | ND | | 0.0015 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Dibromomethane | ND | | 0.00073 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Dichlorodifluoromethane | ND | | 0.0015 | 0.00033 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| **Ethylbenzene** | **0.0017** | | 0.00073 | 0.00015 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Isopropylbenzene | ND | | 0.00073 | 0.00044 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Methylene Chloride | ND | | 0.0073 | 0.0023 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0015 | 0.00014 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: G-17-C-15.0**
**Date Collected: 04/15/21 10:25**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-66**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0073 | 0.0038 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| **n-Butylbenzene** | **0.00063** | **J** | 0.00073 | 0.00015 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| **N-Propylbenzene** | **0.0010** | **J** | 0.0015 | 0.00044 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| **o-Xylene** | **0.00083** | | 0.00073 | 0.00044 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| **m,p-Xylene** | **0.0032** | | 0.0015 | 0.00035 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| p-Isopropyltoluene | ND | | 0.00073 | 0.00051 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| sec-Butylbenzene | ND | | 0.00073 | 0.00044 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Styrene | ND | | 0.00073 | 0.00051 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00073 | 0.00022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0015 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| tert-Butylbenzene | ND | | 0.00073 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Tetrachloroethene | ND | | 0.00073 | 0.00016 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| **Toluene** | **0.0012** | | 0.00073 | 0.00044 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Trichloroethene | ND | | 0.0015 | 0.00028 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Trichlorofluoromethane | ND | | 0.0073 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Vinyl acetate | ND | *+ | 0.0073 | 0.0029 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |
| Vinyl chloride | ND | | 0.00073 | 0.00028 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *80 - 142* | *04/20/21 11:55* | *04/21/21 15:15* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 15:15* | *1* |
| *Dibromofluoromethane (Surr)* | *98* | | *80 - 123* | *04/20/21 11:55* | *04/21/21 15:15* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 15:15* | *1* |

**Client Sample ID: SW-3-C-10.0**
**Date Collected: 04/15/21 11:15**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-67**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 3.9 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 1,1,1-Trichloroethane | ND | | 3.9 | 0.90 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 1,1,2,2-Tetrachloroethane | ND | | 7.7 | 2.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 39 | 1.8 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 1,1,2-Trichloroethane | ND | | 3.9 | 1.8 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 1,1-Dichloroethane | ND | | 3.9 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 1,1-Dichloroethene | ND | | 3.9 | 1.0 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 1,1-Dichloropropene | ND | | 7.7 | 1.5 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 1,2,3-Trichlorobenzene | ND | | 7.7 | 3.9 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 1,2,3-Trichloropropane | ND | | 7.7 | 1.6 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 1,2,4-Trichlorobenzene | ND | | 7.7 | 1.6 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| **1,2,4-Trimethylbenzene** | **240** | | 7.7 | 2.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 1,2-Dibromo-3-Chloropropane | ND | | 39 | 26 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 1,2-Dibromoethane | ND | | 3.9 | 0.80 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 1,2-Dichlorobenzene | ND | | 3.9 | 0.97 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 1,2-Dichloroethane | ND | | 3.9 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 1,2-Dichloropropane | ND | | 3.9 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| **1,3,5-Trimethylbenzene** | **77** | | 7.7 | 2.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 1,3-Dichlorobenzene | ND | | 3.9 | 0.98 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 1,3-Dichloropropane | ND | | 3.9 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 1,4-Dichlorobenzene | ND | | 3.9 | 1.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 2,2-Dichloropropane | ND | | 19 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SW-3-C-10.0**
**Date Collected: 04/15/21 11:15**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-67**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | ND | | 77 | 17 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 2-Chlorotoluene | ND | | 3.9 | 0.98 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 2-Hexanone | ND | | 77 | 12 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 4-Chlorotoluene | ND | | 3.9 | 0.94 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| 4-Methyl-2-pentanone | ND | | 77 | 11 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Acetone | ND | | 77 | 38 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| **Benzene** | **40** | | 3.9 | 1.0 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Bromobenzene | ND | | 3.9 | 0.81 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Bromochloromethane | ND | | 7.7 | 1.7 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Bromodichloromethane | ND | | 3.9 | 0.62 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Bromoform | ND | | 19 | 5.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Bromomethane | ND | | 77 | 25 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| cis-1,2-Dichloroethene | ND | | 3.9 | 1.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| cis-1,3-Dichloropropene | ND | | 3.9 | 1.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Carbon disulfide | ND | | 39 | 1.5 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Carbon tetrachloride | ND | | 3.9 | 1.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Chlorobenzene | ND | | 3.9 | 1.0 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Chloroethane | ND | | 7.7 | 5.8 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Chloroform | ND | | 3.9 | 2.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Chloromethane | ND | | 77 | 6.0 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Dibromochloromethane | ND | | 7.7 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Dibromomethane | ND | | 3.9 | 1.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Dichlorodifluoromethane | ND | | 7.7 | 1.8 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| **Ethylbenzene** | **190** | | 3.9 | 0.80 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| **Isopropylbenzene** | **8.3** | | 3.9 | 2.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Methylene Chloride | ND | | 39 | 12 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 7.7 | 0.73 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| **Naphthalene** | **41** | | 39 | 20 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| **n-Butylbenzene** | **22** | | 3.9 | 0.81 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| **N-Propylbenzene** | **35** | | 7.7 | 2.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| **o-Xylene** | **220** | | 3.9 | 2.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| **m,p-Xylene** | **650** | | 7.7 | 1.8 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| p-Isopropyltoluene | ND | | 3.9 | 2.7 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| sec-Butylbenzene | ND | | 3.9 | 2.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Styrene | ND | | 3.9 | 2.7 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| trans-1,2-Dichloroethene | ND | | 3.9 | 1.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| trans-1,3-Dichloropropene | ND | | 7.7 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| tert-Butylbenzene | ND | | 3.9 | 0.99 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Tetrachloroethene | ND | | 3.9 | 0.86 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| **Toluene** | **590** | | 3.9 | 2.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Trichloroethene | ND | | 7.7 | 1.5 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Trichlorofluoromethane | ND | | 39 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Vinyl acetate | ND | *+ | 39 | 15 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |
| Vinyl chloride | ND | | 3.9 | 1.5 | mg/Kg | | 04/20/21 11:55 | 04/21/21 17:49 | 5000 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *80 - 142* | *04/20/21 11:55* | *04/21/21 17:49* | *5000* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 17:49* | *5000* |
| *Dibromofluoromethane (Surr)* | *97* | | *80 - 123* | *04/20/21 11:55* | *04/21/21 17:49* | *5000* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 17:49* | *5000* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: SW-3-C-15.0**
**Date Collected: 04/15/21 11:25**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-68**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.40 | 0.12 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 1,1,1-Trichloroethane | ND | | 0.40 | 0.094 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.80 | 0.22 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 4.0 | 0.19 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 1,1,2-Trichloroethane | ND | | 0.40 | 0.19 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 1,1-Dichloroethane | ND | | 0.40 | 0.11 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 1,1-Dichloroethene | ND | | 0.40 | 0.11 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 1,1-Dichloropropene | ND | | 0.80 | 0.16 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 1,2,3-Trichlorobenzene | ND | | 0.80 | 0.40 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 1,2,3-Trichloropropane | ND | | 0.80 | 0.17 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 1,2,4-Trichlorobenzene | ND | | 0.80 | 0.16 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| **1,2,4-Trimethylbenzene** | **14** | | 0.80 | 0.24 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 1,2-Dibromo-3-Chloropropane | ND | | 4.0 | 2.7 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 1,2-Dibromoethane | ND | | 0.40 | 0.083 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 1,2-Dichlorobenzene | ND | | 0.40 | 0.10 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 1,2-Dichloroethane | ND | | 0.40 | 0.11 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 1,2-Dichloropropane | ND | | 0.40 | 0.11 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| **1,3,5-Trimethylbenzene** | **4.5** | | 0.80 | 0.24 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 1,3-Dichlorobenzene | ND | | 0.40 | 0.10 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 1,3-Dichloropropane | ND | | 0.40 | 0.12 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 1,4-Dichlorobenzene | ND | | 0.40 | 0.12 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 2,2-Dichloropropane | ND | | 2.0 | 0.11 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 2-Butanone | ND | | 8.0 | 1.8 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 2-Chlorotoluene | ND | | 0.40 | 0.10 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 2-Hexanone | ND | | 8.0 | 1.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 4-Chlorotoluene | ND | | 0.40 | 0.097 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| 4-Methyl-2-pentanone | ND | | 8.0 | 1.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Acetone | ND | | 8.0 | 3.9 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| **Benzene** | **2.8** | | 0.40 | 0.10 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Bromobenzene | ND | | 0.40 | 0.084 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Bromochloromethane | ND | | 0.80 | 0.18 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Bromodichloromethane | ND | | 0.40 | 0.064 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Bromoform | ND | | 2.0 | 0.53 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Bromomethane | ND | | 8.0 | 2.6 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| cis-1,2-Dichloroethene | ND | | 0.40 | 0.14 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| cis-1,3-Dichloropropene | ND | | 0.40 | 0.14 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Carbon disulfide | ND | | 4.0 | 0.16 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Carbon tetrachloride | ND | | 0.40 | 0.12 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Chlorobenzene | ND | | 0.40 | 0.11 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Chloroethane | ND | | 0.80 | 0.60 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Chloroform | ND | | 0.40 | 0.24 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Chloromethane | ND | | 8.0 | 0.62 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Dibromochloromethane | ND | | 0.80 | 0.11 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Dibromomethane | ND | | 0.40 | 0.12 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Dichlorodifluoromethane | ND | | 0.80 | 0.18 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| **Ethylbenzene** | **9.4** | | 0.40 | 0.083 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| **Isopropylbenzene** | **0.43** | | 0.40 | 0.24 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Methylene Chloride | ND | | 4.0 | 1.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.80 | 0.075 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SW-3-C-15.0**
**Date Collected: 04/15/21 11:25**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-68**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Naphthalene** | **2.6** | **J** | 4.0 | 2.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| **n-Butylbenzene** | **1.4** | | 0.40 | 0.084 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| **N-Propylbenzene** | **2.0** | | 0.80 | 0.24 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| **o-Xylene** | **6.4** | | 0.40 | 0.24 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| **m,p-Xylene** | **22** | | 0.80 | 0.19 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| p-Isopropyltoluene | ND | | 0.40 | 0.28 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| sec-Butylbenzene | ND | | 0.40 | 0.24 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Styrene | ND | | 0.40 | 0.28 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| trans-1,2-Dichloroethene | ND | | 0.40 | 0.12 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| trans-1,3-Dichloropropene | ND | | 0.80 | 0.11 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| tert-Butylbenzene | ND | | 0.40 | 0.10 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Tetrachloroethene | ND | | 0.40 | 0.090 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| **Toluene** | **4.8** | | 0.40 | 0.24 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Trichloroethene | ND | | 0.80 | 0.15 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Trichlorofluoromethane | ND | | 4.0 | 0.11 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Vinyl acetate | ND | *+ | 4.0 | 1.6 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |
| Vinyl chloride | ND | | 0.40 | 0.15 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:16 | 500 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *80 - 142* | *04/20/21 11:55* | *04/21/21 18:16* | *500* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 18:16* | *500* |
| *Dibromofluoromethane (Surr)* | *99* | | *80 - 123* | *04/20/21 11:55* | *04/21/21 18:16* | *500* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 18:16* | *500* |

**Client Sample ID: SW-4/MW-14-C-10.0**
**Date Collected: 04/15/21 12:40**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-69**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 3.9 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 1,1,1-Trichloroethane | ND | | 3.9 | 0.92 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 1,1,2,2-Tetrachloroethane | ND | | 7.9 | 2.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 39 | 1.8 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 1,1,2-Trichloroethane | ND | | 3.9 | 1.8 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 1,1-Dichloroethane | ND | | 3.9 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 1,1-Dichloroethene | ND | | 3.9 | 1.0 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 1,1-Dichloropropene | ND | | 7.9 | 1.5 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 1,2,3-Trichlorobenzene | ND | | 7.9 | 3.9 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 1,2,3-Trichloropropane | ND | | 7.9 | 1.6 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 1,2,4-Trichlorobenzene | ND | | 7.9 | 1.6 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| **1,2,4-Trimethylbenzene** | **270** | | 7.9 | 2.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 1,2-Dibromo-3-Chloropropane | ND | | 39 | 27 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 1,2-Dibromoethane | ND | | 3.9 | 0.81 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 1,2-Dichlorobenzene | ND | | 3.9 | 0.98 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 1,2-Dichloroethane | ND | | 3.9 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 1,2-Dichloropropane | ND | | 3.9 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| **1,3,5-Trimethylbenzene** | **83** | | 7.9 | 2.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 1,3-Dichlorobenzene | ND | | 3.9 | 0.99 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 1,3-Dichloropropane | ND | | 3.9 | 1.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 1,4-Dichlorobenzene | ND | | 3.9 | 1.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 2,2-Dichloropropane | ND | | 20 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SW-4/MW-14-C-10.0**
**Date Collected: 04/15/21 12:40**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-69**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | ND | | 79 | 18 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 2-Chlorotoluene | ND | | 3.9 | 0.99 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 2-Hexanone | ND | | 79 | 12 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 4-Chlorotoluene | ND | | 3.9 | 0.95 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| 4-Methyl-2-pentanone | ND | | 79 | 11 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Acetone | ND | | 79 | 39 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| **Benzene** | **19** | | 3.9 | 1.0 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Bromobenzene | ND | | 3.9 | 0.82 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Bromochloromethane | ND | | 7.9 | 1.7 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Bromodichloromethane | ND | | 3.9 | 0.63 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Bromoform | ND | | 20 | 5.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Bromomethane | ND | | 79 | 26 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| cis-1,2-Dichloroethene | ND | | 3.9 | 1.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| cis-1,3-Dichloropropene | ND | | 3.9 | 1.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Carbon disulfide | ND | | 39 | 1.6 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Carbon tetrachloride | ND | | 3.9 | 1.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Chlorobenzene | ND | | 3.9 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Chloroethane | ND | | 7.9 | 5.9 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Chloroform | ND | | 3.9 | 2.3 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Chloromethane | ND | | 79 | 6.0 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Dibromochloromethane | ND | | 7.9 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Dibromomethane | ND | | 3.9 | 1.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Dichlorodifluoromethane | ND | | 7.9 | 1.8 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| **Ethylbenzene** | **240** | | 3.9 | 0.81 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| **Isopropylbenzene** | **9.2** | | 3.9 | 2.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Methylene Chloride | ND | | 39 | 12 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 7.9 | 0.74 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| **Naphthalene** | **39** | | 39 | 20 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| **n-Butylbenzene** | **20** | | 3.9 | 0.83 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| **N-Propylbenzene** | **35** | | 7.9 | 2.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| **o-Xylene** | **260** | | 3.9 | 2.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| **m,p-Xylene** | **770** | | 7.9 | 1.9 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| p-Isopropyltoluene | ND | | 3.9 | 2.7 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| sec-Butylbenzene | ND | | 3.9 | 2.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Styrene | ND | | 3.9 | 2.7 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| trans-1,2-Dichloroethene | ND | | 3.9 | 1.2 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| trans-1,3-Dichloropropene | ND | | 7.9 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| tert-Butylbenzene | ND | | 3.9 | 1.0 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Tetrachloroethene | ND | | 3.9 | 0.88 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| **Toluene** | **640** | | 3.9 | 2.4 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Trichloroethene | ND | | 7.9 | 1.5 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Trichlorofluoromethane | ND | | 39 | 1.1 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Vinyl acetate | ND | *+ | 39 | 15 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |
| Vinyl chloride | ND | | 3.9 | 1.5 | mg/Kg | | 04/20/21 11:55 | 04/21/21 18:41 | 5000 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *80 - 142* | *04/20/21 11:55* | *04/21/21 18:41* | *5000* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 18:41* | *5000* |
| *Dibromofluoromethane (Surr)* | *97* | | *80 - 123* | *04/20/21 11:55* | *04/21/21 18:41* | *5000* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 18:41* | *5000* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: SW-4/MW-14-C-15.0**
**Lab Sample ID: 570-56782-70**
**Date Collected: 04/15/21 12:50**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00069 | 0.00020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00069 | 0.00016 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0014 | 0.00038 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0069 | 0.00032 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00069 | 0.00032 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 1,1-Dichloroethane | ND | | 0.00069 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 1,1-Dichloroethene | ND | | 0.00069 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 1,1-Dichloropropene | ND | | 0.0014 | 0.00027 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0014 | 0.00069 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0014 | 0.00029 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0014 | 0.00029 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| **1,2,4-Trimethylbenzene** | **0.027** | | 0.0014 | 0.00042 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0069 | 0.0047 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 1,2-Dibromoethane | ND | | 0.00069 | 0.00014 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00069 | 0.00017 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| **1,2-Dichloroethane** | **0.018** | | 0.00069 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 1,2-Dichloropropane | ND | | 0.00069 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| **1,3,5-Trimethylbenzene** | **0.0078** | | 0.0014 | 0.00042 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00069 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 1,3-Dichloropropane | ND | | 0.00069 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00069 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 2,2-Dichloropropane | ND | | 0.0035 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| **2-Butanone** | **0.0040** | **J** | 0.014 | 0.0031 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 2-Chlorotoluene | ND | | 0.00069 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 2-Hexanone | ND | | 0.014 | 0.0021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 4-Chlorotoluene | ND | | 0.00069 | 0.00017 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.014 | 0.0020 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| **Acetone** | **0.017** | | 0.014 | 0.0068 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| **Benzene** | **0.024** | | 0.00069 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Bromobenzene | ND | | 0.00069 | 0.00014 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Bromochloromethane | ND | | 0.0014 | 0.00031 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Bromodichloromethane | ND | | 0.00069 | 0.00011 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Bromoform | ND | | 0.0035 | 0.00092 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Bromomethane | ND | | 0.014 | 0.0046 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00069 | 0.00023 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00069 | 0.00024 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Carbon disulfide | ND | | 0.0069 | 0.00028 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Carbon tetrachloride | ND | | 0.00069 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Chlorobenzene | ND | | 0.00069 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Chloroethane | ND | | 0.0014 | 0.0010 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Chloroform | ND | | 0.00069 | 0.00041 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Chloromethane | ND | | 0.014 | 0.0011 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Dibromochloromethane | ND | | 0.0014 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Dibromomethane | ND | | 0.00069 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Dichlorodifluoromethane | ND | | 0.0014 | 0.00032 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| **Ethylbenzene** | **0.012** | | 0.00069 | 0.00014 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| **Isopropylbenzene** | **0.00086** | | 0.00069 | 0.00042 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Methylene Chloride | ND | | 0.0069 | 0.0022 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0014 | 0.00013 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SW-4/MW-14-C-15.0**
**Lab Sample ID: 570-56782-70**
**Date Collected: 04/15/21 12:50**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Naphthalene** | **0.0082** | | 0.0069 | 0.0036 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| **n-Butylbenzene** | **0.0025** | | 0.00069 | 0.00015 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| **N-Propylbenzene** | **0.0027** | | 0.0014 | 0.00042 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| **o-Xylene** | **0.016** | | 0.00069 | 0.00042 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| **m,p-Xylene** | **0.040** | | 0.0014 | 0.00033 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| p-Isopropyltoluene | ND | | 0.00069 | 0.00049 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| sec-Butylbenzene | ND | | 0.00069 | 0.00042 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Styrene | ND | | 0.00069 | 0.00049 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00069 | 0.00021 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0014 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| tert-Butylbenzene | ND | | 0.00069 | 0.00018 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Tetrachloroethene | ND | | 0.00069 | 0.00016 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| **Toluene** | **0.018** | | 0.00069 | 0.00042 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Trichloroethene | ND | | 0.0014 | 0.00027 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Trichlorofluoromethane | ND | | 0.0069 | 0.00019 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Vinyl acetate | ND | *+ | 0.0069 | 0.0027 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |
| Vinyl chloride | ND | | 0.00069 | 0.00026 | mg/Kg | | 04/20/21 11:55 | 04/21/21 15:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *80 - 142* | *04/20/21 11:55* | *04/21/21 15:41* | *1* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 15:41* | *1* |
| *Dibromofluoromethane (Surr)* | *98* | | *80 - 123* | *04/20/21 11:55* | *04/21/21 15:41* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | *04/20/21 11:55* | *04/21/21 15:41* | *1* |

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

**Client Sample ID: G-16-C-10.0**
**Date Collected: 04/15/21 09:35**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-63**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Toluene** | **890** | | 7.6 | 4.6 | mg/Kg | | 04/20/21 11:55 | 04/22/21 14:16 | 10000 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *80 - 142* | *04/20/21 11:55* | *04/22/21 14:16* | *10000* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *80 - 120* | *04/20/21 11:55* | *04/22/21 14:16* | *10000* |
| *Dibromofluoromethane (Surr)* | *97* | | *80 - 123* | *04/20/21 11:55* | *04/22/21 14:16* | *10000* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | *04/20/21 11:55* | *04/22/21 14:16* | *10000* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Client Sample ID: SB-3-10.0**
**Date Collected: 04/14/21 15:20**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-31**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/20/21 10:32 | 04/21/21 15:50 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 15:50 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/20/21 10:32 | 04/21/21 15:50 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/20/21 10:32 | 04/21/21 15:50 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/20/21 10:32 | 04/21/21 15:50 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.045 | mg/Kg | | 04/20/21 10:32 | 04/21/21 15:50 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/20/21 10:32 | 04/21/21 15:50 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/20/21 10:32 | 04/21/21 15:50 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/20/21 10:32 | 04/21/21 15:50 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/21/21 15:50 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/20/21 10:32 | 04/21/21 15:50 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/20/21 10:32 | 04/21/21 15:50 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:32 | 04/21/21 15:50 | 1 |
| Fluorene | ND | | 0.50 | 0.066 | mg/Kg | | 04/20/21 10:32 | 04/21/21 15:50 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/20/21 10:32 | 04/21/21 15:50 | 1 |
| Naphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 15:50 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/20/21 10:32 | 04/21/21 15:50 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/20/21 10:32 | 04/21/21 15:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *72* | | *10 - 134* | *04/20/21 10:32* | *04/21/21 15:50* | *1* |
| *2-Fluorobiphenyl (Surr)* | *75* | | *14 - 142* | *04/20/21 10:32* | *04/21/21 15:50* | *1* |
| *2-Fluorophenol (Surr)* | *68* | | *10 - 123* | *04/20/21 10:32* | *04/21/21 15:50* | *1* |
| *Nitrobenzene-d5 (Surr)* | *69* | | *10 - 129* | *04/20/21 10:32* | *04/21/21 15:50* | *1* |
| *Phenol-d6 (Surr)* | *64* | | *10 - 120* | *04/20/21 10:32* | *04/21/21 15:50* | *1* |
| *p-Terphenyl-d14 (Surr)* | *78* | | *31 - 139* | *04/20/21 10:32* | *04/21/21 15:50* | *1* |

**Client Sample ID: SB-4-10.0**
**Date Collected: 04/14/21 15:45**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-33**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| Acenaphthene | ND | | 0.50 | 0.053 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.038 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.045 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| Fluorene | ND | | 0.50 | 0.066 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| Naphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| Phenanthrene | ND | | 0.50 | 0.060 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| Pyrene | ND | | 0.50 | 0.074 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:09 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 75 | | 10 - 134 | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| 2-Fluorobiphenyl (Surr) | 77 | | 14 - 142 | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| 2-Fluorophenol (Surr) | 70 | | 10 - 123 | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| Nitrobenzene-d5 (Surr) | 71 | | 10 - 129 | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| Phenol-d6 (Surr) | 66 | | 10 - 120 | 04/20/21 10:32 | 04/21/21 16:09 | 1 |
| p-Terphenyl-d14 (Surr) | 81 | | 31 - 139 | 04/20/21 10:32 | 04/21/21 16:09 | 1 |

**Client Sample ID: G-15-C-10.0**
**Date Collected: 04/15/21 09:05**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-61**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | 4.8 | | 0.50 | 0.036 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| 2-Methylnaphthalene | 9.5 | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| Acenaphthene | ND | | 0.50 | 0.053 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.038 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.045 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| Fluorene | ND | | 0.50 | 0.066 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| Naphthalene | 10 | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| Phenanthrene | 0.091 | J | 0.50 | 0.060 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| Pyrene | ND | | 0.50 | 0.074 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:28 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 78 | | 10 - 134 | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| 2-Fluorobiphenyl (Surr) | 75 | | 14 - 142 | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| 2-Fluorophenol (Surr) | 51 | | 10 - 123 | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| Nitrobenzene-d5 (Surr) | 67 | | 10 - 129 | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| Phenol-d6 (Surr) | 64 | | 10 - 120 | 04/20/21 10:32 | 04/21/21 16:28 | 1 |
| p-Terphenyl-d14 (Surr) | 78 | | 31 - 139 | 04/20/21 10:32 | 04/21/21 16:28 | 1 |

**Client Sample ID: G-16-C-10.0**
**Date Collected: 04/15/21 09:35**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-63**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | 13 | | 0.50 | 0.036 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:47 | 1 |
| Acenaphthene | ND | | 0.50 | 0.053 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:47 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:47 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:47 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.045 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:47 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:47 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:47 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:47 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:47 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:47 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:47 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: G-16-C-10.0**
**Date Collected: 04/15/21 09:35**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-63**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:47 | 1 |
| **Fluorene** | **0.10** | **J** | 0.50 | 0.066 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:47 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:47 | 1 |
| **Phenanthrene** | **0.22** | **J** | 0.50 | 0.060 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:47 | 1 |
| **Pyrene** | **0.075** | **J** | 0.50 | 0.074 | mg/Kg | | 04/20/21 10:32 | 04/21/21 16:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *81* | | *10 - 134* | *04/20/21 10:32* | *04/21/21 16:47* | *1* |
| *2-Fluorobiphenyl (Surr)* | *74* | | *14 - 142* | *04/20/21 10:32* | *04/21/21 16:47* | *1* |
| *2-Fluorophenol (Surr)* | *25* | | *10 - 123* | *04/20/21 10:32* | *04/21/21 16:47* | *1* |
| *Nitrobenzene-d5 (Surr)* | *67* | | *10 - 129* | *04/20/21 10:32* | *04/21/21 16:47* | *1* |
| *Phenol-d6 (Surr)* | *61* | | *10 - 120* | *04/20/21 10:32* | *04/21/21 16:47* | *1* |
| *p-Terphenyl-d14 (Surr)* | *78* | | *31 - 139* | *04/20/21 10:32* | *04/21/21 16:47* | *1* |

**Client Sample ID: G-17-C-10.0**
**Date Collected: 04/15/21 10:15**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-65**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1-Methylnaphthalene** | **3.5** | | 0.50 | 0.036 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:06 | 1 |
| **2-Methylnaphthalene** | **7.1** | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:06 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:06 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:06 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:06 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.045 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:06 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:06 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:06 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:06 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:06 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:06 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:06 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:06 | 1 |
| Fluorene | ND | | 0.50 | 0.066 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:06 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:06 | 1 |
| **Naphthalene** | **8.4** | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:06 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:06 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *83* | | *10 - 134* | *04/20/21 10:32* | *04/21/21 17:06* | *1* |
| *2-Fluorobiphenyl (Surr)* | *79* | | *14 - 142* | *04/20/21 10:32* | *04/21/21 17:06* | *1* |
| *2-Fluorophenol (Surr)* | *55* | | *10 - 123* | *04/20/21 10:32* | *04/21/21 17:06* | *1* |
| *Nitrobenzene-d5 (Surr)* | *70* | | *10 - 129* | *04/20/21 10:32* | *04/21/21 17:06* | *1* |
| *Phenol-d6 (Surr)* | *64* | | *10 - 120* | *04/20/21 10:32* | *04/21/21 17:06* | *1* |
| *p-Terphenyl-d14 (Surr)* | *79* | | *31 - 139* | *04/20/21 10:32* | *04/21/21 17:06* | *1* |

**Client Sample ID: SW-3-C-10.0**
**Date Collected: 04/15/21 11:15**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-67**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1-Methylnaphthalene** | **7.8** | | 0.50 | 0.036 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:25 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SW-3-C-10.0**
**Date Collected: 04/15/21 11:15**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-67**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:25 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:25 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:25 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.045 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:25 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:25 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:25 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:25 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:25 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:25 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:25 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:25 | 1 |
| Fluorene | ND | | 0.50 | 0.066 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:25 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:25 | 1 |
| **Phenanthrene** | **0.13** | **J** | 0.50 | 0.060 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:25 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *78* | | *10 - 134* | *04/20/21 10:32* | *04/21/21 17:25* | *1* |
| *2-Fluorobiphenyl (Surr)* | *72* | | *14 - 142* | *04/20/21 10:32* | *04/21/21 17:25* | *1* |
| *2-Fluorophenol (Surr)* | *22* | | *10 - 123* | *04/20/21 10:32* | *04/21/21 17:25* | *1* |
| *Nitrobenzene-d5 (Surr)* | *61* | | *10 - 129* | *04/20/21 10:32* | *04/21/21 17:25* | *1* |
| *Phenol-d6 (Surr)* | *57* | | *10 - 120* | *04/20/21 10:32* | *04/21/21 17:25* | *1* |
| *p-Terphenyl-d14 (Surr)* | *73* | | *31 - 139* | *04/20/21 10:32* | *04/21/21 17:25* | *1* |

**Client Sample ID: SW-4/MW-14-C-10.0**
**Date Collected: 04/15/21 12:40**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-69**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1-Methylnaphthalene** | **11** | | 0.50 | 0.036 | mg/Kg | | 04/20/21 10:32 | 04/22/21 19:12 | 1 |
| **2-Methylnaphthalene** | **26** | | 2.5 | 0.29 | mg/Kg | | 04/20/21 10:32 | 04/22/21 19:30 | 5 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/20/21 10:32 | 04/22/21 19:12 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/20/21 10:32 | 04/22/21 19:12 | 1 |
| Anthracene | ND | | 0.50 | 0.051 | mg/Kg | | 04/20/21 10:32 | 04/22/21 19:12 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/22/21 19:12 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/20/21 10:32 | 04/22/21 19:12 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.080 | mg/Kg | | 04/20/21 10:32 | 04/22/21 19:12 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/20/21 10:32 | 04/22/21 19:12 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/22/21 19:12 | 1 |
| Chrysene | ND | | 0.50 | 0.068 | mg/Kg | | 04/20/21 10:32 | 04/22/21 19:12 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/20/21 10:32 | 04/22/21 19:12 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:32 | 04/22/21 19:12 | 1 |
| **Fluorene** | **0.098** | **J** | 0.50 | 0.067 | mg/Kg | | 04/20/21 10:32 | 04/22/21 19:12 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/20/21 10:32 | 04/22/21 19:12 | 1 |
| **Naphthalene** | **36** | | 2.5 | 0.29 | mg/Kg | | 04/20/21 10:32 | 04/22/21 19:30 | 5 |
| **Phenanthrene** | **0.21** | **J** | 0.50 | 0.061 | mg/Kg | | 04/20/21 10:32 | 04/22/21 19:12 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/20/21 10:32 | 04/22/21 19:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *90* | | *10 - 134* | *04/20/21 10:32* | *04/22/21 19:12* | *1* |
| *2,4,6-Tribromophenol (Surr)* | *77* | | *10 - 134* | *04/20/21 10:32* | *04/22/21 19:30* | *5* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SW-4/MW-14-C-10.0**
**Date Collected: 04/15/21 12:40**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-69**
**Matrix: Solid**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl (Surr) | 79 | | 14 - 142 | 04/20/21 10:32 | 04/22/21 19:12 | 1 |
| 2-Fluorobiphenyl (Surr) | 75 | | 14 - 142 | 04/20/21 10:32 | 04/22/21 19:30 | 5 |
| 2-Fluorophenol (Surr) | 116 | | 10 - 123 | 04/20/21 10:32 | 04/22/21 19:12 | 1 |
| 2-Fluorophenol (Surr) | 91 | | 10 - 123 | 04/20/21 10:32 | 04/22/21 19:30 | 5 |
| Nitrobenzene-d5 (Surr) | 69 | | 10 - 129 | 04/20/21 10:32 | 04/22/21 19:12 | 1 |
| Nitrobenzene-d5 (Surr) | 74 | | 10 - 129 | 04/20/21 10:32 | 04/22/21 19:30 | 5 |
| Phenol-d6 (Surr) | 62 | | 10 - 120 | 04/20/21 10:32 | 04/22/21 19:12 | 1 |
| Phenol-d6 (Surr) | 66 | | 10 - 120 | 04/20/21 10:32 | 04/22/21 19:30 | 5 |
| p-Terphenyl-d14 (Surr) | 76 | | 31 - 139 | 04/20/21 10:32 | 04/22/21 19:12 | 1 |
| p-Terphenyl-d14 (Surr) | 87 | | 31 - 139 | 04/20/21 10:32 | 04/22/21 19:30 | 5 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) - DL

**Client Sample ID: G-16-C-10.0**
**Date Collected: 04/15/21 09:35**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-63**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Methylnaphthalene | 26 | | 2.5 | 0.28 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:34 | 5 |
| Naphthalene | 30 | | 2.5 | 0.29 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:34 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *73* | | *10 - 134* | *04/20/21 10:32* | *04/21/21 20:34* | *5* |
| *2-Fluorobiphenyl (Surr)* | *79* | | *14 - 142* | *04/20/21 10:32* | *04/21/21 20:34* | *5* |
| *2-Fluorophenol (Surr)* | *53* | | *10 - 123* | *04/20/21 10:32* | *04/21/21 20:34* | *5* |
| *Nitrobenzene-d5 (Surr)* | *70* | | *10 - 129* | *04/20/21 10:32* | *04/21/21 20:34* | *5* |
| *Phenol-d6 (Surr)* | *63* | | *10 - 120* | *04/20/21 10:32* | *04/21/21 20:34* | *5* |
| *p-Terphenyl-d14 (Surr)* | *75* | | *31 - 139* | *04/20/21 10:32* | *04/21/21 20:34* | *5* |

**Client Sample ID: SW-3-C-10.0**
**Date Collected: 04/15/21 11:15**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-67**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Methylnaphthalene | 18 | | 2.5 | 0.28 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:53 | 5 |
| Naphthalene | 35 | | 2.5 | 0.29 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:53 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *67* | | *10 - 134* | *04/20/21 10:32* | *04/21/21 20:53* | *5* |
| *2-Fluorobiphenyl (Surr)* | *72* | | *14 - 142* | *04/20/21 10:32* | *04/21/21 20:53* | *5* |
| *2-Fluorophenol (Surr)* | *48* | | *10 - 123* | *04/20/21 10:32* | *04/21/21 20:53* | *5* |
| *Nitrobenzene-d5 (Surr)* | *62* | | *10 - 129* | *04/20/21 10:32* | *04/21/21 20:53* | *5* |
| *Phenol-d6 (Surr)* | *61* | | *10 - 120* | *04/20/21 10:32* | *04/21/21 20:53* | *5* |
| *p-Terphenyl-d14 (Surr)* | *77* | | *31 - 139* | *04/20/21 10:32* | *04/21/21 20:53* | *5* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Client Sample ID: SB-3-10.0**
**Date Collected: 04/14/21 15:20**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-31**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.082 | 0.046 | mg/Kg | | 04/20/21 11:55 | 04/22/21 18:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *42 - 126* | *04/20/21 11:55* | *04/22/21 18:17* | *1* |

**Client Sample ID: SB-3-15.0**
**Date Collected: 04/14/21 15:40**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-32**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.080 | 0.044 | mg/Kg | | 04/20/21 11:55 | 04/22/21 18:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *42 - 126* | *04/20/21 11:55* | *04/22/21 18:41* | *1* |

**Client Sample ID: SB-4-10.0**
**Date Collected: 04/14/21 15:45**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-33**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.073 | 0.041 | mg/Kg | | 04/20/21 11:55 | 04/22/21 17:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *108* | | *42 - 126* | *04/20/21 11:55* | *04/22/21 17:29* | *1* |

**Client Sample ID: SB-4-15.0**
**Date Collected: 04/14/21 15:50**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-34**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.068 | 0.038 | mg/Kg | | 04/20/21 11:55 | 04/22/21 17:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *105* | | *42 - 126* | *04/20/21 11:55* | *04/22/21 17:53* | *1* |

**Client Sample ID: G-15-C-10.0**
**Date Collected: 04/15/21 09:05**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-61**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **GRO (C6-C12)** | **4700** | | 160 | 89 | mg/Kg | | 04/20/21 11:55 | 04/22/21 07:44 | 2000 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *42 - 126* | *04/20/21 11:55* | *04/22/21 07:44* | *2000* |

**Client Sample ID: G-15-C-15.0**
**Date Collected: 04/15/21 09:20**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-62**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **GRO (C6-C12)** | **0.046** | **J** | 0.071 | 0.039 | mg/Kg | | 04/20/21 11:55 | 04/23/21 17:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *83* | | *42 - 126* | *04/20/21 11:55* | *04/23/21 17:51* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Client Sample ID: G-16-C-10.0**
**Date Collected: 04/15/21 09:35**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-63**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | 8100 | | 150 | 85 | mg/Kg | | 04/20/21 11:55 | 04/22/21 08:08 | 2000 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *107* | | *42 - 126* | *04/20/21 11:55* | *04/22/21 08:08* | *2000* |

**Client Sample ID: G-17-C-10.0**
**Date Collected: 04/15/21 10:15**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-65**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | 2400 | | 160 | 92 | mg/Kg | | 04/20/21 11:55 | 04/22/21 08:32 | 2000 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *91* | | *42 - 126* | *04/20/21 11:55* | *04/22/21 08:32* | *2000* |

**Client Sample ID: G-17-C-15.0**
**Date Collected: 04/15/21 10:25**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-66**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | 0.75 | | 0.072 | 0.040 | mg/Kg | | 04/20/21 11:55 | 04/22/21 19:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *101* | | *42 - 126* | *04/20/21 11:55* | *04/22/21 19:29* | *1* |

**Client Sample ID: SW-3-C-10.0**
**Date Collected: 04/15/21 11:15**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-67**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | 6500 | | 150 | 86 | mg/Kg | | 04/20/21 11:55 | 04/22/21 08:57 | 2000 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *42 - 126* | *04/20/21 11:55* | *04/22/21 08:57* | *2000* |

**Client Sample ID: SW-3-C-15.0**
**Date Collected: 04/15/21 11:25**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-68**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | 610 | | 20 | 11 | mg/Kg | | 04/20/21 11:55 | 04/22/21 11:01 | 250 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *104* | | *42 - 126* | *04/20/21 11:55* | *04/22/21 11:01* | *250* |

**Client Sample ID: SW-4/MW-14-C-10.0**
**Date Collected: 04/15/21 12:40**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-69**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | 13000 | | 160 | 87 | mg/Kg | | 04/20/21 11:55 | 04/22/21 09:44 | 2000 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *118* | | *42 - 126* | *04/20/21 11:55* | *04/22/21 09:44* | *2000* |

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145 Oakland Center Street

Job ID: 570-56782-1

## Method: 8015B - Gasoline Range Organics - (GC)

**Client Sample ID: SW-4/MW-14-C-15.0**
**Date Collected: 04/15/21 12:50**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-70**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | 0.53 | | 0.073 | 0.040 | mg/Kg | | 04/20/21 11:55 | 04/22/21 19:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *42 - 126* | *04/20/21 11:55* | *04/22/21 19:05* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Client Sample ID: SB-3-10.0**
**Date Collected: 04/14/21 15:20**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-31**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 4.9 | 3.7 | mg/Kg | | 04/21/21 14:37 | 04/23/21 02:44 | 1 |
| C23-C40 | ND | | 4.9 | 3.7 | mg/Kg | | 04/21/21 14:37 | 04/23/21 02:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *124* | | *60 - 138* | *04/21/21 14:37* | *04/23/21 02:44* | *1* |

**Client Sample ID: SB-4-10.0**
**Date Collected: 04/14/21 15:45**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-33**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 5.0 | 3.8 | mg/Kg | | 04/21/21 14:37 | 04/23/21 03:12 | 1 |
| C23-C40 | ND | | 5.0 | 3.8 | mg/Kg | | 04/21/21 14:37 | 04/23/21 03:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *112* | | *60 - 138* | *04/21/21 14:37* | *04/23/21 03:12* | *1* |

**Client Sample ID: G-15-C-10.0**
**Date Collected: 04/15/21 09:05**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-61**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C13-C22** | **80** | | 5.0 | 3.9 | mg/Kg | | 04/21/21 14:37 | 04/23/21 03:38 | 1 |
| C23-C40 | ND | | 5.0 | 3.9 | mg/Kg | | 04/21/21 14:37 | 04/23/21 03:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *116* | | *60 - 138* | *04/21/21 14:37* | *04/23/21 03:38* | *1* |

**Client Sample ID: G-16-C-10.0**
**Date Collected: 04/15/21 09:35**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-63**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C13-C22** | **170** | | 4.9 | 3.8 | mg/Kg | | 04/21/21 14:37 | 04/23/21 04:04 | 1 |
| C23-C40 | ND | | 4.9 | 3.8 | mg/Kg | | 04/21/21 14:37 | 04/23/21 04:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *114* | | *60 - 138* | *04/21/21 14:37* | *04/23/21 04:04* | *1* |

**Client Sample ID: G-17-C-10.0**
**Date Collected: 04/15/21 10:15**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-65**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C13-C22** | **40** | | 4.9 | 3.7 | mg/Kg | | 04/21/21 14:37 | 04/23/21 04:31 | 1 |
| C23-C40 | ND | | 4.9 | 3.7 | mg/Kg | | 04/21/21 14:37 | 04/23/21 04:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *126* | | *60 - 138* | *04/21/21 14:37* | *04/23/21 04:31* | *1* |

**Client Sample ID: G-17-C-15.0**
**Date Collected: 04/15/21 10:25**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-66**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 4.9 | 3.8 | mg/Kg | | 04/21/21 14:37 | 04/23/21 04:57 | 1 |
| C23-C40 | ND | | 4.9 | 3.8 | mg/Kg | | 04/21/21 14:37 | 04/23/21 04:57 | 1 |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *117* | | *60 - 138* | *04/21/21 14:37* | *04/23/21 04:57* | *1* |

**Client Sample ID: SW-3-C-10.0**
**Date Collected: 04/15/21 11:15**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-67**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C13-C22** | **130** | | 5.0 | 3.8 | mg/Kg | | 04/21/21 14:37 | 04/23/21 05:24 | 1 |
| C23-C40 | ND | | 5.0 | 3.8 | mg/Kg | | 04/21/21 14:37 | 04/23/21 05:24 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *121* | | *60 - 138* | *04/21/21 14:37* | *04/23/21 05:24* | *1* |

**Client Sample ID: SW-4/MW-14-C-10.0**
**Date Collected: 04/15/21 12:40**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-69**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C13-C22** | **180** | | 5.0 | 3.9 | mg/Kg | | 04/21/21 14:37 | 04/23/21 05:50 | 1 |
| C23-C40 | ND | | 5.0 | 3.9 | mg/Kg | | 04/21/21 14:37 | 04/23/21 05:50 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *119* | | *60 - 138* | *04/21/21 14:37* | *04/23/21 05:50* | *1* |

## Method: 8081A - Organochlorine Pesticides (GC)

**Client Sample ID: SSD-19-0.0**
**Date Collected: 04/14/21 10:50**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.98 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.53 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |
| **4,4'-DDT** | **2.1** | **J** | 5.0 | 0.36 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |
| Endosulfan I | ND | | 5.0 | 0.44 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |
| Endrin ketone | ND | | 5.0 | 0.47 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.26 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |
| Heptachlor | ND | | 5.0 | 0.88 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.66 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *79* | | *38 - 148* | *04/20/21 10:34* | *04/23/21 09:06* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *89* | | *37 - 151* | *04/20/21 10:34* | *04/23/21 09:06* | *1* |

**Client Sample ID: SSD-6-0.0**
**Date Collected: 04/15/21 08:16**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-39**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **4,4'-DDD** | **4.1** | **J p** | 5.0 | 0.98 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:20 | 1 |
| **4,4'-DDE** | **20** | | 5.0 | 0.54 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:20 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:20 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:20 | 1 |
| **alpha-Chlordane** | **1.3** | **J p** | 5.0 | 1.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:20 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:20 | 1 |
| **Chlordane** | **10** | **J p** | 25 | 2.4 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:20 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:20 | 1 |
| **Dieldrin** | **6.6** | | 5.0 | 0.25 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:20 | 1 |
| Endosulfan I | ND | | 5.0 | 0.44 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:20 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:20 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:20 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:20 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:20 | 1 |
| Endrin ketone | ND | | 5.0 | 0.47 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:20 | 1 |
| **gamma-Chlordane** | **2.2** | **J** | 5.0 | 0.26 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:20 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:20 | 1 |
| Heptachlor | ND | | 5.0 | 0.88 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:20 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.67 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:20 | 1 |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Client Sample ID: SSD-6-0.0**
**Date Collected: 04/15/21 08:16**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-39**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:20 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/20/21 10:34 | 04/23/21 09:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *73* | | *38 - 148* | *04/20/21 10:34* | *04/23/21 09:20* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *102* | | *37 - 151* | *04/20/21 10:34* | *04/23/21 09:20* | *1* |

**Client Sample ID: SSD-6-1.0**
**Date Collected: 04/15/21 08:18**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-40**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.98 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.54 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |
| 4,4'-DDT | ND | | 5.0 | 0.36 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |
| Endosulfan I | ND | | 5.0 | 0.44 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |
| Endrin ketone | ND | | 5.0 | 0.47 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.26 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |
| Heptachlor | ND | | 5.0 | 0.88 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.67 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *88* | | *38 - 148* | *04/20/21 10:34* | *04/23/21 05:33* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *87* | | *37 - 151* | *04/20/21 10:34* | *04/23/21 05:33* | *1* |

**Client Sample ID: SSD-6-2.0**
**Date Collected: 04/15/21 08:20**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-41**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.98 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.53 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |
| **4,4'-DDT** | **1.3** | **J** | 5.0 | 0.36 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Client Sample ID: SSD-6-2.0**
**Date Collected: 04/15/21 08:20**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-41**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |
| Endosulfan I | ND | | 5.0 | 0.43 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |
| Endrin ketone | ND | | 5.0 | 0.47 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.26 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |
| Heptachlor | ND | | 5.0 | 0.88 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.66 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *88* | | *38 - 148* | *04/20/21 10:34* | *04/23/21 07:40* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *88* | | *37 - 151* | *04/20/21 10:34* | *04/23/21 07:40* | *1* |

**Client Sample ID: SSD-6-3.0**
**Date Collected: 04/15/21 08:22**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-42**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.98 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.53 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |
| **4,4'-DDT** | **0.42** | **J** | 5.0 | 0.36 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |
| Endosulfan I | ND | | 5.0 | 0.43 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |
| Endrin ketone | ND | | 5.0 | 0.47 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.26 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |
| Heptachlor | ND | | 5.0 | 0.88 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.66 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *89* | | *38 - 148* | *04/20/21 10:34* | *04/23/21 05:47* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *89* | | *37 - 151* | *04/20/21 10:34* | *04/23/21 05:47* | *1* |

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Method: 8081A - Organochlorine Pesticides (GC) - DL

**Client Sample ID: SSD-6-0.0**
**Date Collected: 04/15/21 08:16**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-39**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **4,4'-DDT** | **43** | | 25 | 1.8 | ug/Kg | | 04/20/21 10:34 | 04/23/21 13:07 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *78* | | *38 - 148* | *04/20/21 10:34* | *04/23/21 13:07* | *5* |
| *DCB Decachlorobiphenyl (Surr)* | *127* | | *37 - 151* | *04/20/21 10:34* | *04/23/21 13:07* | *5* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Client Sample ID: SSD-19-0.0**
**Date Collected: 04/14/21 10:50**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:37 | 1 |
| Aroclor-1221 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:37 | 1 |
| Aroclor-1232 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:37 | 1 |
| Aroclor-1242 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:37 | 1 |
| Aroclor-1248 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:37 | 1 |
| Aroclor-1254 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:37 | 1 |
| **Aroclor-1260** | **27** | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:37 | 1 |
| Aroclor-1262 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:37 | 1 |
| Aroclor-1268 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *64* | | *25 - 126* | *04/21/21 15:57* | *04/22/21 19:37* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *96* | | *20 - 155* | *04/21/21 15:57* | *04/22/21 19:37* | *1* |

**Client Sample ID: SSD-6-0.0**
**Date Collected: 04/15/21 08:16**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-39**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 9.9 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 15:45 | 1 |
| Aroclor-1221 | ND | | 9.9 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 15:45 | 1 |
| Aroclor-1232 | ND | | 9.9 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 15:45 | 1 |
| Aroclor-1242 | ND | | 9.9 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 15:45 | 1 |
| Aroclor-1248 | ND | | 9.9 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 15:45 | 1 |
| Aroclor-1254 | ND | | 9.9 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 15:45 | 1 |
| Aroclor-1260 | ND | | 9.9 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 15:45 | 1 |
| Aroclor-1262 | ND | | 9.9 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 15:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *66* | | *25 - 126* | *04/21/21 15:57* | *04/22/21 15:45* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *292* | *S1+* | *20 - 155* | *04/21/21 15:57* | *04/22/21 15:45* | *1* |

**Client Sample ID: SSD-6-1.0**
**Date Collected: 04/15/21 08:18**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-40**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:02 | 1 |
| Aroclor-1221 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:02 | 1 |
| Aroclor-1232 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:02 | 1 |
| Aroclor-1242 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:02 | 1 |
| Aroclor-1248 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:02 | 1 |
| Aroclor-1254 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:02 | 1 |
| Aroclor-1260 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:02 | 1 |
| Aroclor-1262 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:02 | 1 |
| **Aroclor-1268** | **29** | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *62* | | *25 - 126* | *04/21/21 15:57* | *04/22/21 16:02* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *100* | | *20 - 155* | *04/21/21 15:57* | *04/22/21 16:02* | *1* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Client Sample ID: SSD-6-2.0**
**Date Collected: 04/15/21 08:20**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-41**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:20 | 1 |
| Aroclor-1221 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:20 | 1 |
| Aroclor-1232 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:20 | 1 |
| Aroclor-1242 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:20 | 1 |
| Aroclor-1248 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:20 | 1 |
| Aroclor-1254 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:20 | 1 |
| Aroclor-1260 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:20 | 1 |
| Aroclor-1262 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:20 | 1 |
| **Aroclor-1268** | **12** | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *79* | | *25 - 126* | *04/21/21 15:57* | *04/22/21 16:20* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *97* | | *20 - 155* | *04/21/21 15:57* | *04/22/21 16:20* | *1* |

**Client Sample ID: SSD-6-3.0**
**Date Collected: 04/15/21 08:22**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-42**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 14:33 | 1 |
| Aroclor-1221 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 14:33 | 1 |
| Aroclor-1232 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 14:33 | 1 |
| Aroclor-1242 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 14:33 | 1 |
| Aroclor-1248 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 14:33 | 1 |
| Aroclor-1254 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 14:33 | 1 |
| Aroclor-1260 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 14:33 | 1 |
| Aroclor-1262 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 14:33 | 1 |
| Aroclor-1268 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 14:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *76* | | *25 - 126* | *04/21/21 15:57* | *04/22/21 14:33* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *94* | | *20 - 155* | *04/21/21 15:57* | *04/22/21 14:33* | *1* |

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

**Client Sample ID: SSD-6-0.0**
**Date Collected: 04/15/21 08:16**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56782-39**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Aroclor-1268** | **180** | | 99 | 50 | ug/Kg | | 04/21/21 15:57 | 04/22/21 20:13 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *70* | | *25 - 126* | *04/21/21 15:57* | *04/22/21 20:13* | *10* |
| *DCB Decachlorobiphenyl (Surr)* | *244* | *S1+* | *20 - 155* | *04/21/21 15:57* | *04/22/21 20:13* | *10* |

## Method: 6010B - Metals (ICP)

**Client Sample ID: SSD-19-4.0**
**Date Collected: 04/14/21 10:58**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 97 | F1 | 4.8 | 0.93 | mg/Kg | | 04/17/21 16:00 | 04/21/21 18:47 | 1 |

**Client Sample ID: SSD-18-1.0**
**Date Collected: 04/14/21 11:16**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-3**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 160 | | 4.9 | 0.95 | mg/Kg | | 04/17/21 16:00 | 04/21/21 18:54 | 1 |

**Client Sample ID: SSD-18-2.0**
**Date Collected: 04/14/21 11:18**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-4**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 58 | | 5.0 | 0.97 | mg/Kg | | 04/17/21 16:00 | 04/21/21 19:05 | 1 |

**Client Sample ID: SSD-18-3.0**
**Date Collected: 04/14/21 11:20**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-5**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 11 | | 4.9 | 0.95 | mg/Kg | | 04/17/21 16:00 | 04/21/21 19:07 | 1 |

**Client Sample ID: SSD-18-4.0**
**Date Collected: 04/14/21 11:22**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-6**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 99 | | 4.8 | 0.93 | mg/Kg | | 04/17/21 16:00 | 04/21/21 19:09 | 1 |

**Client Sample ID: SSD-14-1.0**
**Date Collected: 04/14/21 13:20**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-7**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 320 | | 5.1 | 0.98 | mg/Kg | | 04/17/21 16:00 | 04/21/21 19:11 | 1 |

**Client Sample ID: SSD-14-2.0**
**Date Collected: 04/14/21 13:22**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-8**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 280 | | 5.1 | 0.99 | mg/Kg | | 04/17/21 16:00 | 04/21/21 19:13 | 1 |

**Client Sample ID: SSD-14-3.0**
**Date Collected: 04/14/21 13:24**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-9**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 130 | | 5.0 | 0.97 | mg/Kg | | 04/17/21 16:00 | 04/21/21 19:15 | 1 |

**Client Sample ID: SSD-14-4.0**
**Date Collected: 04/14/21 13:26**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-10**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 23 | | 5.0 | 0.97 | mg/Kg | | 04/17/21 16:00 | 04/21/21 19:17 | 1 |

## Method: 6010B - Metals (ICP)

**Client Sample ID: SSD-13-1.0**
**Date Collected: 04/14/21 13:30**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-11**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 180 | | 5.1 | 0.98 | mg/Kg | | 04/17/21 16:00 | 04/21/21 19:19 | 1 |

**Client Sample ID: SSD-13-2.0**
**Date Collected: 04/14/21 13:32**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-12**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 10 | | 5.0 | 0.97 | mg/Kg | | 04/17/21 16:00 | 04/21/21 19:21 | 1 |

**Client Sample ID: SSD-13-3.0**
**Date Collected: 04/14/21 13:34**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-13**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 77 | | 5.1 | 0.99 | mg/Kg | | 04/17/21 16:00 | 04/21/21 19:23 | 1 |

**Client Sample ID: SSD-13-4.0**
**Date Collected: 04/14/21 13:36**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-14**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 2.8 | J | 4.9 | 0.94 | mg/Kg | | 04/17/21 16:00 | 04/21/21 19:34 | 1 |

**Client Sample ID: SSD-10-1.0**
**Date Collected: 04/14/21 13:45**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-15**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 160 | | 5.1 | 0.99 | mg/Kg | | 04/17/21 16:00 | 04/21/21 19:36 | 1 |

**Client Sample ID: SSD-10-2.0**
**Date Collected: 04/14/21 13:47**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-16**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 9.2 | | 5.0 | 0.96 | mg/Kg | | 04/17/21 16:00 | 04/21/21 19:37 | 1 |

**Client Sample ID: SSD-10-3.0**
**Date Collected: 04/14/21 13:49**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-17**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 11 | | 4.8 | 0.93 | mg/Kg | | 04/17/21 16:00 | 04/21/21 19:39 | 1 |

**Client Sample ID: SSD-10-4.0**
**Date Collected: 04/14/21 13:51**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-18**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 5.7 | | 5.2 | 1.0 | mg/Kg | | 04/17/21 16:00 | 04/21/21 19:41 | 1 |

**Client Sample ID: SSD-9-1.0**
**Date Collected: 04/14/21 14:00**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-19**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1300 | | 5.0 | 0.96 | mg/Kg | | 04/17/21 16:00 | 04/21/21 19:43 | 1 |

## Method: 6010B - Metals (ICP)

**Client Sample ID: SSD-9-2.0**
**Date Collected: 04/14/21 14:02**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-20**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 380 | | 4.9 | 0.95 | mg/Kg | | 04/17/21 16:00 | 04/21/21 19:45 | 1 |

**Client Sample ID: SSD-9-3.0**
**Date Collected: 04/14/21 14:04**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-21**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 340 | | 4.8 | 0.93 | mg/Kg | | 04/17/21 16:00 | 04/21/21 19:47 | 1 |

**Client Sample ID: SSD-9-4.0**
**Date Collected: 04/14/21 14:06**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-22**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 80 | F1 | 4.8 | 0.93 | mg/Kg | | 04/17/21 16:00 | 04/21/21 19:49 | 1 |

**Client Sample ID: SSD-8-1.0**
**Date Collected: 04/14/21 14:35**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-23**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1200 | | 5.2 | 1.0 | mg/Kg | | 04/17/21 16:00 | 04/21/21 20:04 | 1 |

**Client Sample ID: SSD-8-2.0**
**Date Collected: 04/14/21 14:37**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-24**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 12 | | 4.8 | 0.93 | mg/Kg | | 04/17/21 16:00 | 04/21/21 20:06 | 1 |

**Client Sample ID: SSD-8-3.0**
**Date Collected: 04/14/21 14:39**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-25**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 24 | | 5.2 | 1.0 | mg/Kg | | 04/17/21 16:00 | 04/21/21 20:08 | 1 |

**Client Sample ID: SSD-8-4.0**
**Date Collected: 04/14/21 14:41**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-26**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 10 | | 4.8 | 0.93 | mg/Kg | | 04/17/21 16:00 | 04/21/21 20:10 | 1 |

**Client Sample ID: SSD-7-1.0**
**Date Collected: 04/14/21 14:43**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-27**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 950 | | 5.1 | 0.99 | mg/Kg | | 04/17/21 16:00 | 04/21/21 20:12 | 1 |

**Client Sample ID: SSD-7-2.0**
**Date Collected: 04/14/21 14:45**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-28**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 16 | | 5.1 | 0.98 | mg/Kg | | 04/17/21 16:00 | 04/21/21 20:14 | 1 |

## Method: 6010B - Metals (ICP)

**Client Sample ID: SSD-7-3.0**
**Date Collected: 04/14/21 14:47**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-29**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 15 | | 4.9 | 0.94 | mg/Kg | | 04/17/21 16:00 | 04/21/21 20:16 | 1 |

**Client Sample ID: SSD-7-4.0**
**Date Collected: 04/14/21 14:49**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-30**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 29 | | 5.1 | 0.99 | mg/Kg | | 04/17/21 16:00 | 04/21/21 20:18 | 1 |

**Client Sample ID: SSD-5-1.0**
**Date Collected: 04/15/21 08:08**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-35**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1300 | | 4.9 | 0.94 | mg/Kg | | 04/17/21 16:00 | 04/21/21 20:20 | 1 |

**Client Sample ID: SSD-5-2.0**
**Date Collected: 04/15/21 08:10**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-36**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 530 | | 5.1 | 0.98 | mg/Kg | | 04/17/21 16:00 | 04/21/21 20:32 | 1 |

**Client Sample ID: SSD-5-3.0**
**Date Collected: 04/15/21 08:12**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-37**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 160 | | 5.1 | 0.98 | mg/Kg | | 04/17/21 16:00 | 04/21/21 20:34 | 1 |

**Client Sample ID: SSD-5-4.0**
**Date Collected: 04/15/21 08:14**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-38**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 110 | | 4.8 | 0.93 | mg/Kg | | 04/17/21 16:00 | 04/21/21 20:36 | 1 |

**Client Sample ID: SSD-6-1.0**
**Date Collected: 04/15/21 08:18**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-40**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 180 | | 5.2 | 1.0 | mg/Kg | | 04/17/21 16:00 | 04/21/21 20:38 | 1 |

**Client Sample ID: SSD-6-2.0**
**Date Collected: 04/15/21 08:20**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-41**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 45 | | 4.8 | 0.93 | mg/Kg | | 04/17/21 16:00 | 04/21/21 20:40 | 1 |

**Client Sample ID: SSD-6-3.0**
**Date Collected: 04/15/21 08:22**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-42**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 17 | | 5.2 | 1.0 | mg/Kg | | 04/17/21 16:00 | 04/21/21 20:42 | 1 |

## Method: 6010B - Metals (ICP)

**Client Sample ID: SSD-6-4.0**
**Date Collected: 04/15/21 08:24**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-43**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 90 | | 5.2 | 1.0 | mg/Kg | | 04/17/21 16:00 | 04/21/21 20:44 | 1 |

**Client Sample ID: SSD-4-1.0**
**Date Collected: 04/15/21 09:00**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-44**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 2900 | | 4.9 | 0.94 | mg/Kg | | 04/17/21 16:00 | 04/21/21 20:46 | 1 |

**Client Sample ID: SSD-4-2.0**
**Date Collected: 04/15/21 09:02**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-45**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 34 | | 5.1 | 0.98 | mg/Kg | | 04/17/21 16:00 | 04/21/21 20:48 | 1 |

**Client Sample ID: SSD-4-3.0**
**Date Collected: 04/15/21 09:04**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-46**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 45 | | 5.1 | 0.99 | mg/Kg | | 04/17/21 16:00 | 04/21/21 20:50 | 1 |

**Client Sample ID: SSD-4-4.0**
**Date Collected: 04/15/21 09:06**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-47**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 100 | | 4.9 | 0.94 | mg/Kg | | 04/21/21 15:00 | 04/22/21 16:58 | 1 |

**Client Sample ID: SSD-3-1.0**
**Date Collected: 04/15/21 09:08**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-48**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1300 | | 5.0 | 0.96 | mg/Kg | | 04/21/21 15:00 | 04/22/21 17:05 | 1 |

**Client Sample ID: SSD-3-2.0**
**Date Collected: 04/15/21 09:10**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-49**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1600 | | 5.1 | 0.99 | mg/Kg | | 04/21/21 15:00 | 04/22/21 17:07 | 1 |

**Client Sample ID: SSD-3-3.0**
**Date Collected: 04/15/21 09:12**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-50**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 310 | | 5.0 | 0.96 | mg/Kg | | 04/21/21 15:00 | 04/22/21 17:09 | 1 |

**Client Sample ID: SSD-3-4.0**
**Date Collected: 04/15/21 09:14**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-51**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 130 | | 4.9 | 0.94 | mg/Kg | | 04/21/21 15:00 | 04/22/21 17:11 | 1 |

## Method: 6010B - Metals (ICP)

**Client Sample ID: SSD-2-1.0**
**Date Collected: 04/15/21 09:16**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-52**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 2400 | | 4.9 | 0.95 | mg/Kg | | 04/21/21 15:00 | 04/22/21 17:18 | 1 |

**Client Sample ID: SSD-2-2.0**
**Date Collected: 04/15/21 09:18**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-53**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 750 | | 4.9 | 0.95 | mg/Kg | | 04/21/21 15:00 | 04/22/21 17:21 | 1 |

**Client Sample ID: SSD-2-3.0**
**Date Collected: 04/15/21 09:20**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-54**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 240 | | 5.0 | 0.97 | mg/Kg | | 04/21/21 15:00 | 04/22/21 17:23 | 1 |

**Client Sample ID: SSD-2-4.0**
**Date Collected: 04/15/21 09:22**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-55**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 60 | | 5.0 | 0.97 | mg/Kg | | 04/21/21 15:00 | 04/22/21 17:25 | 1 |

**Client Sample ID: SSD-1-1.0**
**Date Collected: 04/15/21 09:24**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-56**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 780 | | 4.9 | 0.94 | mg/Kg | | 04/21/21 15:00 | 04/22/21 17:28 | 1 |

**Client Sample ID: SSD-1-2.0**
**Date Collected: 04/15/21 09:26**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-57**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 910 | | 5.1 | 0.98 | mg/Kg | | 04/21/21 15:00 | 04/22/21 17:30 | 1 |

**Client Sample ID: SSD-1-3.0**
**Date Collected: 04/15/21 09:28**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-58**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 95 | | 4.9 | 0.95 | mg/Kg | | 04/21/21 15:00 | 04/22/21 17:32 | 1 |

**Client Sample ID: SSD-1-4.0**
**Date Collected: 04/15/21 09:30**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-59**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 44 | | 4.9 | 0.94 | mg/Kg | | 04/21/21 15:00 | 04/22/21 17:35 | 1 |

**Client Sample ID: SSD-29-1.0**
**Date Collected: 04/15/21 09:45**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-60**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 720 | | 4.8 | 0.93 | mg/Kg | | 04/21/21 15:00 | 04/22/21 17:37 | 1 |

## Method: 6010B - Metals (ICP)

**Client Sample ID: G-17-C-10.0**
**Date Collected: 04/15/21 10:15**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-65**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 12 | | 4.8 | 0.93 | mg/Kg | | 04/21/21 15:00 | 04/22/21 17:44 | 1 |

**Client Sample ID: G-17-C-15.0**
**Date Collected: 04/15/21 10:25**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-66**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 2.7 | J | 5.1 | 0.99 | mg/Kg | | 04/21/21 15:00 | 04/22/21 17:46 | 1 |

**Client Sample ID: SSD-29-2.0**
**Date Collected: 04/15/21 09:47**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-71**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 810 | | 4.9 | 0.95 | mg/Kg | | 04/21/21 15:00 | 04/22/21 17:49 | 1 |

**Client Sample ID: SSD-29-3.0**
**Date Collected: 04/15/21 09:49**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-72**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1200 | | 5.1 | 0.98 | mg/Kg | | 04/21/21 15:00 | 04/22/21 17:51 | 1 |

**Client Sample ID: SSD-29-3.5**
**Date Collected: 04/15/21 09:51**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-73**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1700 | | 5.1 | 0.99 | mg/Kg | | 04/21/21 15:00 | 04/22/21 17:53 | 1 |

**Client Sample ID: SSD-29-4.0**
**Date Collected: 04/15/21 09:53**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-74**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 290 | | 5.1 | 0.98 | mg/Kg | | 04/21/21 15:00 | 04/22/21 17:55 | 1 |

**Client Sample ID: SSD-20-1.0**
**Date Collected: 04/15/21 09:55**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-75**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 2100 | | 5.1 | 0.98 | mg/Kg | | 04/21/21 16:00 | 04/22/21 18:27 | 1 |

**Client Sample ID: SSD-20-2.0**
**Date Collected: 04/15/21 09:57**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-76**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 150 | | 5.2 | 1.0 | mg/Kg | | 04/21/21 16:00 | 04/22/21 18:33 | 1 |

**Client Sample ID: SSD-20-3.0**
**Date Collected: 04/15/21 09:59**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-77**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 53 | | 5.1 | 0.98 | mg/Kg | | 04/21/21 16:00 | 04/22/21 18:35 | 1 |

## Method: 6010B - Metals (ICP)

**Client Sample ID: SSD-20-4.0**
**Date Collected: 04/15/21 10:01**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-78**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 280 | | 5.1 | 0.99 | mg/Kg | | 04/21/21 16:00 | 04/22/21 18:37 | 1 |

**Client Sample ID: SSD-22-3.5**
**Date Collected: 04/15/21 10:20**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-79**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 170 | | 5.1 | 0.98 | mg/Kg | | 04/21/21 16:00 | 04/22/21 18:39 | 1 |

**Client Sample ID: SSD-22-4.0**
**Date Collected: 04/15/21 10:22**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-80**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.6 | J | 4.9 | 0.95 | mg/Kg | | 04/21/21 16:00 | 04/22/21 18:51 | 1 |

**Client Sample ID: SSD-24-3.5**
**Date Collected: 04/15/21 10:35**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-81**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 160 | | 5.0 | 0.96 | mg/Kg | | 04/21/21 16:00 | 04/22/21 18:53 | 1 |

**Client Sample ID: SSD-24-4.0**
**Date Collected: 04/15/21 10:37**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-82**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 13 | | 4.9 | 0.94 | mg/Kg | | 04/21/21 16:00 | 04/22/21 18:55 | 1 |

**Client Sample ID: SSD-23-1.0**
**Date Collected: 04/15/21 10:40**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-83**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 140 | | 5.0 | 0.96 | mg/Kg | | 04/21/21 16:00 | 04/22/21 18:56 | 1 |

**Client Sample ID: SSD-23-2.0**
**Date Collected: 04/15/21 10:42**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-84**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 550 | | 5.1 | 0.99 | mg/Kg | | 04/21/21 16:00 | 04/22/21 18:58 | 1 |

**Client Sample ID: SSD-23-3.0**
**Date Collected: 04/15/21 10:44**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-85**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 190 | | 5.0 | 0.96 | mg/Kg | | 04/21/21 16:00 | 04/22/21 19:01 | 1 |

**Client Sample ID: SSD-23-4.0**
**Date Collected: 04/15/21 10:46**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-86**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 13 | | 4.9 | 0.95 | mg/Kg | | 04/21/21 16:00 | 04/22/21 19:02 | 1 |

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Method: 6010B - Metals (ICP)

**Client Sample ID: SSD-25-1.0**
**Date Collected: 04/15/21 10:50**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-87**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 100 | | 4.9 | 0.95 | mg/Kg | | 04/21/21 16:00 | 04/22/21 19:04 | 1 |

**Client Sample ID: SSD-25-2.0**
**Date Collected: 04/15/21 10:52**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-88**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 38 | | 4.8 | 0.93 | mg/Kg | | 04/21/21 16:00 | 04/22/21 19:06 | 1 |

**Client Sample ID: SSD-25-3.0**
**Date Collected: 04/15/21 10:54**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-89**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 23 | | 4.8 | 0.93 | mg/Kg | | 04/21/21 16:00 | 04/22/21 19:09 | 1 |

**Client Sample ID: SSD-25-4.0**
**Date Collected: 04/15/21 10:56**
**Date Received: 04/16/21 10:35**
**Lab Sample ID: 570-56782-90**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 17 | | 4.8 | 0.93 | mg/Kg | | 04/21/21 16:00 | 04/22/21 19:20 | 1 |

# Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145 Oakland Center Street

Job ID: 570-56782-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Matrix: Solid**

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | BFB | DBFM | TOL |
| Lab Sample ID | Client Sample ID | (80-142) | (80-120) | (80-123) | (80-120) |
| 570-56782-31 | SB-3-10.0 | 101 | 94 | 94 | 99 |
| 570-56782-32 | SB-3-15.0 | 109 | 95 | 98 | 100 |
| 570-56782-33 | SB-4-10.0 | 104 | 93 | 95 | 99 |
| 570-56782-34 | SB-4-15.0 | 108 | 94 | 97 | 101 |
| 570-56782-61 | G-15-C-10.0 | 97 | 101 | 95 | 100 |
| 570-56782-62 | G-15-C-15.0 | 106 | 94 | 97 | 99 |
| 570-56782-63 | G-16-C-10.0 | 102 | 102 | 98 | 102 |
| 570-56782-63 - DL | G-16-C-10.0 | 99 | 100 | 97 | 101 |
| 570-56782-65 | G-17-C-10.0 | 100 | 102 | 97 | 101 |
| 570-56782-66 | G-17-C-15.0 | 104 | 95 | 98 | 99 |
| 570-56782-67 | SW-3-C-10.0 | 100 | 102 | 97 | 100 |
| 570-56782-68 | SW-3-C-15.0 | 99 | 98 | 99 | 100 |
| 570-56782-69 | SW-4/MW-14-C-10.0 | 99 | 99 | 97 | 100 |
| 570-56782-70 | SW-4/MW-14-C-15.0 | 104 | 100 | 98 | 99 |
| LCS 570-144782/4 | Lab Control Sample | 103 | 102 | 101 | 100 |
| LCS 570-145066/4 | Lab Control Sample | 107 | 100 | 101 | 100 |
| LCSD 570-144782/5 | Lab Control Sample Dup | 102 | 103 | 99 | 99 |
| LCSD 570-145066/5 | Lab Control Sample Dup | 105 | 100 | 98 | 102 |
| MB 570-144782/7 | Method Blank | 99 | 94 | 95 | 100 |
| MB 570-144782/8 | Method Blank | 98 | 94 | 93 | 100 |
| MB 570-145066/10 | Method Blank | 103 | 95 | 94 | 101 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Matrix: Solid**

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | |
|---|---|---|---|---|---|---|---|
| | | TBP | FBP | 2FP | NBZ | PHL6 | TPHd14 |
| Lab Sample ID | Client Sample ID | (10-134) | (14-142) | (10-123) | (10-129) | (10-120) | (31-139) |
| 570-56782-31 | SB-3-10.0 | 72 | 75 | 68 | 69 | 64 | 78 |
| 570-56782-31 MS | SB-3-10.0 | 73 | 71 | 65 | 60 | 59 | 71 |
| 570-56782-31 MSD | SB-3-10.0 | 71 | 71 | 64 | 59 | 60 | 73 |
| 570-56782-33 | SB-4-10.0 | 75 | 77 | 70 | 71 | 66 | 81 |
| 570-56782-61 | G-15-C-10.0 | 78 | 75 | 51 | 67 | 64 | 78 |
| 570-56782-63 | G-16-C-10.0 | 81 | 74 | 25 | 67 | 61 | 78 |
| 570-56782-63 - DL | G-16-C-10.0 | 73 | 79 | 53 | 70 | 63 | 75 |
| 570-56782-65 | G-17-C-10.0 | 83 | 79 | 55 | 70 | 64 | 79 |
| 570-56782-67 | SW-3-C-10.0 | 78 | 72 | 22 | 61 | 57 | 73 |
| 570-56782-67 - DL | SW-3-C-10.0 | 67 | 72 | 48 | 62 | 61 | 77 |
| 570-56782-69 | SW-4/MW-14-C-10.0 | 90 | 79 | 116 | 69 | 62 | 76 |
| 570-56782-69 | SW-4/MW-14-C-10.0 | 77 | 75 | 91 | 74 | 66 | 87 |
| LCS 570-144547/2-A | Lab Control Sample | 92 | 84 | 77 | 69 | 73 | 89 |
| LCSD 570-144547/3-A | Lab Control Sample Dup | 93 | 84 | 79 | 70 | 75 | 92 |
| MB 570-144547/1-A | Method Blank | 83 | 83 | 74 | 76 | 70 | 86 |

**Surrogate Legend**

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL6 = Phenol-d6 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

## Method: 8015B - Gasoline Range Organics - (GC)

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Lab Sample ID | Client Sample ID | BFB1 (42-126) | | | | | | |
| 570-56782-31 | SB-3-10.0 | 103 | | | | | | |
| 570-56782-32 | SB-3-15.0 | 111 | | | | | | |
| 570-56782-33 | SB-4-10.0 | 108 | | | | | | |
| 570-56782-34 | SB-4-15.0 | 105 | | | | | | |
| 570-56782-61 | G-15-C-10.0 | 98 | | | | | | |
| 570-56782-62 | G-15-C-15.0 | 83 | | | | | | |
| 570-56782-63 | G-16-C-10.0 | 107 | | | | | | |
| 570-56782-65 | G-17-C-10.0 | 91 | | | | | | |
| 570-56782-66 | G-17-C-15.0 | 101 | | | | | | |
| 570-56782-67 | SW-3-C-10.0 | 106 | | | | | | |
| 570-56782-68 | SW-3-C-15.0 | 104 | | | | | | |
| 570-56782-69 | SW-4/MW-14-C-10.0 | 118 | | | | | | |
| 570-56782-70 | SW-4/MW-14-C-15.0 | 109 | | | | | | |
| LCS 570-145050/29 | Lab Control Sample | 95 | | | | | | |
| LCS 570-145244/3 | Lab Control Sample | 102 | | | | | | |
| LCS 570-145488/9 | Lab Control Sample | 94 | | | | | | |
| LCSD 570-145050/30 | Lab Control Sample Dup | 95 | | | | | | |
| LCSD 570-145244/4 | Lab Control Sample Dup | 100 | | | | | | |
| LCSD 570-145488/10 | Lab Control Sample Dup | 95 | | | | | | |
| MB 570-145050/32 | Method Blank | 77 | | | | | | |
| MB 570-145244/6 | Method Blank | 84 | | | | | | |
| MB 570-145488/11 | Method Blank | 62 | | | | | | |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Lab Sample ID | Client Sample ID | OTCSN1 (60-138) | | | | | | |
| 440-282109-B-5-C MS | Matrix Spike | 130 | | | | | | |
| 440-282109-B-5-D MSD | Matrix Spike Duplicate | 141 S1+ | | | | | | |
| 570-56782-31 | SB-3-10.0 | 124 | | | | | | |
| 570-56782-33 | SB-4-10.0 | 112 | | | | | | |
| 570-56782-61 | G-15-C-10.0 | 116 | | | | | | |
| 570-56782-63 | G-16-C-10.0 | 114 | | | | | | |
| 570-56782-65 | G-17-C-10.0 | 126 | | | | | | |
| 570-56782-66 | G-17-C-15.0 | 117 | | | | | | |
| 570-56782-67 | SW-3-C-10.0 | 121 | | | | | | |
| 570-56782-69 | SW-4/MW-14-C-10.0 | 119 | | | | | | |
| LCS 570-144951/2-A | Lab Control Sample | 110 | | | | | | |
| LCSD 570-144951/3-A | Lab Control Sample Dup | 120 | | | | | | |

# Surrogate Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Matrix: Solid**
**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OTCSN1 | | | | | | | | | | |
| Lab Sample ID | Client Sample ID | (60-138) | | | | | | | | | | |
| MB 570-144951/1-A | Method Blank | 117 | | | | | | | | | | |

**Surrogate Legend**

OTCSN = n-Octacosane (Surr)

## Method: 8081A - Organochlorine Pesticides (GC)

**Matrix: Solid**
**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TCX1 | DCB1 | | | | | | | | | |
| Lab Sample ID | Client Sample ID | (38-148) | (37-151) | | | | | | | | | |
| 570-56782-2 | SSD-19-0.0 | 79 | 89 | | | | | | | | | |
| 570-56782-39 | SSD-6-0.0 | 73 | 102 | | | | | | | | | |
| 570-56782-39 - DL | SSD-6-0.0 | 78 | 127 | | | | | | | | | |
| 570-56782-40 | SSD-6-1.0 | 88 | 87 | | | | | | | | | |
| 570-56782-41 | SSD-6-2.0 | 88 | 88 | | | | | | | | | |
| 570-56782-42 | SSD-6-3.0 | 89 | 89 | | | | | | | | | |
| 570-56847-A-45-A MS | Matrix Spike | 70 | 93 | | | | | | | | | |
| 570-56847-A-45-B MSD | Matrix Spike Duplicate | 67 | 92 | | | | | | | | | |
| LCS 570-144549/2-A | Lab Control Sample | 91 | 91 | | | | | | | | | |
| LCSD 570-144549/3-A | Lab Control Sample Dup | 92 | 93 | | | | | | | | | |
| MB 570-144549/1-A | Method Blank | 95 | 96 | | | | | | | | | |

**Surrogate Legend**

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Matrix: Solid**
**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TCX1 | DCB1 | | | | | | | | | |
| Lab Sample ID | Client Sample ID | (25-126) | (20-155) | | | | | | | | | |
| 570-56782-2 | SSD-19-0.0 | 64 | 96 | | | | | | | | | |
| 570-56782-39 | SSD-6-0.0 | 66 | 292 S1+ | | | | | | | | | |
| 570-56782-39 - DL | SSD-6-0.0 | 70 | 244 S1+ | | | | | | | | | |
| 570-56782-40 | SSD-6-1.0 | 62 | 100 | | | | | | | | | |
| 570-56782-41 | SSD-6-2.0 | 79 | 97 | | | | | | | | | |
| 570-56782-42 | SSD-6-3.0 | 76 | 94 | | | | | | | | | |
| 570-56782-42 MS | SSD-6-3.0 | 76 | 93 | | | | | | | | | |
| 570-56782-42 MSD | SSD-6-3.0 | 67 | 93 | | | | | | | | | |
| LCS 570-144979/2-A | Lab Control Sample | 72 | 77 | | | | | | | | | |
| LCSD 570-144979/3-A | Lab Control Sample Dup | 81 | 93 | | | | | | | | | |
| MB 570-144979/1-A | Method Blank | 76 | 92 | | | | | | | | | |

**Surrogate Legend**

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 570-144782/7**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.0010 | 0.00029 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.0010 | 0.00023 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0020 | 0.00054 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.010 | 0.00046 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.0010 | 0.00046 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,1-Dichloroethane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,1-Dichloroethene | ND | | 0.0010 | 0.00027 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,1-Dichloropropene | ND | | 0.0020 | 0.00039 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0020 | 0.0010 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0020 | 0.00042 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0020 | 0.00041 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.010 | 0.0068 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2-Dibromoethane | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2-Dichloroethane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2-Dichloropropane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,3-Dichloropropane | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.0010 | 0.00031 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 2,2-Dichloropropane | ND | | 0.0050 | 0.00027 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 2-Butanone | ND | | 0.020 | 0.0045 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 2-Chlorotoluene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 2-Hexanone | ND | | 0.020 | 0.0031 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 4-Chlorotoluene | ND | | 0.0010 | 0.00024 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.020 | 0.0029 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Acetone | ND | | 0.020 | 0.0098 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Benzene | ND | | 0.0010 | 0.00026 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Bromobenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Bromochloromethane | ND | | 0.0020 | 0.00044 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Bromodichloromethane | ND | | 0.0010 | 0.00016 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Bromoform | ND | | 0.0050 | 0.0013 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Bromomethane | ND | | 0.020 | 0.0066 | mg/Kg | | | 04/21/21 10:31 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.0010 | 0.00034 | mg/Kg | | | 04/21/21 10:31 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.0010 | 0.00035 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Carbon disulfide | ND | | 0.010 | 0.00040 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Carbon tetrachloride | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Chlorobenzene | ND | | 0.0010 | 0.00027 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Chloroethane | ND | | 0.0020 | 0.0015 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Chloroform | ND | | 0.0010 | 0.00059 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Chloromethane | ND | | 0.020 | 0.0015 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Dibromochloromethane | ND | | 0.0020 | 0.00027 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Dibromomethane | ND | | 0.0010 | 0.00031 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Dichlorodifluoromethane | ND | | 0.0020 | 0.00045 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Ethylbenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Isopropylbenzene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Methylene Chloride | ND | | 0.010 | 0.0031 | mg/Kg | | | 04/21/21 10:31 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-144782/7**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0020 | 0.00019 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Naphthalene | ND | | 0.010 | 0.0052 | mg/Kg | | | 04/21/21 10:31 | 1 |
| n-Butylbenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/21/21 10:31 | 1 |
| N-Propylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/21/21 10:31 | 1 |
| o-Xylene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/21/21 10:31 | 1 |
| m,p-Xylene | ND | | 0.0020 | 0.00047 | mg/Kg | | | 04/21/21 10:31 | 1 |
| p-Isopropyltoluene | ND | | 0.0010 | 0.00070 | mg/Kg | | | 04/21/21 10:31 | 1 |
| sec-Butylbenzene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Styrene | ND | | 0.0010 | 0.00070 | mg/Kg | | | 04/21/21 10:31 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/21/21 10:31 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0020 | 0.00028 | mg/Kg | | | 04/21/21 10:31 | 1 |
| tert-Butylbenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Tetrachloroethene | ND | | 0.0010 | 0.00022 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Toluene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Trichloroethene | ND | | 0.0020 | 0.00039 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Trichlorofluoromethane | ND | | 0.010 | 0.00027 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Vinyl acetate | ND | | 0.010 | 0.0039 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Vinyl chloride | ND | | 0.0010 | 0.00038 | mg/Kg | | | 04/21/21 10:31 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *80 - 142* | | *04/21/21 10:31* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* | | *04/21/21 10:31* | *1* |
| *Dibromofluoromethane (Surr)* | *95* | | *80 - 123* | | *04/21/21 10:31* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | | *04/21/21 10:31* | *1* |

**Lab Sample ID: MB 570-144782/8**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.050 | 0.015 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,1,1-Trichloroethane | ND | | 0.050 | 0.012 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.10 | 0.027 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | 0.023 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,1,2-Trichloroethane | ND | | 0.050 | 0.023 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,1-Dichloroethane | ND | | 0.050 | 0.014 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,1-Dichloroethene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,1-Dichloropropene | ND | | 0.10 | 0.019 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2,3-Trichlorobenzene | ND | | 0.10 | 0.050 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2,3-Trichloropropane | ND | | 0.10 | 0.021 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2,4-Trichlorobenzene | ND | | 0.10 | 0.021 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2,4-Trimethylbenzene | ND | | 0.10 | 0.030 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.50 | 0.34 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2-Dibromoethane | ND | | 0.050 | 0.010 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2-Dichlorobenzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2-Dichloroethane | ND | | 0.050 | 0.014 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2-Dichloropropane | ND | | 0.050 | 0.014 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,3,5-Trimethylbenzene | ND | | 0.10 | 0.030 | mg/Kg | | | 04/21/21 10:57 | 50 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-144782/8**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,3-Dichloropropane | ND | | 0.050 | 0.015 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.015 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 2,2-Dichloropropane | ND | | 0.25 | 0.014 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 2-Butanone | ND | | 1.0 | 0.23 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 2-Chlorotoluene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 2-Hexanone | ND | | 1.0 | 0.15 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 4-Chlorotoluene | ND | | 0.050 | 0.012 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 4-Methyl-2-pentanone | ND | | 1.0 | 0.15 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Acetone | ND | | 1.0 | 0.49 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Benzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Bromobenzene | ND | | 0.050 | 0.010 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Bromochloromethane | ND | | 0.10 | 0.022 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Bromodichloromethane | ND | | 0.050 | 0.0080 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Bromoform | ND | | 0.25 | 0.066 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Bromomethane | ND | | 1.0 | 0.33 | mg/Kg | | | 04/21/21 10:57 | 50 |
| cis-1,2-Dichloroethene | ND | | 0.050 | 0.017 | mg/Kg | | | 04/21/21 10:57 | 50 |
| cis-1,3-Dichloropropene | ND | | 0.050 | 0.017 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Carbon disulfide | ND | | 0.50 | 0.020 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Carbon tetrachloride | ND | | 0.050 | 0.015 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Chlorobenzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Chloroethane | ND | | 0.10 | 0.075 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Chloroform | ND | | 0.050 | 0.029 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Chloromethane | ND | | 1.0 | 0.077 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Dibromochloromethane | ND | | 0.10 | 0.014 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Dibromomethane | ND | | 0.050 | 0.015 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Dichlorodifluoromethane | ND | | 0.10 | 0.023 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Ethylbenzene | ND | | 0.050 | 0.010 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Isopropylbenzene | ND | | 0.050 | 0.030 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Methylene Chloride | ND | | 0.50 | 0.16 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.10 | 0.0094 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Naphthalene | ND | | 0.50 | 0.26 | mg/Kg | | | 04/21/21 10:57 | 50 |
| n-Butylbenzene | ND | | 0.050 | 0.011 | mg/Kg | | | 04/21/21 10:57 | 50 |
| N-Propylbenzene | ND | | 0.10 | 0.030 | mg/Kg | | | 04/21/21 10:57 | 50 |
| o-Xylene | ND | | 0.050 | 0.030 | mg/Kg | | | 04/21/21 10:57 | 50 |
| m,p-Xylene | ND | | 0.10 | 0.024 | mg/Kg | | | 04/21/21 10:57 | 50 |
| p-Isopropyltoluene | ND | | 0.050 | 0.035 | mg/Kg | | | 04/21/21 10:57 | 50 |
| sec-Butylbenzene | ND | | 0.050 | 0.030 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Styrene | ND | | 0.050 | 0.035 | mg/Kg | | | 04/21/21 10:57 | 50 |
| trans-1,2-Dichloroethene | ND | | 0.050 | 0.015 | mg/Kg | | | 04/21/21 10:57 | 50 |
| trans-1,3-Dichloropropene | ND | | 0.10 | 0.014 | mg/Kg | | | 04/21/21 10:57 | 50 |
| tert-Butylbenzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Tetrachloroethene | ND | | 0.050 | 0.011 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Toluene | ND | | 0.050 | 0.030 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Trichloroethene | ND | | 0.10 | 0.019 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Trichlorofluoromethane | ND | | 0.50 | 0.014 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Vinyl acetate | ND | | 0.50 | 0.20 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Vinyl chloride | ND | | 0.050 | 0.019 | mg/Kg | | | 04/21/21 10:57 | 50 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-144782/8**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 80 - 142 | | 04/21/21 10:57 | 50 |
| 4-Bromofluorobenzene (Surr) | 94 | | 80 - 120 | | 04/21/21 10:57 | 50 |
| Dibromofluoromethane (Surr) | 93 | | 80 - 123 | | 04/21/21 10:57 | 50 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 | | 04/21/21 10:57 | 50 |

**Lab Sample ID: LCS 570-144782/4**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.0500 | 0.0460 | | mg/Kg | | 92 | 67 - 122 |
| 1,2-Dibromoethane | 0.0500 | 0.0474 | | mg/Kg | | 95 | 80 - 123 |
| 1,2-Dichlorobenzene | 0.0500 | 0.0495 | | mg/Kg | | 99 | 80 - 120 |
| 1,2-Dichloroethane | 0.0500 | 0.0494 | | mg/Kg | | 99 | 80 - 125 |
| Benzene | 0.0500 | 0.0481 | | mg/Kg | | 96 | 79 - 120 |
| Carbon tetrachloride | 0.0500 | 0.0479 | | mg/Kg | | 96 | 69 - 132 |
| Chlorobenzene | 0.0500 | 0.0495 | | mg/Kg | | 99 | 80 - 120 |
| Ethylbenzene | 0.0500 | 0.0492 | | mg/Kg | | 98 | 80 - 120 |
| Methyl-t-Butyl Ether (MTBE) | 0.0500 | 0.0441 | | mg/Kg | | 88 | 68 - 120 |
| o-Xylene | 0.0500 | 0.0490 | | mg/Kg | | 98 | 79 - 120 |
| m,p-Xylene | 0.100 | 0.0973 | | mg/Kg | | 97 | 79 - 120 |
| Toluene | 0.0500 | 0.0495 | | mg/Kg | | 99 | 80 - 120 |
| Trichloroethene | 0.0500 | 0.0490 | | mg/Kg | | 98 | 80 - 121 |
| Vinyl chloride | 0.0500 | 0.0487 | | mg/Kg | | 97 | 66 - 128 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 80 - 142 |
| 4-Bromofluorobenzene (Surr) | 102 | | 80 - 120 |
| Dibromofluoromethane (Surr) | 101 | | 80 - 123 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 |

**Lab Sample ID: LCSD 570-144782/5**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.0500 | 0.0449 | | mg/Kg | | 90 | 67 - 122 | 2 | 20 |
| 1,2-Dibromoethane | 0.0500 | 0.0471 | | mg/Kg | | 94 | 80 - 123 | 1 | 20 |
| 1,2-Dichlorobenzene | 0.0500 | 0.0482 | | mg/Kg | | 96 | 80 - 120 | 3 | 20 |
| 1,2-Dichloroethane | 0.0500 | 0.0482 | | mg/Kg | | 96 | 80 - 125 | 3 | 20 |
| Benzene | 0.0500 | 0.0474 | | mg/Kg | | 95 | 79 - 120 | 2 | 20 |
| Carbon tetrachloride | 0.0500 | 0.0460 | | mg/Kg | | 92 | 69 - 132 | 4 | 20 |
| Chlorobenzene | 0.0500 | 0.0482 | | mg/Kg | | 96 | 80 - 120 | 3 | 20 |
| Ethylbenzene | 0.0500 | 0.0488 | | mg/Kg | | 98 | 80 - 120 | 1 | 20 |
| Methyl-t-Butyl Ether (MTBE) | 0.0500 | 0.0437 | | mg/Kg | | 87 | 68 - 120 | 1 | 20 |
| o-Xylene | 0.0500 | 0.0485 | | mg/Kg | | 97 | 79 - 120 | 1 | 20 |
| m,p-Xylene | 0.100 | 0.0950 | | mg/Kg | | 95 | 79 - 120 | 2 | 20 |
| Toluene | 0.0500 | 0.0491 | | mg/Kg | | 98 | 80 - 120 | 1 | 20 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 570-144782/5**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | | | 0.0500 | 0.0485 | | mg/Kg | | 97 | 80 - 121 | 1 | 20 |
| Vinyl chloride | | | 0.0500 | 0.0474 | | mg/Kg | | 95 | 66 - 128 | 3 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *80 - 142* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *99* | | *80 - 123* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* |

**Lab Sample ID: MB 570-145066/10**
**Matrix: Solid**
**Analysis Batch: 145066**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.050 | 0.015 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,1,1-Trichloroethane | ND | | 0.050 | 0.012 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.10 | 0.027 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | 0.023 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,1,2-Trichloroethane | ND | | 0.050 | 0.023 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,1-Dichloroethane | ND | | 0.050 | 0.014 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,1-Dichloroethene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,1-Dichloropropene | ND | | 0.10 | 0.019 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,2,3-Trichlorobenzene | ND | | 0.10 | 0.050 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,2,3-Trichloropropane | ND | | 0.10 | 0.021 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,2,4-Trichlorobenzene | ND | | 0.10 | 0.021 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,2,4-Trimethylbenzene | ND | | 0.10 | 0.030 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.50 | 0.34 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,2-Dibromoethane | ND | | 0.050 | 0.010 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,2-Dichlorobenzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,2-Dichloroethane | ND | | 0.050 | 0.014 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,2-Dichloropropane | ND | | 0.050 | 0.014 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,3,5-Trimethylbenzene | ND | | 0.10 | 0.030 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,3-Dichlorobenzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,3-Dichloropropane | ND | | 0.050 | 0.015 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.015 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 2,2-Dichloropropane | ND | | 0.25 | 0.014 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 2-Butanone | ND | | 1.0 | 0.23 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 2-Chlorotoluene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 2-Hexanone | ND | | 1.0 | 0.15 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 4-Chlorotoluene | ND | | 0.050 | 0.012 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 4-Methyl-2-pentanone | ND | | 1.0 | 0.15 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Acetone | ND | | 1.0 | 0.49 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Benzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Bromobenzene | ND | | 0.050 | 0.010 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Bromochloromethane | ND | | 0.10 | 0.022 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Bromodichloromethane | ND | | 0.050 | 0.0080 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Bromoform | ND | | 0.25 | 0.066 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Bromomethane | ND | | 1.0 | 0.33 | mg/Kg | | | 04/22/21 11:36 | 50 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-145066/10**
**Matrix: Solid**
**Analysis Batch: 145066**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ND | | 0.050 | 0.017 | mg/Kg | | | 04/22/21 11:36 | 50 |
| cis-1,3-Dichloropropene | ND | | 0.050 | 0.017 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Carbon disulfide | ND | | 0.50 | 0.020 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Carbon tetrachloride | ND | | 0.050 | 0.015 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Chlorobenzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Chloroethane | ND | | 0.10 | 0.075 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Chloroform | ND | | 0.050 | 0.029 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Chloromethane | ND | | 1.0 | 0.077 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Dibromochloromethane | ND | | 0.10 | 0.014 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Dibromomethane | ND | | 0.050 | 0.015 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Dichlorodifluoromethane | ND | | 0.10 | 0.023 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Ethylbenzene | ND | | 0.050 | 0.010 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Isopropylbenzene | ND | | 0.050 | 0.030 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Methylene Chloride | ND | | 0.50 | 0.16 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.10 | 0.0094 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Naphthalene | ND | | 0.50 | 0.26 | mg/Kg | | | 04/22/21 11:36 | 50 |
| n-Butylbenzene | ND | | 0.050 | 0.011 | mg/Kg | | | 04/22/21 11:36 | 50 |
| N-Propylbenzene | ND | | 0.10 | 0.030 | mg/Kg | | | 04/22/21 11:36 | 50 |
| o-Xylene | ND | | 0.050 | 0.030 | mg/Kg | | | 04/22/21 11:36 | 50 |
| m,p-Xylene | ND | | 0.10 | 0.024 | mg/Kg | | | 04/22/21 11:36 | 50 |
| p-Isopropyltoluene | ND | | 0.050 | 0.035 | mg/Kg | | | 04/22/21 11:36 | 50 |
| sec-Butylbenzene | ND | | 0.050 | 0.030 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Styrene | ND | | 0.050 | 0.035 | mg/Kg | | | 04/22/21 11:36 | 50 |
| trans-1,2-Dichloroethene | ND | | 0.050 | 0.015 | mg/Kg | | | 04/22/21 11:36 | 50 |
| trans-1,3-Dichloropropene | ND | | 0.10 | 0.014 | mg/Kg | | | 04/22/21 11:36 | 50 |
| tert-Butylbenzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Tetrachloroethene | ND | | 0.050 | 0.011 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Toluene | ND | | 0.050 | 0.030 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Trichloroethene | ND | | 0.10 | 0.019 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Trichlorofluoromethane | ND | | 0.50 | 0.014 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Vinyl acetate | ND | | 0.50 | 0.20 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Vinyl chloride | ND | | 0.050 | 0.019 | mg/Kg | | | 04/22/21 11:36 | 50 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *80 - 142* | | *04/22/21 11:36* | *50* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *80 - 120* | | *04/22/21 11:36* | *50* |
| *Dibromofluoromethane (Surr)* | *94* | | *80 - 123* | | *04/22/21 11:36* | *50* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | | *04/22/21 11:36* | *50* |

**Lab Sample ID: LCS 570-145066/4**
**Matrix: Solid**
**Analysis Batch: 145066**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.0500 | 0.0444 | | mg/Kg | | 89 | 67 - 122 |
| 1,2-Dibromoethane | 0.0500 | 0.0451 | | mg/Kg | | 90 | 80 - 123 |
| 1,2-Dichlorobenzene | 0.0500 | 0.0477 | | mg/Kg | | 95 | 80 - 120 |
| 1,2-Dichloroethane | 0.0500 | 0.0475 | | mg/Kg | | 95 | 80 - 125 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 570-145066/4**
**Matrix: Solid**
**Analysis Batch: 145066**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.0500 | 0.0455 | | mg/Kg | | 91 | 79 - 120 |
| Carbon tetrachloride | 0.0500 | 0.0458 | | mg/Kg | | 92 | 69 - 132 |
| Chlorobenzene | 0.0500 | 0.0481 | | mg/Kg | | 96 | 80 - 120 |
| Ethylbenzene | 0.0500 | 0.0473 | | mg/Kg | | 95 | 80 - 120 |
| Methyl-t-Butyl Ether (MTBE) | 0.0500 | 0.0432 | | mg/Kg | | 86 | 68 - 120 |
| o-Xylene | 0.0500 | 0.0476 | | mg/Kg | | 95 | 79 - 120 |
| m,p-Xylene | 0.100 | 0.0928 | | mg/Kg | | 93 | 79 - 120 |
| Toluene | 0.0500 | 0.0481 | | mg/Kg | | 96 | 80 - 120 |
| Trichloroethene | 0.0500 | 0.0472 | | mg/Kg | | 94 | 80 - 121 |
| Vinyl chloride | 0.0500 | 0.0502 | | mg/Kg | | 100 | 66 - 128 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *107* | | *80 - 142* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *101* | | *80 - 123* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* |

**Lab Sample ID: LCSD 570-145066/5**
**Matrix: Solid**
**Analysis Batch: 145066**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.0500 | 0.0448 | | mg/Kg | | 90 | 67 - 122 | 1 | 20 |
| 1,2-Dibromoethane | 0.0500 | 0.0458 | | mg/Kg | | 92 | 80 - 123 | 1 | 20 |
| 1,2-Dichlorobenzene | 0.0500 | 0.0483 | | mg/Kg | | 97 | 80 - 120 | 1 | 20 |
| 1,2-Dichloroethane | 0.0500 | 0.0494 | | mg/Kg | | 99 | 80 - 125 | 4 | 20 |
| Benzene | 0.0500 | 0.0472 | | mg/Kg | | 94 | 79 - 120 | 4 | 20 |
| Carbon tetrachloride | 0.0500 | 0.0459 | | mg/Kg | | 92 | 69 - 132 | 0 | 20 |
| Chlorobenzene | 0.0500 | 0.0475 | | mg/Kg | | 95 | 80 - 120 | 1 | 20 |
| Ethylbenzene | 0.0500 | 0.0477 | | mg/Kg | | 95 | 80 - 120 | 1 | 20 |
| Methyl-t-Butyl Ether (MTBE) | 0.0500 | 0.0440 | | mg/Kg | | 88 | 68 - 120 | 2 | 20 |
| o-Xylene | 0.0500 | 0.0471 | | mg/Kg | | 94 | 79 - 120 | 1 | 20 |
| m,p-Xylene | 0.100 | 0.0932 | | mg/Kg | | 93 | 79 - 120 | 0 | 20 |
| Toluene | 0.0500 | 0.0497 | | mg/Kg | | 99 | 80 - 120 | 3 | 20 |
| Trichloroethene | 0.0500 | 0.0486 | | mg/Kg | | 97 | 80 - 121 | 3 | 20 |
| Vinyl chloride | 0.0500 | 0.0515 | | mg/Kg | | 103 | 66 - 128 | 3 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *80 - 142* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *98* | | *80 - 123* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 570-144547/1-A**
**Matrix: Solid**
**Analysis Batch: 144872**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144547**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Anthracene | ND | | 0.50 | 0.051 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.080 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Chrysene | ND | | 0.50 | 0.068 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Fluorene | ND | | 0.50 | 0.067 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Naphthalene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *83* | | *10 - 134* | *04/20/21 10:32* | *04/21/21 12:41* | *1* |
| *2-Fluorobiphenyl (Surr)* | *83* | | *14 - 142* | *04/20/21 10:32* | *04/21/21 12:41* | *1* |
| *2-Fluorophenol (Surr)* | *74* | | *10 - 123* | *04/20/21 10:32* | *04/21/21 12:41* | *1* |
| *Nitrobenzene-d5 (Surr)* | *76* | | *10 - 129* | *04/20/21 10:32* | *04/21/21 12:41* | *1* |
| *Phenol-d6 (Surr)* | *70* | | *10 - 120* | *04/20/21 10:32* | *04/21/21 12:41* | *1* |
| *p-Terphenyl-d14 (Surr)* | *86* | | *31 - 139* | *04/20/21 10:32* | *04/21/21 12:41* | *1* |

**Lab Sample ID: LCS 570-144547/2-A**
**Matrix: Solid**
**Analysis Batch: 144872**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144547**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 5.00 | 4.61 | | mg/Kg | | 92 | 64 - 120 |
| Acenaphthylene | 5.00 | 4.99 | | mg/Kg | | 100 | 69 - 126 |
| Fluorene | 5.00 | 4.68 | | mg/Kg | | 94 | 68 - 120 |
| Naphthalene | 5.00 | 4.03 | | mg/Kg | | 81 | 66 - 120 |
| Pyrene | 5.00 | 4.65 | | mg/Kg | | 93 | 72 - 120 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *92* | | *10 - 134* |
| *2-Fluorobiphenyl (Surr)* | *84* | | *14 - 142* |
| *2-Fluorophenol (Surr)* | *77* | | *10 - 123* |
| *Nitrobenzene-d5 (Surr)* | *69* | | *10 - 129* |
| *Phenol-d6 (Surr)* | *73* | | *10 - 120* |
| *p-Terphenyl-d14 (Surr)* | *89* | | *31 - 139* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 570-144547/3-A**
**Matrix: Solid**
**Analysis Batch: 144872**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144547**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | | | 5.00 | 4.60 | | mg/Kg | | 92 | 64 - 120 | 0 | 20 |
| Acenaphthylene | | | 5.00 | 5.10 | | mg/Kg | | 102 | 69 - 126 | 2 | 20 |
| Fluorene | | | 5.00 | 4.77 | | mg/Kg | | 95 | 68 - 120 | 2 | 20 |
| Naphthalene | | | 5.00 | 4.09 | | mg/Kg | | 82 | 66 - 120 | 1 | 20 |
| Pyrene | | | 5.00 | 4.82 | | mg/Kg | | 96 | 72 - 120 | 4 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *93* | | *10 - 134* |
| *2-Fluorobiphenyl (Surr)* | *84* | | *14 - 142* |
| *2-Fluorophenol (Surr)* | *79* | | *10 - 123* |
| *Nitrobenzene-d5 (Surr)* | *70* | | *10 - 129* |
| *Phenol-d6 (Surr)* | *75* | | *10 - 120* |
| *p-Terphenyl-d14 (Surr)* | *92* | | *31 - 139* |

**Lab Sample ID: 570-56782-31 MS**
**Matrix: Solid**
**Analysis Batch: 144872**

**Client Sample ID: SB-3-10.0**
**Prep Type: Total/NA**
**Prep Batch: 144547**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 4.98 | 3.93 | | mg/Kg | | 79 | 51 - 125 |
| Acenaphthylene | ND | | 4.98 | 4.31 | | mg/Kg | | 87 | 54 - 125 |
| Fluorene | ND | | 4.98 | 3.97 | | mg/Kg | | 80 | 54 - 125 |
| Naphthalene | ND | | 4.98 | 3.54 | | mg/Kg | | 71 | 39 - 127 |
| Pyrene | ND | | 4.98 | 3.85 | | mg/Kg | | 77 | 56 - 125 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *73* | | *10 - 134* |
| *2-Fluorobiphenyl (Surr)* | *71* | | *14 - 142* |
| *2-Fluorophenol (Surr)* | *65* | | *10 - 123* |
| *Nitrobenzene-d5 (Surr)* | *60* | | *10 - 129* |
| *Phenol-d6 (Surr)* | *59* | | *10 - 120* |
| *p-Terphenyl-d14 (Surr)* | *71* | | *31 - 139* |

**Lab Sample ID: 570-56782-31 MSD**
**Matrix: Solid**
**Analysis Batch: 144872**

**Client Sample ID: SB-3-10.0**
**Prep Type: Total/NA**
**Prep Batch: 144547**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 4.97 | 3.88 | | mg/Kg | | 78 | 51 - 125 | 1 | 20 |
| Acenaphthylene | ND | | 4.97 | 4.22 | | mg/Kg | | 85 | 54 - 125 | 2 | 20 |
| Fluorene | ND | | 4.97 | 3.90 | | mg/Kg | | 79 | 54 - 125 | 2 | 20 |
| Naphthalene | ND | | 4.97 | 3.50 | | mg/Kg | | 70 | 39 - 127 | 1 | 20 |
| Pyrene | ND | | 4.97 | 3.88 | | mg/Kg | | 78 | 56 - 125 | 1 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *71* | | *10 - 134* |
| *2-Fluorobiphenyl (Surr)* | *71* | | *14 - 142* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 570-56782-31 MSD**
**Matrix: Solid**
**Analysis Batch: 144872**

**Client Sample ID: SB-3-10.0**
**Prep Type: Total/NA**
**Prep Batch: 144547**

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 2-Fluorophenol (Surr) | 64 | | 10 - 123 |
| Nitrobenzene-d5 (Surr) | 59 | | 10 - 129 |
| Phenol-d6 (Surr) | 60 | | 10 - 120 |
| p-Terphenyl-d14 (Surr) | 73 | | 31 - 139 |

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: MB 570-145050/32**
**Matrix: Solid**
**Analysis Batch: 145050**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 2.0 | 1.1 | mg/Kg | | | 04/22/21 02:56 | 20 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 77 | | 42 - 126 | | 04/22/21 02:56 | 20 |

**Lab Sample ID: LCS 570-145050/29**
**Matrix: Solid**
**Analysis Batch: 145050**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C4-C13) | 1.97 | 1.84 | | mg/Kg | | 94 | 70 - 124 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 95 | | 42 - 126 |

**Lab Sample ID: LCSD 570-145050/30**
**Matrix: Solid**
**Analysis Batch: 145050**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C4-C13) | 1.98 | 1.81 | | mg/Kg | | 91 | 70 - 124 | 2 | 18 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 95 | | 42 - 126 |

**Lab Sample ID: MB 570-145244/6**
**Matrix: Solid**
**Analysis Batch: 145244**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.10 | 0.055 | mg/Kg | | | 04/22/21 16:41 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 84 | | 42 - 126 | | 04/22/21 16:41 | 1 |

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: LCS 570-145244/3**
**Matrix: Solid**
**Analysis Batch: 145244**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C4-C13) | | | 1.98 | 1.80 | | mg/Kg | | 91 | 70 - 124 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *102* | | *42 - 126* |

**Lab Sample ID: LCSD 570-145244/4**
**Matrix: Solid**
**Analysis Batch: 145244**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C4-C13) | | | 1.97 | 1.98 | | mg/Kg | | 101 | 70 - 124 | 10 | 18 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *42 - 126* |

**Lab Sample ID: MB 570-145488/11**
**Matrix: Solid**
**Analysis Batch: 145488**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.098 | 0.055 | mg/Kg | | | 04/23/21 17:28 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *62* | | *42 - 126* | | *04/23/21 17:28* | *1* |

**Lab Sample ID: LCS 570-145488/9**
**Matrix: Solid**
**Analysis Batch: 145488**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C4-C13) | | | 1.96 | 1.91 | | mg/Kg | | 97 | 70 - 124 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *94* | | *42 - 126* |

**Lab Sample ID: LCSD 570-145488/10**
**Matrix: Solid**
**Analysis Batch: 145488**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C4-C13) | | | 1.97 | 1.87 | | mg/Kg | | 95 | 70 - 124 | 2 | 18 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *95* | | *42 - 126* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 570-144951/1-A**
**Matrix: Solid**
**Analysis Batch: 145005**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144951**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 5.0 | 3.8 | mg/Kg | | 04/21/21 14:37 | 04/21/21 23:56 | 1 |
| C23-C40 | ND | | 5.0 | 3.8 | mg/Kg | | 04/21/21 14:37 | 04/21/21 23:56 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *117* | | *60 - 138* | *04/21/21 14:37* | *04/21/21 23:56* | *1* |

**Lab Sample ID: LCS 570-144951/2-A**
**Matrix: Solid**
**Analysis Batch: 145005**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144951**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 400 | 414 | | mg/Kg | | 104 | 80 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane (Surr)* | *110* | | *60 - 138* |

**Lab Sample ID: LCSD 570-144951/3-A**
**Matrix: Solid**
**Analysis Batch: 145005**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144951**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 400 | 429 | | mg/Kg | | 107 | 80 - 130 | 4 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane (Surr)* | *120* | | *60 - 138* |

## Method: 8081A - Organochlorine Pesticides (GC)

**Lab Sample ID: MB 570-144549/1-A**
**Matrix: Solid**
**Analysis Batch: 145226**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144549**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.99 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.54 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| 4,4'-DDT | ND | | 5.0 | 0.36 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Endosulfan I | ND | | 5.0 | 0.44 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: MB 570-144549/1-A**
**Matrix: Solid**
**Analysis Batch: 145226**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144549**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Endrin ketone | ND | | 5.0 | 0.48 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.26 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Heptachlor | ND | | 5.0 | 0.89 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.67 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *95* | | *38 - 148* | *04/20/21 10:34* | *04/23/21 04:36* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *96* | | *37 - 151* | *04/20/21 10:34* | *04/23/21 04:36* | *1* |

**Lab Sample ID: LCS 570-144549/2-A**
**Matrix: Solid**
**Analysis Batch: 145226**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144549**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 25.0 | 22.4 | | ug/Kg | | 89 | 54 - 154 |
| 4,4'-DDE | 25.0 | 21.6 | | ug/Kg | | 86 | 51 - 149 |
| 4,4'-DDT | 25.0 | 24.4 | | ug/Kg | | 98 | 39 - 152 |
| Aldrin | 25.0 | 20.8 | | ug/Kg | | 83 | 52 - 138 |
| alpha-BHC | 25.0 | 22.2 | | ug/Kg | | 89 | 51 - 140 |
| alpha-Chlordane | 25.0 | 20.7 | | ug/Kg | | 83 | 53 - 141 |
| beta-BHC | 25.0 | 23.0 | | ug/Kg | | 92 | 53 - 141 |
| delta-BHC | 25.0 | 21.9 | | ug/Kg | | 87 | 20 - 132 |
| Dieldrin | 25.0 | 20.9 | | ug/Kg | | 84 | 52 - 144 |
| Endosulfan I | 25.0 | 20.7 | | ug/Kg | | 83 | 49 - 139 |
| Endosulfan II | 25.0 | 20.8 | | ug/Kg | | 83 | 51 - 150 |
| Endosulfan sulfate | 25.0 | 21.7 | | ug/Kg | | 87 | 45 - 139 |
| Endrin | 25.0 | 23.2 | | ug/Kg | | 93 | 53 - 151 |
| Endrin aldehyde | 25.0 | 21.1 | | ug/Kg | | 84 | 31 - 146 |
| gamma-Chlordane | 25.0 | 20.8 | p | ug/Kg | | 83 | 46 - 156 |
| gamma-BHC | 25.0 | 21.9 | | ug/Kg | | 88 | 53 - 141 |
| Heptachlor | 25.0 | 22.1 | | ug/Kg | | 89 | 52 - 144 |
| Heptachlor epoxide | 25.0 | 21.3 | | ug/Kg | | 85 | 54 - 141 |
| Methoxychlor | 25.0 | 24.7 | | ug/Kg | | 99 | 47 - 148 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *91* | | *38 - 148* |
| *DCB Decachlorobiphenyl (Surr)* | *91* | | *37 - 151* |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: LCSD 570-144549/3-A**
**Matrix: Solid**
**Analysis Batch: 145226**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144549**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | | | 25.0 | 23.0 | | ug/Kg | | 92 | 54 - 154 | 3 | 30 |
| 4,4'-DDE | | | 25.0 | 22.4 | | ug/Kg | | 90 | 51 - 149 | 4 | 28 |
| 4,4'-DDT | | | 25.0 | 24.9 | | ug/Kg | | 100 | 39 - 152 | 2 | 31 |
| Aldrin | | | 25.0 | 21.1 | | ug/Kg | | 84 | 52 - 138 | 2 | 30 |
| alpha-BHC | | | 25.0 | 22.5 | | ug/Kg | | 90 | 51 - 140 | 2 | 29 |
| alpha-Chlordane | | | 25.0 | 21.2 | | ug/Kg | | 85 | 53 - 141 | 2 | 28 |
| beta-BHC | | | 25.0 | 23.3 | | ug/Kg | | 93 | 53 - 141 | 1 | 29 |
| delta-BHC | | | 25.0 | 22.3 | | ug/Kg | | 89 | 20 - 132 | 2 | 40 |
| Dieldrin | | | 25.0 | 21.3 | | ug/Kg | | 85 | 52 - 144 | 2 | 28 |
| Endosulfan I | | | 25.0 | 21.1 | | ug/Kg | | 85 | 49 - 139 | 2 | 28 |
| Endosulfan II | | | 25.0 | 21.3 | | ug/Kg | | 85 | 51 - 150 | 3 | 29 |
| Endosulfan sulfate | | | 25.0 | 22.2 | | ug/Kg | | 89 | 45 - 139 | 2 | 30 |
| Endrin | | | 25.0 | 23.5 | | ug/Kg | | 94 | 53 - 151 | 1 | 29 |
| Endrin aldehyde | | | 25.0 | 21.7 | | ug/Kg | | 87 | 31 - 146 | 3 | 40 |
| gamma-Chlordane | | | 25.0 | 21.2 | p | ug/Kg | | 85 | 46 - 156 | 2 | 39 |
| gamma-BHC | | | 25.0 | 22.3 | | ug/Kg | | 89 | 53 - 141 | 2 | 29 |
| Heptachlor | | | 25.0 | 22.5 | | ug/Kg | | 90 | 52 - 144 | 2 | 29 |
| Heptachlor epoxide | | | 25.0 | 21.7 | | ug/Kg | | 87 | 54 - 141 | 2 | 29 |
| Methoxychlor | | | 25.0 | 25.3 | | ug/Kg | | 101 | 47 - 148 | 3 | 29 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *92* | | *38 - 148* |
| *DCB Decachlorobiphenyl (Surr)* | *93* | | *37 - 151* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 570-144979/1-A**
**Matrix: Solid**
**Analysis Batch: 145103**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144979**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 13:03 | 1 |
| Aroclor-1221 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 13:03 | 1 |
| Aroclor-1232 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 13:03 | 1 |
| Aroclor-1242 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 13:03 | 1 |
| Aroclor-1248 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 13:03 | 1 |
| Aroclor-1254 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 13:03 | 1 |
| Aroclor-1260 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 13:03 | 1 |
| Aroclor-1262 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 13:03 | 1 |
| Aroclor-1268 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 13:03 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *76* | | *25 - 126* | *04/21/21 15:57* | *04/22/21 13:03* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *92* | | *20 - 155* | *04/21/21 15:57* | *04/22/21 13:03* | *1* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: LCS 570-144979/2-A**
**Matrix: Solid**
**Analysis Batch: 145103**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144979**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | | | 20.0 | 21.5 | | ug/Kg | | 107 | 50 - 142 | | |
| Aroclor-1260 | | | 20.0 | 22.1 | | ug/Kg | | 111 | 50 - 150 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *72* | | *25 - 126* |
| *DCB Decachlorobiphenyl (Surr)* | *77* | | *20 - 155* |

**Lab Sample ID: LCSD 570-144979/3-A**
**Matrix: Solid**
**Analysis Batch: 145103**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144979**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | | | 20.0 | 26.3 | | ug/Kg | | 132 | 50 - 142 | 20 | 30 |
| Aroclor-1260 | | | 20.0 | 24.7 | | ug/Kg | | 123 | 50 - 150 | 11 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *81* | | *25 - 126* |
| *DCB Decachlorobiphenyl (Surr)* | *93* | | *20 - 155* |

**Lab Sample ID: 570-56782-42 MS**
**Matrix: Solid**
**Analysis Batch: 145103**

**Client Sample ID: SSD-6-3.0**
**Prep Type: Total/NA**
**Prep Batch: 144979**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 20.0 | 26.4 | | ug/Kg | | 132 | 20 - 175 | | |
| Aroclor-1260 | ND | | 20.0 | 28.5 | | ug/Kg | | 143 | 20 - 180 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *76* | | *25 - 126* |
| *DCB Decachlorobiphenyl (Surr)* | *93* | | *20 - 155* |

**Lab Sample ID: 570-56782-42 MSD**
**Matrix: Solid**
**Analysis Batch: 145103**

**Client Sample ID: SSD-6-3.0**
**Prep Type: Total/NA**
**Prep Batch: 144979**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 19.9 | 24.0 | | ug/Kg | | 121 | 20 - 175 | 10 | 40 |
| Aroclor-1260 | ND | | 19.9 | 26.8 | | ug/Kg | | 135 | 20 - 180 | 6 | 40 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *67* | | *25 - 126* |
| *DCB Decachlorobiphenyl (Surr)* | *93* | | *20 - 155* |

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 570-144125/1-A**
**Matrix: Solid**
**Analysis Batch: 145179**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144125**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | | 5.0 | 0.96 | mg/Kg | | 04/17/21 16:00 | 04/21/21 18:40 | 1 |

**Lab Sample ID: LCS 570-144125/2-A**
**Matrix: Solid**
**Analysis Batch: 145179**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144125**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Lead | 24.8 | 24.7 | | mg/Kg | | 100 | 80 - 120 |

**Lab Sample ID: LCSD 570-144125/3-A**
**Matrix: Solid**
**Analysis Batch: 145179**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144125**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 25.4 | 25.7 | | mg/Kg | | 101 | 80 - 120 | 4 | 20 |

**Lab Sample ID: 570-56782-1 MS**
**Matrix: Solid**
**Analysis Batch: 145179**

**Client Sample ID: SSD-19-4.0**
**Prep Type: Total/NA**
**Prep Batch: 144125**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 97 | F1 | 24.3 | 263 | F1 | mg/Kg | | 684 | 75 - 125 |

**Lab Sample ID: 570-56782-1 MSD**
**Matrix: Solid**
**Analysis Batch: 145179**

**Client Sample ID: SSD-19-4.0**
**Prep Type: Total/NA**
**Prep Batch: 144125**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 97 | F1 | 25.9 | 287 | F1 | mg/Kg | | 734 | 75 - 125 | 9 | 20 |

**Lab Sample ID: 570-56782-22 MS**
**Matrix: Solid**
**Analysis Batch: 145179**

**Client Sample ID: SSD-9-4.0**
**Prep Type: Total/NA**
**Prep Batch: 144129**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 80 | F1 | 25.5 | 96.0 | F1 | mg/Kg | | 63 | 75 - 125 |

**Lab Sample ID: 570-56782-22 MSD**
**Matrix: Solid**
**Analysis Batch: 145179**

**Client Sample ID: SSD-9-4.0**
**Prep Type: Total/NA**
**Prep Batch: 144129**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 80 | F1 | 24.8 | 92.7 | F1 | mg/Kg | | 52 | 75 - 125 | 3 | 20 |

**Lab Sample ID: MB 570-144950/1-A**
**Matrix: Solid**
**Analysis Batch: 145331**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144950**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | | 4.9 | 0.95 | mg/Kg | | 04/21/21 15:00 | 04/22/21 16:51 | 1 |

## Method: 6010B - Metals (ICP)

**Lab Sample ID: LCS 570-144950/2-A**
**Matrix: Solid**
**Analysis Batch: 145331**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144950**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | | | 25.4 | 26.6 | | mg/Kg | | 105 | 80 - 120 | | |

**Lab Sample ID: LCSD 570-144950/3-A**
**Matrix: Solid**
**Analysis Batch: 145331**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144950**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | | | 25.3 | 27.0 | | mg/Kg | | 107 | 80 - 120 | 2 | 20 |

**Lab Sample ID: 570-56782-47 MS**
**Matrix: Solid**
**Analysis Batch: 145331**

**Client Sample ID: SSD-4-4.0**
**Prep Type: Total/NA**
**Prep Batch: 144950**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 100 | | 24.3 | 116 | 4 | mg/Kg | | 61 | 75 - 125 | | |

**Lab Sample ID: 570-56782-47 MSD**
**Matrix: Solid**
**Analysis Batch: 145331**

**Client Sample ID: SSD-4-4.0**
**Prep Type: Total/NA**
**Prep Batch: 144950**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 100 | | 24.4 | 120 | 4 | mg/Kg | | 76 | 75 - 125 | 3 | 20 |

**Lab Sample ID: MB 570-144964/1-A**
**Matrix: Solid**
**Analysis Batch: 145216**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144964**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | | 5.0 | 0.96 | mg/Kg | | 04/21/21 16:00 | 04/22/21 18:20 | 1 |

**Lab Sample ID: LCS 570-144964/2-A**
**Matrix: Solid**
**Analysis Batch: 145216**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144964**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | | | 24.9 | 24.0 | | mg/Kg | | 96 | 80 - 120 | | |

**Lab Sample ID: LCSD 570-144964/3-A**
**Matrix: Solid**
**Analysis Batch: 145216**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144964**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | | | 25.1 | 24.0 | | mg/Kg | | 95 | 80 - 120 | 0 | 20 |

**Lab Sample ID: 570-56782-75 MS**
**Matrix: Solid**
**Analysis Batch: 145216**

**Client Sample ID: SSD-20-1.0**
**Prep Type: Total/NA**
**Prep Batch: 144964**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 2100 | | 24.6 | 2910 | 4 | mg/Kg | | 3378 | 75 - 125 | | |

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Method: 6010B - Metals (ICP)

**Lab Sample ID: 570-56782-75 MSD**
**Client Sample ID: SSD-20-1.0**
**Matrix: Solid**
**Prep Type: Total/NA**
**Analysis Batch: 145216**
**Prep Batch: 144964**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 2100 | | 24.0 | 2870 | 4 | mg/Kg | | 3315 | 75 - 125 | 1 | 20 |

## GC/MS VOA

### Prep Batch: 144584

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-31 | SB-3-10.0 | Total/NA | Solid | 5035 | |
| 570-56782-32 | SB-3-15.0 | Total/NA | Solid | 5035 | |
| 570-56782-33 | SB-4-10.0 | Total/NA | Solid | 5035 | |
| 570-56782-34 | SB-4-15.0 | Total/NA | Solid | 5035 | |
| 570-56782-62 | G-15-C-15.0 | Total/NA | Solid | 5035 | |
| 570-56782-66 | G-17-C-15.0 | Total/NA | Solid | 5035 | |
| 570-56782-70 | SW-4/MW-14-C-15.0 | Total/NA | Solid | 5035 | |

### Prep Batch: 144585

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-61 | G-15-C-10.0 | Total/NA | Solid | 5035 | |
| 570-56782-63 | G-16-C-10.0 | Total/NA | Solid | 5035 | |
| 570-56782-63 - DL | G-16-C-10.0 | Total/NA | Solid | 5035 | |
| 570-56782-65 | G-17-C-10.0 | Total/NA | Solid | 5035 | |
| 570-56782-67 | SW-3-C-10.0 | Total/NA | Solid | 5035 | |
| 570-56782-68 | SW-3-C-15.0 | Total/NA | Solid | 5035 | |
| 570-56782-69 | SW-4/MW-14-C-10.0 | Total/NA | Solid | 5035 | |

### Analysis Batch: 144782

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-31 | SB-3-10.0 | Total/NA | Solid | 8260B | 144584 |
| 570-56782-32 | SB-3-15.0 | Total/NA | Solid | 8260B | 144584 |
| 570-56782-33 | SB-4-10.0 | Total/NA | Solid | 8260B | 144584 |
| 570-56782-34 | SB-4-15.0 | Total/NA | Solid | 8260B | 144584 |
| 570-56782-61 | G-15-C-10.0 | Total/NA | Solid | 8260B | 144585 |
| 570-56782-62 | G-15-C-15.0 | Total/NA | Solid | 8260B | 144584 |
| 570-56782-63 | G-16-C-10.0 | Total/NA | Solid | 8260B | 144585 |
| 570-56782-65 | G-17-C-10.0 | Total/NA | Solid | 8260B | 144585 |
| 570-56782-66 | G-17-C-15.0 | Total/NA | Solid | 8260B | 144584 |
| 570-56782-67 | SW-3-C-10.0 | Total/NA | Solid | 8260B | 144585 |
| 570-56782-68 | SW-3-C-15.0 | Total/NA | Solid | 8260B | 144585 |
| 570-56782-69 | SW-4/MW-14-C-10.0 | Total/NA | Solid | 8260B | 144585 |
| 570-56782-70 | SW-4/MW-14-C-15.0 | Total/NA | Solid | 8260B | 144584 |
| MB 570-144782/7 | Method Blank | Total/NA | Solid | 8260B | |
| MB 570-144782/8 | Method Blank | Total/NA | Solid | 8260B | |
| LCS 570-144782/4 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 570-144782/5 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |

### Analysis Batch: 145066

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-63 - DL | G-16-C-10.0 | Total/NA | Solid | 8260B | 144585 |
| MB 570-145066/10 | Method Blank | Total/NA | Solid | 8260B | |
| LCS 570-145066/4 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 570-145066/5 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |

## GC/MS Semi VOA

### Prep Batch: 144547

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-31 | SB-3-10.0 | Total/NA | Solid | 3546 | |
| 570-56782-33 | SB-4-10.0 | Total/NA | Solid | 3546 | |

## GC/MS Semi VOA (Continued)

### Prep Batch: 144547 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-61 | G-15-C-10.0 | Total/NA | Solid | 3546 | |
| 570-56782-63 - DL | G-16-C-10.0 | Total/NA | Solid | 3546 | |
| 570-56782-63 | G-16-C-10.0 | Total/NA | Solid | 3546 | |
| 570-56782-65 | G-17-C-10.0 | Total/NA | Solid | 3546 | |
| 570-56782-67 - DL | SW-3-C-10.0 | Total/NA | Solid | 3546 | |
| 570-56782-67 | SW-3-C-10.0 | Total/NA | Solid | 3546 | |
| 570-56782-69 | SW-4/MW-14-C-10.0 | Total/NA | Solid | 3546 | |
| MB 570-144547/1-A | Method Blank | Total/NA | Solid | 3546 | |
| LCS 570-144547/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| LCSD 570-144547/3-A | Lab Control Sample Dup | Total/NA | Solid | 3546 | |
| 570-56782-31 MS | SB-3-10.0 | Total/NA | Solid | 3546 | |
| 570-56782-31 MSD | SB-3-10.0 | Total/NA | Solid | 3546 | |

### Analysis Batch: 144872

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-31 | SB-3-10.0 | Total/NA | Solid | 8270C | 144547 |
| 570-56782-33 | SB-4-10.0 | Total/NA | Solid | 8270C | 144547 |
| 570-56782-61 | G-15-C-10.0 | Total/NA | Solid | 8270C | 144547 |
| 570-56782-63 | G-16-C-10.0 | Total/NA | Solid | 8270C | 144547 |
| 570-56782-63 - DL | G-16-C-10.0 | Total/NA | Solid | 8270C | 144547 |
| 570-56782-65 | G-17-C-10.0 | Total/NA | Solid | 8270C | 144547 |
| 570-56782-67 | SW-3-C-10.0 | Total/NA | Solid | 8270C | 144547 |
| 570-56782-67 - DL | SW-3-C-10.0 | Total/NA | Solid | 8270C | 144547 |
| MB 570-144547/1-A | Method Blank | Total/NA | Solid | 8270C | 144547 |
| LCS 570-144547/2-A | Lab Control Sample | Total/NA | Solid | 8270C | 144547 |
| LCSD 570-144547/3-A | Lab Control Sample Dup | Total/NA | Solid | 8270C | 144547 |
| 570-56782-31 MS | SB-3-10.0 | Total/NA | Solid | 8270C | 144547 |
| 570-56782-31 MSD | SB-3-10.0 | Total/NA | Solid | 8270C | 144547 |

### Analysis Batch: 145212

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-69 | SW-4/MW-14-C-10.0 | Total/NA | Solid | 8270C | 144547 |
| 570-56782-69 | SW-4/MW-14-C-10.0 | Total/NA | Solid | 8270C | 144547 |

## GC VOA

### Prep Batch: 144584

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-31 | SB-3-10.0 | Total/NA | Solid | 5035 | |
| 570-56782-32 | SB-3-15.0 | Total/NA | Solid | 5035 | |
| 570-56782-33 | SB-4-10.0 | Total/NA | Solid | 5035 | |
| 570-56782-34 | SB-4-15.0 | Total/NA | Solid | 5035 | |
| 570-56782-62 | G-15-C-15.0 | Total/NA | Solid | 5035 | |
| 570-56782-66 | G-17-C-15.0 | Total/NA | Solid | 5035 | |
| 570-56782-70 | SW-4/MW-14-C-15.0 | Total/NA | Solid | 5035 | |

### Prep Batch: 144585

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-61 | G-15-C-10.0 | Total/NA | Solid | 5035 | |
| 570-56782-63 | G-16-C-10.0 | Total/NA | Solid | 5035 | |
| 570-56782-65 | G-17-C-10.0 | Total/NA | Solid | 5035 | |

## GC VOA (Continued)

### Prep Batch: 144585 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-67 | SW-3-C-10.0 | Total/NA | Solid | 5035 | |
| 570-56782-68 | SW-3-C-15.0 | Total/NA | Solid | 5035 | |
| 570-56782-69 | SW-4/MW-14-C-10.0 | Total/NA | Solid | 5035 | |

### Analysis Batch: 145050

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-61 | G-15-C-10.0 | Total/NA | Solid | 8015B | 144585 |
| 570-56782-63 | G-16-C-10.0 | Total/NA | Solid | 8015B | 144585 |
| 570-56782-65 | G-17-C-10.0 | Total/NA | Solid | 8015B | 144585 |
| 570-56782-67 | SW-3-C-10.0 | Total/NA | Solid | 8015B | 144585 |
| 570-56782-68 | SW-3-C-15.0 | Total/NA | Solid | 8015B | 144585 |
| 570-56782-69 | SW-4/MW-14-C-10.0 | Total/NA | Solid | 8015B | 144585 |
| MB 570-145050/32 | Method Blank | Total/NA | Solid | 8015B | |
| LCS 570-145050/29 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 570-145050/30 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |

### Analysis Batch: 145244

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-31 | SB-3-10.0 | Total/NA | Solid | 8015B | 144584 |
| 570-56782-32 | SB-3-15.0 | Total/NA | Solid | 8015B | 144584 |
| 570-56782-33 | SB-4-10.0 | Total/NA | Solid | 8015B | 144584 |
| 570-56782-34 | SB-4-15.0 | Total/NA | Solid | 8015B | 144584 |
| 570-56782-66 | G-17-C-15.0 | Total/NA | Solid | 8015B | 144584 |
| 570-56782-70 | SW-4/MW-14-C-15.0 | Total/NA | Solid | 8015B | 144584 |
| MB 570-145244/6 | Method Blank | Total/NA | Solid | 8015B | |
| LCS 570-145244/3 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 570-145244/4 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |

### Analysis Batch: 145488

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-62 | G-15-C-15.0 | Total/NA | Solid | 8015B | 144584 |
| MB 570-145488/11 | Method Blank | Total/NA | Solid | 8015B | |
| LCS 570-145488/9 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 570-145488/10 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |

## GC Semi VOA

### Prep Batch: 144549

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-2 | SSD-19-0.0 | Total/NA | Solid | 3546 | |
| 570-56782-39 | SSD-6-0.0 | Total/NA | Solid | 3546 | |
| 570-56782-39 - DL | SSD-6-0.0 | Total/NA | Solid | 3546 | |
| 570-56782-40 | SSD-6-1.0 | Total/NA | Solid | 3546 | |
| 570-56782-41 | SSD-6-2.0 | Total/NA | Solid | 3546 | |
| 570-56782-42 | SSD-6-3.0 | Total/NA | Solid | 3546 | |
| MB 570-144549/1-A | Method Blank | Total/NA | Solid | 3546 | |
| LCS 570-144549/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| LCSD 570-144549/3-A | Lab Control Sample Dup | Total/NA | Solid | 3546 | |

## GC Semi VOA

### Prep Batch: 144951

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-31 | SB-3-10.0 | Total/NA | Solid | 3550C | |
| 570-56782-33 | SB-4-10.0 | Total/NA | Solid | 3550C | |
| 570-56782-61 | G-15-C-10.0 | Total/NA | Solid | 3550C | |
| 570-56782-63 | G-16-C-10.0 | Total/NA | Solid | 3550C | |
| 570-56782-65 | G-17-C-10.0 | Total/NA | Solid | 3550C | |
| 570-56782-66 | G-17-C-15.0 | Total/NA | Solid | 3550C | |
| 570-56782-67 | SW-3-C-10.0 | Total/NA | Solid | 3550C | |
| 570-56782-69 | SW-4/MW-14-C-10.0 | Total/NA | Solid | 3550C | |
| MB 570-144951/1-A | Method Blank | Total/NA | Solid | 3550C | |
| LCS 570-144951/2-A | Lab Control Sample | Total/NA | Solid | 3550C | |
| LCSD 570-144951/3-A | Lab Control Sample Dup | Total/NA | Solid | 3550C | |

### Prep Batch: 144979

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-2 | SSD-19-0.0 | Total/NA | Solid | 3541 | |
| 570-56782-39 - DL | SSD-6-0.0 | Total/NA | Solid | 3541 | |
| 570-56782-39 | SSD-6-0.0 | Total/NA | Solid | 3541 | |
| 570-56782-40 | SSD-6-1.0 | Total/NA | Solid | 3541 | |
| 570-56782-41 | SSD-6-2.0 | Total/NA | Solid | 3541 | |
| 570-56782-42 | SSD-6-3.0 | Total/NA | Solid | 3541 | |
| MB 570-144979/1-A | Method Blank | Total/NA | Solid | 3541 | |
| LCS 570-144979/2-A | Lab Control Sample | Total/NA | Solid | 3541 | |
| LCSD 570-144979/3-A | Lab Control Sample Dup | Total/NA | Solid | 3541 | |
| 570-56782-42 MS | SSD-6-3.0 | Total/NA | Solid | 3541 | |
| 570-56782-42 MSD | SSD-6-3.0 | Total/NA | Solid | 3541 | |

### Analysis Batch: 145005

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 570-144951/1-A | Method Blank | Total/NA | Solid | 8015B | 144951 |
| LCS 570-144951/2-A | Lab Control Sample | Total/NA | Solid | 8015B | 144951 |
| LCSD 570-144951/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B | 144951 |

### Analysis Batch: 145103

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-2 | SSD-19-0.0 | Total/NA | Solid | 8082 | 144979 |
| 570-56782-39 | SSD-6-0.0 | Total/NA | Solid | 8082 | 144979 |
| 570-56782-39 - DL | SSD-6-0.0 | Total/NA | Solid | 8082 | 144979 |
| 570-56782-40 | SSD-6-1.0 | Total/NA | Solid | 8082 | 144979 |
| 570-56782-41 | SSD-6-2.0 | Total/NA | Solid | 8082 | 144979 |
| 570-56782-42 | SSD-6-3.0 | Total/NA | Solid | 8082 | 144979 |
| MB 570-144979/1-A | Method Blank | Total/NA | Solid | 8082 | 144979 |
| LCS 570-144979/2-A | Lab Control Sample | Total/NA | Solid | 8082 | 144979 |
| LCSD 570-144979/3-A | Lab Control Sample Dup | Total/NA | Solid | 8082 | 144979 |
| 570-56782-42 MS | SSD-6-3.0 | Total/NA | Solid | 8082 | 144979 |
| 570-56782-42 MSD | SSD-6-3.0 | Total/NA | Solid | 8082 | 144979 |

### Analysis Batch: 145226

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-2 | SSD-19-0.0 | Total/NA | Solid | 8081A | 144549 |
| 570-56782-39 | SSD-6-0.0 | Total/NA | Solid | 8081A | 144549 |
| 570-56782-40 | SSD-6-1.0 | Total/NA | Solid | 8081A | 144549 |

## GC Semi VOA (Continued)

### Analysis Batch: 145226 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-41 | SSD-6-2.0 | Total/NA | Solid | 8081A | 144549 |
| 570-56782-42 | SSD-6-3.0 | Total/NA | Solid | 8081A | 144549 |
| MB 570-144549/1-A | Method Blank | Total/NA | Solid | 8081A | 144549 |
| LCS 570-144549/2-A | Lab Control Sample | Total/NA | Solid | 8081A | 144549 |
| LCSD 570-144549/3-A | Lab Control Sample Dup | Total/NA | Solid | 8081A | 144549 |

### Analysis Batch: 145251

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-31 | SB-3-10.0 | Total/NA | Solid | 8015B | 144951 |
| 570-56782-33 | SB-4-10.0 | Total/NA | Solid | 8015B | 144951 |
| 570-56782-61 | G-15-C-10.0 | Total/NA | Solid | 8015B | 144951 |
| 570-56782-63 | G-16-C-10.0 | Total/NA | Solid | 8015B | 144951 |
| 570-56782-65 | G-17-C-10.0 | Total/NA | Solid | 8015B | 144951 |
| 570-56782-66 | G-17-C-15.0 | Total/NA | Solid | 8015B | 144951 |
| 570-56782-67 | SW-3-C-10.0 | Total/NA | Solid | 8015B | 144951 |
| 570-56782-69 | SW-4/MW-14-C-10.0 | Total/NA | Solid | 8015B | 144951 |

### Analysis Batch: 145428

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-39 - DL | SSD-6-0.0 | Total/NA | Solid | 8081A | 144549 |

## Metals

### Prep Batch: 144125

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-1 | SSD-19-4.0 | Total/NA | Solid | 3050B | |
| 570-56782-3 | SSD-18-1.0 | Total/NA | Solid | 3050B | |
| 570-56782-4 | SSD-18-2.0 | Total/NA | Solid | 3050B | |
| 570-56782-5 | SSD-18-3.0 | Total/NA | Solid | 3050B | |
| 570-56782-6 | SSD-18-4.0 | Total/NA | Solid | 3050B | |
| 570-56782-7 | SSD-14-1.0 | Total/NA | Solid | 3050B | |
| 570-56782-8 | SSD-14-2.0 | Total/NA | Solid | 3050B | |
| 570-56782-9 | SSD-14-3.0 | Total/NA | Solid | 3050B | |
| 570-56782-10 | SSD-14-4.0 | Total/NA | Solid | 3050B | |
| 570-56782-11 | SSD-13-1.0 | Total/NA | Solid | 3050B | |
| 570-56782-12 | SSD-13-2.0 | Total/NA | Solid | 3050B | |
| 570-56782-13 | SSD-13-3.0 | Total/NA | Solid | 3050B | |
| 570-56782-14 | SSD-13-4.0 | Total/NA | Solid | 3050B | |
| 570-56782-15 | SSD-10-1.0 | Total/NA | Solid | 3050B | |
| 570-56782-16 | SSD-10-2.0 | Total/NA | Solid | 3050B | |
| 570-56782-17 | SSD-10-3.0 | Total/NA | Solid | 3050B | |
| 570-56782-18 | SSD-10-4.0 | Total/NA | Solid | 3050B | |
| 570-56782-19 | SSD-9-1.0 | Total/NA | Solid | 3050B | |
| 570-56782-20 | SSD-9-2.0 | Total/NA | Solid | 3050B | |
| 570-56782-21 | SSD-9-3.0 | Total/NA | Solid | 3050B | |
| MB 570-144125/1-A | Method Blank | Total/NA | Solid | 3050B | |
| LCS 570-144125/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| LCSD 570-144125/3-A | Lab Control Sample Dup | Total/NA | Solid | 3050B | |
| 570-56782-1 MS | SSD-19-4.0 | Total/NA | Solid | 3050B | |
| 570-56782-1 MSD | SSD-19-4.0 | Total/NA | Solid | 3050B | |

## Metals

### Prep Batch: 144129

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-22 | SSD-9-4.0 | Total/NA | Solid | 3050B | |
| 570-56782-23 | SSD-8-1.0 | Total/NA | Solid | 3050B | |
| 570-56782-24 | SSD-8-2.0 | Total/NA | Solid | 3050B | |
| 570-56782-25 | SSD-8-3.0 | Total/NA | Solid | 3050B | |
| 570-56782-26 | SSD-8-4.0 | Total/NA | Solid | 3050B | |
| 570-56782-27 | SSD-7-1.0 | Total/NA | Solid | 3050B | |
| 570-56782-28 | SSD-7-2.0 | Total/NA | Solid | 3050B | |
| 570-56782-29 | SSD-7-3.0 | Total/NA | Solid | 3050B | |
| 570-56782-30 | SSD-7-4.0 | Total/NA | Solid | 3050B | |
| 570-56782-35 | SSD-5-1.0 | Total/NA | Solid | 3050B | |
| 570-56782-36 | SSD-5-2.0 | Total/NA | Solid | 3050B | |
| 570-56782-37 | SSD-5-3.0 | Total/NA | Solid | 3050B | |
| 570-56782-38 | SSD-5-4.0 | Total/NA | Solid | 3050B | |
| 570-56782-40 | SSD-6-1.0 | Total/NA | Solid | 3050B | |
| 570-56782-41 | SSD-6-2.0 | Total/NA | Solid | 3050B | |
| 570-56782-42 | SSD-6-3.0 | Total/NA | Solid | 3050B | |
| 570-56782-43 | SSD-6-4.0 | Total/NA | Solid | 3050B | |
| 570-56782-44 | SSD-4-1.0 | Total/NA | Solid | 3050B | |
| 570-56782-45 | SSD-4-2.0 | Total/NA | Solid | 3050B | |
| 570-56782-46 | SSD-4-3.0 | Total/NA | Solid | 3050B | |
| 570-56782-22 MS | SSD-9-4.0 | Total/NA | Solid | 3050B | |
| 570-56782-22 MSD | SSD-9-4.0 | Total/NA | Solid | 3050B | |

### Prep Batch: 144950

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-47 | SSD-4-4.0 | Total/NA | Solid | 3050B | |
| 570-56782-48 | SSD-3-1.0 | Total/NA | Solid | 3050B | |
| 570-56782-49 | SSD-3-2.0 | Total/NA | Solid | 3050B | |
| 570-56782-50 | SSD-3-3.0 | Total/NA | Solid | 3050B | |
| 570-56782-51 | SSD-3-4.0 | Total/NA | Solid | 3050B | |
| 570-56782-52 | SSD-2-1.0 | Total/NA | Solid | 3050B | |
| 570-56782-53 | SSD-2-2.0 | Total/NA | Solid | 3050B | |
| 570-56782-54 | SSD-2-3.0 | Total/NA | Solid | 3050B | |
| 570-56782-55 | SSD-2-4.0 | Total/NA | Solid | 3050B | |
| 570-56782-56 | SSD-1-1.0 | Total/NA | Solid | 3050B | |
| 570-56782-57 | SSD-1-2.0 | Total/NA | Solid | 3050B | |
| 570-56782-58 | SSD-1-3.0 | Total/NA | Solid | 3050B | |
| 570-56782-59 | SSD-1-4.0 | Total/NA | Solid | 3050B | |
| 570-56782-60 | SSD-29-1.0 | Total/NA | Solid | 3050B | |
| 570-56782-65 | G-17-C-10.0 | Total/NA | Solid | 3050B | |
| 570-56782-66 | G-17-C-15.0 | Total/NA | Solid | 3050B | |
| 570-56782-71 | SSD-29-2.0 | Total/NA | Solid | 3050B | |
| 570-56782-72 | SSD-29-3.0 | Total/NA | Solid | 3050B | |
| 570-56782-73 | SSD-29-3.5 | Total/NA | Solid | 3050B | |
| 570-56782-74 | SSD-29-4.0 | Total/NA | Solid | 3050B | |
| MB 570-144950/1-A | Method Blank | Total/NA | Solid | 3050B | |
| LCS 570-144950/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| LCSD 570-144950/3-A | Lab Control Sample Dup | Total/NA | Solid | 3050B | |
| 570-56782-47 MS | SSD-4-4.0 | Total/NA | Solid | 3050B | |
| 570-56782-47 MSD | SSD-4-4.0 | Total/NA | Solid | 3050B | |

## Metals

### Prep Batch: 144964

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-75 | SSD-20-1.0 | Total/NA | Solid | 3050B | |
| 570-56782-76 | SSD-20-2.0 | Total/NA | Solid | 3050B | |
| 570-56782-77 | SSD-20-3.0 | Total/NA | Solid | 3050B | |
| 570-56782-78 | SSD-20-4.0 | Total/NA | Solid | 3050B | |
| 570-56782-79 | SSD-22-3.5 | Total/NA | Solid | 3050B | |
| 570-56782-80 | SSD-22-4.0 | Total/NA | Solid | 3050B | |
| 570-56782-81 | SSD-24-3.5 | Total/NA | Solid | 3050B | |
| 570-56782-82 | SSD-24-4.0 | Total/NA | Solid | 3050B | |
| 570-56782-83 | SSD-23-1.0 | Total/NA | Solid | 3050B | |
| 570-56782-84 | SSD-23-2.0 | Total/NA | Solid | 3050B | |
| 570-56782-85 | SSD-23-3.0 | Total/NA | Solid | 3050B | |
| 570-56782-86 | SSD-23-4.0 | Total/NA | Solid | 3050B | |
| 570-56782-87 | SSD-25-1.0 | Total/NA | Solid | 3050B | |
| 570-56782-88 | SSD-25-2.0 | Total/NA | Solid | 3050B | |
| 570-56782-89 | SSD-25-3.0 | Total/NA | Solid | 3050B | |
| 570-56782-90 | SSD-25-4.0 | Total/NA | Solid | 3050B | |
| MB 570-144964/1-A | Method Blank | Total/NA | Solid | 3050B | |
| LCS 570-144964/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| LCSD 570-144964/3-A | Lab Control Sample Dup | Total/NA | Solid | 3050B | |
| 570-56782-75 MS | SSD-20-1.0 | Total/NA | Solid | 3050B | |
| 570-56782-75 MSD | SSD-20-1.0 | Total/NA | Solid | 3050B | |

### Analysis Batch: 145179

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-1 | SSD-19-4.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-3 | SSD-18-1.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-4 | SSD-18-2.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-5 | SSD-18-3.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-6 | SSD-18-4.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-7 | SSD-14-1.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-8 | SSD-14-2.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-9 | SSD-14-3.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-10 | SSD-14-4.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-11 | SSD-13-1.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-12 | SSD-13-2.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-13 | SSD-13-3.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-14 | SSD-13-4.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-15 | SSD-10-1.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-16 | SSD-10-2.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-17 | SSD-10-3.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-18 | SSD-10-4.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-19 | SSD-9-1.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-20 | SSD-9-2.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-21 | SSD-9-3.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-22 | SSD-9-4.0 | Total/NA | Solid | 6010B | 144129 |
| 570-56782-23 | SSD-8-1.0 | Total/NA | Solid | 6010B | 144129 |
| 570-56782-24 | SSD-8-2.0 | Total/NA | Solid | 6010B | 144129 |
| 570-56782-25 | SSD-8-3.0 | Total/NA | Solid | 6010B | 144129 |
| 570-56782-26 | SSD-8-4.0 | Total/NA | Solid | 6010B | 144129 |
| 570-56782-27 | SSD-7-1.0 | Total/NA | Solid | 6010B | 144129 |
| 570-56782-28 | SSD-7-2.0 | Total/NA | Solid | 6010B | 144129 |

## Metals (Continued)

### Analysis Batch: 145179 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-29 | SSD-7-3.0 | Total/NA | Solid | 6010B | 144129 |
| 570-56782-30 | SSD-7-4.0 | Total/NA | Solid | 6010B | 144129 |
| 570-56782-35 | SSD-5-1.0 | Total/NA | Solid | 6010B | 144129 |
| 570-56782-36 | SSD-5-2.0 | Total/NA | Solid | 6010B | 144129 |
| 570-56782-37 | SSD-5-3.0 | Total/NA | Solid | 6010B | 144129 |
| 570-56782-38 | SSD-5-4.0 | Total/NA | Solid | 6010B | 144129 |
| 570-56782-40 | SSD-6-1.0 | Total/NA | Solid | 6010B | 144129 |
| 570-56782-41 | SSD-6-2.0 | Total/NA | Solid | 6010B | 144129 |
| 570-56782-42 | SSD-6-3.0 | Total/NA | Solid | 6010B | 144129 |
| 570-56782-43 | SSD-6-4.0 | Total/NA | Solid | 6010B | 144129 |
| 570-56782-44 | SSD-4-1.0 | Total/NA | Solid | 6010B | 144129 |
| 570-56782-45 | SSD-4-2.0 | Total/NA | Solid | 6010B | 144129 |
| 570-56782-46 | SSD-4-3.0 | Total/NA | Solid | 6010B | 144129 |
| MB 570-144125/1-A | Method Blank | Total/NA | Solid | 6010B | 144125 |
| LCS 570-144125/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 144125 |
| LCSD 570-144125/3-A | Lab Control Sample Dup | Total/NA | Solid | 6010B | 144125 |
| 570-56782-1 MS | SSD-19-4.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-1 MSD | SSD-19-4.0 | Total/NA | Solid | 6010B | 144125 |
| 570-56782-22 MS | SSD-9-4.0 | Total/NA | Solid | 6010B | 144129 |
| 570-56782-22 MSD | SSD-9-4.0 | Total/NA | Solid | 6010B | 144129 |

### Analysis Batch: 145216

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-75 | SSD-20-1.0 | Total/NA | Solid | 6010B | 144964 |
| 570-56782-76 | SSD-20-2.0 | Total/NA | Solid | 6010B | 144964 |
| 570-56782-77 | SSD-20-3.0 | Total/NA | Solid | 6010B | 144964 |
| 570-56782-78 | SSD-20-4.0 | Total/NA | Solid | 6010B | 144964 |
| 570-56782-79 | SSD-22-3.5 | Total/NA | Solid | 6010B | 144964 |
| 570-56782-80 | SSD-22-4.0 | Total/NA | Solid | 6010B | 144964 |
| 570-56782-81 | SSD-24-3.5 | Total/NA | Solid | 6010B | 144964 |
| 570-56782-82 | SSD-24-4.0 | Total/NA | Solid | 6010B | 144964 |
| 570-56782-83 | SSD-23-1.0 | Total/NA | Solid | 6010B | 144964 |
| 570-56782-84 | SSD-23-2.0 | Total/NA | Solid | 6010B | 144964 |
| 570-56782-85 | SSD-23-3.0 | Total/NA | Solid | 6010B | 144964 |
| 570-56782-86 | SSD-23-4.0 | Total/NA | Solid | 6010B | 144964 |
| 570-56782-87 | SSD-25-1.0 | Total/NA | Solid | 6010B | 144964 |
| 570-56782-88 | SSD-25-2.0 | Total/NA | Solid | 6010B | 144964 |
| 570-56782-89 | SSD-25-3.0 | Total/NA | Solid | 6010B | 144964 |
| 570-56782-90 | SSD-25-4.0 | Total/NA | Solid | 6010B | 144964 |
| MB 570-144964/1-A | Method Blank | Total/NA | Solid | 6010B | 144964 |
| LCS 570-144964/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 144964 |
| LCSD 570-144964/3-A | Lab Control Sample Dup | Total/NA | Solid | 6010B | 144964 |
| 570-56782-75 MS | SSD-20-1.0 | Total/NA | Solid | 6010B | 144964 |
| 570-56782-75 MSD | SSD-20-1.0 | Total/NA | Solid | 6010B | 144964 |

### Analysis Batch: 145331

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-47 | SSD-4-4.0 | Total/NA | Solid | 6010B | 144950 |
| 570-56782-48 | SSD-3-1.0 | Total/NA | Solid | 6010B | 144950 |
| 570-56782-49 | SSD-3-2.0 | Total/NA | Solid | 6010B | 144950 |
| 570-56782-50 | SSD-3-3.0 | Total/NA | Solid | 6010B | 144950 |

## Metals (Continued)

### Analysis Batch: 145331 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56782-51 | SSD-3-4.0 | Total/NA | Solid | 6010B | 144950 |
| 570-56782-52 | SSD-2-1.0 | Total/NA | Solid | 6010B | 144950 |
| 570-56782-53 | SSD-2-2.0 | Total/NA | Solid | 6010B | 144950 |
| 570-56782-54 | SSD-2-3.0 | Total/NA | Solid | 6010B | 144950 |
| 570-56782-55 | SSD-2-4.0 | Total/NA | Solid | 6010B | 144950 |
| 570-56782-56 | SSD-1-1.0 | Total/NA | Solid | 6010B | 144950 |
| 570-56782-57 | SSD-1-2.0 | Total/NA | Solid | 6010B | 144950 |
| 570-56782-58 | SSD-1-3.0 | Total/NA | Solid | 6010B | 144950 |
| 570-56782-59 | SSD-1-4.0 | Total/NA | Solid | 6010B | 144950 |
| 570-56782-60 | SSD-29-1.0 | Total/NA | Solid | 6010B | 144950 |
| 570-56782-65 | G-17-C-10.0 | Total/NA | Solid | 6010B | 144950 |
| 570-56782-66 | G-17-C-15.0 | Total/NA | Solid | 6010B | 144950 |
| 570-56782-71 | SSD-29-2.0 | Total/NA | Solid | 6010B | 144950 |
| 570-56782-72 | SSD-29-3.0 | Total/NA | Solid | 6010B | 144950 |
| 570-56782-73 | SSD-29-3.5 | Total/NA | Solid | 6010B | 144950 |
| 570-56782-74 | SSD-29-4.0 | Total/NA | Solid | 6010B | 144950 |
| MB 570-144950/1-A | Method Blank | Total/NA | Solid | 6010B | 144950 |
| LCS 570-144950/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 144950 |
| LCSD 570-144950/3-A | Lab Control Sample Dup | Total/NA | Solid | 6010B | 144950 |
| 570-56782-47 MS | SSD-4-4.0 | Total/NA | Solid | 6010B | 144950 |
| 570-56782-47 MSD | SSD-4-4.0 | Total/NA | Solid | 6010B | 144950 |

## Client Sample ID: SSD-19-4.0
**Lab Sample ID: 570-56782-1**
**Date Collected: 04/14/21 10:58**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.08 g | 100 mL | 144125 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 18:47 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-19-0.0
**Lab Sample ID: 570-56782-2**
**Date Collected: 04/14/21 10:50**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.10 g | 10 mL | 144549 | 04/20/21 10:34 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 145226 | 04/23/21 09:06 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |
| Total/NA | Prep | 3541 | | | 20.01 g | 2 mL | 144979 | 04/21/21 15:57 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 145103 | 04/22/21 19:37 | UHHN | ECL 1 |
| | Instrument ID: GC58 | | | | | | | | | |

## Client Sample ID: SSD-18-1.0
**Lab Sample ID: 570-56782-3**
**Date Collected: 04/14/21 11:16**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.03 g | 100 mL | 144125 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 18:54 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-18-2.0
**Lab Sample ID: 570-56782-4**
**Date Collected: 04/14/21 11:18**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.99 g | 100 mL | 144125 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 19:05 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-18-3.0
**Lab Sample ID: 570-56782-5**
**Date Collected: 04/14/21 11:20**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.03 g | 100 mL | 144125 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 19:07 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-18-4.0
**Lab Sample ID: 570-56782-6**
**Date Collected: 04/14/21 11:22**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.09 g | 100 mL | 144125 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 19:09 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-14-1.0
**Lab Sample ID: 570-56782-7**
**Date Collected: 04/14/21 13:20**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.98 g | 100 mL | 144125 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 19:11 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-14-2.0
**Lab Sample ID: 570-56782-8**
**Date Collected: 04/14/21 13:22**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.95 g | 100 mL | 144125 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 19:13 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-14-3.0
**Lab Sample ID: 570-56782-9**
**Date Collected: 04/14/21 13:24**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.00 g | 100 mL | 144125 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 19:15 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-14-4.0
**Lab Sample ID: 570-56782-10**
**Date Collected: 04/14/21 13:26**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.99 g | 100 mL | 144125 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 19:17 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-13-1.0
**Lab Sample ID: 570-56782-11**
**Date Collected: 04/14/21 13:30**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.98 g | 100 mL | 144125 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 19:19 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-13-2.0
**Lab Sample ID: 570-56782-12**
**Date Collected: 04/14/21 13:32**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.99 g | 100 mL | 144125 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 19:21 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-13-3.0
**Lab Sample ID: 570-56782-13**
**Date Collected: 04/14/21 13:34**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.95 g | 100 mL | 144125 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 19:23 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-13-4.0
**Lab Sample ID: 570-56782-14**
**Date Collected: 04/14/21 13:36**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.05 g | 100 mL | 144125 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 19:34 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-10-1.0
**Lab Sample ID: 570-56782-15**
**Date Collected: 04/14/21 13:45**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.95 g | 100 mL | 144125 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 19:36 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-10-2.0
**Lab Sample ID: 570-56782-16**
**Date Collected: 04/14/21 13:47**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.02 g | 100 mL | 144125 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 19:37 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-10-3.0
**Lab Sample ID: 570-56782-17**
**Date Collected: 04/14/21 13:49**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.07 g | 100 mL | 144125 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 19:39 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-10-4.0
**Lab Sample ID: 570-56782-18**
**Date Collected: 04/14/21 13:51**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.91 g | 100 mL | 144125 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 19:41 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-9-1.0
**Lab Sample ID: 570-56782-19**
**Date Collected: 04/14/21 14:00**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.02 g | 100 mL | 144125 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 19:43 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-9-2.0
**Lab Sample ID: 570-56782-20**
**Date Collected: 04/14/21 14:02**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.03 g | 100 mL | 144125 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 19:45 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-9-3.0
**Lab Sample ID: 570-56782-21**
**Date Collected: 04/14/21 14:04**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.08 g | 100 mL | 144125 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 19:47 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-9-4.0
**Lab Sample ID: 570-56782-22**
**Date Collected: 04/14/21 14:06**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.07 g | 100 mL | 144129 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 19:49 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-8-1.0
**Lab Sample ID: 570-56782-23**
**Date Collected: 04/14/21 14:35**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.94 g | 100 mL | 144129 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 20:04 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-8-2.0
**Lab Sample ID: 570-56782-24**
**Date Collected: 04/14/21 14:37**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.07 g | 100 mL | 144129 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 20:06 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-8-3.0
**Lab Sample ID: 570-56782-25**
**Date Collected: 04/14/21 14:39**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.94 g | 100 mL | 144129 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 20:08 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-8-4.0
**Lab Sample ID: 570-56782-26**
**Date Collected: 04/14/21 14:41**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.09 g | 100 mL | 144129 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 20:10 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-7-1.0
**Lab Sample ID: 570-56782-27**
**Date Collected: 04/14/21 14:43**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.95 g | 100 mL | 144129 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 20:12 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-7-2.0
**Lab Sample ID: 570-56782-28**
**Date Collected: 04/14/21 14:45**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.98 g | 100 mL | 144129 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 20:14 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-7-3.0
**Lab Sample ID: 570-56782-29**
**Date Collected: 04/14/21 14:47**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.05 g | 100 mL | 144129 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 20:16 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-7-4.0
**Lab Sample ID: 570-56782-30**
**Date Collected: 04/14/21 14:49**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.95 g | 100 mL | 144129 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 20:18 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SB-3-10.0
**Lab Sample ID: 570-56782-31**
**Date Collected: 04/14/21 15:20**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.665 g | 5 g | 144584 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144782 | 04/21/21 13:06 | BE5H | ECL 2 |
| | Instrument ID: GCMSLL | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.12 g | 2 mL | 144547 | 04/20/21 10:32 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 144872 | 04/21/21 15:50 | N8CZ | ECL 1 |
| | Instrument ID: GCMSTT | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.072 g | 5 g | 144584 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 145244 | 04/22/21 18:17 | P1R | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 10.29 g | 10 mL | 144951 | 04/21/21 14:37 | EM5C | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 145251 | 04/23/21 02:44 | A1W | ECL 1 |
| | Instrument ID: GC70A | | | | | | | | | |

## Client Sample ID: SB-3-15.0
**Lab Sample ID: 570-56782-32**
**Date Collected: 04/14/21 15:40**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.149 g | 5 g | 144584 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144782 | 04/21/21 13:32 | BE5H | ECL 2 |
| | Instrument ID: GCMSLL | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.253 g | 5 g | 144584 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 145244 | 04/22/21 18:41 | P1R | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |

## Client Sample ID: SB-4-10.0
**Lab Sample ID: 570-56782-33**
**Date Collected: 04/14/21 15:45**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.681 g | 5 g | 144584 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144782 | 04/21/21 13:57 | BE5H | ECL 2 |
| | Instrument ID: GCMSLL | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.16 g | 2 mL | 144547 | 04/20/21 10:32 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 144872 | 04/21/21 16:09 | N8CZ | ECL 1 |
| | Instrument ID: GCMSTT | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.84 g | 5 g | 144584 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 145244 | 04/22/21 17:29 | P1R | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 10.01 g | 10 mL | 144951 | 04/21/21 14:37 | EM5C | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 145251 | 04/23/21 03:12 | A1W | ECL 1 |
| | Instrument ID: GC70A | | | | | | | | | |

## Client Sample ID: SB-4-15.0
**Lab Sample ID: 570-56782-34**
**Date Collected: 04/14/21 15:50**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.984 g | 5 g | 144584 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144782 | 04/21/21 14:23 | BE5H | ECL 2 |
| | Instrument ID: GCMSLL | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 7.385 g | 5 g | 144584 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 145244 | 04/22/21 17:53 | P1R | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |

## Client Sample ID: SSD-5-1.0
**Lab Sample ID: 570-56782-35**
**Date Collected: 04/15/21 08:08**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.05 g | 100 mL | 144129 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 20:20 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-5-2.0
**Lab Sample ID: 570-56782-36**
**Date Collected: 04/15/21 08:10**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.98 g | 100 mL | 144129 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 20:32 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-5-3.0
**Lab Sample ID: 570-56782-37**
**Date Collected: 04/15/21 08:12**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.97 g | 100 mL | 144129 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 20:34 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-5-4.0
**Lab Sample ID: 570-56782-38**
**Date Collected: 04/15/21 08:14**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.08 g | 100 mL | 144129 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 20:36 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-6-0.0
**Lab Sample ID: 570-56782-39**
**Date Collected: 04/15/21 08:16**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.08 g | 10 mL | 144549 | 04/20/21 10:34 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 145226 | 04/23/21 09:20 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |
| Total/NA | Prep | 3546 | DL | | 20.08 g | 10 mL | 144549 | 04/20/21 10:34 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | DL | 5 | | | 145428 | 04/23/21 13:07 | UHHN | ECL 1 |
| | Instrument ID: GC51 | | | | | | | | | |
| Total/NA | Prep | 3541 | | | 20.11 g | 2 mL | 144979 | 04/21/21 15:57 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 145103 | 04/22/21 15:45 | UHHN | ECL 1 |
| | Instrument ID: GC58 | | | | | | | | | |
| Total/NA | Prep | 3541 | DL | | 20.11 g | 2 mL | 144979 | 04/21/21 15:57 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | DL | 10 | | | 145103 | 04/22/21 20:13 | UHHN | ECL 1 |
| | Instrument ID: GC58 | | | | | | | | | |

## Client Sample ID: SSD-6-1.0
**Lab Sample ID: 570-56782-40**
**Date Collected: 04/15/21 08:18**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.06 g | 10 mL | 144549 | 04/20/21 10:34 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 145226 | 04/23/21 05:33 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |
| Total/NA | Prep | 3541 | | | 20.08 g | 2 mL | 144979 | 04/21/21 15:57 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 145103 | 04/22/21 16:02 | UHHN | ECL 1 |
| | Instrument ID: GC58 | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 1.92 g | 100 mL | 144129 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 20:38 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-6-2.0
**Lab Sample ID: 570-56782-41**
**Date Collected: 04/15/21 08:20**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.14 g | 10 mL | 144549 | 04/20/21 10:34 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 145226 | 04/23/21 07:40 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |
| Total/NA | Prep | 3541 | | | 20.06 g | 2 mL | 144979 | 04/21/21 15:57 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 145103 | 04/22/21 16:20 | UHHN | ECL 1 |
| | Instrument ID: GC58 | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 2.07 g | 100 mL | 144129 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 20:40 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-6-3.0
**Lab Sample ID: 570-56782-42**
**Date Collected: 04/15/21 08:22**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.12 g | 10 mL | 144549 | 04/20/21 10:34 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 145226 | 04/23/21 05:47 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |
| Total/NA | Prep | 3541 | | | 20.06 g | 2 mL | 144979 | 04/21/21 15:57 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | 1 mL | 1.0 mL | 145103 | 04/22/21 14:33 | UHHN | ECL 1 |
| | Instrument ID: GC58 | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 1.92 g | 100 mL | 144129 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 20:42 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-6-4.0
**Lab Sample ID: 570-56782-43**
**Date Collected: 04/15/21 08:24**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.91 g | 100 mL | 144129 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 20:44 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-4-1.0
**Lab Sample ID: 570-56782-44**
**Date Collected: 04/15/21 09:00**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.06 g | 100 mL | 144129 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 20:46 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-4-2.0
**Lab Sample ID: 570-56782-45**
**Date Collected: 04/15/21 09:02**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.97 g | 100 mL | 144129 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 20:48 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-4-3.0
**Lab Sample ID: 570-56782-46**
**Date Collected: 04/15/21 09:04**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.95 g | 100 mL | 144129 | 04/17/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145179 | 04/21/21 20:50 | B4SY | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-4-4.0
**Lab Sample ID: 570-56782-47**
**Date Collected: 04/15/21 09:06**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.05 g | 100 mL | 144950 | 04/21/21 15:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145331 | 04/22/21 16:58 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-3-1.0
**Lab Sample ID: 570-56782-48**
**Date Collected: 04/15/21 09:08**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.02 g | 100 mL | 144950 | 04/21/21 15:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145331 | 04/22/21 17:05 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-3-2.0
**Lab Sample ID: 570-56782-49**
**Date Collected: 04/15/21 09:10**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.96 g | 100 mL | 144950 | 04/21/21 15:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145331 | 04/22/21 17:07 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-3-3.0
**Lab Sample ID: 570-56782-50**
**Date Collected: 04/15/21 09:12**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.01 g | 100 mL | 144950 | 04/21/21 15:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145331 | 04/22/21 17:09 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-3-4.0
**Lab Sample ID: 570-56782-51**
**Date Collected: 04/15/21 09:14**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.05 g | 100 mL | 144950 | 04/21/21 15:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145331 | 04/22/21 17:11 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-2-1.0
**Lab Sample ID: 570-56782-52**
**Date Collected: 04/15/21 09:16**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.03 g | 100 mL | 144950 | 04/21/21 15:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145331 | 04/22/21 17:18 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-2-2.0
**Lab Sample ID: 570-56782-53**
**Date Collected: 04/15/21 09:18**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.04 g | 100 mL | 144950 | 04/21/21 15:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145331 | 04/22/21 17:21 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-2-3.0
**Lab Sample ID: 570-56782-54**
**Date Collected: 04/15/21 09:20**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.00 g | 100 mL | 144950 | 04/21/21 15:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145331 | 04/22/21 17:23 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-2-4.0
**Lab Sample ID: 570-56782-55**
**Date Collected: 04/15/21 09:22**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.00 g | 100 mL | 144950 | 04/21/21 15:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145331 | 04/22/21 17:25 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-1-1.0
**Lab Sample ID: 570-56782-56**
**Date Collected: 04/15/21 09:24**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.06 g | 100 mL | 144950 | 04/21/21 15:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145331 | 04/22/21 17:28 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-1-2.0
**Lab Sample ID: 570-56782-57**
**Date Collected: 04/15/21 09:26**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.98 g | 100 mL | 144950 | 04/21/21 15:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145331 | 04/22/21 17:30 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-1-3.0
**Lab Sample ID: 570-56782-58**
**Date Collected: 04/15/21 09:28**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.03 g | 100 mL | 144950 | 04/21/21 15:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145331 | 04/22/21 17:32 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-1-4.0
**Lab Sample ID: 570-56782-59**
**Date Collected: 04/15/21 09:30**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.06 g | 100 mL | 144950 | 04/21/21 15:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145331 | 04/22/21 17:35 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-29-1.0
**Lab Sample ID: 570-56782-60**
**Date Collected: 04/15/21 09:45**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.09 g | 100 mL | 144950 | 04/21/21 15:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145331 | 04/22/21 17:37 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: G-15-C-10.0
**Lab Sample ID: 570-56782-61**
**Date Collected: 04/15/21 09:05**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.217 g | 5 mL | 144585 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 5000 | 5 mL | 5 mL | 144782 | 04/21/21 16:33 | BE5H | ECL 2 |
| | Instrument ID: GCMSLL | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.18 g | 2 mL | 144547 | 04/20/21 10:32 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 144872 | 04/21/21 16:28 | N8CZ | ECL 1 |
| | Instrument ID: GCMSTT | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.217 g | 5 mL | 144585 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 2000 | 5 mL | 5 mL | 145050 | 04/22/21 07:44 | A9VE | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: G-15-C-10.0
**Lab Sample ID: 570-56782-61**
**Date Collected: 04/15/21 09:05**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 9.97 g | 10 mL | 144951 | 04/21/21 14:37 | EM5C | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 145251 | 04/23/21 03:38 | A1W | ECL 1 |
| | Instrument ID: GC70A | | | | | | | | | |

## Client Sample ID: G-15-C-15.0
**Lab Sample ID: 570-56782-62**
**Date Collected: 04/15/21 09:20**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 7.113 g | 5 g | 144584 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144782 | 04/21/21 14:49 | BE5H | ECL 2 |
| | Instrument ID: GCMSLL | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 7.05 g | 5 g | 144584 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 145488 | 04/23/21 17:51 | A9VE | ECL 2 |
| | Instrument ID: GC57 | | | | | | | | | |

## Client Sample ID: G-16-C-10.0
**Lab Sample ID: 570-56782-63**
**Date Collected: 04/15/21 09:35**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.544 g | 5 mL | 144585 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 5000 | 5 mL | 5 mL | 144782 | 04/21/21 16:58 | BE5H | ECL 2 |
| | Instrument ID: GCMSLL | | | | | | | | | |
| Total/NA | Prep | 5035 | DL | | 6.544 g | 5 mL | 144585 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | DL | 10000 | 5 mL | 5 mL | 145066 | 04/22/21 14:16 | U4JL | ECL 2 |
| | Instrument ID: GCMSLL | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.15 g | 2 mL | 144547 | 04/20/21 10:32 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 144872 | 04/21/21 16:47 | N8CZ | ECL 1 |
| | Instrument ID: GCMSTT | | | | | | | | | |
| Total/NA | Prep | 3546 | DL | | 20.15 g | 2 mL | 144547 | 04/20/21 10:32 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | DL | 5 | | | 144872 | 04/21/21 20:34 | N8CZ | ECL 1 |
| | Instrument ID: GCMSTT | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.544 g | 5 mL | 144585 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 2000 | 5 mL | 5 mL | 145050 | 04/22/21 08:08 | A9VE | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 10.16 g | 10 mL | 144951 | 04/21/21 14:37 | EM5C | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 145251 | 04/23/21 04:04 | A1W | ECL 1 |
| | Instrument ID: GC70A | | | | | | | | | |

## Client Sample ID: G-17-C-10.0
**Lab Sample ID: 570-56782-65**

**Date Collected: 04/15/21 10:15**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.074 g | 5 mL | 144585 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1000 | 5 mL | 5 mL | 144782 | 04/21/21 17:24 | BE5H | ECL 2 |
| | Instrument ID: GCMSLL | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.11 g | 2 mL | 144547 | 04/20/21 10:32 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 144872 | 04/21/21 17:06 | N8CZ | ECL 1 |
| | Instrument ID: GCMSTT | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.074 g | 5 mL | 144585 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 2000 | 5 mL | 5 mL | 145050 | 04/22/21 08:32 | A9VE | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 10.28 g | 10 mL | 144951 | 04/21/21 14:37 | EM5C | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 145251 | 04/23/21 04:31 | A1W | ECL 1 |
| | Instrument ID: GC70A | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 2.08 g | 100 mL | 144950 | 04/21/21 15:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145331 | 04/22/21 17:44 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: G-17-C-15.0
**Lab Sample ID: 570-56782-66**

**Date Collected: 04/15/21 10:25**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.838 g | 5 g | 144584 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144782 | 04/21/21 15:15 | BE5H | ECL 2 |
| | Instrument ID: GCMSLL | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.938 g | 5 g | 144584 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 145244 | 04/22/21 19:29 | P1R | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 10.16 g | 10 mL | 144951 | 04/21/21 14:37 | EM5C | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 145251 | 04/23/21 04:57 | A1W | ECL 1 |
| | Instrument ID: GC70A | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 1.95 g | 100 mL | 144950 | 04/21/21 15:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145331 | 04/22/21 17:46 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SW-3-C-10.0
**Lab Sample ID: 570-56782-67**

**Date Collected: 04/15/21 11:15**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.454 g | 5 mL | 144585 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 5000 | 5 mL | 5 mL | 144782 | 04/21/21 17:49 | BE5H | ECL 2 |
| | Instrument ID: GCMSLL | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.13 g | 2 mL | 144547 | 04/20/21 10:32 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 144872 | 04/21/21 17:25 | N8CZ | ECL 1 |
| | Instrument ID: GCMSTT | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SW-3-C-10.0
**Lab Sample ID: 570-56782-67**
**Date Collected: 04/15/21 11:15**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | DL | | 20.13 g | 2 mL | 144547 | 04/20/21 10:32 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | DL | 5 | | | 144872 | 04/21/21 20:53 | N8CZ | ECL 1 |
| | Instrument ID: GCMSTT | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.454 g | 5 mL | 144585 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 2000 | 5 mL | 5 mL | 145050 | 04/22/21 08:57 | A9VE | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 10.02 g | 10 mL | 144951 | 04/21/21 14:37 | EM5C | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 145251 | 04/23/21 05:24 | A1W | ECL 1 |
| | Instrument ID: GC70A | | | | | | | | | |

## Client Sample ID: SW-3-C-15.0
**Lab Sample ID: 570-56782-68**
**Date Collected: 04/15/21 11:25**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.233 g | 5 mL | 144585 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 500 | 5 mL | 5 mL | 144782 | 04/21/21 18:16 | BE5H | ECL 2 |
| | Instrument ID: GCMSLL | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.233 g | 5 mL | 144585 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 250 | 5 mL | 5 mL | 145050 | 04/22/21 11:01 | A9VE | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |

## Client Sample ID: SW-4/MW-14-C-10.0
**Lab Sample ID: 570-56782-69**
**Date Collected: 04/15/21 12:40**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.365 g | 5 mL | 144585 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 5000 | 5 mL | 5 mL | 144782 | 04/21/21 18:41 | BE5H | ECL 2 |
| | Instrument ID: GCMSLL | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.00 g | 2 mL | 144547 | 04/20/21 10:32 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 145212 | 04/22/21 19:12 | N8CZ | ECL 1 |
| | Instrument ID: GCMSSS | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.00 g | 2 mL | 144547 | 04/20/21 10:32 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 5 | | | 145212 | 04/22/21 19:30 | N8CZ | ECL 1 |
| | Instrument ID: GCMSSS | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.365 g | 5 mL | 144585 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 2000 | 5 mL | 5 mL | 145050 | 04/22/21 09:44 | A9VE | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 9.95 g | 10 mL | 144951 | 04/21/21 14:37 | EM5C | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 145251 | 04/23/21 05:50 | A1W | ECL 1 |
| | Instrument ID: GC70A | | | | | | | | | |

## Client Sample ID: SW-4/MW-14-C-15.0
## Lab Sample ID: 570-56782-70

**Date Collected: 04/15/21 12:50**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 7.2 g | 5 g | 144584 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144782 | 04/21/21 15:41 | BE5H | ECL 2 |
| | Instrument ID: GCMSLL | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.886 g | 5 g | 144584 | 04/20/21 11:55 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 145244 | 04/22/21 19:05 | P1R | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |

## Client Sample ID: SSD-29-2.0
## Lab Sample ID: 570-56782-71

**Date Collected: 04/15/21 09:47**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.03 g | 100 mL | 144950 | 04/21/21 15:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145331 | 04/22/21 17:49 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-29-3.0
## Lab Sample ID: 570-56782-72

**Date Collected: 04/15/21 09:49**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.98 g | 100 mL | 144950 | 04/21/21 15:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145331 | 04/22/21 17:51 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-29-3.5
## Lab Sample ID: 570-56782-73

**Date Collected: 04/15/21 09:51**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.95 g | 100 mL | 144950 | 04/21/21 15:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145331 | 04/22/21 17:53 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-29-4.0
## Lab Sample ID: 570-56782-74

**Date Collected: 04/15/21 09:53**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.98 g | 100 mL | 144950 | 04/21/21 15:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145331 | 04/22/21 17:55 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-20-1.0
**Lab Sample ID: 570-56782-75**
**Date Collected: 04/15/21 09:55**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.98 g | 100 mL | 144964 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145216 | 04/22/21 18:27 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-20-2.0
**Lab Sample ID: 570-56782-76**
**Date Collected: 04/15/21 09:57**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.94 g | 100 mL | 144964 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145216 | 04/22/21 18:33 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-20-3.0
**Lab Sample ID: 570-56782-77**
**Date Collected: 04/15/21 09:59**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.98 g | 100 mL | 144964 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145216 | 04/22/21 18:35 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-20-4.0
**Lab Sample ID: 570-56782-78**
**Date Collected: 04/15/21 10:01**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.95 g | 100 mL | 144964 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145216 | 04/22/21 18:37 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-22-3.5
**Lab Sample ID: 570-56782-79**
**Date Collected: 04/15/21 10:20**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.97 g | 100 mL | 144964 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145216 | 04/22/21 18:39 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-22-4.0
**Lab Sample ID: 570-56782-80**
**Date Collected: 04/15/21 10:22**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.03 g | 100 mL | 144964 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145216 | 04/22/21 18:51 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-24-3.5
**Lab Sample ID: 570-56782-81**
**Date Collected: 04/15/21 10:35**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.01 g | 100 mL | 144964 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145216 | 04/22/21 18:53 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-24-4.0
**Lab Sample ID: 570-56782-82**
**Date Collected: 04/15/21 10:37**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.05 g | 100 mL | 144964 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145216 | 04/22/21 18:55 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-23-1.0
**Lab Sample ID: 570-56782-83**
**Date Collected: 04/15/21 10:40**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.01 g | 100 mL | 144964 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145216 | 04/22/21 18:56 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-23-2.0
**Lab Sample ID: 570-56782-84**
**Date Collected: 04/15/21 10:42**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.95 g | 100 mL | 144964 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145216 | 04/22/21 18:58 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-23-3.0
**Lab Sample ID: 570-56782-85**
**Date Collected: 04/15/21 10:44**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.02 g | 100 mL | 144964 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145216 | 04/22/21 19:01 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-23-4.0
**Lab Sample ID: 570-56782-86**
**Date Collected: 04/15/21 10:46**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.04 g | 100 mL | 144964 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145216 | 04/22/21 19:02 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-25-1.0
**Lab Sample ID: 570-56782-87**
**Date Collected: 04/15/21 10:50**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.03 g | 100 mL | 144964 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145216 | 04/22/21 19:04 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-25-2.0
**Lab Sample ID: 570-56782-88**
**Date Collected: 04/15/21 10:52**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.09 g | 100 mL | 144964 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145216 | 04/22/21 19:06 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-25-3.0
**Lab Sample ID: 570-56782-89**
**Date Collected: 04/15/21 10:54**
**Matrix: Solid**
**Date Received: 04/16/21 10:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.07 g | 100 mL | 144964 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145216 | 04/22/21 19:09 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-25-4.0
**Date Collected: 04/15/21 10:56**
**Date Received: 04/16/21 10:35**

## Lab Sample ID: 570-56782-90
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.07 g | 100 mL | 144964 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145216 | 04/22/21 19:20 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

**Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

EMLab = EMLab - Irvine, 17461 Derian Ave., Suite 100, Irvine, CA 92614

# Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

## Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Arkansas DEQ | State | 88-0161 | 11-19-21 |
| California | Los Angeles County Sanitation Districts | 10109 | 09-30-21 |
| California | SCAQMD LAP | 17LA0919 | 11-30-21 |
| California | State | 2944 | 09-30-21 |
| Guam | State | 20-003R | 10-31-20 * |
| Nevada | State | CA00111 | 07-31-21 |
| Oregon | NELAP | CA300001 | 01-30-22 |
| USDA | US Federal Programs | P330-20-00034 | 02-10-23 |
| Washington | State | C916-18 | 10-11-21 |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56782-1
Project/Site: Chevron 206145 Oakland Center Street

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | ECL 2 |
| 8270C | Semivolatile Organic Compounds (GC/MS) | SW846 | ECL 1 |
| 8015B | Gasoline Range Organics - (GC) | SW846 | ECL 2 |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | ECL 1 |
| 8081A | Organochlorine Pesticides (GC) | SW846 | ECL 1 |
| 8082 | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | ECL 1 |
| 6010B | Metals (ICP) | SW846 | ECL 1 |
| Subcontract | Asbestos CARB-435 | None | EMLab |
| 3050B | Preparation, Metals | SW846 | ECL 1 |
| 3541 | Automated Soxhlet Extraction | SW846 | ECL 1 |
| 3546 | Microwave Extraction | SW846 | ECL 1 |
| 3550C | Ultrasonic Extraction | SW846 | ECL 1 |
| 5035 | Closed System Purge and Trap | SW846 | ECL 2 |

**Protocol References:**

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

EMLab = EMLab - Irvine, 17461 Derian Ave., Suite 100, Irvine, CA 92614

# Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145 Oakland Center Street

Job ID: 570-56782-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 570-56782-1 | SSD-19-4.0 | Solid | 04/14/21 10:58 | 04/16/21 10:35 | |
| 570-56782-2 | SSD-19-0.0 | Solid | 04/14/21 10:50 | 04/16/21 10:35 | |
| 570-56782-3 | SSD-18-1.0 | Solid | 04/14/21 11:16 | 04/16/21 10:35 | |
| 570-56782-4 | SSD-18-2.0 | Solid | 04/14/21 11:18 | 04/16/21 10:35 | |
| 570-56782-5 | SSD-18-3.0 | Solid | 04/14/21 11:20 | 04/16/21 10:35 | |
| 570-56782-6 | SSD-18-4.0 | Solid | 04/14/21 11:22 | 04/16/21 10:35 | |
| 570-56782-7 | SSD-14-1.0 | Solid | 04/14/21 13:20 | 04/16/21 10:35 | |
| 570-56782-8 | SSD-14-2.0 | Solid | 04/14/21 13:22 | 04/16/21 10:35 | |
| 570-56782-9 | SSD-14-3.0 | Solid | 04/14/21 13:24 | 04/16/21 10:35 | |
| 570-56782-10 | SSD-14-4.0 | Solid | 04/14/21 13:26 | 04/16/21 10:35 | |
| 570-56782-11 | SSD-13-1.0 | Solid | 04/14/21 13:30 | 04/16/21 10:35 | |
| 570-56782-12 | SSD-13-2.0 | Solid | 04/14/21 13:32 | 04/16/21 10:35 | |
| 570-56782-13 | SSD-13-3.0 | Solid | 04/14/21 13:34 | 04/16/21 10:35 | |
| 570-56782-14 | SSD-13-4.0 | Solid | 04/14/21 13:36 | 04/16/21 10:35 | |
| 570-56782-15 | SSD-10-1.0 | Solid | 04/14/21 13:45 | 04/16/21 10:35 | |
| 570-56782-16 | SSD-10-2.0 | Solid | 04/14/21 13:47 | 04/16/21 10:35 | |
| 570-56782-17 | SSD-10-3.0 | Solid | 04/14/21 13:49 | 04/16/21 10:35 | |
| 570-56782-18 | SSD-10-4.0 | Solid | 04/14/21 13:51 | 04/16/21 10:35 | |
| 570-56782-19 | SSD-9-1.0 | Solid | 04/14/21 14:00 | 04/16/21 10:35 | |
| 570-56782-20 | SSD-9-2.0 | Solid | 04/14/21 14:02 | 04/16/21 10:35 | |
| 570-56782-21 | SSD-9-3.0 | Solid | 04/14/21 14:04 | 04/16/21 10:35 | |
| 570-56782-22 | SSD-9-4.0 | Solid | 04/14/21 14:06 | 04/16/21 10:35 | |
| 570-56782-23 | SSD-8-1.0 | Solid | 04/14/21 14:35 | 04/16/21 10:35 | |
| 570-56782-24 | SSD-8-2.0 | Solid | 04/14/21 14:37 | 04/16/21 10:35 | |
| 570-56782-25 | SSD-8-3.0 | Solid | 04/14/21 14:39 | 04/16/21 10:35 | |
| 570-56782-26 | SSD-8-4.0 | Solid | 04/14/21 14:41 | 04/16/21 10:35 | |
| 570-56782-27 | SSD-7-1.0 | Solid | 04/14/21 14:43 | 04/16/21 10:35 | |
| 570-56782-28 | SSD-7-2.0 | Solid | 04/14/21 14:45 | 04/16/21 10:35 | |
| 570-56782-29 | SSD-7-3.0 | Solid | 04/14/21 14:47 | 04/16/21 10:35 | |
| 570-56782-30 | SSD-7-4.0 | Solid | 04/14/21 14:49 | 04/16/21 10:35 | |
| 570-56782-31 | SB-3-10.0 | Solid | 04/14/21 15:20 | 04/16/21 10:35 | |
| 570-56782-32 | SB-3-15.0 | Solid | 04/14/21 15:40 | 04/16/21 10:35 | |
| 570-56782-33 | SB-4-10.0 | Solid | 04/14/21 15:45 | 04/16/21 10:35 | |
| 570-56782-34 | SB-4-15.0 | Solid | 04/14/21 15:50 | 04/16/21 10:35 | |
| 570-56782-35 | SSD-5-1.0 | Solid | 04/15/21 08:08 | 04/16/21 10:35 | |
| 570-56782-36 | SSD-5-2.0 | Solid | 04/15/21 08:10 | 04/16/21 10:35 | |
| 570-56782-37 | SSD-5-3.0 | Solid | 04/15/21 08:12 | 04/16/21 10:35 | |
| 570-56782-38 | SSD-5-4.0 | Solid | 04/15/21 08:14 | 04/16/21 10:35 | |
| 570-56782-39 | SSD-6-0.0 | Solid | 04/15/21 08:16 | 04/16/21 10:35 | |
| 570-56782-40 | SSD-6-1.0 | Solid | 04/15/21 08:18 | 04/16/21 10:35 | |
| 570-56782-41 | SSD-6-2.0 | Solid | 04/15/21 08:20 | 04/16/21 10:35 | |
| 570-56782-42 | SSD-6-3.0 | Solid | 04/15/21 08:22 | 04/16/21 10:35 | |
| 570-56782-43 | SSD-6-4.0 | Solid | 04/15/21 08:24 | 04/16/21 10:35 | |
| 570-56782-44 | SSD-4-1.0 | Solid | 04/15/21 09:00 | 04/16/21 10:35 | |
| 570-56782-45 | SSD-4-2.0 | Solid | 04/15/21 09:02 | 04/16/21 10:35 | |
| 570-56782-46 | SSD-4-3.0 | Solid | 04/15/21 09:04 | 04/16/21 10:35 | |
| 570-56782-47 | SSD-4-4.0 | Solid | 04/15/21 09:06 | 04/16/21 10:35 | |
| 570-56782-48 | SSD-3-1.0 | Solid | 04/15/21 09:08 | 04/16/21 10:35 | |
| 570-56782-49 | SSD-3-2.0 | Solid | 04/15/21 09:10 | 04/16/21 10:35 | |
| 570-56782-50 | SSD-3-3.0 | Solid | 04/15/21 09:12 | 04/16/21 10:35 | |
| 570-56782-51 | SSD-3-4.0 | Solid | 04/15/21 09:14 | 04/16/21 10:35 | |
| 570-56782-52 | SSD-2-1.0 | Solid | 04/15/21 09:16 | 04/16/21 10:35 | |
| 570-56782-53 | SSD-2-2.0 | Solid | 04/15/21 09:18 | 04/16/21 10:35 | |

# Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145 Oakland Center Street

Job ID: 570-56782-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 570-56782-54 | SSD-2-3.0 | Solid | 04/15/21 09:20 | 04/16/21 10:35 | |
| 570-56782-55 | SSD-2-4.0 | Solid | 04/15/21 09:22 | 04/16/21 10:35 | |
| 570-56782-56 | SSD-1-1.0 | Solid | 04/15/21 09:24 | 04/16/21 10:35 | |
| 570-56782-57 | SSD-1-2.0 | Solid | 04/15/21 09:26 | 04/16/21 10:35 | |
| 570-56782-58 | SSD-1-3.0 | Solid | 04/15/21 09:28 | 04/16/21 10:35 | |
| 570-56782-59 | SSD-1-4.0 | Solid | 04/15/21 09:30 | 04/16/21 10:35 | |
| 570-56782-60 | SSD-29-1.0 | Solid | 04/15/21 09:45 | 04/16/21 10:35 | |
| 570-56782-61 | G-15-C-10.0 | Solid | 04/15/21 09:05 | 04/16/21 10:35 | |
| 570-56782-62 | G-15-C-15.0 | Solid | 04/15/21 09:20 | 04/16/21 10:35 | |
| 570-56782-63 | G-16-C-10.0 | Solid | 04/15/21 09:35 | 04/16/21 10:35 | |
| 570-56782-65 | G-17-C-10.0 | Solid | 04/15/21 10:15 | 04/16/21 10:35 | |
| 570-56782-66 | G-17-C-15.0 | Solid | 04/15/21 10:25 | 04/16/21 10:35 | |
| 570-56782-67 | SW-3-C-10.0 | Solid | 04/15/21 11:15 | 04/16/21 10:35 | |
| 570-56782-68 | SW-3-C-15.0 | Solid | 04/15/21 11:25 | 04/16/21 10:35 | |
| 570-56782-69 | SW-4/MW-14-C-10.0 | Solid | 04/15/21 12:40 | 04/16/21 10:35 | |
| 570-56782-70 | SW-4/MW-14-C-15.0 | Solid | 04/15/21 12:50 | 04/16/21 10:35 | |
| 570-56782-71 | SSD-29-2.0 | Solid | 04/15/21 09:47 | 04/16/21 10:35 | |
| 570-56782-72 | SSD-29-3.0 | Solid | 04/15/21 09:49 | 04/16/21 10:35 | |
| 570-56782-73 | SSD-29-3.5 | Solid | 04/15/21 09:51 | 04/16/21 10:35 | |
| 570-56782-74 | SSD-29-4.0 | Solid | 04/15/21 09:53 | 04/16/21 10:35 | |
| 570-56782-75 | SSD-20-1.0 | Solid | 04/15/21 09:55 | 04/16/21 10:35 | |
| 570-56782-76 | SSD-20-2.0 | Solid | 04/15/21 09:57 | 04/16/21 10:35 | |
| 570-56782-77 | SSD-20-3.0 | Solid | 04/15/21 09:59 | 04/16/21 10:35 | |
| 570-56782-78 | SSD-20-4.0 | Solid | 04/15/21 10:01 | 04/16/21 10:35 | |
| 570-56782-79 | SSD-22-3.5 | Solid | 04/15/21 10:20 | 04/16/21 10:35 | |
| 570-56782-80 | SSD-22-4.0 | Solid | 04/15/21 10:22 | 04/16/21 10:35 | |
| 570-56782-81 | SSD-24-3.5 | Solid | 04/15/21 10:35 | 04/16/21 10:35 | |
| 570-56782-82 | SSD-24-4.0 | Solid | 04/15/21 10:37 | 04/16/21 10:35 | |
| 570-56782-83 | SSD-23-1.0 | Solid | 04/15/21 10:40 | 04/16/21 10:35 | |
| 570-56782-84 | SSD-23-2.0 | Solid | 04/15/21 10:42 | 04/16/21 10:35 | |
| 570-56782-85 | SSD-23-3.0 | Solid | 04/15/21 10:44 | 04/16/21 10:35 | |
| 570-56782-86 | SSD-23-4.0 | Solid | 04/15/21 10:46 | 04/16/21 10:35 | |
| 570-56782-87 | SSD-25-1.0 | Solid | 04/15/21 10:50 | 04/16/21 10:35 | |
| 570-56782-88 | SSD-25-2.0 | Solid | 04/15/21 10:52 | 04/16/21 10:35 | |
| 570-56782-89 | SSD-25-3.0 | Solid | 04/15/21 10:54 | 04/16/21 10:35 | |
| 570-56782-90 | SSD-25-4.0 | Solid | 04/15/21 10:56 | 04/16/21 10:35 | |

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Report for:

**Lena Davidkova**
**Eurofins Calscience LLC**
17461 Derian Ave.
Suite 100
Irvine, CA 92614

Regarding: Project: 570-56782-1; Chevron 206145 Oakland Center Street
EML ID: 2625165

Approved by:

Murali R Putty

Technical Manager
Murali Putty

Dates of Analysis:
Asbestos-CARB 435 (1000 pt ct): 05-03-2021

Service SOPs: Asbestos-CARB 435 (1000 pt ct) (EM-AS-S-1265)
NVLAP Lab Code 200728-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

**Eurofins EMLab P&K**
6000 Shoreline Ct, Ste 205, So. San Francisco, CA 94080
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Eurofins Calscience LLC
C/O: Lena Davidkova
Re: 570-56782-1; Chevron 206145 Oakland Center Street

Date of Submittal: 04-22-2021
Date of Receipt: 04-22-2021
Date of Report: 05-03-2021

## ASBESTOS POINT COUNT REPORT: CARB METHOD 435

| Location: | SSD-19-0.0 (570-56782-2) | | |
|---|---|---|---|
| Total Points Counted: | 1000 | | |
| Lab ID-Version‡: | 12535301-1 | | |
| **Sample Layers** | **Asbestos Type** | **Asbestos Points Counted** | **Asbestos Concentration (%)** |
| Brown Soil | - | - | ND |
| **Layer Totals:** | | - | - |

**Comments:** No asbestos was detected and no points were counted.

| Location: | SSD-6-0.0 (570-56782-39) | | |
|---|---|---|---|
| Total Points Counted: | 1000 | | |
| Lab ID-Version‡: | 12535302-1 | | |
| **Sample Layers** | **Asbestos Type** | **Asbestos Points Counted** | **Asbestos Concentration (%)** |
| Brown Soil | - | - | ND |
| **Layer Totals:** | | - | - |

**Comments:** No asbestos was detected and no points were counted.

| Location: | SSD-6-1.0 (570-56782-40) | | |
|---|---|---|---|
| Total Points Counted: | 1000 | | |
| Lab ID-Version‡: | 12535303-1 | | |
| **Sample Layers** | **Asbestos Type** | **Asbestos Points Counted** | **Asbestos Concentration (%)** |
| Brown Soil | - | - | ND |
| **Layer Totals:** | | - | - |

**Comments:** No asbestos was detected and no points were counted.

The analytical sensitivity is 1 asbestos point. The limit of detection is 1 asbestos point divided by the total number of points counted and multiplied by 100.

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government.

All samples were received in acceptable condition unless otherwise noted. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

**Eurofins EMLab P&K**
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(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Eurofins Calscience LLC
C/O: Lena Davidkova
Re: 570-56782-1; Chevron 206145 Oakland Center Street

Date of Submittal: 04-22-2021
Date of Receipt: 04-22-2021
Date of Report: 05-03-2021

## ASBESTOS POINT COUNT REPORT: CARB METHOD 435

| Location: | SSD-6-2.0 (570-56782-41) | | |
|---|---|---|---|
| Total Points Counted: | 1000 | | |
| Lab ID-Version‡: | 12535304-1 | | |
| **Sample Layers** | **Asbestos Type** | **Asbestos Points Counted** | **Asbestos Concentration (%)** |
| Brown Soil | - | - | ND |
| **Layer Totals:** | | - | - |

**Comments:** No asbestos was detected and no points were counted.

| Location: | SSD-6-3.0 (570-56782-42) | | |
|---|---|---|---|
| Total Points Counted: | 1000 | | |
| Lab ID-Version‡: | 12535305-1 | | |
| **Sample Layers** | **Asbestos Type** | **Asbestos Points Counted** | **Asbestos Concentration (%)** |
| Brown Soil | - | - | ND |
| **Layer Totals:** | | - | - |

**Comments:** No asbestos was detected and no points were counted.

The analytical sensitivity is 1 asbestos point. The limit of detection is 1 asbestos point divided by the total number of points counted and multiplied by 100.

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government.

All samples were received in acceptable condition unless otherwise noted. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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570-56782 Chain of Custody

# CHAIN OF CUSTODY RECORD

56782

DATE: 4/14/21 - 4/15/21

PAGE: 1 OF 9

| | |
|---|---|
| LABORATORY CLIENT: Arcadis U S Inc | |
| ADDRESS: 2300 Clayton Rd Ste 400 | |
| CITY: Concord STATE: CA ZIP: 94520 | |
| TEL.: 609-216-8139 E-MAIL: Nicholas.Cardella@arcadis.com | |
| | PO NO: 30045659 |
| | PROJECT CONTACT: Nicholas Cardella |
| | SAMPLER(S) (PRINT): Radley A. and Mia J |

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS:

## REQUESTED ANALYSES

Please check box or fill in blank as needed.

| LAB USE ONLY | SAMPLE ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered | TPH-g by USEPA Method 8015 Modified | TPH-d by USEPA Method 8015 Modified | Full list VOCS by USEPA Method 8260B | PAHs and Naphthalene by USEPA Method 8270B | Lead by USEPA Method 6010B | Asbestos - CARB 435A | PCBs by USEPA Method 8082 with 541-Automated Soxhlet Extraction | OCPs by USEPA Method 8081A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SSD-19-4.0 | 4/14/21 | 1058 | Soil | 1 | X | | | | | | | X | | | |
| 2 | SSD-19-0.0 | | 1050 | Soil | 2 | X | | | | | | | | X | X | X |
| 3 | SSD-18-1.0 | | 1114 | Soil | 1 | X | | | | | | | X | | | |
| 4 | SSD-18-2.0 | | 1116 | Soil | 1 | X | | | | | | | X | | | |
| 5 | SSD-18-3.0 | | 1120 | Soil | 1 | X | | | | | | | X | | | |
| 6 | SSD-18-4.0 | | 1122 | Soil | 1 | X | | | | | | | X | | | |
| 7 | SSD-14-1.0 | | 1320 | Soil | 1 | X | | | | | | | X | | | |
| 8 | SSD-14-2.0 | | 1322 | Soil | 1 | X | | | | | | | X | | | |
| 9 | SSD-14-3.0 | | 1324 | Soil | 1 | X | | | | | | | X | | | |
| 10 | SSD-14-4.0 | | 1326 | Soil | 1 | X | | | | | | | X | | | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) ECI | Date: 4/15/21 | Time: 1330 |
| Relinquished by: (Signature) 680 4/15/21 1630 | Received by: (Signature/Affiliation) | Date: 4/16/21 | Time: 10:35 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: | Time: |

3-4/3-7, 3-0/3-4, 3-2/3-6 SG

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# CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 4/14/21 - 4/15/21

PAGE: 2 OF 9

LABORATORY CLIENT: Arcadis U S Inc

ADDRESS: 2300 Clayton Rd Ste 400

CITY: Concord STATE: CA ZIP: 94520

TEL: 609-216-8139 E-MAIL: Nicholas.Cardella@arcadis.com

CLIENT PROJECT NAME / NUMBER: Chevron 206145

P O NO: 30045659

PROJECT CONTACT: Nicholas Cardella

SAMPLER(S): (PRINT): Radley A and Mia J

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

## REQUESTED ANALYSES

Please check box or fill in blank as needed.

| LAB USE ONLY | SAMPLE ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered | TPH-g by USEPA Method 8015 Modified | TPH-d by USEPA Method 8015 Modified | Full list VOCs by USEPA Method 8260B | PAHs and Naphthalene by USEPA Method 8270B | Lead by USEPA Method 6010B | Asbestos - CARB 435A | PCBs by USEPA Method 8082 with 541-Automated Soxhlet Extraction | OCPs by USEPA Method 8081A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | SSD-13-1.0 | 4/14/21 | 1330 | Soil | 1 | X | | | | | | | X | | | |
| 12 | SSD-13-2.0 | | 1332 | Soil | 1 | X | | | | | | | X | | | |
| 13 | SSD-13-3.0 | | 1334 | Soil | 1 | X | | | | | | | X | | | |
| 14 | SSD-13-4.0 | | 1336 | Soil | 1 | X | | | | | | | X | | | |
| 15 | SSD-10-1.0 | | 1345 | Soil | 1 | X | | | | | | | X | | | |
| 16 | SSD-10-2.0 | | 1347 | Soil | 1 | X | | | | | | | X | | | |
| 17 | SSD-10-3.0 | | 1349 | Soil | 1 | X | | | | | | | X | | | |
| 18 | SSD-10-4.0 | | 1351 | Soil | 1 | X | | | | | | | X | | | |
| 19 | SSD-9-1.0 | | 1400 | Soil | 1 | X | | | | | | | X | | | |
| 20 | SSD-9-2.0 | | 1402 | Soil | 1 | X | | | | | | | X | | | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) ECY | Date: 4/15/21 | Time: 1330 |
| Relinquished by: (Signature) TO GSO 4/15/21 1630 | Received by: (Signature/Affiliation) @ | Date: 4/16/21 | Time: 0735 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: | Time: |

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# CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 4/14/21

PAGE: 3 OF 9

LABORATORY CLIENT: Arcadis U S Inc

ADDRESS: 2300 Clayton Rd Ste 400

CITY: Concord STATE: CA ZIP: 94520

TEL: 609-216-8139 E-MAIL: Nicholas.Cardella@arcadis.com

CLIENT PROJECT NAME / NUMBER: Chevron 206145

P O NO.: 30045659

PROJECT CONTACT: Nicholas Cardella

SAMPLER(S) (PRINT): Radley A and Mia J

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

## REQUESTED ANALYSES

Please check box or fill in blank as needed

| LAB USE ONLY | SAMPLE ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered | TPH-g by USEPA Method 8015 Modified | TPH-d by USEPA Method 8015 Modified | Full list VOCS by USEPA Method 8260B | PAHs and Naphthalene by USEPA Method 8270B | Lead by USEPA Method 6010B | Asbestos - CARB 435A | PCBs by USEPA Method 8082 with 541-Automated Soxhlet Extraction | OCPs by USEPA Method 8081A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | SSD-9-3.0 | 4/14/21 | 1404 | Soil | 1 | X | | | | | | | X | | | |
| 22 | SSD-9-4.0 | | 1406 | Soil | 1 | X | | | | | | | X | | | |
| 23 | SSD-8-1.0 | | 1435 | Soil | | X | | | | | | | X | | | |
| 24 | SSD-8-2.0 | | 1437 | Soil | | X | | | | | | | X | | | |
| 25 | SSD-8-3.0 | | 1439 | Soil | | X | | | | | | | X | | | |
| 26 | SSD-8-4.0 | | 1441 | Soil | | X | | | | | | | X | | | |
| 27 | SSD-7-1.0 | | 1443 | Soil | | X | | | | | | | X | | | |
| 28 | SSD-7-2.0 | | 1445 | Soil | | X | | | | | | | X | | | |
| 29 | SSD-7-3.0 | | 1447 | Soil | | X | | | | | | | X | | | |
| 30 | SSD-7-4.0 | | 1449 | Soil | | X | | | | | | | X | | | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) ECI | Date: 4/15/21 | Time: 1330 |
| Relinquished by: (Signature) to 680 4/15/21 1630 | Received by: (Signature/Affiliation) | Date: 4/16/21 | Time: 10:35 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: | Time: |

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# CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 4/14-4/15

PAGE: 4 OF 9

LABORATORY CLIENT: Arcadis U S Inc

ADDRESS: 2300 Clayton Rd Ste 400

CITY: Concord STATE: CA ZIP: 94520

TEL: 609-216-8139 E-MAIL: Nicholas Cardella@arcadis com

CLIENT PROJECT NAME / NUMBER: Chevron 206145

PO NO: 30045659

PROJECT CONTACT: Nicholas Cardella

SAMPLER(S): (PRINT): Radley A and Mia J

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE

SPECIAL INSTRUCTIONS.

## REQUESTED ANALYSES

Please check box or fill in blank as needed

| LAB USE ONLY | SAMPLE ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered | TPH-g by USEPA Method 8015 Modified | TPH-d by USEPA Method 8015 Modified | Full list VOCS by USEPA Method 8260B | PAHs and Naphthalene by USEPA Method 8270B | Lead by USEPA Method 6010B | Asbestos - CARB 435A | PCBs by USEPA Method 8082 with 541-Automated Soxhlet Extraction | OCPs by USEPA Method 8081A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | SB-3-10.0 | 4/14/21 | 1520 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 32 | SB-3-15.0 | | 1540 | Soil | 5 | | X | | X | X | X | | | | | |
| 33 | SB-4-10.0 | | 1545 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 34 | SB-4-15.0 | | 1550 | Soil | 5 | | X | | X | X | X | | | | | |
| 35 | SSD-5-1.0 | 4/15/21 | 0808 | Soil | 1 | X | | | | | | | X | | | |
| 36 | SSD-5-2.0 | | 0810 | Soil | 1 | X | | | | | | | X | | | |
| 37 | SSD-5-3.0 | | 0812 | Soil | 1 | X | | | | | | | X | | | |
| 38 | SSD-5-4.0 | | 0814 | Soil | 1 | X | | | | | | | X | | | |
| 39 | SSD-6-0.0 | | 0816 | Soil | 2 | X | | | | | | | | X | X | X |
| 40 | SSD-6-1.0 | | 0818 | Soil | 2 | X | | | | | | | X | X | X | X |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) ECL | Date: 4/15/21 | Time: 1830 |
| Relinquished by: (Signature) to GSO 4/15/21 1630 | Received by: (Signature/Affiliation) | Date: 4/16/21 | Time: 10:35 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: | Time: |

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# CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 4/14 - 4/15

PAGE: 5 OF 9

LABORATORY CLIENT: Arcadis U S Inc

ADDRESS: 2300 Clayton Rd Ste 400

CITY: Concord STATE: CA ZIP: 94520

TEL: 609-216-8139 E-MAIL: Nicholas.Cardella@arcadis.com

CLIENT PROJECT NAME / NUMBER: Chevron 206145

PO NO: 30045659

PROJECT CONTACT: Nicholas Cardella

SAMPLER(S) (PRINT): Radley A. and Mia J

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

## REQUESTED ANALYSES

Please check box or fill in blank as needed

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 41 | SSD-6-2.0 | 4/15/21 | 0820 | Soil | 2 | X | | | | | | | X | X | X | X |
| 42 | SSD-6-3.0 | | 0822 | Soil | 2 | X | | | | | | | X | X | X | X |
| 43 | SSD-6-4.0 | | 0824 | Soil | 1 | X | | | | | | | X | | | |
| 44 | SSD-4-1.0 | | 0900 | Soil | 1 | X | | | | | | | X | | | |
| 45 | SSD-4-2.0 | | 0902 | Soil | 1 | X | | | | | | | X | | | |
| 46 | SSD-4-3.0 | | 0904 | Soil | 1 | X | | | | | | | X | | | |
| 47 | SSD-4-4.0 | | 0906 | Soil | 1 | X | | | | | | | X | | | |
| 48 | SSD-3-1.0 | | 0908 | Soil | 1 | X | | | | | | | X | | | |
| 49 | SSD-3-2.0 | | 0910 | Soil | 1 | X | | | | | | | X | | | |
| 50 | SSD-3-3.0 | | 0912 | Soil | 1 | X | | | | | | | X | | | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) ECI | Date: 4/15/21 | Time: 1330 |
| Relinquished by: (Signature) TO 6880 4/15/21 1630 | Received by: (Signature/Affiliation) | Date: 4/16/21 | Time: 10:30 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: | Time: |

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# CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 4/14 - 4/15

PAGE: 6 OF 9

LABORATORY CLIENT: Arcadis U S Inc

ADDRESS: 2300 Clayton Rd Ste 400

CITY: Concord STATE: CA ZIP: 94520

TEL: 609-216-8139 E-MAIL: Nicholas Cardella@arcadis.com

CLIENT PROJECT NAME / NUMBER: Chevron 206145

P.O. NO: 30045659

PROJECT CONTACT: Nicholas Cardella

SAMPLER(S): (PRINT): Radley A and Mia J

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD').

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE

SPECIAL INSTRUCTIONS.

## REQUESTED ANALYSES

Please check box or fill in blank as needed

| LAB USE ONLY | SAMPLE ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered | TPH-g by USEPA Method 8015 Modified | TPH-d by USEPA Method 8015 Modified | Full list VOCs by USEPA Method 8260B | PAHs and Naphthalene by USEPA Method 8270B | Lead by USEPA Method 6010B | Asbestos - CARB 435A | PCBs by USEPA Method 8082 with 541-Automated Soxhlet Extraction | OCPs by USEPA Method 8081A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 51 | SSD-3-4.0 | 4/15/21 | 0914 | Soil | 1 | X | | | | | | | X | | | |
| 52 | SSD-2-1.0 | | 0916 | Soil | 1 | X | | | | | | | X | | | |
| 53 | SSD-2-2.0 | | 0918 | Soil | 1 | X | | | | | | | X | | | |
| 54 | SSD-2-3.0 | | 0920 | Soil | 1 | X | | | | | | | X | | | |
| 55 | SSD-2-4.0 | | 0922 | Soil | 1 | X | | | | | | | X | | | |
| 56 | SSD-1-1.0 | | 0924 | Soil | 1 | X | | | | | | | X | | | |
| 57 | SSD-1-2.0 | | 0926 | Soil | 1 | X | | | | | | | X | | | |
| 58 | SSD-1-3.0 | | 0928 | Soil | 1 | X | | | | | | | X | | | |
| 59 | SSD-1-4.0 | | 0930 | Soil | 1 | X | | | | | | | X | | | |
| 60 | SSD-29-1.0 | | 0945 | Soil | 1 | X | | | | | | | X | | | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) ECI | Date: 4/15/21 | Time: 1330 |
| Relinquished by: (Signature) TO GSD 4/15/21 1630 | Received by: (Signature/Affiliation) CR | Date: 4/16/21 | Time: 10:35 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: | Time: |

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# CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 4/15/21

PAGE: 7 OF 9

LABORATORY CLIENT: Arcadis U S Inc

ADDRESS: 2300 Clayton Rd Ste 400

CITY: Concord STATE: CA ZIP: 94520

TEL: 609-216-8139 E-MAIL: Nicholas.Cardella@arcadis.com

CLIENT PROJECT NAME / NUMBER: Chevron 206145

P.O. NO.: 30045659

PROJECT CONTACT: Nicholas Cardella

SAMPLER(S): (PRINT): Radley A and Mia J

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD').

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE

SPECIAL INSTRUCTIONS:

## REQUESTED ANALYSES

Please check box or fill in blank as needed

| LAB USE ONLY | SAMPLE ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered | TPH-g by USEPA Method 8015 Modified | TPH-d by USEPA Method 8015 Modified | Full list VOCs by USEPA Method 8260B | PAHs and Naphthalene by USEPA Method 8270B | Lead by USEPA Method 6010B | Asbestos - CARB 435A | PCBs by USEPA Method 8082 with 541-Automated Soxhlet Extraction | OCPs by USEPA Method 8081A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 41 | G-15-C-10.0 | 4/15/21 | 905 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 42 | G-15-C-15.0 | | 920 | Soil | 5 | | X | | X | X | X | | | | | |
| 43 | G-16-C-10.0 | | 935 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 44 | G-16-C-15.0 | | 945 | Soil | 5 | | | | | | | | | | | |
| 45 | G-17-C-10.0 | | 1015 | Soil | 7 | | | | X | X | X | X | X | | | |
| 46 | G-17-C-15.0 | | 1025 | Soil | 6 | | | | X | X | X | | X | | | |
| 47 | SW-3-C-10.0 | | 1115 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 48 | SW-3-C-15.0 | | 1125 | Soil | 5 | | X | | X | X | X | | | | | |
| 49 | SW-4/MW-14-C-10.0 | | 1240 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 50 | SW-4/MW-14-C-15.0 | | 1250 | Soil | 5 | | X | | X | X | X | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) ECI | Date: 4/15/21 | Time: 1330 |
| Relinquished by: (Signature) To GSO 4/15/21 1630 | Received by: (Signature/Affiliation) | Date 4/16/21 | Time: 10:35 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date | Time: |

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# CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 4/14 - 4/15

PAGE: 8 OF 9

| | |
|---|---|
| LABORATORY CLIENT: Arcadis U S Inc | CLIENT PROJECT NAME / NUMBER: Chevron 206145 |
| ADDRESS: 2300 Clayton Rd Ste 400 | PO NO: 30045659 |
| CITY: Concord STATE: CA ZIP: 94520 | PROJECT CONTACT: Nicholas Cardella |
| TEL: 609-216-8139 E-MAIL: Nicholas.Cardella@arcadis.com | SAMPLER(S): (PRINT) Radley A and Mia J |

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS.

## REQUESTED ANALYSES

Please check box or fill in blank as needed.

| LAB USE ONLY | SAMPLE ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered | TPH-g by USEPA Method 8015 Modified | TPH-d by USEPA Method 8015 Modified | Full list VOCS by USEPA Method 8260B | PAHs and Naphthalene by USEPA Method 8270B | Lead by USEPA Method 6010B | Asbestos - CARB 435A | PCBs by USEPA Method 8082 with 541-Automated Soxhlet Extraction | OCPs by USEPA Method 8081A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 71 | SSD-29-2.0 | 4/15/21 | 0947 | Soil | 1 | X | | | | | | | X | | | |
| 72 | SSD-29-3.0 | | 0949 | Soil | 1 | X | | | | | | | X | | | |
| 73 | SSD-29-3.5 | | 0951 | Soil | 1 | X | | | | | | | X | | | |
| 74 | SSD-29-4.0 | | 0953 | Soil | 1 | X | | | | | | | X | | | |
| 75 | SSD-20-1.0 | | 0955 | Soil | 1 | X | | | | | | | X | | | |
| 76 | SSD-20-2.0 | | 0957 | Soil | 1 | X | | | | | | | X | | | |
| 77 | SSD-20-3.0 | | 0959 | Soil | 1 | X | | | | | | | X | | | |
| 78 | SSD-20-4.0 | | 1001 | Soil | 1 | X | | | | | | | X | | | |
| 79 | SSD-22-3.5 | | 1020 | Soil | 1 | X | | | | | | | X | | | |
| 80 | SSD-22-4.0 | | 1022 | Soil | 1 | X | | | | | | | X | | | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: 4/13/21 | Time: 1330 |
| Relinquished by: (Signature) to GSO 4/15/21 1630 | Received by: (Signature/Affiliation) FCL | Date: 4/16/21 | Time: 0735 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: | Time: |

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# CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 4/14/21 - 4/15/21

PAGE: 7 OF 9

LABORATORY CLIENT: Arcadis U S Inc

ADDRESS: 2300 Clayton Rd Ste 400

CITY: Concord STATE: CA ZIP: 94520

TEL: 609-216-8139 E-MAIL: Nicholas Cardella@arcadis.com

CLIENT PROJECT NAME / NUMBER: Chevron 206145

PO NO: 30045659

PROJECT CONTACT: Nicholas Cardella

SAMPLER(S): (PRINT): Radley A. and Mia J

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE

SPECIAL INSTRUCTIONS.

## REQUESTED ANALYSES

Please check box or fill in blank as needed

| LAB USE ONLY | SAMPLE ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered | TPH-g by USEPA Method 8015 Modified | TPH-d by USEPA Method 8015 Modified | Full list VOCs by USEPA Method 8260B | PAHs and Naphthalene by USEPA Method 8270B | Lead by USEPA Method 6010B | Asbestos - CARB 435A | PCBs by USEPA Method 8082 with 541-Automated Soxhlet Extraction | OCPs by USEPA Method 8081A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 81 | SSD-24-3.5 | 4/15/21 | 1035 | Soil | 1 | X | | | | | | | X | | | |
| 82 | SSD-24-4.0 | | 1037 | Soil | 1 | X | | | | | | | X | | | |
| 83 | SSD-23-1.0 | | 1040 | Soil | 1 | X | | | | | | | X | | | |
| 84 | SSD-23-2.0 | | 1042 | Soil | 1 | X | | | | | | | X | | | |
| 85 | SSD-23-3.0 | | 1044 | Soil | 1 | X | | | | | | | X | | | |
| 86 | SSD-23-4.0 | | 1046 | Soil | 1 | X | | | | | | | X | | | |
| 87 | SSD-25-1.0 | | 1050 | Soil | 1 | X | | | | | | | X | | | |
| 88 | SSD-25-2.0 | | 1052 | Soil | 1 | X | | | | | | | X | | | |
| 89 | SSD-25-3.0 | | 1054 | Soil | 1 | X | | | | | | | X | | | |
| 90 | SSD-25-4.0 | | 1056 | Soil | 1 | X | | | | | | | X | | | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) ECL | Date: 4/15/21 | Time: 1330 |
| Relinquished by: (Signature) to GSO 4/15/21 1630 | Received by: (Signature/Affiliation) | Date: 4/16/21 | Time: 1036 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: | Time: |

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570-56782 Waybill

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AL CIRCLE

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Tracking #: 552977823

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ctions:

: STANDARD

ORC CA927-CL0

Print Date: 4/15/2021 4:14 PM

RUCTIONS:

1/3

# Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 570-56782-1

**Login Number: 56782**
**List Number: 1**
**Creator: Ramos, Maribel**

**List Source: Eurofins Calscience**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | False | Refer to Job Narrative for details. |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | False | Refer to Job Narrative for details. |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

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# ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-56801-1
Client Project/Site: Chevron 206145

For:
ARCADIS U.S. Inc
111 SW Columbia Street
Suite 670
Portland, Oregon 97201

Attn: Meg Armstrong

*Authorized for release by:*
*4/30/2021 1:27:17 PM*

Lena Davidkov, Project Manager II
(949)260-3229
Lena.Davidkova@Eurofinset.com

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*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56801-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

# Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56801-1

## Job ID: 570-56801-1

### Laboratory: Eurofins Calscience LLC

**Narrative**

**Job Narrative**
**570-56801-1**

**Comments**
TPH-d container not received for the following sample: SW-2-C-15.0 (570-56801-2)

**Receipt**
The samples were received on 4/16/2021 10:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.8º C.

**GC/MS VOA**
Method 8260B: The continuing calibration verification (CCV) associated with batch 570-144782 recovered above the upper control limit for Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 570-144782/3).

Method 8260B: The following analyte(s) recovered outside control limits for the LCS associated with analytical batch 570-144782: Vinyl acetate. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 570-144782.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-145066.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**GC/MS Semi VOA**
Method 8270C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-144544 and analytical batch 570-144891 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**GC VOA**
Method 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-145050.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**GC Semi VOA**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Organic Prep**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**VOA Prep**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56801-1

## Client Sample ID: SW-2-C-10.0 — Lab Sample ID: 570-56801-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 390 | | 8.2 | 2.5 | mg/Kg | 5000 | | 8260B | Total/NA |
| 1,3,5-Trimethylbenzene | 120 | | 8.2 | 2.5 | mg/Kg | 5000 | | 8260B | Total/NA |
| Benzene | 8.7 | | 4.1 | 1.1 | mg/Kg | 5000 | | 8260B | Total/NA |
| Ethylbenzene | 320 | | 4.1 | 0.84 | mg/Kg | 5000 | | 8260B | Total/NA |
| Isopropylbenzene | 14 | | 4.1 | 2.5 | mg/Kg | 5000 | | 8260B | Total/NA |
| Naphthalene | 52 | | 41 | 21 | mg/Kg | 5000 | | 8260B | Total/NA |
| n-Butylbenzene | 27 | | 4.1 | 0.86 | mg/Kg | 5000 | | 8260B | Total/NA |
| N-Propylbenzene | 52 | | 8.2 | 2.5 | mg/Kg | 5000 | | 8260B | Total/NA |
| o-Xylene | 360 | | 4.1 | 2.5 | mg/Kg | 5000 | | 8260B | Total/NA |
| m,p-Xylene | 1100 | | 8.2 | 1.9 | mg/Kg | 5000 | | 8260B | Total/NA |
| Toluene | 460 | | 4.1 | 2.5 | mg/Kg | 5000 | | 8260B | Total/NA |
| 1-Methylnaphthalene | 15 | | 0.50 | 0.036 | mg/Kg | 1 | | 8270C | Total/NA |
| Fluorene | 0.12 | J | 0.50 | 0.066 | mg/Kg | 1 | | 8270C | Total/NA |
| Phenanthrene | 0.25 | J | 0.50 | 0.060 | mg/Kg | 1 | | 8270C | Total/NA |
| Pyrene | 0.092 | J | 0.50 | 0.075 | mg/Kg | 1 | | 8270C | Total/NA |
| 2-Methylnaphthalene - DL | 32 | | 2.5 | 0.28 | mg/Kg | 5 | | 8270C | Total/NA |
| Naphthalene - DL | 39 | | 2.5 | 0.29 | mg/Kg | 5 | | 8270C | Total/NA |
| GRO (C6-C12) | 11000 | | 160 | 91 | mg/Kg | 2000 | | 8015B | Total/NA |
| C13-C22 | 250 | | 99 | 76 | mg/Kg | 20 | | 8015B | Total/NA |

## Client Sample ID: SW-2-C-15.0 — Lab Sample ID: 570-56801-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.010 | | 0.0015 | 0.00044 | mg/Kg | 1 | | 8260B | Total/NA |
| 1,3,5-Trimethylbenzene | 0.0037 | | 0.0015 | 0.00044 | mg/Kg | 1 | | 8260B | Total/NA |
| 2-Butanone | 0.0064 | J | 0.015 | 0.0033 | mg/Kg | 1 | | 8260B | Total/NA |
| Acetone | 0.027 | | 0.015 | 0.0072 | mg/Kg | 1 | | 8260B | Total/NA |
| Ethylbenzene | 0.022 | | 0.00074 | 0.00015 | mg/Kg | 1 | | 8260B | Total/NA |
| Isopropylbenzene | 0.0010 | | 0.00074 | 0.00044 | mg/Kg | 1 | | 8260B | Total/NA |
| n-Butylbenzene | 0.0025 | | 0.00074 | 0.00016 | mg/Kg | 1 | | 8260B | Total/NA |
| N-Propylbenzene | 0.0027 | | 0.0015 | 0.00044 | mg/Kg | 1 | | 8260B | Total/NA |
| o-Xylene | 0.0036 | | 0.00074 | 0.00044 | mg/Kg | 1 | | 8260B | Total/NA |
| m,p-Xylene | 0.013 | | 0.0015 | 0.00035 | mg/Kg | 1 | | 8260B | Total/NA |
| sec-Butylbenzene | 0.00069 | J | 0.00074 | 0.00044 | mg/Kg | 1 | | 8260B | Total/NA |
| Toluene | 0.0039 | | 0.00074 | 0.00044 | mg/Kg | 1 | | 8260B | Total/NA |
| Benzene - DL | 0.54 | | 0.036 | 0.0093 | mg/Kg | 50 | | 8260B | Total/NA |
| GRO (C6-C12) | 3.3 | | 1.5 | 0.81 | mg/Kg | 20 | | 8015B | Total/NA |

This Detection Summary does not include radiochemical test results.

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: SW-2-C-10.0**
**Date Collected: 04/15/21 12:45**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56801-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 4.1 | 1.2 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 1,1,1-Trichloroethane | ND | | 4.1 | 0.96 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 1,1,2,2-Tetrachloroethane | ND | | 8.2 | 2.2 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 41 | 1.9 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 1,1,2-Trichloroethane | ND | | 4.1 | 1.9 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 1,1-Dichloroethane | ND | | 4.1 | 1.1 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 1,1-Dichloroethene | ND | | 4.1 | 1.1 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 1,1-Dichloropropene | ND | | 8.2 | 1.6 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 1,2,3-Trichlorobenzene | ND | | 8.2 | 4.1 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 1,2,3-Trichloropropane | ND | | 8.2 | 1.7 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 1,2,4-Trichlorobenzene | ND | | 8.2 | 1.7 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| **1,2,4-Trimethylbenzene** | **390** | | 8.2 | 2.5 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 1,2-Dibromo-3-Chloropropane | ND | | 41 | 28 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 1,2-Dibromoethane | ND | | 4.1 | 0.84 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 1,2-Dichlorobenzene | ND | | 4.1 | 1.0 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 1,2-Dichloroethane | ND | | 4.1 | 1.1 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 1,2-Dichloropropane | ND | | 4.1 | 1.1 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| **1,3,5-Trimethylbenzene** | **120** | | 8.2 | 2.5 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 1,3-Dichlorobenzene | ND | | 4.1 | 1.0 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 1,3-Dichloropropane | ND | | 4.1 | 1.2 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 1,4-Dichlorobenzene | ND | | 4.1 | 1.3 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 2,2-Dichloropropane | ND | | 20 | 1.1 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 2-Butanone | ND | | 82 | 18 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 2-Chlorotoluene | ND | | 4.1 | 1.0 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 2-Hexanone | ND | | 82 | 13 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 4-Chlorotoluene | ND | | 4.1 | 0.99 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| 4-Methyl-2-pentanone | ND | | 82 | 12 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Acetone | ND | | 82 | 40 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| **Benzene** | **8.7** | | 4.1 | 1.1 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Bromobenzene | ND | | 4.1 | 0.85 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Bromochloromethane | ND | | 8.2 | 1.8 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Bromodichloromethane | ND | | 4.1 | 0.65 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Bromoform | ND | | 20 | 5.4 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Bromomethane | ND | | 82 | 27 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| cis-1,2-Dichloroethene | ND | | 4.1 | 1.4 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| cis-1,3-Dichloropropene | ND | | 4.1 | 1.4 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Carbon disulfide | ND | | 41 | 1.6 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Carbon tetrachloride | ND | | 4.1 | 1.2 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Chlorobenzene | ND | | 4.1 | 1.1 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Chloroethane | ND | | 8.2 | 6.1 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Chloroform | ND | | 4.1 | 2.4 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Chloromethane | ND | | 82 | 6.3 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Dibromochloromethane | ND | | 8.2 | 1.1 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Dibromomethane | ND | | 4.1 | 1.2 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Dichlorodifluoromethane | ND | | 8.2 | 1.9 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| **Ethylbenzene** | **320** | | 4.1 | 0.84 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| **Isopropylbenzene** | **14** | | 4.1 | 2.5 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Methylene Chloride | ND | | 41 | 13 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 8.2 | 0.77 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SW-2-C-10.0**
**Date Collected: 04/15/21 12:45**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56801-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Naphthalene** | **52** | | 41 | 21 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| **n-Butylbenzene** | **27** | | 4.1 | 0.86 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| **N-Propylbenzene** | **52** | | 8.2 | 2.5 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| **o-Xylene** | **360** | | 4.1 | 2.5 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| **m,p-Xylene** | **1100** | | 8.2 | 1.9 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| p-Isopropyltoluene | ND | | 4.1 | 2.9 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| sec-Butylbenzene | ND | | 4.1 | 2.5 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Styrene | ND | | 4.1 | 2.9 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| trans-1,2-Dichloroethene | ND | | 4.1 | 1.2 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| trans-1,3-Dichloropropene | ND | | 8.2 | 1.1 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| tert-Butylbenzene | ND | | 4.1 | 1.0 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Tetrachloroethene | ND | | 4.1 | 0.91 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| **Toluene** | **460** | | 4.1 | 2.5 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Trichloroethene | ND | | 8.2 | 1.6 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Trichlorofluoromethane | ND | | 41 | 1.1 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Vinyl acetate | ND | *+ | 41 | 16 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |
| Vinyl chloride | ND | | 4.1 | 1.5 | mg/Kg | | 04/19/21 15:20 | 04/21/21 19:07 | 5000 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *80 - 142* | *04/19/21 15:20* | *04/21/21 19:07* | *5000* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *80 - 120* | *04/19/21 15:20* | *04/21/21 19:07* | *5000* |
| *Dibromofluoromethane (Surr)* | *98* | | *80 - 123* | *04/19/21 15:20* | *04/21/21 19:07* | *5000* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* | *04/19/21 15:20* | *04/21/21 19:07* | *5000* |

**Client Sample ID: SW-2-C-15.0**
**Date Collected: 04/15/21 12:50**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56801-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00074 | 0.00021 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00074 | 0.00017 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0015 | 0.00040 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0074 | 0.00034 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00074 | 0.00034 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 1,1-Dichloroethane | ND | | 0.00074 | 0.00021 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 1,1-Dichloroethene | ND | | 0.00074 | 0.00020 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 1,1-Dichloropropene | ND | | 0.0015 | 0.00029 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0015 | 0.00074 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0015 | 0.00031 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0015 | 0.00030 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| **1,2,4-Trimethylbenzene** | **0.010** | | 0.0015 | 0.00044 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0074 | 0.0050 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 1,2-Dibromoethane | ND | | 0.00074 | 0.00015 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00074 | 0.00018 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 1,2-Dichloroethane | ND | | 0.00074 | 0.00020 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 1,2-Dichloropropane | ND | | 0.00074 | 0.00020 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| **1,3,5-Trimethylbenzene** | **0.0037** | | 0.0015 | 0.00044 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00074 | 0.00019 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 1,3-Dichloropropane | ND | | 0.00074 | 0.00022 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00074 | 0.00023 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 2,2-Dichloropropane | ND | | 0.0037 | 0.00020 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SW-2-C-15.0**
**Date Collected: 04/15/21 12:50**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56801-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **2-Butanone** | **0.0064** | **J** | 0.015 | 0.0033 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 2-Chlorotoluene | ND | | 0.00074 | 0.00019 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 2-Hexanone | ND | | 0.015 | 0.0023 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 4-Chlorotoluene | ND | | 0.00074 | 0.00018 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.015 | 0.0021 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| **Acetone** | **0.027** | | 0.015 | 0.0072 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Bromobenzene | ND | | 0.00074 | 0.00015 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Bromochloromethane | ND | | 0.0015 | 0.00033 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Bromodichloromethane | ND | | 0.00074 | 0.00012 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Bromoform | ND | | 0.0037 | 0.00097 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Bromomethane | ND | | 0.015 | 0.0048 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00074 | 0.00025 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00074 | 0.00026 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Carbon disulfide | ND | | 0.0074 | 0.00029 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Carbon tetrachloride | ND | | 0.00074 | 0.00022 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Chlorobenzene | ND | | 0.00074 | 0.00020 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Chloroethane | ND | | 0.0015 | 0.0011 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Chloroform | ND | | 0.00074 | 0.00043 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Chloromethane | ND | | 0.015 | 0.0011 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Dibromochloromethane | ND | | 0.0015 | 0.00020 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Dibromomethane | ND | | 0.00074 | 0.00022 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Dichlorodifluoromethane | ND | | 0.0015 | 0.00033 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| **Ethylbenzene** | **0.022** | | 0.00074 | 0.00015 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| **Isopropylbenzene** | **0.0010** | | 0.00074 | 0.00044 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Methylene Chloride | ND | | 0.0074 | 0.0023 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0015 | 0.00014 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Naphthalene | ND | | 0.0074 | 0.0038 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| **n-Butylbenzene** | **0.0025** | | 0.00074 | 0.00016 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| **N-Propylbenzene** | **0.0027** | | 0.0015 | 0.00044 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| **o-Xylene** | **0.0036** | | 0.00074 | 0.00044 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| **m,p-Xylene** | **0.013** | | 0.0015 | 0.00035 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| p-Isopropyltoluene | ND | | 0.00074 | 0.00052 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| **sec-Butylbenzene** | **0.00069** | **J** | 0.00074 | 0.00044 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Styrene | ND | | 0.00074 | 0.00052 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00074 | 0.00022 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0015 | 0.00021 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| tert-Butylbenzene | ND | | 0.00074 | 0.00019 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Tetrachloroethene | ND | | 0.00074 | 0.00016 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| **Toluene** | **0.0039** | | 0.00074 | 0.00044 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Trichloroethene | ND | | 0.0015 | 0.00028 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Trichlorofluoromethane | ND | | 0.0074 | 0.00020 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Vinyl acetate | ND | *+ | 0.0074 | 0.0029 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |
| Vinyl chloride | ND | | 0.00074 | 0.00028 | mg/Kg | | 04/19/21 15:19 | 04/21/21 16:07 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *80 - 142* | *04/19/21 15:19* | *04/21/21 16:07* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *80 - 120* | *04/19/21 15:19* | *04/21/21 16:07* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *80 - 123* | *04/19/21 15:19* | *04/21/21 16:07* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/19/21 15:19* | *04/21/21 16:07* | *1* |

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56801-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

**Client Sample ID: SW-2-C-15.0**
**Date Collected: 04/15/21 12:50**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56801-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **0.54** | | 0.036 | 0.0093 | mg/Kg | | 04/19/21 15:20 | 04/22/21 14:42 | 50 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *80 - 142* | *04/19/21 15:20* | *04/22/21 14:42* | *50* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *80 - 120* | *04/19/21 15:20* | *04/22/21 14:42* | *50* |
| *Dibromofluoromethane (Surr)* | *95* | | *80 - 123* | *04/19/21 15:20* | *04/22/21 14:42* | *50* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/19/21 15:20* | *04/22/21 14:42* | *50* |

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56801-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Client Sample ID: SW-2-C-10.0**
**Date Collected: 04/15/21 12:45**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56801-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1-Methylnaphthalene** | **15** | | 0.50 | 0.036 | mg/Kg | | 04/20/21 10:29 | 04/21/21 15:56 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/20/21 10:29 | 04/21/21 15:56 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/20/21 10:29 | 04/21/21 15:56 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/20/21 10:29 | 04/21/21 15:56 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.045 | mg/Kg | | 04/20/21 10:29 | 04/21/21 15:56 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/20/21 10:29 | 04/21/21 15:56 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/20/21 10:29 | 04/21/21 15:56 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/20/21 10:29 | 04/21/21 15:56 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:29 | 04/21/21 15:56 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/20/21 10:29 | 04/21/21 15:56 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/20/21 10:29 | 04/21/21 15:56 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:29 | 04/21/21 15:56 | 1 |
| **Fluorene** | **0.12** | **J** | 0.50 | 0.066 | mg/Kg | | 04/20/21 10:29 | 04/21/21 15:56 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/20/21 10:29 | 04/21/21 15:56 | 1 |
| **Phenanthrene** | **0.25** | **J** | 0.50 | 0.060 | mg/Kg | | 04/20/21 10:29 | 04/21/21 15:56 | 1 |
| **Pyrene** | **0.092** | **J** | 0.50 | 0.075 | mg/Kg | | 04/20/21 10:29 | 04/21/21 15:56 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *74* | | *10 - 134* | *04/20/21 10:29* | *04/21/21 15:56* | *1* |
| *2-Fluorobiphenyl (Surr)* | *64* | | *14 - 142* | *04/20/21 10:29* | *04/21/21 15:56* | *1* |
| *2-Fluorophenol (Surr)* | *56* | | *10 - 123* | *04/20/21 10:29* | *04/21/21 15:56* | *1* |
| *Nitrobenzene-d5 (Surr)* | *54* | | *10 - 129* | *04/20/21 10:29* | *04/21/21 15:56* | *1* |
| *Phenol-d6 (Surr)* | *66* | | *10 - 120* | *04/20/21 10:29* | *04/21/21 15:56* | *1* |
| *p-Terphenyl-d14 (Surr)* | *73* | | *31 - 139* | *04/20/21 10:29* | *04/21/21 15:56* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) - DL

**Client Sample ID: SW-2-C-10.0**
**Date Collected: 04/15/21 12:45**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56801-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Methylnaphthalene | 32 | | 2.5 | 0.28 | mg/Kg | | 04/20/21 10:29 | 04/21/21 18:59 | 5 |
| Naphthalene | 39 | | 2.5 | 0.29 | mg/Kg | | 04/20/21 10:29 | 04/21/21 18:59 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *67* | | *10 - 134* | *04/20/21 10:29* | *04/21/21 18:59* | *5* |
| *2-Fluorobiphenyl (Surr)* | *68* | | *14 - 142* | *04/20/21 10:29* | *04/21/21 18:59* | *5* |
| *2-Fluorophenol (Surr)* | *73* | | *10 - 123* | *04/20/21 10:29* | *04/21/21 18:59* | *5* |
| *Nitrobenzene-d5 (Surr)* | *57* | | *10 - 129* | *04/20/21 10:29* | *04/21/21 18:59* | *5* |
| *Phenol-d6 (Surr)* | *61* | | *10 - 120* | *04/20/21 10:29* | *04/21/21 18:59* | *5* |
| *p-Terphenyl-d14 (Surr)* | *73* | | *31 - 139* | *04/20/21 10:29* | *04/21/21 18:59* | *5* |

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56801-1

## Method: 8015B - Gasoline Range Organics - (GC)

**Client Sample ID: SW-2-C-10.0**
**Date Collected: 04/15/21 12:45**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56801-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | 11000 | | 160 | 91 | mg/Kg | | 04/19/21 15:20 | 04/22/21 11:25 | 2000 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *42 - 126* | *04/19/21 15:20* | *04/22/21 11:25* | *2000* |

**Client Sample ID: SW-2-C-15.0**
**Date Collected: 04/15/21 12:50**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56801-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | 3.3 | | 1.5 | 0.81 | mg/Kg | | 04/19/21 15:20 | 04/22/21 10:37 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *82* | | *42 - 126* | *04/19/21 15:20* | *04/22/21 10:37* | *20* |

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56801-1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Client Sample ID: SW-2-C-10.0**
**Date Collected: 04/15/21 12:45**
**Date Received: 04/16/21 10:35**

**Lab Sample ID: 570-56801-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C13-C22** | **250** | | 99 | 76 | mg/Kg | | 04/20/21 16:07 | 04/22/21 03:14 | 20 |
| C23-C40 | ND | | 99 | 76 | mg/Kg | | 04/20/21 16:07 | 04/22/21 03:14 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *93* | | *60 - 138* | *04/20/21 16:07* | *04/22/21 03:14* | *20* |

# Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56801-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | BFB | DBFM | TOL |
| Lab Sample ID | Client Sample ID | (80-142) | (80-120) | (80-123) | (80-120) |
| 570-56801-1 | SW-2-C-10.0 | 102 | 103 | 98 | 102 |
| 570-56801-2 | SW-2-C-15.0 | 108 | 98 | 97 | 100 |
| 570-56801-2 - DL | SW-2-C-15.0 | 102 | 97 | 95 | 100 |
| LCS 570-144782/4 | Lab Control Sample | 103 | 102 | 101 | 100 |
| LCS 570-145066/4 | Lab Control Sample | 107 | 100 | 101 | 100 |
| LCSD 570-144782/5 | Lab Control Sample Dup | 102 | 103 | 99 | 99 |
| LCSD 570-145066/5 | Lab Control Sample Dup | 105 | 100 | 98 | 102 |
| MB 570-144782/7 | Method Blank | 99 | 94 | 95 | 100 |
| MB 570-144782/8 | Method Blank | 98 | 94 | 93 | 100 |
| MB 570-145066/10 | Method Blank | 103 | 95 | 94 | 101 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | |
|---|---|---|---|---|---|---|---|
| | | TBP | FBP | 2FP | NBZ | PHL6 | TPHd14 |
| Lab Sample ID | Client Sample ID | (10-134) | (14-142) | (10-123) | (10-129) | (10-120) | (31-139) |
| 570-56776-A-1-F MS | Matrix Spike | 79 | 80 | 72 | 62 | 69 | 92 |
| 570-56776-A-1-G MSD | Matrix Spike Duplicate | 85 | 81 | 70 | 63 | 68 | 96 |
| 570-56801-1 | SW-2-C-10.0 | 74 | 64 | 56 | 54 | 66 | 73 |
| 570-56801-1 - DL | SW-2-C-10.0 | 67 | 68 | 73 | 57 | 61 | 73 |
| LCS 570-144544/2-A | Lab Control Sample | 95 | 88 | 84 | 74 | 79 | 96 |
| LCSD 570-144544/3-A | Lab Control Sample Dup | 97 | 87 | 83 | 71 | 79 | 96 |
| MB 570-144544/1-A | Method Blank | 88 | 84 | 81 | 79 | 76 | 88 |

**Surrogate Legend**

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL6 = Phenol-d6 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

## Method: 8015B - Gasoline Range Organics - (GC)

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) |
|---|---|---|
| | | BFB1 |
| Lab Sample ID | Client Sample ID | (42-126) |
| 570-56801-1 | SW-2-C-10.0 | 115 |
| 570-56801-2 | SW-2-C-15.0 | 82 |
| LCS 570-145050/29 | Lab Control Sample | 95 |
| LCSD 570-145050/30 | Lab Control Sample Dup | 95 |
| MB 570-145050/32 | Method Blank | 77 |

**Surrogate Legend**

# Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56801-1

BFB = 4-Bromofluorobenzene (Surr)

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Matrix: Solid**

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) |
|---|---|---|
| **Lab Sample ID** | **Client Sample ID** | **OTCSN1 (60-138)** |
| 570-56480-B-8-A MS | Matrix Spike | 96 |
| 570-56480-B-8-B MSD | Matrix Spike Duplicate | 94 |
| 570-56801-1 | SW-2-C-10.0 | 93 |
| LCS 570-144679/2-A | Lab Control Sample | 94 |
| LCSD 570-144679/3-A | Lab Control Sample Dup | 92 |
| MB 570-144679/1-A | Method Blank | 88 |

**Surrogate Legend**

OTCSN = n-Octacosane (Surr)

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 570-144782/7**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.0010 | 0.00029 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.0010 | 0.00023 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0020 | 0.00054 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.010 | 0.00046 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.0010 | 0.00046 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,1-Dichloroethane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,1-Dichloroethene | ND | | 0.0010 | 0.00027 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,1-Dichloropropene | ND | | 0.0020 | 0.00039 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0020 | 0.0010 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0020 | 0.00042 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0020 | 0.00041 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.010 | 0.0068 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2-Dibromoethane | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2-Dichloroethane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2-Dichloropropane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,3-Dichloropropane | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.0010 | 0.00031 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 2,2-Dichloropropane | ND | | 0.0050 | 0.00027 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 2-Butanone | ND | | 0.020 | 0.0045 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 2-Chlorotoluene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 2-Hexanone | ND | | 0.020 | 0.0031 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 4-Chlorotoluene | ND | | 0.0010 | 0.00024 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.020 | 0.0029 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Acetone | ND | | 0.020 | 0.0098 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Benzene | ND | | 0.0010 | 0.00026 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Bromobenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Bromochloromethane | ND | | 0.0020 | 0.00044 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Bromodichloromethane | ND | | 0.0010 | 0.00016 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Bromoform | ND | | 0.0050 | 0.0013 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Bromomethane | ND | | 0.020 | 0.0066 | mg/Kg | | | 04/21/21 10:31 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.0010 | 0.00034 | mg/Kg | | | 04/21/21 10:31 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.0010 | 0.00035 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Carbon disulfide | ND | | 0.010 | 0.00040 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Carbon tetrachloride | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Chlorobenzene | ND | | 0.0010 | 0.00027 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Chloroethane | ND | | 0.0020 | 0.0015 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Chloroform | ND | | 0.0010 | 0.00059 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Chloromethane | ND | | 0.020 | 0.0015 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Dibromochloromethane | ND | | 0.0020 | 0.00027 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Dibromomethane | ND | | 0.0010 | 0.00031 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Dichlorodifluoromethane | ND | | 0.0020 | 0.00045 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Ethylbenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Isopropylbenzene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Methylene Chloride | ND | | 0.010 | 0.0031 | mg/Kg | | | 04/21/21 10:31 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-144782/7**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0020 | 0.00019 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Naphthalene | ND | | 0.010 | 0.0052 | mg/Kg | | | 04/21/21 10:31 | 1 |
| n-Butylbenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/21/21 10:31 | 1 |
| N-Propylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/21/21 10:31 | 1 |
| o-Xylene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/21/21 10:31 | 1 |
| m,p-Xylene | ND | | 0.0020 | 0.00047 | mg/Kg | | | 04/21/21 10:31 | 1 |
| p-Isopropyltoluene | ND | | 0.0010 | 0.00070 | mg/Kg | | | 04/21/21 10:31 | 1 |
| sec-Butylbenzene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Styrene | ND | | 0.0010 | 0.00070 | mg/Kg | | | 04/21/21 10:31 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/21/21 10:31 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0020 | 0.00028 | mg/Kg | | | 04/21/21 10:31 | 1 |
| tert-Butylbenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Tetrachloroethene | ND | | 0.0010 | 0.00022 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Toluene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Trichloroethene | ND | | 0.0020 | 0.00039 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Trichlorofluoromethane | ND | | 0.010 | 0.00027 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Vinyl acetate | ND | | 0.010 | 0.0039 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Vinyl chloride | ND | | 0.0010 | 0.00038 | mg/Kg | | | 04/21/21 10:31 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *80 - 142* | | *04/21/21 10:31* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* | | *04/21/21 10:31* | *1* |
| *Dibromofluoromethane (Surr)* | *95* | | *80 - 123* | | *04/21/21 10:31* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | | *04/21/21 10:31* | *1* |

**Lab Sample ID: MB 570-144782/8**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.050 | 0.015 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,1,1-Trichloroethane | ND | | 0.050 | 0.012 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.10 | 0.027 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | 0.023 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,1,2-Trichloroethane | ND | | 0.050 | 0.023 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,1-Dichloroethane | ND | | 0.050 | 0.014 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,1-Dichloroethene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,1-Dichloropropene | ND | | 0.10 | 0.019 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2,3-Trichlorobenzene | ND | | 0.10 | 0.050 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2,3-Trichloropropane | ND | | 0.10 | 0.021 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2,4-Trichlorobenzene | ND | | 0.10 | 0.021 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2,4-Trimethylbenzene | ND | | 0.10 | 0.030 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.50 | 0.34 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2-Dibromoethane | ND | | 0.050 | 0.010 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2-Dichlorobenzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2-Dichloroethane | ND | | 0.050 | 0.014 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2-Dichloropropane | ND | | 0.050 | 0.014 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,3,5-Trimethylbenzene | ND | | 0.10 | 0.030 | mg/Kg | | | 04/21/21 10:57 | 50 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-144782/8**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,3-Dichloropropane | ND | | 0.050 | 0.015 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.015 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 2,2-Dichloropropane | ND | | 0.25 | 0.014 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 2-Butanone | ND | | 1.0 | 0.23 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 2-Chlorotoluene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 2-Hexanone | ND | | 1.0 | 0.15 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 4-Chlorotoluene | ND | | 0.050 | 0.012 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 4-Methyl-2-pentanone | ND | | 1.0 | 0.15 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Acetone | ND | | 1.0 | 0.49 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Benzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Bromobenzene | ND | | 0.050 | 0.010 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Bromochloromethane | ND | | 0.10 | 0.022 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Bromodichloromethane | ND | | 0.050 | 0.0080 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Bromoform | ND | | 0.25 | 0.066 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Bromomethane | ND | | 1.0 | 0.33 | mg/Kg | | | 04/21/21 10:57 | 50 |
| cis-1,2-Dichloroethene | ND | | 0.050 | 0.017 | mg/Kg | | | 04/21/21 10:57 | 50 |
| cis-1,3-Dichloropropene | ND | | 0.050 | 0.017 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Carbon disulfide | ND | | 0.50 | 0.020 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Carbon tetrachloride | ND | | 0.050 | 0.015 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Chlorobenzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Chloroethane | ND | | 0.10 | 0.075 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Chloroform | ND | | 0.050 | 0.029 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Chloromethane | ND | | 1.0 | 0.077 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Dibromochloromethane | ND | | 0.10 | 0.014 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Dibromomethane | ND | | 0.050 | 0.015 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Dichlorodifluoromethane | ND | | 0.10 | 0.023 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Ethylbenzene | ND | | 0.050 | 0.010 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Isopropylbenzene | ND | | 0.050 | 0.030 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Methylene Chloride | ND | | 0.50 | 0.16 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.10 | 0.0094 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Naphthalene | ND | | 0.50 | 0.26 | mg/Kg | | | 04/21/21 10:57 | 50 |
| n-Butylbenzene | ND | | 0.050 | 0.011 | mg/Kg | | | 04/21/21 10:57 | 50 |
| N-Propylbenzene | ND | | 0.10 | 0.030 | mg/Kg | | | 04/21/21 10:57 | 50 |
| o-Xylene | ND | | 0.050 | 0.030 | mg/Kg | | | 04/21/21 10:57 | 50 |
| m,p-Xylene | ND | | 0.10 | 0.024 | mg/Kg | | | 04/21/21 10:57 | 50 |
| p-Isopropyltoluene | ND | | 0.050 | 0.035 | mg/Kg | | | 04/21/21 10:57 | 50 |
| sec-Butylbenzene | ND | | 0.050 | 0.030 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Styrene | ND | | 0.050 | 0.035 | mg/Kg | | | 04/21/21 10:57 | 50 |
| trans-1,2-Dichloroethene | ND | | 0.050 | 0.015 | mg/Kg | | | 04/21/21 10:57 | 50 |
| trans-1,3-Dichloropropene | ND | | 0.10 | 0.014 | mg/Kg | | | 04/21/21 10:57 | 50 |
| tert-Butylbenzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Tetrachloroethene | ND | | 0.050 | 0.011 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Toluene | ND | | 0.050 | 0.030 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Trichloroethene | ND | | 0.10 | 0.019 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Trichlorofluoromethane | ND | | 0.50 | 0.014 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Vinyl acetate | ND | | 0.50 | 0.20 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Vinyl chloride | ND | | 0.050 | 0.019 | mg/Kg | | | 04/21/21 10:57 | 50 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-144782/8**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 80 - 142 | | 04/21/21 10:57 | 50 |
| 4-Bromofluorobenzene (Surr) | 94 | | 80 - 120 | | 04/21/21 10:57 | 50 |
| Dibromofluoromethane (Surr) | 93 | | 80 - 123 | | 04/21/21 10:57 | 50 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 | | 04/21/21 10:57 | 50 |

**Lab Sample ID: LCS 570-144782/4**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.0500 | 0.0460 | | mg/Kg | | 92 | 67 - 122 |
| 1,2-Dibromoethane | 0.0500 | 0.0474 | | mg/Kg | | 95 | 80 - 123 |
| 1,2-Dichlorobenzene | 0.0500 | 0.0495 | | mg/Kg | | 99 | 80 - 120 |
| 1,2-Dichloroethane | 0.0500 | 0.0494 | | mg/Kg | | 99 | 80 - 125 |
| Benzene | 0.0500 | 0.0481 | | mg/Kg | | 96 | 79 - 120 |
| Carbon tetrachloride | 0.0500 | 0.0479 | | mg/Kg | | 96 | 69 - 132 |
| Chlorobenzene | 0.0500 | 0.0495 | | mg/Kg | | 99 | 80 - 120 |
| Ethylbenzene | 0.0500 | 0.0492 | | mg/Kg | | 98 | 80 - 120 |
| Methyl-t-Butyl Ether (MTBE) | 0.0500 | 0.0441 | | mg/Kg | | 88 | 68 - 120 |
| o-Xylene | 0.0500 | 0.0490 | | mg/Kg | | 98 | 79 - 120 |
| m,p-Xylene | 0.100 | 0.0973 | | mg/Kg | | 97 | 79 - 120 |
| Toluene | 0.0500 | 0.0495 | | mg/Kg | | 99 | 80 - 120 |
| Trichloroethene | 0.0500 | 0.0490 | | mg/Kg | | 98 | 80 - 121 |
| Vinyl chloride | 0.0500 | 0.0487 | | mg/Kg | | 97 | 66 - 128 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 80 - 142 |
| 4-Bromofluorobenzene (Surr) | 102 | | 80 - 120 |
| Dibromofluoromethane (Surr) | 101 | | 80 - 123 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 |

**Lab Sample ID: LCSD 570-144782/5**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.0500 | 0.0449 | | mg/Kg | | 90 | 67 - 122 | 2 | 20 |
| 1,2-Dibromoethane | 0.0500 | 0.0471 | | mg/Kg | | 94 | 80 - 123 | 1 | 20 |
| 1,2-Dichlorobenzene | 0.0500 | 0.0482 | | mg/Kg | | 96 | 80 - 120 | 3 | 20 |
| 1,2-Dichloroethane | 0.0500 | 0.0482 | | mg/Kg | | 96 | 80 - 125 | 3 | 20 |
| Benzene | 0.0500 | 0.0474 | | mg/Kg | | 95 | 79 - 120 | 2 | 20 |
| Carbon tetrachloride | 0.0500 | 0.0460 | | mg/Kg | | 92 | 69 - 132 | 4 | 20 |
| Chlorobenzene | 0.0500 | 0.0482 | | mg/Kg | | 96 | 80 - 120 | 3 | 20 |
| Ethylbenzene | 0.0500 | 0.0488 | | mg/Kg | | 98 | 80 - 120 | 1 | 20 |
| Methyl-t-Butyl Ether (MTBE) | 0.0500 | 0.0437 | | mg/Kg | | 87 | 68 - 120 | 1 | 20 |
| o-Xylene | 0.0500 | 0.0485 | | mg/Kg | | 97 | 79 - 120 | 1 | 20 |
| m,p-Xylene | 0.100 | 0.0950 | | mg/Kg | | 95 | 79 - 120 | 2 | 20 |
| Toluene | 0.0500 | 0.0491 | | mg/Kg | | 98 | 80 - 120 | 1 | 20 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 570-144782/5**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | | | 0.0500 | 0.0485 | | mg/Kg | | 97 | 80 - 121 | 1 | 20 |
| Vinyl chloride | | | 0.0500 | 0.0474 | | mg/Kg | | 95 | 66 - 128 | 3 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *80 - 142* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *99* | | *80 - 123* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* |

**Lab Sample ID: MB 570-145066/10**
**Matrix: Solid**
**Analysis Batch: 145066**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.050 | 0.015 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,1,1-Trichloroethane | ND | | 0.050 | 0.012 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.10 | 0.027 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | 0.023 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,1,2-Trichloroethane | ND | | 0.050 | 0.023 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,1-Dichloroethane | ND | | 0.050 | 0.014 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,1-Dichloroethene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,1-Dichloropropene | ND | | 0.10 | 0.019 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,2,3-Trichlorobenzene | ND | | 0.10 | 0.050 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,2,3-Trichloropropane | ND | | 0.10 | 0.021 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,2,4-Trichlorobenzene | ND | | 0.10 | 0.021 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,2,4-Trimethylbenzene | ND | | 0.10 | 0.030 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.50 | 0.34 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,2-Dibromoethane | ND | | 0.050 | 0.010 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,2-Dichlorobenzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,2-Dichloroethane | ND | | 0.050 | 0.014 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,2-Dichloropropane | ND | | 0.050 | 0.014 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,3,5-Trimethylbenzene | ND | | 0.10 | 0.030 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,3-Dichlorobenzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,3-Dichloropropane | ND | | 0.050 | 0.015 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.015 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 2,2-Dichloropropane | ND | | 0.25 | 0.014 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 2-Butanone | ND | | 1.0 | 0.23 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 2-Chlorotoluene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 2-Hexanone | ND | | 1.0 | 0.15 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 4-Chlorotoluene | ND | | 0.050 | 0.012 | mg/Kg | | | 04/22/21 11:36 | 50 |
| 4-Methyl-2-pentanone | ND | | 1.0 | 0.15 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Acetone | ND | | 1.0 | 0.49 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Benzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Bromobenzene | ND | | 0.050 | 0.010 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Bromochloromethane | ND | | 0.10 | 0.022 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Bromodichloromethane | ND | | 0.050 | 0.0080 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Bromoform | ND | | 0.25 | 0.066 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Bromomethane | ND | | 1.0 | 0.33 | mg/Kg | | | 04/22/21 11:36 | 50 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-145066/10**
**Matrix: Solid**
**Analysis Batch: 145066**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ND | | 0.050 | 0.017 | mg/Kg | | | 04/22/21 11:36 | 50 |
| cis-1,3-Dichloropropene | ND | | 0.050 | 0.017 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Carbon disulfide | ND | | 0.50 | 0.020 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Carbon tetrachloride | ND | | 0.050 | 0.015 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Chlorobenzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Chloroethane | ND | | 0.10 | 0.075 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Chloroform | ND | | 0.050 | 0.029 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Chloromethane | ND | | 1.0 | 0.077 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Dibromochloromethane | ND | | 0.10 | 0.014 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Dibromomethane | ND | | 0.050 | 0.015 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Dichlorodifluoromethane | ND | | 0.10 | 0.023 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Ethylbenzene | ND | | 0.050 | 0.010 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Isopropylbenzene | ND | | 0.050 | 0.030 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Methylene Chloride | ND | | 0.50 | 0.16 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.10 | 0.0094 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Naphthalene | ND | | 0.50 | 0.26 | mg/Kg | | | 04/22/21 11:36 | 50 |
| n-Butylbenzene | ND | | 0.050 | 0.011 | mg/Kg | | | 04/22/21 11:36 | 50 |
| N-Propylbenzene | ND | | 0.10 | 0.030 | mg/Kg | | | 04/22/21 11:36 | 50 |
| o-Xylene | ND | | 0.050 | 0.030 | mg/Kg | | | 04/22/21 11:36 | 50 |
| m,p-Xylene | ND | | 0.10 | 0.024 | mg/Kg | | | 04/22/21 11:36 | 50 |
| p-Isopropyltoluene | ND | | 0.050 | 0.035 | mg/Kg | | | 04/22/21 11:36 | 50 |
| sec-Butylbenzene | ND | | 0.050 | 0.030 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Styrene | ND | | 0.050 | 0.035 | mg/Kg | | | 04/22/21 11:36 | 50 |
| trans-1,2-Dichloroethene | ND | | 0.050 | 0.015 | mg/Kg | | | 04/22/21 11:36 | 50 |
| trans-1,3-Dichloropropene | ND | | 0.10 | 0.014 | mg/Kg | | | 04/22/21 11:36 | 50 |
| tert-Butylbenzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Tetrachloroethene | ND | | 0.050 | 0.011 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Toluene | ND | | 0.050 | 0.030 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Trichloroethene | ND | | 0.10 | 0.019 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Trichlorofluoromethane | ND | | 0.50 | 0.014 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Vinyl acetate | ND | | 0.50 | 0.20 | mg/Kg | | | 04/22/21 11:36 | 50 |
| Vinyl chloride | ND | | 0.050 | 0.019 | mg/Kg | | | 04/22/21 11:36 | 50 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *80 - 142* | | *04/22/21 11:36* | *50* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *80 - 120* | | *04/22/21 11:36* | *50* |
| *Dibromofluoromethane (Surr)* | *94* | | *80 - 123* | | *04/22/21 11:36* | *50* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | | *04/22/21 11:36* | *50* |

**Lab Sample ID: LCS 570-145066/4**
**Matrix: Solid**
**Analysis Batch: 145066**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.0500 | 0.0444 | | mg/Kg | | 89 | 67 - 122 |
| 1,2-Dibromoethane | 0.0500 | 0.0451 | | mg/Kg | | 90 | 80 - 123 |
| 1,2-Dichlorobenzene | 0.0500 | 0.0477 | | mg/Kg | | 95 | 80 - 120 |
| 1,2-Dichloroethane | 0.0500 | 0.0475 | | mg/Kg | | 95 | 80 - 125 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 570-145066/4**
**Matrix: Solid**
**Analysis Batch: 145066**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.0500 | 0.0455 | | mg/Kg | | 91 | 79 - 120 |
| Carbon tetrachloride | 0.0500 | 0.0458 | | mg/Kg | | 92 | 69 - 132 |
| Chlorobenzene | 0.0500 | 0.0481 | | mg/Kg | | 96 | 80 - 120 |
| Ethylbenzene | 0.0500 | 0.0473 | | mg/Kg | | 95 | 80 - 120 |
| Methyl-t-Butyl Ether (MTBE) | 0.0500 | 0.0432 | | mg/Kg | | 86 | 68 - 120 |
| o-Xylene | 0.0500 | 0.0476 | | mg/Kg | | 95 | 79 - 120 |
| m,p-Xylene | 0.100 | 0.0928 | | mg/Kg | | 93 | 79 - 120 |
| Toluene | 0.0500 | 0.0481 | | mg/Kg | | 96 | 80 - 120 |
| Trichloroethene | 0.0500 | 0.0472 | | mg/Kg | | 94 | 80 - 121 |
| Vinyl chloride | 0.0500 | 0.0502 | | mg/Kg | | 100 | 66 - 128 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *107* | | *80 - 142* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *101* | | *80 - 123* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* |

**Lab Sample ID: LCSD 570-145066/5**
**Matrix: Solid**
**Analysis Batch: 145066**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.0500 | 0.0448 | | mg/Kg | | 90 | 67 - 122 | 1 | 20 |
| 1,2-Dibromoethane | 0.0500 | 0.0458 | | mg/Kg | | 92 | 80 - 123 | 1 | 20 |
| 1,2-Dichlorobenzene | 0.0500 | 0.0483 | | mg/Kg | | 97 | 80 - 120 | 1 | 20 |
| 1,2-Dichloroethane | 0.0500 | 0.0494 | | mg/Kg | | 99 | 80 - 125 | 4 | 20 |
| Benzene | 0.0500 | 0.0472 | | mg/Kg | | 94 | 79 - 120 | 4 | 20 |
| Carbon tetrachloride | 0.0500 | 0.0459 | | mg/Kg | | 92 | 69 - 132 | 0 | 20 |
| Chlorobenzene | 0.0500 | 0.0475 | | mg/Kg | | 95 | 80 - 120 | 1 | 20 |
| Ethylbenzene | 0.0500 | 0.0477 | | mg/Kg | | 95 | 80 - 120 | 1 | 20 |
| Methyl-t-Butyl Ether (MTBE) | 0.0500 | 0.0440 | | mg/Kg | | 88 | 68 - 120 | 2 | 20 |
| o-Xylene | 0.0500 | 0.0471 | | mg/Kg | | 94 | 79 - 120 | 1 | 20 |
| m,p-Xylene | 0.100 | 0.0932 | | mg/Kg | | 93 | 79 - 120 | 0 | 20 |
| Toluene | 0.0500 | 0.0497 | | mg/Kg | | 99 | 80 - 120 | 3 | 20 |
| Trichloroethene | 0.0500 | 0.0486 | | mg/Kg | | 97 | 80 - 121 | 3 | 20 |
| Vinyl chloride | 0.0500 | 0.0515 | | mg/Kg | | 103 | 66 - 128 | 3 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *80 - 142* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *98* | | *80 - 123* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 570-144544/1-A**
**Matrix: Solid**
**Analysis Batch: 144891**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144544**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/20/21 10:29 | 04/21/21 13:48 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:29 | 04/21/21 13:48 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/20/21 10:29 | 04/21/21 13:48 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/20/21 10:29 | 04/21/21 13:48 | 1 |
| Anthracene | ND | | 0.50 | 0.051 | mg/Kg | | 04/20/21 10:29 | 04/21/21 13:48 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:29 | 04/21/21 13:48 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/20/21 10:29 | 04/21/21 13:48 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.080 | mg/Kg | | 04/20/21 10:29 | 04/21/21 13:48 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/20/21 10:29 | 04/21/21 13:48 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:29 | 04/21/21 13:48 | 1 |
| Chrysene | ND | | 0.50 | 0.068 | mg/Kg | | 04/20/21 10:29 | 04/21/21 13:48 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/20/21 10:29 | 04/21/21 13:48 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:29 | 04/21/21 13:48 | 1 |
| Fluorene | ND | | 0.50 | 0.067 | mg/Kg | | 04/20/21 10:29 | 04/21/21 13:48 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/20/21 10:29 | 04/21/21 13:48 | 1 |
| Naphthalene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:29 | 04/21/21 13:48 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/20/21 10:29 | 04/21/21 13:48 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/20/21 10:29 | 04/21/21 13:48 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *88* | | *10 - 134* | *04/20/21 10:29* | *04/21/21 13:48* | *1* |
| *2-Fluorobiphenyl (Surr)* | *84* | | *14 - 142* | *04/20/21 10:29* | *04/21/21 13:48* | *1* |
| *2-Fluorophenol (Surr)* | *81* | | *10 - 123* | *04/20/21 10:29* | *04/21/21 13:48* | *1* |
| *Nitrobenzene-d5 (Surr)* | *79* | | *10 - 129* | *04/20/21 10:29* | *04/21/21 13:48* | *1* |
| *Phenol-d6 (Surr)* | *76* | | *10 - 120* | *04/20/21 10:29* | *04/21/21 13:48* | *1* |
| *p-Terphenyl-d14 (Surr)* | *88* | | *31 - 139* | *04/20/21 10:29* | *04/21/21 13:48* | *1* |

**Lab Sample ID: LCS 570-144544/2-A**
**Matrix: Solid**
**Analysis Batch: 144891**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144544**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 5.00 | 4.64 | | mg/Kg | | 93 | 64 - 120 |
| Acenaphthylene | 5.00 | 5.16 | | mg/Kg | | 103 | 69 - 126 |
| Fluorene | 5.00 | 4.66 | | mg/Kg | | 93 | 68 - 120 |
| Naphthalene | 5.00 | 4.23 | | mg/Kg | | 85 | 66 - 120 |
| Pyrene | 5.00 | 5.01 | | mg/Kg | | 100 | 72 - 120 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *95* | | *10 - 134* |
| *2-Fluorobiphenyl (Surr)* | *88* | | *14 - 142* |
| *2-Fluorophenol (Surr)* | *84* | | *10 - 123* |
| *Nitrobenzene-d5 (Surr)* | *74* | | *10 - 129* |
| *Phenol-d6 (Surr)* | *79* | | *10 - 120* |
| *p-Terphenyl-d14 (Surr)* | *96* | | *31 - 139* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 570-144544/3-A**
**Matrix: Solid**
**Analysis Batch: 144891**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144544**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | | | 5.00 | 4.61 | | mg/Kg | | 92 | 64 - 120 | 1 | 20 |
| Acenaphthylene | | | 5.00 | 5.14 | | mg/Kg | | 103 | 69 - 126 | 0 | 20 |
| Fluorene | | | 5.00 | 4.67 | | mg/Kg | | 93 | 68 - 120 | 0 | 20 |
| Naphthalene | | | 5.00 | 4.14 | | mg/Kg | | 83 | 66 - 120 | 2 | 20 |
| Pyrene | | | 5.00 | 5.02 | | mg/Kg | | 100 | 72 - 120 | 0 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *97* | | *10 - 134* |
| *2-Fluorobiphenyl (Surr)* | *87* | | *14 - 142* |
| *2-Fluorophenol (Surr)* | *83* | | *10 - 123* |
| *Nitrobenzene-d5 (Surr)* | *71* | | *10 - 129* |
| *Phenol-d6 (Surr)* | *79* | | *10 - 120* |
| *p-Terphenyl-d14 (Surr)* | *96* | | *31 - 139* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: MB 570-145050/32**
**Matrix: Solid**
**Analysis Batch: 145050**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 2.0 | 1.1 | mg/Kg | | | 04/22/21 02:56 | 20 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *77* | | *42 - 126* | | *04/22/21 02:56* | *20* |

**Lab Sample ID: LCS 570-145050/29**
**Matrix: Solid**
**Analysis Batch: 145050**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C4-C13) | | | 1.97 | 1.84 | | mg/Kg | | 94 | 70 - 124 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *95* | | *42 - 126* |

**Lab Sample ID: LCSD 570-145050/30**
**Matrix: Solid**
**Analysis Batch: 145050**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C4-C13) | | | 1.98 | 1.81 | | mg/Kg | | 91 | 70 - 124 | 2 | 18 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *95* | | *42 - 126* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 570-144679/1-A**
**Matrix: Solid**
**Analysis Batch: 144908**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144679**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 5.0 | 3.8 | mg/Kg | | 04/20/21 16:06 | 04/21/21 20:02 | 1 |
| C23-C40 | ND | | 5.0 | 3.8 | mg/Kg | | 04/20/21 16:06 | 04/21/21 20:02 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *88* | | *60 - 138* | *04/20/21 16:06* | *04/21/21 20:02* | *1* |

**Lab Sample ID: LCS 570-144679/2-A**
**Matrix: Solid**
**Analysis Batch: 144908**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144679**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 400 | 421 | | mg/Kg | | 105 | 80 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane (Surr)* | *94* | | *60 - 138* |

**Lab Sample ID: LCSD 570-144679/3-A**
**Matrix: Solid**
**Analysis Batch: 144908**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144679**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 400 | 434 | | mg/Kg | | 108 | 80 - 130 | 3 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane (Surr)* | *92* | | *60 - 138* |

## GC/MS VOA

### Prep Batch: 144361

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56801-2 | SW-2-C-15.0 | Total/NA | Solid | 5035 | |

### Prep Batch: 144362

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56801-1 | SW-2-C-10.0 | Total/NA | Solid | 5035 | |
| 570-56801-2 - DL | SW-2-C-15.0 | Total/NA | Solid | 5035 | |

### Analysis Batch: 144782

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56801-1 | SW-2-C-10.0 | Total/NA | Solid | 8260B | 144362 |
| 570-56801-2 | SW-2-C-15.0 | Total/NA | Solid | 8260B | 144361 |
| MB 570-144782/7 | Method Blank | Total/NA | Solid | 8260B | |
| MB 570-144782/8 | Method Blank | Total/NA | Solid | 8260B | |
| LCS 570-144782/4 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 570-144782/5 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |

### Analysis Batch: 145066

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56801-2 - DL | SW-2-C-15.0 | Total/NA | Solid | 8260B | 144362 |
| MB 570-145066/10 | Method Blank | Total/NA | Solid | 8260B | |
| LCS 570-145066/4 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 570-145066/5 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |

## GC/MS Semi VOA

### Prep Batch: 144544

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56801-1 - DL | SW-2-C-10.0 | Total/NA | Solid | 3546 | |
| 570-56801-1 | SW-2-C-10.0 | Total/NA | Solid | 3546 | |
| MB 570-144544/1-A | Method Blank | Total/NA | Solid | 3546 | |
| LCS 570-144544/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| LCSD 570-144544/3-A | Lab Control Sample Dup | Total/NA | Solid | 3546 | |

### Analysis Batch: 144891

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56801-1 | SW-2-C-10.0 | Total/NA | Solid | 8270C | 144544 |
| 570-56801-1 - DL | SW-2-C-10.0 | Total/NA | Solid | 8270C | 144544 |
| MB 570-144544/1-A | Method Blank | Total/NA | Solid | 8270C | 144544 |
| LCS 570-144544/2-A | Lab Control Sample | Total/NA | Solid | 8270C | 144544 |
| LCSD 570-144544/3-A | Lab Control Sample Dup | Total/NA | Solid | 8270C | 144544 |

## GC VOA

### Prep Batch: 144362

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56801-1 | SW-2-C-10.0 | Total/NA | Solid | 5035 | |
| 570-56801-2 | SW-2-C-15.0 | Total/NA | Solid | 5035 | |

### Analysis Batch: 145050

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56801-1 | SW-2-C-10.0 | Total/NA | Solid | 8015B | 144362 |
| 570-56801-2 | SW-2-C-15.0 | Total/NA | Solid | 8015B | 144362 |

## GC VOA (Continued)

### Analysis Batch: 145050 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 570-145050/32 | Method Blank | Total/NA | Solid | 8015B | |
| LCS 570-145050/29 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 570-145050/30 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |

## GC Semi VOA

### Prep Batch: 144679

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56801-1 | SW-2-C-10.0 | Total/NA | Solid | 3550C | |
| MB 570-144679/1-A | Method Blank | Total/NA | Solid | 3550C | |
| LCS 570-144679/2-A | Lab Control Sample | Total/NA | Solid | 3550C | |
| LCSD 570-144679/3-A | Lab Control Sample Dup | Total/NA | Solid | 3550C | |

### Analysis Batch: 144908

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56801-1 | SW-2-C-10.0 | Total/NA | Solid | 8015B | 144679 |
| MB 570-144679/1-A | Method Blank | Total/NA | Solid | 8015B | 144679 |
| LCS 570-144679/2-A | Lab Control Sample | Total/NA | Solid | 8015B | 144679 |
| LCSD 570-144679/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B | 144679 |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56801-1

## Client Sample ID: SW-2-C-10.0

**Date Collected: 04/15/21 12:45**
**Date Received: 04/16/21 10:35**

## Lab Sample ID: 570-56801-1

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.114 g | 5 mL | 144362 | 04/19/21 15:20 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 5000 | 5 mL | 5 mL | 144782 | 04/21/21 19:07 | BE5H | ECL 2 |
| | Instrument ID: GCMSLL | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.14 g | 2 mL | 144544 | 04/20/21 10:29 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 144891 | 04/21/21 15:56 | N8CZ | ECL 1 |
| | Instrument ID: GCMSCCC | | | | | | | | | |
| Total/NA | Prep | 3546 | DL | | 20.14 g | 2 mL | 144544 | 04/20/21 10:29 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | DL | 5 | | | 144891 | 04/21/21 18:59 | N8CZ | ECL 1 |
| | Instrument ID: GCMSCCC | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.114 g | 5 mL | 144362 | 04/19/21 15:20 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 2000 | 5 mL | 5 mL | 145050 | 04/22/21 11:25 | A9VE | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |
| Total/NA | Prep | 3550C | | | 10.14 g | 10 mL | 144679 | 04/20/21 16:07 | EM5C | ECL 1 |
| Total/NA | Analysis | 8015B | | 20 | | | 144908 | 04/22/21 03:14 | A1W | ECL 1 |
| | Instrument ID: GC50 | | | | | | | | | |

## Client Sample ID: SW-2-C-15.0

**Date Collected: 04/15/21 12:50**
**Date Received: 04/16/21 10:35**

## Lab Sample ID: 570-56801-2

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.784 g | 5 g | 144361 | 04/19/21 15:19 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144782 | 04/21/21 16:07 | BE5H | ECL 2 |
| | Instrument ID: GCMSLL | | | | | | | | | |
| Total/NA | Prep | 5035 | DL | | 6.886 g | 5 mL | 144362 | 04/19/21 15:20 | P4DI | ECL 2 |
| Total/NA | Analysis | 8260B | DL | 50 | 5 mL | 5 mL | 145066 | 04/22/21 14:42 | U4JL | ECL 2 |
| | Instrument ID: GCMSLL | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.886 g | 5 mL | 144362 | 04/19/21 15:20 | P4DI | ECL 2 |
| Total/NA | Analysis | 8015B | | 20 | 5 mL | 5 mL | 145050 | 04/22/21 10:37 | A9VE | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |

**Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

# Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56801-1

## Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Arkansas DEQ | State | 88-0161 | 11-19-21 |
| California | Los Angeles County Sanitation Districts | 10109 | 09-30-21 |
| California | SCAQMD LAP | 17LA0919 | 11-30-21 |
| California | State | 2944 | 09-30-21 |
| Guam | State | 20-003R | 10-31-20 * |
| Nevada | State | CA00111 | 07-31-21 |
| Oregon | NELAP | CA300001 | 01-30-22 |
| USDA | US Federal Programs | P330-20-00034 | 02-10-23 |
| Washington | State | C916-18 | 10-11-21 |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56801-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | ECL 2 |
| 8270C | Semivolatile Organic Compounds (GC/MS) | SW846 | ECL 1 |
| 8015B | Gasoline Range Organics - (GC) | SW846 | ECL 2 |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | ECL 1 |
| 3546 | Microwave Extraction | SW846 | ECL 1 |
| 3550C | Ultrasonic Extraction | SW846 | ECL 1 |
| 5035 | Closed System Purge and Trap | SW846 | ECL 2 |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

ECL 1 = Eurofins Calscience LLC  Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC  Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

# Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145

Job ID: 570-56801-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 570-56801-1 | SW-2-C-10.0 | Solid | 04/15/21 12:45 | 04/16/21 10:35 | |
| 570-56801-2 | SW-2-C-15.0 | Solid | 04/15/21 12:50 | 04/16/21 10:35 | |

eurofins | Calscience

7440 Lincoln Way Garden Grove CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information contact us26_sales@eurofinsus.com or call us.

570-56801 Chain of Custody

# CHAIN OF CUSTODY RECORD

DATE: 4/15/21

PAGE: 1 OF 1

| | |
|---|---|
| LABORATORY CLIENT: Arcadis U S Inc | |
| ADDRESS: 2300 Clayton Rd Ste 400 | |
| CITY: Concord STATE: CA ZIP: 94520 | |
| TEL.: 609-216-8139 E-MAIL.: Nicholas.Cardella@arcadis.com | |
| | P.O NO: 30045659 |
| PROJECT CONTACT: Nicholas Cardella | SAMPLER(S): (PRINT): Radley A and Mia J |

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID: | LOG CODE

SPECIAL INSTRUCTIONS.

## REQUESTED ANALYSES

Please check box or fill in blank as needed

| LAB USE ONLY | SAMPLE ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered | TPH-g by USEPA Method 8015 Modified | TPH-d by USEPA Method 8015 Modified | Full list VOCs by USEPA Method 8260B | PAHs and Naphthalene by USEPA Method 8270B | Lead by USEPA Method 6010B | Asbestos - CARB 435A | PCBs by USEPA Method 8082 with 541-Automated Soxhlet Extraction | OCPs by USEPA Method 8081A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SW-2-C-10.0 | 4/15/21 | 1245 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 2 | SW-2-C-15.0 | 4/15/21 | 1250 | Soil | 5 | | X | | X | X | X | | | | | |
| | | | | Soil | | | | | | | | | | | | |
| | | | | Soil | | | | | | | | | | | | |
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| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: 4/15/21 | Time: 1330 |
| Relinquished by: (Signature) TO GSO 4/15/21 1630 | Received by: (Signature/Affiliation) | Date: 4/16/21 | Time: 10:35 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: | Time: |

7.4/7.7 SCS

06/02/14 Revision

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570-56801 Waybill

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UCTIONS:

# Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 570-56801-1

**Login Number: 56801**
**List Number: 1**
**Creator: Ramos, Maribel**

**List Source: Eurofins Calscience**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | False | Did not receive all required containers. |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

eurofins | Environment Testing America

# ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-56847-1
Client Project/Site: Chevron 206145 Oakland Center Street

For:
ARCADIS U.S. Inc
111 SW Columbia Street
Suite 670
Portland, Oregon 97201

Attn: Meg Armstrong

*Authorized for release by:*
*5/4/2021 1:12:30 PM*

Lena Davidkov, Project Manager II
(949)260-3229
Lena.Davidkova@Eurofinset.com

LINKS

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*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| E | Result exceeded calibration range. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| p | The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |

## Glossary (Continued)

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

## Job ID: 570-56847-1

### Laboratory: Eurofins Calscience LLC

**Narrative**

**Job Narrative**
**570-56847-1**

**Comments**
TPH-d container not received for the following samples: TW-2-50 (570-56847-2), TW-2-60 (570-56847-3), SB-1-15.0 (570-56847-6), SB-2-15.0 (570-56847-8), TW-1-20.0 (570-56847-10), TW-1-30.0 (570-56847-11), TW-1-50.0 (570-56847-31), TW-1-60.0 (570-56847-32) and G-27-C-15.0 (570-56847-43)

**Receipt**
The samples were received on 4/17/2021 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.0º C, 3.9º C and 4.2º C.

**GC/MS VOA**
Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-144481, 570-144782, 570-144777 and 570-144488.

Method 8260B: The continuing calibration verification (CCV) associated with batch 570-144782 recovered above the upper control limit for Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 570-144782/3).

Method 8260B: The following analyte(s) recovered outside control limits for the LCS associated with analytical batch 570-144782: Vinyl acetate. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8260B: The following sample was analyzed via a low-level analysis and a high-level (i.e., methanol extract) analysis. The low-level analysis resulted in a value for Acetone above the upper calibration range. The high-level analysis resulted in a non-detect for this analyte in the lowest possible dilution utilized. The results from the low-level analysis are provided and have been flagged as estimated. SW-4/MW-14-C-5.0 (570-56847-1)

Method 8260B: Method(s) 8260B: Sample dilution was required prior to analysis due to matrix interferences from sediment that precludes analysis by purge and trap.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 570-145291 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**GC/MS Semi VOA**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**GC VOA**
Method 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-144522 and 570-144226

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**GC Semi VOA**
Method 8081A: The continuing calibration verification (CCV) associated with 570-145226 recovered high and outside the control limits for DCB Decachlorobiphenyl (Surr) on one column. Results are confirmed on both columns and reported from the passing column. The associated sample is: (CCV 570-145226/58).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Metals**

## Job ID: 570-56847-1 (Continued)

### Laboratory: Eurofins Calscience LLC (Continued)

Method 6010B: Due to the high concentration of Lead the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 570-144975 and analytical batch 570-145285 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Organic Prep**
Method 3510C SGC: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-144734.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**VOA Prep**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Lab Admin**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SW-4/MW-14-C-5.0 — Lab Sample ID: 570-56847-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.016 | | 0.0017 | 0.00051 | mg/Kg | 1 | | 8260B | Total/NA |
| 1,3,5-Trimethylbenzene | 0.0043 | | 0.0017 | 0.00051 | mg/Kg | 1 | | 8260B | Total/NA |
| 2-Butanone | 0.043 | | 0.017 | 0.0038 | mg/Kg | 1 | | 8260B | Total/NA |
| Acetone | 0.20 | E | 0.017 | 0.0084 | mg/Kg | 1 | | 8260B | Total/NA |
| Benzene | 0.00022 | J | 0.00085 | 0.00022 | mg/Kg | 1 | | 8260B | Total/NA |
| Ethylbenzene | 0.00068 | J | 0.00085 | 0.00018 | mg/Kg | 1 | | 8260B | Total/NA |
| Naphthalene | 0.018 | | 0.0085 | 0.0044 | mg/Kg | 1 | | 8260B | Total/NA |
| n-Butylbenzene | 0.0019 | | 0.00085 | 0.00018 | mg/Kg | 1 | | 8260B | Total/NA |
| N-Propylbenzene | 0.00088 | J | 0.0017 | 0.00051 | mg/Kg | 1 | | 8260B | Total/NA |
| o-Xylene | 0.0015 | | 0.00085 | 0.00051 | mg/Kg | 1 | | 8260B | Total/NA |
| m,p-Xylene | 0.0035 | | 0.0017 | 0.00040 | mg/Kg | 1 | | 8260B | Total/NA |
| Toluene | 0.00082 | J | 0.00085 | 0.00051 | mg/Kg | 1 | | 8260B | Total/NA |
| GRO (C6-C12) | 0.53 | | 0.080 | 0.045 | mg/Kg | 1 | | 8015B | Total/NA |

## Client Sample ID: TW-2-50 — Lab Sample ID: 570-56847-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.0099 | J | 0.023 | 0.0051 | mg/Kg | 1 | | 8260B | Total/NA |
| Acetone | 0.12 | | 0.023 | 0.011 | mg/Kg | 1 | | 8260B | Total/NA |
| p-Isopropyltoluene | 0.0029 | | 0.0011 | 0.00079 | mg/Kg | 1 | | 8260B | Total/NA |
| GRO (C6-C12) | 0.051 | J | 0.073 | 0.040 | mg/Kg | 1 | | 8015B | Total/NA |

## Client Sample ID: TW-2-60 — Lab Sample ID: 570-56847-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.044 | | 0.018 | 0.0087 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: SVP-3-6.5 — Lab Sample ID: 570-56847-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.0055 | J | 0.018 | 0.0040 | mg/Kg | 1 | | 8260B | Total/NA |
| Acetone | 0.065 | | 0.018 | 0.0087 | mg/Kg | 1 | | 8260B | Total/NA |
| Benzene | 0.00045 | J | 0.00089 | 0.00023 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: SB-1-10.0 — Lab Sample ID: 570-56847-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.0043 | J | 0.018 | 0.0040 | mg/Kg | 1 | | 8260B | Total/NA |
| Acetone | 0.077 | | 0.018 | 0.0088 | mg/Kg | 1 | | 8260B | Total/NA |
| Trichloroethene | 0.00037 | J | 0.0018 | 0.00035 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: SB-1-15.0 — Lab Sample ID: 570-56847-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.016 | J | 0.026 | 0.0058 | mg/Kg | 1 | | 8260B | Total/NA |
| Acetone | 0.22 | | 0.026 | 0.013 | mg/Kg | 1 | | 8260B | Total/NA |
| Benzene | 0.00050 | J | 0.0013 | 0.00033 | mg/Kg | 1 | | 8260B | Total/NA |
| Carbon disulfide | 0.00063 | J | 0.013 | 0.00051 | mg/Kg | 1 | | 8260B | Total/NA |
| Toluene | 0.00082 | J | 0.0013 | 0.00077 | mg/Kg | 1 | | 8260B | Total/NA |
| GRO (C6-C12) | 0.055 | J | 0.083 | 0.046 | mg/Kg | 1 | | 8015B | Total/NA |

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SB-2-10.0 — Lab Sample ID: 570-56847-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.027 | | 0.015 | 0.0074 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: SB-2-15.0 — Lab Sample ID: 570-56847-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.010 | J | 0.014 | 0.0071 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: TW-1-10.0 — Lab Sample ID: 570-56847-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.0038 | J | 0.014 | 0.0031 | mg/Kg | 1 | | 8260B | Total/NA |
| Acetone | 0.037 | | 0.014 | 0.0068 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: TW-1-20.0 — Lab Sample ID: 570-56847-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.014 | | 0.014 | 0.0069 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: TW-1-30.0 — Lab Sample ID: 570-56847-11

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.016 | | 0.014 | 0.0071 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: TW-1-40.0 — Lab Sample ID: 570-56847-12

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.049 | | 0.019 | 0.0093 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: SVP-4-6.5 — Lab Sample ID: 570-56847-13

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.0079 | J | 0.020 | 0.0046 | mg/Kg | 1 | | 8260B | Total/NA |
| Acetone | 0.12 | | 0.020 | 0.010 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: SVP-1-6.5 — Lab Sample ID: 570-56847-14

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.0076 | J | 0.019 | 0.0044 | mg/Kg | 1 | | 8260B | Total/NA |
| Acetone | 0.077 | | 0.019 | 0.0096 | mg/Kg | 1 | | 8260B | Total/NA |
| Benzene | 0.0028 | | 0.00097 | 0.00025 | mg/Kg | 1 | | 8260B | Total/NA |
| Ethylbenzene | 0.00024 | J | 0.00097 | 0.00020 | mg/Kg | 1 | | 8260B | Total/NA |
| Toluene | 0.0015 | | 0.00097 | 0.00058 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: SVP-2-6.5 — Lab Sample ID: 570-56847-15

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.062 | | 0.016 | 0.0077 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: SSD-15-1.0 — Lab Sample ID: 570-56847-16

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1600 | | 5.2 | 1.0 | mg/Kg | 1 | | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-15-2.0 — Lab Sample ID: 570-56847-17

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 33 | | 5.0 | 0.96 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-15-3.0 — Lab Sample ID: 570-56847-18

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 25 | | 5.2 | 1.0 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-15-4.0 — Lab Sample ID: 570-56847-19

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 7.2 | | 4.9 | 0.95 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-16-1.0 — Lab Sample ID: 570-56847-20

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 410 | | 5.0 | 0.96 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-16-2.0 — Lab Sample ID: 570-56847-21

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 180 | | 5.1 | 0.98 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-16-3.0 — Lab Sample ID: 570-56847-22

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 7.9 | | 4.9 | 0.95 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-16-4.0 — Lab Sample ID: 570-56847-23

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 4.7 | J | 4.9 | 0.95 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-17-1.0 — Lab Sample ID: 570-56847-24

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 220 | | 5.0 | 0.97 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-17-2.0 — Lab Sample ID: 570-56847-25

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 250 | | 4.9 | 0.95 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-17-3.0 — Lab Sample ID: 570-56847-26

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 63 | | 4.9 | 0.94 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-17-4.0 — Lab Sample ID: 570-56847-27

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 17 | | 4.9 | 0.95 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-19-1.0 — Lab Sample ID: 570-56847-28

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 2100 | | 5.1 | 0.99 | mg/Kg | 1 | | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: SSD-19-2.0 — Lab Sample ID: 570-56847-29

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 800 | | 5.0 | 0.96 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-19-3.0 — Lab Sample ID: 570-56847-30

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 140 | | 5.2 | 1.0 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: TW-1-50.0 — Lab Sample ID: 570-56847-31

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.034 | | 0.016 | 0.0077 | mg/Kg | 1 | | 8260B | Total/NA |
| Toluene | 0.00078 | | 0.00078 | 0.00047 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: TW-1-60.0 — Lab Sample ID: 570-56847-32

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.025 | | 0.015 | 0.0075 | mg/Kg | 1 | | 8260B | Total/NA |

## Client Sample ID: SSD-26-3.0 — Lab Sample ID: 570-56847-33

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDE | 6.6 | | 5.0 | 0.53 | ug/Kg | 1 | | 8081A | Total/NA |
| 4,4'-DDT | 16 | | 5.0 | 0.36 | ug/Kg | 1 | | 8081A | Total/NA |
| Chlordane | 14 | J | 25 | 2.4 | ug/Kg | 1 | | 8081A | Total/NA |
| Dieldrin | 2.2 | J p | 5.0 | 0.25 | ug/Kg | 1 | | 8081A | Total/NA |
| gamma-Chlordane | 0.69 | J p | 5.0 | 0.25 | ug/Kg | 1 | | 8081A | Total/NA |

## Client Sample ID: SSD-26-3.5 — Lab Sample ID: 570-56847-34

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 15 | | 5.1 | 0.98 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-28-0.0 — Lab Sample ID: 570-56847-35

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1260 | 81 | | 10 | 5.0 | ug/Kg | 1 | | 8082 | Total/NA |

## Client Sample ID: SSD-28-0.5 — Lab Sample ID: 570-56847-36

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1260 | 44 | | 10 | 5.0 | ug/Kg | 1 | | 8082 | Total/NA |

## Client Sample ID: SSD-28-1.0 — Lab Sample ID: 570-56847-37

No Detections.

## Client Sample ID: SSD-28-3.0 — Lab Sample ID: 570-56847-38

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDT | 1.0 | J | 5.0 | 0.36 | ug/Kg | 1 | | 8081A | Total/NA |

## Client Sample ID: SSD-28-3.5 — Lab Sample ID: 570-56847-39

No Detections.

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-31-3.0 — Lab Sample ID: 570-56847-40

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDE | 2.0 | J | 5.0 | 0.53 | ug/Kg | 1 | | 8081A | Total/NA |
| 4,4'-DDT | 3.7 | J | 5.0 | 0.36 | ug/Kg | 1 | | 8081A | Total/NA |
| Dieldrin | 0.56 | J | 5.0 | 0.25 | ug/Kg | 1 | | 8081A | Total/NA |
| gamma-Chlordane | 0.26 | J p | 5.0 | 0.25 | ug/Kg | 1 | | 8081A | Total/NA |

## Client Sample ID: SSD-31-3.5 — Lab Sample ID: 570-56847-41

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDE | 5.4 | | 5.0 | 0.54 | ug/Kg | 1 | | 8081A | Total/NA |
| 4,4'-DDT | 9.8 | | 5.0 | 0.36 | ug/Kg | 1 | | 8081A | Total/NA |
| Chlordane | 5.8 | J | 25 | 2.4 | ug/Kg | 1 | | 8081A | Total/NA |
| Dieldrin | 1.3 | J | 5.0 | 0.25 | ug/Kg | 1 | | 8081A | Total/NA |
| gamma-Chlordane | 0.58 | J | 5.0 | 0.26 | ug/Kg | 1 | | 8081A | Total/NA |

## Client Sample ID: G-27-C-10.0 — Lab Sample ID: 570-56847-42

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 96 | | 8.1 | 2.4 | mg/Kg | 5000 | | 8260B | Total/NA |
| 1,3,5-Trimethylbenzene | 29 | | 8.1 | 2.4 | mg/Kg | 5000 | | 8260B | Total/NA |
| Benzene | 1.5 | J | 4.0 | 1.0 | mg/Kg | 5000 | | 8260B | Total/NA |
| Ethylbenzene | 67 | | 4.0 | 0.83 | mg/Kg | 5000 | | 8260B | Total/NA |
| Isopropylbenzene | 3.6 | J | 4.0 | 2.4 | mg/Kg | 5000 | | 8260B | Total/NA |
| n-Butylbenzene | 6.8 | | 4.0 | 0.85 | mg/Kg | 5000 | | 8260B | Total/NA |
| N-Propylbenzene | 12 | | 8.1 | 2.4 | mg/Kg | 5000 | | 8260B | Total/NA |
| o-Xylene | 65 | | 4.0 | 2.4 | mg/Kg | 5000 | | 8260B | Total/NA |
| m,p-Xylene | 210 | | 8.1 | 1.9 | mg/Kg | 5000 | | 8260B | Total/NA |
| Toluene | 94 | | 4.0 | 2.4 | mg/Kg | 5000 | | 8260B | Total/NA |
| 1-Methylnaphthalene | 6.4 | | 0.50 | 0.036 | mg/Kg | 1 | | 8270C | Total/NA |
| 2-Methylnaphthalene | 12 | | 0.50 | 0.057 | mg/Kg | 1 | | 8270C | Total/NA |
| Acenaphthene | 0.056 | J | 0.50 | 0.054 | mg/Kg | 1 | | 8270C | Total/NA |
| Naphthalene | 10 | | 0.50 | 0.057 | mg/Kg | 1 | | 8270C | Total/NA |
| Phenanthrene | 0.10 | J | 0.50 | 0.061 | mg/Kg | 1 | | 8270C | Total/NA |
| GRO (C6-C12) | 2700 | | 81 | 45 | mg/Kg | 1000 | | 8015B | Total/NA |

## Client Sample ID: G-27-C-15.0 — Lab Sample ID: 570-56847-43

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.0017 | | 0.0015 | 0.00044 | mg/Kg | 1 | | 8260B | Total/NA |
| 1,3,5-Trimethylbenzene | 0.00063 | J | 0.0015 | 0.00044 | mg/Kg | 1 | | 8260B | Total/NA |
| Acetone | 0.017 | | 0.015 | 0.0072 | mg/Kg | 1 | | 8260B | Total/NA |
| Benzene | 0.00032 | J | 0.00073 | 0.00019 | mg/Kg | 1 | | 8260B | Total/NA |
| Ethylbenzene | 0.0010 | | 0.00073 | 0.00015 | mg/Kg | 1 | | 8260B | Total/NA |
| n-Butylbenzene | 0.00023 | J | 0.00073 | 0.00015 | mg/Kg | 1 | | 8260B | Total/NA |
| o-Xylene | 0.00073 | | 0.00073 | 0.00044 | mg/Kg | 1 | | 8260B | Total/NA |
| m,p-Xylene | 0.0020 | | 0.0015 | 0.00035 | mg/Kg | 1 | | 8260B | Total/NA |
| Toluene | 0.00093 | | 0.00073 | 0.00044 | mg/Kg | 1 | | 8260B | Total/NA |
| GRO (C6-C12) | 0.32 | | 0.072 | 0.040 | mg/Kg | 1 | | 8015B | Total/NA |

## Client Sample ID: SSD-30-3.0 — Lab Sample ID: 570-56847-44

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDT | 0.56 | J p | 5.0 | 0.36 | ug/Kg | 1 | | 8081A | Total/NA |
| Chlordane | 5.6 | J | 25 | 2.4 | ug/Kg | 1 | | 8081A | Total/NA |

This Detection Summary does not include radiochemical test results.

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## Client Sample ID: SSD-30-3.0 (Continued) — Lab Sample ID: 570-56847-44

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| gamma-Chlordane | 1.2 | J p | 5.0 | 0.26 | ug/Kg | 1 | | 8081A | Total/NA |

## Client Sample ID: SSD-30-3.5 — Lab Sample ID: 570-56847-45

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDE | 0.84 | J | 5.0 | 0.53 | ug/Kg | 1 | | 8081A | Total/NA |
| 4,4'-DDT | 2.7 | J | 5.0 | 0.36 | ug/Kg | 1 | | 8081A | Total/NA |
| Chlordane | 29 | | 25 | 2.4 | ug/Kg | 1 | | 8081A | Total/NA |
| gamma-Chlordane | 4.8 | J p | 5.0 | 0.26 | ug/Kg | 1 | | 8081A | Total/NA |
| Heptachlor | 1.1 | J | 5.0 | 0.88 | ug/Kg | 1 | | 8081A | Total/NA |

## Client Sample ID: SSD-27-0.0 — Lab Sample ID: 570-56847-46

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1260 | 100 | | 10 | 5.0 | ug/Kg | 1 | | 8082 | Total/NA |

## Client Sample ID: SSD-27-0.5 — Lab Sample ID: 570-56847-47

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1260 | 46 | | 10 | 5.0 | ug/Kg | 1 | | 8082 | Total/NA |

## Client Sample ID: SSD-27-1.0 — Lab Sample ID: 570-56847-48

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1260 | 39 | | 9.9 | 4.9 | ug/Kg | 1 | | 8082 | Total/NA |

## Client Sample ID: SSD-27-3.5 — Lab Sample ID: 570-56847-49

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1200 | | 5.0 | 0.97 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-27-4.0 — Lab Sample ID: 570-56847-50

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 15 | | 5.0 | 0.96 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-21-1.0 — Lab Sample ID: 570-56847-51

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 310 | | 5.0 | 0.97 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-21-2.0 — Lab Sample ID: 570-56847-52

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 550 | | 5.0 | 0.96 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: TW-1-GW — Lab Sample ID: 570-56847-53

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 6.7 | | 5.0 | 3.0 | ug/L | 1 | | 8260B | Total/NA |
| Ethanol | 120 | | 50 | 38 | ug/L | 1 | | 8260B | Total/NA |

## Client Sample ID: TW-2-GW — Lab Sample ID: 570-56847-54

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 0.60 | J | 1.0 | 0.57 | ug/L | 2 | | 8260B | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: TW-2-GW (Continued) — Lab Sample ID: 570-56847-54

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | 35 | J | 50 | 22 | ug/L | 1 | | 8015B | Total/NA |

## Client Sample ID: TW-3-GW — Lab Sample ID: 570-56847-55

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 5.9 | | 5.0 | 3.0 | ug/L | 1 | | 8260B | Total/NA |
| C13-C22 | 34 | J | 50 | 22 | ug/L | 1 | | 8015B | Silica Gel Cleanup |
| C23-C40 | 180 | | 50 | 22 | ug/L | 1 | | 8015B | Silica Gel Cleanup |
| C13-C22 | 64 | | 50 | 22 | ug/L | 1 | | 8015B | Total/NA |
| C23-C40 | 290 | | 50 | 22 | ug/L | 1 | | 8015B | Total/NA |

## Client Sample ID: SB-1-GW — Lab Sample ID: 570-56847-56

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 10 | | 5.0 | 3.0 | ug/L | 1 | | 8260B | Total/NA |
| Acetone | 13 | | 8.0 | 4.0 | ug/L | 1 | | 8260B | Total/NA |
| Ethanol | 110 | | 50 | 38 | ug/L | 1 | | 8260B | Total/NA |
| C13-C22 | 60 | | 53 | 24 | ug/L | 1 | | 8015B | Total/NA |
| C23-C40 | 50 | J | 53 | 24 | ug/L | 1 | | 8015B | Total/NA |

## Client Sample ID: SB-2-GW — Lab Sample ID: 570-56847-57

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 7.0 | | 5.0 | 3.0 | ug/L | 1 | | 8260B | Total/NA |
| Ethanol | 89 | | 50 | 38 | ug/L | 1 | | 8260B | Total/NA |
| C13-C22 | 69 | | 46 | 20 | ug/L | 1 | | 8015B | Silica Gel Cleanup |
| C23-C40 | 270 | | 46 | 20 | ug/L | 1 | | 8015B | Silica Gel Cleanup |
| C13-C22 | 290 | | 46 | 20 | ug/L | 1 | | 8015B | Total/NA |
| C23-C40 | 410 | | 46 | 20 | ug/L | 1 | | 8015B | Total/NA |

## Client Sample ID: SB-3-GW — Lab Sample ID: 570-56847-58

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 31 | | 5.0 | 3.0 | ug/L | 1 | | 8260B | Total/NA |
| Acetone | 14 | | 8.0 | 4.0 | ug/L | 1 | | 8260B | Total/NA |
| C13-C22 | 25 | J | 46 | 20 | ug/L | 1 | | 8015B | Silica Gel Cleanup |
| C13-C22 | 97 | | 46 | 20 | ug/L | 1 | | 8015B | Total/NA |
| C23-C40 | 24 | J | 46 | 20 | ug/L | 1 | | 8015B | Total/NA |

## Client Sample ID: SB-4-GW — Lab Sample ID: 570-56847-59

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 4.6 | J | 5.0 | 3.0 | ug/L | 1 | | 8260B | Total/NA |
| Acetone | 4.7 | J | 8.0 | 4.0 | ug/L | 1 | | 8260B | Total/NA |
| C13-C22 | 54 | | 49 | 22 | ug/L | 1 | | 8015B | Silica Gel Cleanup |
| C13-C22 | 170 | | 49 | 22 | ug/L | 1 | | 8015B | Total/NA |
| C23-C40 | 34 | J | 49 | 22 | ug/L | 1 | | 8015B | Total/NA |

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-21-3.0
## Lab Sample ID: 570-56847-60

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 840 | | 5.1 | 0.99 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: SSD-21-4.0
## Lab Sample ID: 570-56847-61

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 3500 | | 4.9 | 0.95 | mg/Kg | 1 | | 6010B | Total/NA |

## Client Sample ID: TB
## Lab Sample ID: 570-56847-62

No Detections.

This Detection Summary does not include radiochemical test results.

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: SW-4/MW-14-C-5.0**
**Date Collected: 04/13/21 13:10**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00085 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00085 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0017 | 0.00046 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0085 | 0.00039 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00085 | 0.00039 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 1,1-Dichloroethane | ND | | 0.00085 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 1,1-Dichloroethene | ND | | 0.00085 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 1,1-Dichloropropene | ND | | 0.0017 | 0.00033 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0017 | 0.00085 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0017 | 0.00036 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0017 | 0.00035 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| **1,2,4-Trimethylbenzene** | **0.016** | | 0.0017 | 0.00051 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0085 | 0.0058 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 1,2-Dibromoethane | ND | | 0.00085 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00085 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 1,2-Dichloroethane | ND | | 0.00085 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 1,2-Dichloropropane | ND | | 0.00085 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| **1,3,5-Trimethylbenzene** | **0.0043** | | 0.0017 | 0.00051 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00085 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 1,3-Dichloropropane | ND | | 0.00085 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00085 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 2,2-Dichloropropane | ND | | 0.0043 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| **2-Butanone** | **0.043** | | 0.017 | 0.0038 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 2-Chlorotoluene | ND | | 0.00085 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 2-Hexanone | ND | | 0.017 | 0.0026 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 4-Chlorotoluene | ND | | 0.00085 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.017 | 0.0025 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| **Acetone** | **0.20** | **E** | 0.017 | 0.0084 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| **Benzene** | **0.00022** | **J** | 0.00085 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Bromobenzene | ND | | 0.00085 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Bromochloromethane | ND | | 0.0017 | 0.00038 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Bromodichloromethane | ND | | 0.00085 | 0.00014 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Bromoform | ND | | 0.0043 | 0.0011 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Bromomethane | ND | | 0.017 | 0.0056 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00085 | 0.00029 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00085 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Carbon disulfide | ND | | 0.0085 | 0.00034 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Carbon tetrachloride | ND | | 0.00085 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Chlorobenzene | ND | | 0.00085 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Chloroethane | ND | | 0.0017 | 0.0013 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Chloroform | ND | | 0.00085 | 0.00050 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Chloromethane | ND | | 0.017 | 0.0013 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Dibromochloromethane | ND | | 0.0017 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Dibromomethane | ND | | 0.00085 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Dichlorodifluoromethane | ND | | 0.0017 | 0.00039 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| **Ethylbenzene** | **0.00068** | **J** | 0.00085 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Isopropylbenzene | ND | | 0.00085 | 0.00051 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Methylene Chloride | ND | | 0.0085 | 0.0027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0017 | 0.00016 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SW-4/MW-14-C-5.0**
**Date Collected: 04/13/21 13:10**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Naphthalene** | **0.018** | | 0.0085 | 0.0044 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| **n-Butylbenzene** | **0.0019** | | 0.00085 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| **N-Propylbenzene** | **0.00088** | **J** | 0.0017 | 0.00051 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| **o-Xylene** | **0.0015** | | 0.00085 | 0.00051 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| **m,p-Xylene** | **0.0035** | | 0.0017 | 0.00040 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| p-Isopropyltoluene | ND | | 0.00085 | 0.00060 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| sec-Butylbenzene | ND | | 0.00085 | 0.00051 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Styrene | ND | | 0.00085 | 0.00060 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00085 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0017 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| tert-Butylbenzene | ND | | 0.00085 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Tetrachloroethene | ND | | 0.00085 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| **Toluene** | **0.00082** | **J** | 0.00085 | 0.00051 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Trichloroethene | ND | | 0.0017 | 0.00033 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Trichlorofluoromethane | ND | | 0.0085 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Vinyl acetate | ND | | 0.0085 | 0.0033 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |
| Vinyl chloride | ND | | 0.00085 | 0.00032 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *114* | | *80 - 142* | *04/19/21 12:03* | *04/20/21 19:19* | *1* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *80 - 120* | *04/19/21 12:03* | *04/20/21 19:19* | *1* |
| *Dibromofluoromethane (Surr)* | *107* | | *80 - 123* | *04/19/21 12:03* | *04/20/21 19:19* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* | *04/19/21 12:03* | *04/20/21 19:19* | *1* |

**Client Sample ID: TW-2-50**
**Date Collected: 04/13/21 13:40**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.0011 | 0.00033 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.0011 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0023 | 0.00061 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.011 | 0.00052 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.0011 | 0.00052 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 1,1-Dichloroethane | ND | | 0.0011 | 0.00032 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 1,1-Dichloroethene | ND | | 0.0011 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 1,1-Dichloropropene | ND | | 0.0023 | 0.00044 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0023 | 0.0011 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0023 | 0.00047 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0023 | 0.00046 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0023 | 0.00068 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.011 | 0.0076 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 1,2-Dibromoethane | ND | | 0.0011 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.0011 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 1,2-Dichloroethane | ND | | 0.0011 | 0.00031 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 1,2-Dichloropropane | ND | | 0.0011 | 0.00031 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0023 | 0.00068 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.0011 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 1,3-Dichloropropane | ND | | 0.0011 | 0.00033 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.0011 | 0.00035 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 2,2-Dichloropropane | ND | | 0.0056 | 0.00031 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-2-50**
**Date Collected: 04/13/21 13:40**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **2-Butanone** | **0.0099** | **J** | 0.023 | 0.0051 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 2-Chlorotoluene | ND | | 0.0011 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 2-Hexanone | ND | | 0.023 | 0.0035 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 4-Chlorotoluene | ND | | 0.0011 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.023 | 0.0033 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| **Acetone** | **0.12** | | 0.023 | 0.011 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Benzene | ND | | 0.0011 | 0.00029 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Bromobenzene | ND | | 0.0011 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Bromochloromethane | ND | | 0.0023 | 0.00050 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Bromodichloromethane | ND | | 0.0011 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Bromoform | ND | | 0.0056 | 0.0015 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Bromomethane | ND | | 0.023 | 0.0074 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.0011 | 0.00038 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.0011 | 0.00039 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Carbon disulfide | ND | | 0.011 | 0.00045 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Carbon tetrachloride | ND | | 0.0011 | 0.00034 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Chlorobenzene | ND | | 0.0011 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Chloroethane | ND | | 0.0023 | 0.0017 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Chloroform | ND | | 0.0011 | 0.00066 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Chloromethane | ND | | 0.023 | 0.0017 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Dibromochloromethane | ND | | 0.0023 | 0.00031 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Dibromomethane | ND | | 0.0011 | 0.00034 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Dichlorodifluoromethane | ND | | 0.0023 | 0.00051 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Ethylbenzene | ND | | 0.0011 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Isopropylbenzene | ND | | 0.0011 | 0.00068 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Methylene Chloride | ND | | 0.011 | 0.0035 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0023 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Naphthalene | ND | | 0.011 | 0.0059 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| n-Butylbenzene | ND | | 0.0011 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| N-Propylbenzene | ND | | 0.0023 | 0.00068 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| o-Xylene | ND | | 0.0011 | 0.00068 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| m,p-Xylene | ND | | 0.0023 | 0.00053 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| **p-Isopropyltoluene** | **0.0029** | | 0.0011 | 0.00079 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| sec-Butylbenzene | ND | | 0.0011 | 0.00068 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Styrene | ND | | 0.0011 | 0.00079 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.0011 | 0.00034 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0023 | 0.00032 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| tert-Butylbenzene | ND | | 0.0011 | 0.00029 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Tetrachloroethene | ND | | 0.0011 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Toluene | ND | | 0.0011 | 0.00068 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Trichloroethene | ND | | 0.0023 | 0.00044 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Trichlorofluoromethane | ND | | 0.011 | 0.00031 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Vinyl acetate | ND | | 0.011 | 0.0044 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |
| Vinyl chloride | ND | | 0.0011 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/20/21 19:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *115* | | *80 - 142* | *04/19/21 12:03* | *04/20/21 19:46* | *1* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *80 - 120* | *04/19/21 12:03* | *04/20/21 19:46* | *1* |
| *Dibromofluoromethane (Surr)* | *106* | | *80 - 123* | *04/19/21 12:03* | *04/20/21 19:46* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/19/21 12:03* | *04/20/21 19:46* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: TW-2-60**
**Date Collected: 04/13/21 13:50**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-3**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00088 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00088 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0018 | 0.00048 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0088 | 0.00041 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00088 | 0.00041 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 1,1-Dichloroethane | ND | | 0.00088 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 1,1-Dichloroethene | ND | | 0.00088 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 1,1-Dichloropropene | ND | | 0.0018 | 0.00034 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0018 | 0.00088 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0018 | 0.00037 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0018 | 0.00036 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0018 | 0.00053 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0088 | 0.0060 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 1,2-Dibromoethane | ND | | 0.00088 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00088 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 1,2-Dichloroethane | ND | | 0.00088 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 1,2-Dichloropropane | ND | | 0.00088 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0018 | 0.00053 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00088 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 1,3-Dichloropropane | ND | | 0.00088 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00088 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 2,2-Dichloropropane | ND | | 0.0044 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 2-Butanone | ND | | 0.018 | 0.0040 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 2-Chlorotoluene | ND | | 0.00088 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 2-Hexanone | ND | | 0.018 | 0.0027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 4-Chlorotoluene | ND | | 0.00088 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.018 | 0.0026 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| **Acetone** | **0.044** | | 0.018 | 0.0087 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Benzene | ND | | 0.00088 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Bromobenzene | ND | | 0.00088 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Bromochloromethane | ND | | 0.0018 | 0.00039 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Bromodichloromethane | ND | | 0.00088 | 0.00014 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Bromoform | ND | | 0.0044 | 0.0012 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Bromomethane | ND | | 0.018 | 0.0058 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00088 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00088 | 0.00031 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Carbon disulfide | ND | | 0.0088 | 0.00035 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Carbon tetrachloride | ND | | 0.00088 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Chlorobenzene | ND | | 0.00088 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Chloroethane | ND | | 0.0018 | 0.0013 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Chloroform | ND | | 0.00088 | 0.00052 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Chloromethane | ND | | 0.018 | 0.0014 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Dibromochloromethane | ND | | 0.0018 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Dibromomethane | ND | | 0.00088 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Dichlorodifluoromethane | ND | | 0.0018 | 0.00040 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Ethylbenzene | ND | | 0.00088 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Isopropylbenzene | ND | | 0.00088 | 0.00053 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Methylene Chloride | ND | | 0.0088 | 0.0028 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0018 | 0.00017 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-2-60**
**Date Collected: 04/13/21 13:50**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-3**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0088 | 0.0046 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| n-Butylbenzene | ND | | 0.00088 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| N-Propylbenzene | ND | | 0.0018 | 0.00053 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| o-Xylene | ND | | 0.00088 | 0.00053 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| m,p-Xylene | ND | | 0.0018 | 0.00042 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| p-Isopropyltoluene | ND | | 0.00088 | 0.00062 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| sec-Butylbenzene | ND | | 0.00088 | 0.00053 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Styrene | ND | | 0.00088 | 0.00062 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00088 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0018 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| tert-Butylbenzene | ND | | 0.00088 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Tetrachloroethene | ND | | 0.00088 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Toluene | ND | | 0.00088 | 0.00053 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Trichloroethene | ND | | 0.0018 | 0.00034 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Trichlorofluoromethane | ND | | 0.0088 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Vinyl acetate | ND | | 0.0088 | 0.0035 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |
| Vinyl chloride | ND | | 0.00088 | 0.00033 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *111* | | *80 - 142* | *04/19/21 12:03* | *04/20/21 20:13* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *80 - 120* | *04/19/21 12:03* | *04/20/21 20:13* | *1* |
| *Dibromofluoromethane (Surr)* | *105* | | *80 - 123* | *04/19/21 12:03* | *04/20/21 20:13* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* | *04/19/21 12:03* | *04/20/21 20:13* | *1* |

**Client Sample ID: SVP-3-6.5**
**Date Collected: 04/13/21 14:10**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-4**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00089 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00089 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0018 | 0.00048 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0089 | 0.00041 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00089 | 0.00041 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 1,1-Dichloroethane | ND | | 0.00089 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 1,1-Dichloroethene | ND | | 0.00089 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 1,1-Dichloropropene | ND | | 0.0018 | 0.00035 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0018 | 0.00089 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0018 | 0.00037 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0018 | 0.00037 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0018 | 0.00053 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0089 | 0.0060 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 1,2-Dibromoethane | ND | | 0.00089 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00089 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 1,2-Dichloroethane | ND | | 0.00089 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 1,2-Dichloropropane | ND | | 0.00089 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0018 | 0.00053 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00089 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 1,3-Dichloropropane | ND | | 0.00089 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00089 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 2,2-Dichloropropane | ND | | 0.0044 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SVP-3-6.5**
**Date Collected: 04/13/21 14:10**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-4**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **2-Butanone** | **0.0055** | **J** | 0.018 | 0.0040 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 2-Chlorotoluene | ND | | 0.00089 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 2-Hexanone | ND | | 0.018 | 0.0027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 4-Chlorotoluene | ND | | 0.00089 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.018 | 0.0026 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| **Acetone** | **0.065** | | 0.018 | 0.0087 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| **Benzene** | **0.00045** | **J** | 0.00089 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Bromobenzene | ND | | 0.00089 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Bromochloromethane | ND | | 0.0018 | 0.00040 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Bromodichloromethane | ND | | 0.00089 | 0.00014 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Bromoform | ND | | 0.0044 | 0.0012 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Bromomethane | ND | | 0.018 | 0.0058 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00089 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00089 | 0.00031 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Carbon disulfide | ND | | 0.0089 | 0.00036 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Carbon tetrachloride | ND | | 0.00089 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Chlorobenzene | ND | | 0.00089 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Chloroethane | ND | | 0.0018 | 0.0013 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Chloroform | ND | | 0.00089 | 0.00052 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Chloromethane | ND | | 0.018 | 0.0014 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Dibromochloromethane | ND | | 0.0018 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Dibromomethane | ND | | 0.00089 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Dichlorodifluoromethane | ND | | 0.0018 | 0.00040 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Ethylbenzene | ND | | 0.00089 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Isopropylbenzene | ND | | 0.00089 | 0.00053 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Methylene Chloride | ND | | 0.0089 | 0.0028 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0018 | 0.00017 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Naphthalene | ND | | 0.0089 | 0.0046 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| n-Butylbenzene | ND | | 0.00089 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| N-Propylbenzene | ND | | 0.0018 | 0.00053 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| o-Xylene | ND | | 0.00089 | 0.00053 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| m,p-Xylene | ND | | 0.0018 | 0.00042 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| p-Isopropyltoluene | ND | | 0.00089 | 0.00062 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| sec-Butylbenzene | ND | | 0.00089 | 0.00053 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Styrene | ND | | 0.00089 | 0.00062 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00089 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0018 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| tert-Butylbenzene | ND | | 0.00089 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Tetrachloroethene | ND | | 0.00089 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Toluene | ND | | 0.00089 | 0.00053 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Trichloroethene | ND | | 0.0018 | 0.00034 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Trichlorofluoromethane | ND | | 0.0089 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Vinyl acetate | ND | | 0.0089 | 0.0035 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |
| Vinyl chloride | ND | | 0.00089 | 0.00034 | mg/Kg | | 04/19/21 12:03 | 04/20/21 20:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *119* | | *80 - 142* | *04/19/21 12:03* | *04/20/21 20:41* | *1* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *80 - 120* | *04/19/21 12:03* | *04/20/21 20:41* | *1* |
| *Dibromofluoromethane (Surr)* | *105* | | *80 - 123* | *04/19/21 12:03* | *04/20/21 20:41* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | *04/19/21 12:03* | *04/20/21 20:41* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: SB-1-10.0**
**Date Collected: 04/13/21 15:55**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-5**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00090 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00090 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0018 | 0.00049 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0090 | 0.00041 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00090 | 0.00042 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 1,1-Dichloroethane | ND | | 0.00090 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 1,1-Dichloroethene | ND | | 0.00090 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 1,1-Dichloropropene | ND | | 0.0018 | 0.00035 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0018 | 0.00090 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0018 | 0.00038 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0018 | 0.00037 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0018 | 0.00054 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0090 | 0.0061 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 1,2-Dibromoethane | ND | | 0.00090 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00090 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 1,2-Dichloroethane | ND | | 0.00090 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 1,2-Dichloropropane | ND | | 0.00090 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0018 | 0.00054 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00090 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 1,3-Dichloropropane | ND | | 0.00090 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00090 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 2,2-Dichloropropane | ND | | 0.0045 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| **2-Butanone** | **0.0043** | **J** | 0.018 | 0.0040 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 2-Chlorotoluene | ND | | 0.00090 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 2-Hexanone | ND | | 0.018 | 0.0028 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 4-Chlorotoluene | ND | | 0.00090 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.018 | 0.0026 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| **Acetone** | **0.077** | | 0.018 | 0.0088 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Benzene | ND | | 0.00090 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Bromobenzene | ND | | 0.00090 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Bromochloromethane | ND | | 0.0018 | 0.00040 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Bromodichloromethane | ND | | 0.00090 | 0.00014 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Bromoform | ND | | 0.0045 | 0.0012 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Bromomethane | ND | | 0.018 | 0.0059 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00090 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00090 | 0.00031 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Carbon disulfide | ND | | 0.0090 | 0.00036 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Carbon tetrachloride | ND | | 0.00090 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Chlorobenzene | ND | | 0.00090 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Chloroethane | ND | | 0.0018 | 0.0013 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Chloroform | ND | | 0.00090 | 0.00053 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Chloromethane | ND | | 0.018 | 0.0014 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Dibromochloromethane | ND | | 0.0018 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Dibromomethane | ND | | 0.00090 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Dichlorodifluoromethane | ND | | 0.0018 | 0.00041 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Ethylbenzene | ND | | 0.00090 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Isopropylbenzene | ND | | 0.00090 | 0.00054 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Methylene Chloride | ND | | 0.0090 | 0.0028 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0018 | 0.00017 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-1-10.0**
**Date Collected: 04/13/21 15:55**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-5**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0090 | 0.0047 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| n-Butylbenzene | ND | | 0.00090 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| N-Propylbenzene | ND | | 0.0018 | 0.00054 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| o-Xylene | ND | | 0.00090 | 0.00054 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| m,p-Xylene | ND | | 0.0018 | 0.00042 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| p-Isopropyltoluene | ND | | 0.00090 | 0.00063 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| sec-Butylbenzene | ND | | 0.00090 | 0.00054 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Styrene | ND | | 0.00090 | 0.00063 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00090 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0018 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| tert-Butylbenzene | ND | | 0.00090 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Tetrachloroethene | ND | | 0.00090 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Toluene | ND | | 0.00090 | 0.00054 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| **Trichloroethene** | **0.00037** | **J** | 0.0018 | 0.00035 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Trichlorofluoromethane | ND | | 0.0090 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Vinyl acetate | ND | | 0.0090 | 0.0035 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |
| Vinyl chloride | ND | | 0.00090 | 0.00034 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *115* | | *80 - 142* | *04/19/21 12:03* | *04/20/21 21:08* | *1* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *80 - 120* | *04/19/21 12:03* | *04/20/21 21:08* | *1* |
| *Dibromofluoromethane (Surr)* | *105* | | *80 - 123* | *04/19/21 12:03* | *04/20/21 21:08* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* | *04/19/21 12:03* | *04/20/21 21:08* | *1* |

**Client Sample ID: SB-1-15.0**
**Date Collected: 04/13/21 16:00**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-6**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.0013 | 0.00037 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.0013 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0026 | 0.00069 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.013 | 0.00059 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.0013 | 0.00059 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 1,1-Dichloroethane | ND | | 0.0013 | 0.00036 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 1,1-Dichloroethene | ND | | 0.0013 | 0.00034 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 1,1-Dichloropropene | ND | | 0.0026 | 0.00050 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0026 | 0.0013 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0026 | 0.00054 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0026 | 0.00052 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0026 | 0.00077 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.013 | 0.0086 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 1,2-Dibromoethane | ND | | 0.0013 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.0013 | 0.00032 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 1,2-Dichloroethane | ND | | 0.0013 | 0.00035 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 1,2-Dichloropropane | ND | | 0.0013 | 0.00035 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0026 | 0.00077 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.0013 | 0.00032 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 1,3-Dichloropropane | ND | | 0.0013 | 0.00038 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.0013 | 0.00039 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 2,2-Dichloropropane | ND | | 0.0064 | 0.00035 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-1-15.0**
**Date Collected: 04/13/21 16:00**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-6**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **2-Butanone** | **0.016** | **J** | 0.026 | 0.0058 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 2-Chlorotoluene | ND | | 0.0013 | 0.00032 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 2-Hexanone | ND | | 0.026 | 0.0039 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 4-Chlorotoluene | ND | | 0.0013 | 0.00031 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.026 | 0.0037 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| **Acetone** | **0.22** | | 0.026 | 0.013 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| **Benzene** | **0.00050** | **J** | 0.0013 | 0.00033 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Bromobenzene | ND | | 0.0013 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Bromochloromethane | ND | | 0.0026 | 0.00057 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Bromodichloromethane | ND | | 0.0013 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Bromoform | ND | | 0.0064 | 0.0017 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Bromomethane | ND | | 0.026 | 0.0084 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.0013 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.0013 | 0.00045 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| **Carbon disulfide** | **0.00063** | **J** | 0.013 | 0.00051 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Carbon tetrachloride | ND | | 0.0013 | 0.00038 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Chlorobenzene | ND | | 0.0013 | 0.00034 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Chloroethane | ND | | 0.0026 | 0.0019 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Chloroform | ND | | 0.0013 | 0.00075 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Chloromethane | ND | | 0.026 | 0.0020 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Dibromochloromethane | ND | | 0.0026 | 0.00035 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Dibromomethane | ND | | 0.0013 | 0.00039 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Dichlorodifluoromethane | ND | | 0.0026 | 0.00058 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Ethylbenzene | ND | | 0.0013 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Isopropylbenzene | ND | | 0.0013 | 0.00077 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Methylene Chloride | ND | | 0.013 | 0.0040 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0026 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Naphthalene | ND | | 0.013 | 0.0067 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| n-Butylbenzene | ND | | 0.0013 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| N-Propylbenzene | ND | | 0.0026 | 0.00077 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| o-Xylene | ND | | 0.0013 | 0.00077 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| m,p-Xylene | ND | | 0.0026 | 0.00060 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| p-Isopropyltoluene | ND | | 0.0013 | 0.00089 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| sec-Butylbenzene | ND | | 0.0013 | 0.00077 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Styrene | ND | | 0.0013 | 0.00089 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.0013 | 0.00038 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0026 | 0.00036 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| tert-Butylbenzene | ND | | 0.0013 | 0.00032 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Tetrachloroethene | ND | | 0.0013 | 0.00029 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| **Toluene** | **0.00082** | **J** | 0.0013 | 0.00077 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Trichloroethene | ND | | 0.0026 | 0.00049 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Trichlorofluoromethane | ND | | 0.013 | 0.00035 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Vinyl acetate | ND | | 0.013 | 0.0050 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |
| Vinyl chloride | ND | | 0.0013 | 0.00048 | mg/Kg | | 04/19/21 12:03 | 04/20/21 21:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *115* | | *80 - 142* | *04/19/21 12:03* | *04/20/21 21:36* | *1* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *80 - 120* | *04/19/21 12:03* | *04/20/21 21:36* | *1* |
| *Dibromofluoromethane (Surr)* | *103* | | *80 - 123* | *04/19/21 12:03* | *04/20/21 21:36* | *1* |
| *Toluene-d8 (Surr)* | *103* | | *80 - 120* | *04/19/21 12:03* | *04/20/21 21:36* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: SB-2-10.0**
**Date Collected: 04/13/21 16:30**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-7**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00075 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00075 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0015 | 0.00041 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0075 | 0.00035 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00075 | 0.00035 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 1,1-Dichloroethane | ND | | 0.00075 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 1,1-Dichloroethene | ND | | 0.00075 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 1,1-Dichloropropene | ND | | 0.0015 | 0.00029 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0015 | 0.00075 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0015 | 0.00031 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0015 | 0.00031 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0015 | 0.00045 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0075 | 0.0051 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 1,2-Dibromoethane | ND | | 0.00075 | 0.00015 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 1,2-Dichloroethane | ND | | 0.00075 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 1,2-Dichloropropane | ND | | 0.00075 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0015 | 0.00045 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 1,3-Dichloropropane | ND | | 0.00075 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00075 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 2,2-Dichloropropane | ND | | 0.0038 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 2-Butanone | ND | | 0.015 | 0.0034 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 2-Chlorotoluene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 2-Hexanone | ND | | 0.015 | 0.0023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 4-Chlorotoluene | ND | | 0.00075 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.015 | 0.0022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| **Acetone** | **0.027** | | 0.015 | 0.0074 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Benzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Bromobenzene | ND | | 0.00075 | 0.00016 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Bromochloromethane | ND | | 0.0015 | 0.00033 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Bromodichloromethane | ND | | 0.00075 | 0.00012 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Bromoform | ND | | 0.0038 | 0.00099 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Bromomethane | ND | | 0.015 | 0.0049 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00075 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00075 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Carbon disulfide | ND | | 0.0075 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Carbon tetrachloride | ND | | 0.00075 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Chlorobenzene | ND | | 0.00075 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Chloroethane | ND | | 0.0015 | 0.0011 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Chloroform | ND | | 0.00075 | 0.00044 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Chloromethane | ND | | 0.015 | 0.0012 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Dibromochloromethane | ND | | 0.0015 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Dibromomethane | ND | | 0.00075 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Dichlorodifluoromethane | ND | | 0.0015 | 0.00034 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Ethylbenzene | ND | | 0.00075 | 0.00015 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Isopropylbenzene | ND | | 0.00075 | 0.00045 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Methylene Chloride | ND | | 0.0075 | 0.0023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0015 | 0.00014 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-2-10.0**
**Date Collected: 04/13/21 16:30**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-7**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0075 | 0.0039 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| n-Butylbenzene | ND | | 0.00075 | 0.00016 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| N-Propylbenzene | ND | | 0.0015 | 0.00045 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| o-Xylene | ND | | 0.00075 | 0.00045 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| m,p-Xylene | ND | | 0.0015 | 0.00036 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| p-Isopropyltoluene | ND | | 0.00075 | 0.00053 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| sec-Butylbenzene | ND | | 0.00075 | 0.00045 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Styrene | ND | | 0.00075 | 0.00053 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00075 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0015 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| tert-Butylbenzene | ND | | 0.00075 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Tetrachloroethene | ND | | 0.00075 | 0.00017 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Toluene | ND | | 0.00075 | 0.00045 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Trichloroethene | ND | | 0.0015 | 0.00029 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Trichlorofluoromethane | ND | | 0.0075 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Vinyl acetate | ND | *+ | 0.0075 | 0.0029 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |
| Vinyl chloride | ND | | 0.00075 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *80 - 142* | *04/19/21 12:03* | *04/21/21 11:23* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* | *04/19/21 12:03* | *04/21/21 11:23* | *1* |
| *Dibromofluoromethane (Surr)* | *98* | | *80 - 123* | *04/19/21 12:03* | *04/21/21 11:23* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/19/21 12:03* | *04/21/21 11:23* | *1* |

**Client Sample ID: SB-2-15.0**
**Date Collected: 04/13/21 16:40**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-8**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00072 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00072 | 0.00017 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0014 | 0.00039 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0072 | 0.00033 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00072 | 0.00033 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 1,1-Dichloroethane | ND | | 0.00072 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 1,1-Dichloroethene | ND | | 0.00072 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 1,1-Dichloropropene | ND | | 0.0014 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0014 | 0.00072 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0014 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0014 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0014 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0072 | 0.0049 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 1,2-Dibromoethane | ND | | 0.00072 | 0.00015 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00072 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 1,2-Dichloroethane | ND | | 0.00072 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 1,2-Dichloropropane | ND | | 0.00072 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0014 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00072 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 1,3-Dichloropropane | ND | | 0.00072 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00072 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 2,2-Dichloropropane | ND | | 0.0036 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-2-15.0**
**Date Collected: 04/13/21 16:40**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-8**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | ND | | 0.014 | 0.0033 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 2-Chlorotoluene | ND | | 0.00072 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 2-Hexanone | ND | | 0.014 | 0.0022 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 4-Chlorotoluene | ND | | 0.00072 | 0.00017 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.014 | 0.0021 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| **Acetone** | **0.010** | **J** | 0.014 | 0.0071 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Benzene | ND | | 0.00072 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Bromobenzene | ND | | 0.00072 | 0.00015 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Bromochloromethane | ND | | 0.0014 | 0.00032 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Bromodichloromethane | ND | | 0.00072 | 0.00011 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Bromoform | ND | | 0.0036 | 0.00095 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Bromomethane | ND | | 0.014 | 0.0047 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00072 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00072 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Carbon disulfide | ND | | 0.0072 | 0.00029 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Carbon tetrachloride | ND | | 0.00072 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Chlorobenzene | ND | | 0.00072 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Chloroethane | ND | | 0.0014 | 0.0011 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Chloroform | ND | | 0.00072 | 0.00042 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Chloromethane | ND | | 0.014 | 0.0011 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Dibromochloromethane | ND | | 0.0014 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Dibromomethane | ND | | 0.00072 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Dichlorodifluoromethane | ND | | 0.0014 | 0.00033 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Ethylbenzene | ND | | 0.00072 | 0.00015 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Isopropylbenzene | ND | | 0.00072 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Methylene Chloride | ND | | 0.0072 | 0.0022 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0014 | 0.00014 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Naphthalene | ND | | 0.0072 | 0.0038 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| n-Butylbenzene | ND | | 0.00072 | 0.00015 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| N-Propylbenzene | ND | | 0.0014 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| o-Xylene | ND | | 0.00072 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| m,p-Xylene | ND | | 0.0014 | 0.00034 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| p-Isopropyltoluene | ND | | 0.00072 | 0.00050 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| sec-Butylbenzene | ND | | 0.00072 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Styrene | ND | | 0.00072 | 0.00050 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00072 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0014 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| tert-Butylbenzene | ND | | 0.00072 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Tetrachloroethene | ND | | 0.00072 | 0.00016 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Toluene | ND | | 0.00072 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Trichloroethene | ND | | 0.0014 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Trichlorofluoromethane | ND | | 0.0072 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Vinyl acetate | ND | | 0.0072 | 0.0028 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |
| Vinyl chloride | ND | | 0.00072 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 15:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *80 - 142* | *04/19/21 12:03* | *04/20/21 15:35* | *1* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *80 - 120* | *04/19/21 12:03* | *04/20/21 15:35* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *80 - 123* | *04/19/21 12:03* | *04/20/21 15:35* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | *04/19/21 12:03* | *04/20/21 15:35* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: TW-1-10.0**
**Date Collected: 04/14/21 08:30**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-9**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00069 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00069 | 0.00016 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0014 | 0.00037 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0069 | 0.00032 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00069 | 0.00032 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 1,1-Dichloroethane | ND | | 0.00069 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 1,1-Dichloroethene | ND | | 0.00069 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 1,1-Dichloropropene | ND | | 0.0014 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0014 | 0.00069 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0014 | 0.00029 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0014 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0014 | 0.00041 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0069 | 0.0046 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 1,2-Dibromoethane | ND | | 0.00069 | 0.00014 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00069 | 0.00017 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 1,2-Dichloroethane | ND | | 0.00069 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 1,2-Dichloropropane | ND | | 0.00069 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0014 | 0.00041 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00069 | 0.00017 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 1,3-Dichloropropane | ND | | 0.00069 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00069 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 2,2-Dichloropropane | ND | | 0.0034 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| **2-Butanone** | **0.0038** | **J** | 0.014 | 0.0031 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 2-Chlorotoluene | ND | | 0.00069 | 0.00017 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 2-Hexanone | ND | | 0.014 | 0.0021 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 4-Chlorotoluene | ND | | 0.00069 | 0.00017 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.014 | 0.0020 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| **Acetone** | **0.037** | | 0.014 | 0.0068 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Benzene | ND | | 0.00069 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Bromobenzene | ND | | 0.00069 | 0.00014 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Bromochloromethane | ND | | 0.0014 | 0.00031 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Bromodichloromethane | ND | | 0.00069 | 0.00011 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Bromoform | ND | | 0.0034 | 0.00091 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Bromomethane | ND | | 0.014 | 0.0045 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00069 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00069 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Carbon disulfide | ND | | 0.0069 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Carbon tetrachloride | ND | | 0.00069 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Chlorobenzene | ND | | 0.00069 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Chloroethane | ND | | 0.0014 | 0.0010 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Chloroform | ND | | 0.00069 | 0.00040 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Chloromethane | ND | | 0.014 | 0.0011 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Dibromochloromethane | ND | | 0.0014 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Dibromomethane | ND | | 0.00069 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Dichlorodifluoromethane | ND | | 0.0014 | 0.00031 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Ethylbenzene | ND | | 0.00069 | 0.00014 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Isopropylbenzene | ND | | 0.00069 | 0.00041 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Methylene Chloride | ND | | 0.0069 | 0.0021 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0014 | 0.00013 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-1-10.0**
**Date Collected: 04/14/21 08:30**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-9**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0069 | 0.0036 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| n-Butylbenzene | ND | | 0.00069 | 0.00014 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| N-Propylbenzene | ND | | 0.0014 | 0.00041 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| o-Xylene | ND | | 0.00069 | 0.00041 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| m,p-Xylene | ND | | 0.0014 | 0.00033 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| p-Isopropyltoluene | ND | | 0.00069 | 0.00048 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| sec-Butylbenzene | ND | | 0.00069 | 0.00041 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Styrene | ND | | 0.00069 | 0.00048 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00069 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0014 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| tert-Butylbenzene | ND | | 0.00069 | 0.00017 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Tetrachloroethene | ND | | 0.00069 | 0.00015 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Toluene | ND | | 0.00069 | 0.00041 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Trichloroethene | ND | | 0.0014 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Trichlorofluoromethane | ND | | 0.0069 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Vinyl acetate | ND | | 0.0069 | 0.0027 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |
| Vinyl chloride | ND | | 0.00069 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/20/21 16:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *80 - 142* | *04/19/21 12:03* | *04/20/21 16:02* | *1* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *80 - 120* | *04/19/21 12:03* | *04/20/21 16:02* | *1* |
| *Dibromofluoromethane (Surr)* | *98* | | *80 - 123* | *04/19/21 12:03* | *04/20/21 16:02* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/19/21 12:03* | *04/20/21 16:02* | *1* |

**Client Sample ID: TW-1-20.0**
**Date Collected: 04/14/21 08:35**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-10**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00070 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00070 | 0.00016 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0014 | 0.00038 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0070 | 0.00032 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00070 | 0.00033 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 1,1-Dichloroethane | ND | | 0.00070 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 1,1-Dichloroethene | ND | | 0.00070 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 1,1-Dichloropropene | ND | | 0.0014 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0014 | 0.00070 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0014 | 0.00029 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0014 | 0.00029 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0014 | 0.00042 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0070 | 0.0047 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 1,2-Dibromoethane | ND | | 0.00070 | 0.00014 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00070 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 1,2-Dichloroethane | ND | | 0.00070 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 1,2-Dichloropropane | ND | | 0.00070 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0014 | 0.00042 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00070 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 1,3-Dichloropropane | ND | | 0.00070 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00070 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 2,2-Dichloropropane | ND | | 0.0035 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-1-20.0**
**Date Collected: 04/14/21 08:35**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-10**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | ND | | 0.014 | 0.0032 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 2-Chlorotoluene | ND | | 0.00070 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 2-Hexanone | ND | | 0.014 | 0.0022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 4-Chlorotoluene | ND | | 0.00070 | 0.00017 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.014 | 0.0020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| **Acetone** | **0.014** | | 0.014 | 0.0069 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Benzene | ND | | 0.00070 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Bromobenzene | ND | | 0.00070 | 0.00015 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Bromochloromethane | ND | | 0.0014 | 0.00031 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Bromodichloromethane | ND | | 0.00070 | 0.00011 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Bromoform | ND | | 0.0035 | 0.00093 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Bromomethane | ND | | 0.014 | 0.0046 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00070 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00070 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Carbon disulfide | ND | | 0.0070 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Carbon tetrachloride | ND | | 0.00070 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Chlorobenzene | ND | | 0.00070 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Chloroethane | ND | | 0.0014 | 0.0011 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Chloroform | ND | | 0.00070 | 0.00041 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Chloromethane | ND | | 0.014 | 0.0011 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Dibromochloromethane | ND | | 0.0014 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Dibromomethane | ND | | 0.00070 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Dichlorodifluoromethane | ND | | 0.0014 | 0.00032 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Ethylbenzene | ND | | 0.00070 | 0.00014 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Isopropylbenzene | ND | | 0.00070 | 0.00042 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Methylene Chloride | ND | | 0.0070 | 0.0022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0014 | 0.00013 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Naphthalene | ND | | 0.0070 | 0.0036 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| n-Butylbenzene | ND | | 0.00070 | 0.00015 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| N-Propylbenzene | ND | | 0.0014 | 0.00042 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| o-Xylene | ND | | 0.00070 | 0.00042 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| m,p-Xylene | ND | | 0.0014 | 0.00033 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| p-Isopropyltoluene | ND | | 0.00070 | 0.00049 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| sec-Butylbenzene | ND | | 0.00070 | 0.00042 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Styrene | ND | | 0.00070 | 0.00049 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00070 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0014 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| tert-Butylbenzene | ND | | 0.00070 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Tetrachloroethene | ND | | 0.00070 | 0.00016 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Toluene | ND | | 0.00070 | 0.00042 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Trichloroethene | ND | | 0.0014 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Trichlorofluoromethane | ND | | 0.0070 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Vinyl acetate | ND | | 0.0070 | 0.0027 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |
| Vinyl chloride | ND | | 0.00070 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *119* | | *80 - 142* | *04/19/21 12:03* | *04/21/21 11:28* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *80 - 120* | *04/19/21 12:03* | *04/21/21 11:28* | *1* |
| *Dibromofluoromethane (Surr)* | *108* | | *80 - 123* | *04/19/21 12:03* | *04/21/21 11:28* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/19/21 12:03* | *04/21/21 11:28* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: TW-1-30.0**
**Date Collected: 04/14/21 09:00**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-11**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00072 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00072 | 0.00017 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0014 | 0.00039 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0072 | 0.00033 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00072 | 0.00034 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 1,1-Dichloroethane | ND | | 0.00072 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 1,1-Dichloroethene | ND | | 0.00072 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 1,1-Dichloropropene | ND | | 0.0014 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0014 | 0.00072 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0014 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0014 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0014 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0072 | 0.0049 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 1,2-Dibromoethane | ND | | 0.00072 | 0.00015 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00072 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 1,2-Dichloroethane | ND | | 0.00072 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 1,2-Dichloropropane | ND | | 0.00072 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0014 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00072 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 1,3-Dichloropropane | ND | | 0.00072 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00072 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 2,2-Dichloropropane | ND | | 0.0036 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 2-Butanone | ND | | 0.014 | 0.0033 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 2-Chlorotoluene | ND | | 0.00072 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 2-Hexanone | ND | | 0.014 | 0.0022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 4-Chlorotoluene | ND | | 0.00072 | 0.00017 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.014 | 0.0021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| **Acetone** | **0.016** | | 0.014 | 0.0071 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Benzene | ND | | 0.00072 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Bromobenzene | ND | | 0.00072 | 0.00015 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Bromochloromethane | ND | | 0.0014 | 0.00032 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Bromodichloromethane | ND | | 0.00072 | 0.00011 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Bromoform | ND | | 0.0036 | 0.00095 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Bromomethane | ND | | 0.014 | 0.0047 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00072 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00072 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Carbon disulfide | ND | | 0.0072 | 0.00029 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Carbon tetrachloride | ND | | 0.00072 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Chlorobenzene | ND | | 0.00072 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Chloroethane | ND | | 0.0014 | 0.0011 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Chloroform | ND | | 0.00072 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Chloromethane | ND | | 0.014 | 0.0011 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Dibromochloromethane | ND | | 0.0014 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Dibromomethane | ND | | 0.00072 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Dichlorodifluoromethane | ND | | 0.0014 | 0.00033 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Ethylbenzene | ND | | 0.00072 | 0.00015 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Isopropylbenzene | ND | | 0.00072 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Methylene Chloride | ND | | 0.0072 | 0.0023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0014 | 0.00014 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-1-30.0**
**Date Collected: 04/14/21 09:00**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-11**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0072 | 0.0038 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| n-Butylbenzene | ND | | 0.00072 | 0.00015 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| N-Propylbenzene | ND | | 0.0014 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| o-Xylene | ND | | 0.00072 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| m,p-Xylene | ND | | 0.0014 | 0.00034 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| p-Isopropyltoluene | ND | | 0.00072 | 0.00051 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| sec-Butylbenzene | ND | | 0.00072 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Styrene | ND | | 0.00072 | 0.00051 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00072 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0014 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| tert-Butylbenzene | ND | | 0.00072 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Tetrachloroethene | ND | | 0.00072 | 0.00016 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Toluene | ND | | 0.00072 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Trichloroethene | ND | | 0.0014 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Trichlorofluoromethane | ND | | 0.0072 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Vinyl acetate | ND | | 0.0072 | 0.0028 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |
| Vinyl chloride | ND | | 0.00072 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/21/21 11:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *120* | | *80 - 142* | *04/19/21 12:03* | *04/21/21 11:57* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *80 - 120* | *04/19/21 12:03* | *04/21/21 11:57* | *1* |
| *Dibromofluoromethane (Surr)* | *106* | | *80 - 123* | *04/19/21 12:03* | *04/21/21 11:57* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/19/21 12:03* | *04/21/21 11:57* | *1* |

**Client Sample ID: TW-1-40.0**
**Date Collected: 04/14/21 09:50**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-12**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00094 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00094 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0019 | 0.00051 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0094 | 0.00044 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00094 | 0.00044 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 1,1-Dichloroethane | ND | | 0.00094 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 1,1-Dichloroethene | ND | | 0.00094 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 1,1-Dichloropropene | ND | | 0.0019 | 0.00037 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0019 | 0.00094 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0019 | 0.00040 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0019 | 0.00039 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0019 | 0.00057 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0094 | 0.0064 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 1,2-Dibromoethane | ND | | 0.00094 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00094 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 1,2-Dichloroethane | ND | | 0.00094 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 1,2-Dichloropropane | ND | | 0.00094 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0019 | 0.00057 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00094 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 1,3-Dichloropropane | ND | | 0.00094 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00094 | 0.00029 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 2,2-Dichloropropane | ND | | 0.0047 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-1-40.0**
**Date Collected: 04/14/21 09:50**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-12**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | ND | | 0.019 | 0.0043 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 2-Chlorotoluene | ND | | 0.00094 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 2-Hexanone | ND | | 0.019 | 0.0029 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 4-Chlorotoluene | ND | | 0.00094 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.019 | 0.0027 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| **Acetone** | **0.049** | | 0.019 | 0.0093 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Benzene | ND | | 0.00094 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Bromobenzene | ND | | 0.00094 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Bromochloromethane | ND | | 0.0019 | 0.00042 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Bromodichloromethane | ND | | 0.00094 | 0.00015 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Bromoform | ND | | 0.0047 | 0.0012 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Bromomethane | ND | | 0.019 | 0.0062 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00094 | 0.00032 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00094 | 0.00033 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Carbon disulfide | ND | | 0.0094 | 0.00038 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Carbon tetrachloride | ND | | 0.00094 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Chlorobenzene | ND | | 0.00094 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Chloroethane | ND | | 0.0019 | 0.0014 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Chloroform | ND | | 0.00094 | 0.00056 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Chloromethane | ND | | 0.019 | 0.0015 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Dibromochloromethane | ND | | 0.0019 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Dibromomethane | ND | | 0.00094 | 0.00029 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Dichlorodifluoromethane | ND | | 0.0019 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Ethylbenzene | ND | | 0.00094 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Isopropylbenzene | ND | | 0.00094 | 0.00057 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Methylene Chloride | ND | | 0.0094 | 0.0029 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0019 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Naphthalene | ND | | 0.0094 | 0.0049 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| n-Butylbenzene | ND | | 0.00094 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| N-Propylbenzene | ND | | 0.0019 | 0.00057 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| o-Xylene | ND | | 0.00094 | 0.00057 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| m,p-Xylene | ND | | 0.0019 | 0.00045 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| p-Isopropyltoluene | ND | | 0.00094 | 0.00066 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| sec-Butylbenzene | ND | | 0.00094 | 0.00057 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Styrene | ND | | 0.00094 | 0.00066 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00094 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0019 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| tert-Butylbenzene | ND | | 0.00094 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Tetrachloroethene | ND | | 0.00094 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Toluene | ND | | 0.00094 | 0.00057 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Trichloroethene | ND | | 0.0019 | 0.00036 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Trichlorofluoromethane | ND | | 0.0094 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Vinyl acetate | ND | | 0.0094 | 0.0037 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |
| Vinyl chloride | ND | | 0.00094 | 0.00036 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *118* | | *80 - 142* | *04/19/21 12:03* | *04/21/21 12:25* | *1* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *80 - 120* | *04/19/21 12:03* | *04/21/21 12:25* | *1* |
| *Dibromofluoromethane (Surr)* | *105* | | *80 - 123* | *04/19/21 12:03* | *04/21/21 12:25* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* | *04/19/21 12:03* | *04/21/21 12:25* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: SVP-4-6.5**
**Date Collected: 04/14/21 09:10**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-13**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.0010 | 0.00029 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.0010 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0020 | 0.00055 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.010 | 0.00047 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.0010 | 0.00047 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 1,1-Dichloroethane | ND | | 0.0010 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 1,1-Dichloroethene | ND | | 0.0010 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 1,1-Dichloropropene | ND | | 0.0020 | 0.00039 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0020 | 0.0010 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0020 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0020 | 0.00042 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0020 | 0.00061 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.010 | 0.0069 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 1,2-Dibromoethane | ND | | 0.0010 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 1,2-Dichloroethane | ND | | 0.0010 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 1,2-Dichloropropane | ND | | 0.0010 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0020 | 0.00061 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.0010 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 1,3-Dichloropropane | ND | | 0.0010 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.0010 | 0.00031 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 2,2-Dichloropropane | ND | | 0.0051 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| **2-Butanone** | **0.0079** | **J** | 0.020 | 0.0046 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 2-Chlorotoluene | ND | | 0.0010 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 2-Hexanone | ND | | 0.020 | 0.0031 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 4-Chlorotoluene | ND | | 0.0010 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.020 | 0.0030 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| **Acetone** | **0.12** | | 0.020 | 0.010 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Benzene | ND | | 0.0010 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Bromobenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Bromochloromethane | ND | | 0.0020 | 0.00045 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Bromodichloromethane | ND | | 0.0010 | 0.00016 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Bromoform | ND | | 0.0051 | 0.0013 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Bromomethane | ND | | 0.020 | 0.0067 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.0010 | 0.00034 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.0010 | 0.00035 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Carbon disulfide | ND | | 0.010 | 0.00041 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Carbon tetrachloride | ND | | 0.0010 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Chlorobenzene | ND | | 0.0010 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Chloroethane | ND | | 0.0020 | 0.0015 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Chloroform | ND | | 0.0010 | 0.00060 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Chloromethane | ND | | 0.020 | 0.0016 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Dibromochloromethane | ND | | 0.0020 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Dibromomethane | ND | | 0.0010 | 0.00031 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Dichlorodifluoromethane | ND | | 0.0020 | 0.00046 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Ethylbenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Isopropylbenzene | ND | | 0.0010 | 0.00061 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Methylene Chloride | ND | | 0.010 | 0.0032 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0020 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SVP-4-6.5**
**Date Collected: 04/14/21 09:10**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-13**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.010 | 0.0053 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| n-Butylbenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| N-Propylbenzene | ND | | 0.0020 | 0.00061 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| o-Xylene | ND | | 0.0010 | 0.00061 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| m,p-Xylene | ND | | 0.0020 | 0.00048 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| p-Isopropyltoluene | ND | | 0.0010 | 0.00071 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| sec-Butylbenzene | ND | | 0.0010 | 0.00061 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Styrene | ND | | 0.0010 | 0.00071 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.0010 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0020 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| tert-Butylbenzene | ND | | 0.0010 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Tetrachloroethene | ND | | 0.0010 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Toluene | ND | | 0.0010 | 0.00061 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Trichloroethene | ND | | 0.0020 | 0.00039 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Trichlorofluoromethane | ND | | 0.010 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Vinyl acetate | ND | | 0.010 | 0.0040 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |
| Vinyl chloride | ND | | 0.0010 | 0.00038 | mg/Kg | | 04/19/21 12:03 | 04/21/21 12:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *123* | | *80 - 142* | *04/19/21 12:03* | *04/21/21 12:52* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *80 - 120* | *04/19/21 12:03* | *04/21/21 12:52* | *1* |
| *Dibromofluoromethane (Surr)* | *113* | | *80 - 123* | *04/19/21 12:03* | *04/21/21 12:52* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/19/21 12:03* | *04/21/21 12:52* | *1* |

**Client Sample ID: SVP-1-6.5**
**Date Collected: 04/14/21 09:30**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-14**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00097 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00097 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0019 | 0.00053 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0097 | 0.00045 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00097 | 0.00045 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 1,1-Dichloroethane | ND | | 0.00097 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 1,1-Dichloroethene | ND | | 0.00097 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 1,1-Dichloropropene | ND | | 0.0019 | 0.00038 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0019 | 0.00097 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0019 | 0.00041 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0019 | 0.00040 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0019 | 0.00058 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0097 | 0.0066 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 1,2-Dibromoethane | ND | | 0.00097 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00097 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 1,2-Dichloroethane | ND | | 0.00097 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 1,2-Dichloropropane | ND | | 0.00097 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0019 | 0.00058 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00097 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 1,3-Dichloropropane | ND | | 0.00097 | 0.00029 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00097 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 2,2-Dichloropropane | ND | | 0.0049 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SVP-1-6.5**
**Date Collected: 04/14/21 09:30**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-14**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **2-Butanone** | **0.0076** | **J** | 0.019 | 0.0044 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 2-Chlorotoluene | ND | | 0.00097 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 2-Hexanone | ND | | 0.019 | 0.0030 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 4-Chlorotoluene | ND | | 0.00097 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.019 | 0.0028 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| **Acetone** | **0.077** | | 0.019 | 0.0096 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| **Benzene** | **0.0028** | | 0.00097 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Bromobenzene | ND | | 0.00097 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Bromochloromethane | ND | | 0.0019 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Bromodichloromethane | ND | | 0.00097 | 0.00015 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Bromoform | ND | | 0.0049 | 0.0013 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Bromomethane | ND | | 0.019 | 0.0064 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00097 | 0.00033 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00097 | 0.00034 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Carbon disulfide | ND | | 0.0097 | 0.00039 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Carbon tetrachloride | ND | | 0.00097 | 0.00029 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Chlorobenzene | ND | | 0.00097 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Chloroethane | ND | | 0.0019 | 0.0015 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Chloroform | ND | | 0.00097 | 0.00057 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Chloromethane | ND | | 0.019 | 0.0015 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Dibromochloromethane | ND | | 0.0019 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Dibromomethane | ND | | 0.00097 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Dichlorodifluoromethane | ND | | 0.0019 | 0.00044 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| **Ethylbenzene** | **0.00024** | **J** | 0.00097 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Isopropylbenzene | ND | | 0.00097 | 0.00058 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Methylene Chloride | ND | | 0.0097 | 0.0030 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0019 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Naphthalene | ND | | 0.0097 | 0.0051 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| n-Butylbenzene | ND | | 0.00097 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| N-Propylbenzene | ND | | 0.0019 | 0.00058 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| o-Xylene | ND | | 0.00097 | 0.00058 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| m,p-Xylene | ND | | 0.0019 | 0.00046 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| p-Isopropyltoluene | ND | | 0.00097 | 0.00068 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| sec-Butylbenzene | ND | | 0.00097 | 0.00058 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Styrene | ND | | 0.00097 | 0.00068 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00097 | 0.00029 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0019 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| tert-Butylbenzene | ND | | 0.00097 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Tetrachloroethene | ND | | 0.00097 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| **Toluene** | **0.0015** | | 0.00097 | 0.00058 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Trichloroethene | ND | | 0.0019 | 0.00038 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Trichlorofluoromethane | ND | | 0.0097 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Vinyl acetate | ND | | 0.0097 | 0.0038 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |
| Vinyl chloride | ND | | 0.00097 | 0.00037 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *116* | | *80 - 142* | *04/19/21 12:03* | *04/21/21 13:19* | *1* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *80 - 120* | *04/19/21 12:03* | *04/21/21 13:19* | *1* |
| *Dibromofluoromethane (Surr)* | *106* | | *80 - 123* | *04/19/21 12:03* | *04/21/21 13:19* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* | *04/19/21 12:03* | *04/21/21 13:19* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: SVP-2-6.5**
**Date Collected: 04/14/21 10:00**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-15**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00079 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00079 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0016 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0079 | 0.00036 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00079 | 0.00036 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 1,1-Dichloroethane | ND | | 0.00079 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 1,1-Dichloroethene | ND | | 0.00079 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 1,1-Dichloropropene | ND | | 0.0016 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0016 | 0.00079 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0016 | 0.00033 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0016 | 0.00032 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0016 | 0.00047 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0079 | 0.0053 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 1,2-Dibromoethane | ND | | 0.00079 | 0.00016 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00079 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 1,2-Dichloroethane | ND | | 0.00079 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 1,2-Dichloropropane | ND | | 0.00079 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0016 | 0.00047 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00079 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 1,3-Dichloropropane | ND | | 0.00079 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00079 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 2,2-Dichloropropane | ND | | 0.0039 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 2-Butanone | ND | | 0.016 | 0.0035 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 2-Chlorotoluene | ND | | 0.00079 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 2-Hexanone | ND | | 0.016 | 0.0024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 4-Chlorotoluene | ND | | 0.00079 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.016 | 0.0023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| **Acetone** | **0.062** | | 0.016 | 0.0077 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Benzene | ND | | 0.00079 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Bromobenzene | ND | | 0.00079 | 0.00016 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Bromochloromethane | ND | | 0.0016 | 0.00035 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Bromodichloromethane | ND | | 0.00079 | 0.00013 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Bromoform | ND | | 0.0039 | 0.0010 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Bromomethane | ND | | 0.016 | 0.0052 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00079 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00079 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Carbon disulfide | ND | | 0.0079 | 0.00031 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Carbon tetrachloride | ND | | 0.00079 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Chlorobenzene | ND | | 0.00079 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Chloroethane | ND | | 0.0016 | 0.0012 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Chloroform | ND | | 0.00079 | 0.00046 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Chloromethane | ND | | 0.016 | 0.0012 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Dibromochloromethane | ND | | 0.0016 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Dibromomethane | ND | | 0.00079 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Dichlorodifluoromethane | ND | | 0.0016 | 0.00036 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Ethylbenzene | ND | | 0.00079 | 0.00016 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Isopropylbenzene | ND | | 0.00079 | 0.00047 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Methylene Chloride | ND | | 0.0079 | 0.0025 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0016 | 0.00015 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SVP-2-6.5**
**Date Collected: 04/14/21 10:00**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-15**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0079 | 0.0041 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| n-Butylbenzene | ND | | 0.00079 | 0.00017 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| N-Propylbenzene | ND | | 0.0016 | 0.00047 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| o-Xylene | ND | | 0.00079 | 0.00047 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| m,p-Xylene | ND | | 0.0016 | 0.00037 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| p-Isopropyltoluene | ND | | 0.00079 | 0.00055 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| sec-Butylbenzene | ND | | 0.00079 | 0.00047 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Styrene | ND | | 0.00079 | 0.00055 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00079 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0016 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| tert-Butylbenzene | ND | | 0.00079 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Tetrachloroethene | ND | | 0.00079 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Toluene | ND | | 0.00079 | 0.00047 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Trichloroethene | ND | | 0.0016 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Trichlorofluoromethane | ND | | 0.0079 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Vinyl acetate | ND | | 0.0079 | 0.0031 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |
| Vinyl chloride | ND | | 0.00079 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/21/21 13:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *122* | | *80 - 142* | *04/19/21 12:03* | *04/21/21 13:46* | *1* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *80 - 120* | *04/19/21 12:03* | *04/21/21 13:46* | *1* |
| *Dibromofluoromethane (Surr)* | *109* | | *80 - 123* | *04/19/21 12:03* | *04/21/21 13:46* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/19/21 12:03* | *04/21/21 13:46* | *1* |

**Client Sample ID: TW-1-50.0**
**Date Collected: 04/14/21 11:00**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-31**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00078 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00078 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0016 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0078 | 0.00036 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00078 | 0.00036 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 1,1-Dichloroethane | ND | | 0.00078 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 1,1-Dichloroethene | ND | | 0.00078 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 1,1-Dichloropropene | ND | | 0.0016 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0016 | 0.00078 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0016 | 0.00033 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0016 | 0.00032 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0016 | 0.00047 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0078 | 0.0053 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 1,2-Dibromoethane | ND | | 0.00078 | 0.00016 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00078 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 1,2-Dichloroethane | ND | | 0.00078 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 1,2-Dichloropropane | ND | | 0.00078 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0016 | 0.00047 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00078 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 1,3-Dichloropropane | ND | | 0.00078 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00078 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 2,2-Dichloropropane | ND | | 0.0039 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-1-50.0**
**Date Collected: 04/14/21 11:00**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-31**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | ND | | 0.016 | 0.0035 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 2-Chlorotoluene | ND | | 0.00078 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 2-Hexanone | ND | | 0.016 | 0.0024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 4-Chlorotoluene | ND | | 0.00078 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.016 | 0.0023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| **Acetone** | **0.034** | | 0.016 | 0.0077 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Benzene | ND | | 0.00078 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Bromobenzene | ND | | 0.00078 | 0.00016 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Bromochloromethane | ND | | 0.0016 | 0.00035 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Bromodichloromethane | ND | | 0.00078 | 0.00012 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Bromoform | ND | | 0.0039 | 0.0010 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Bromomethane | ND | | 0.016 | 0.0052 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00078 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00078 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Carbon disulfide | ND | | 0.0078 | 0.00031 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Carbon tetrachloride | ND | | 0.00078 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Chlorobenzene | ND | | 0.00078 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Chloroethane | ND | | 0.0016 | 0.0012 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Chloroform | ND | | 0.00078 | 0.00046 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Chloromethane | ND | | 0.016 | 0.0012 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Dibromochloromethane | ND | | 0.0016 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Dibromomethane | ND | | 0.00078 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Dichlorodifluoromethane | ND | | 0.0016 | 0.00036 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Ethylbenzene | ND | | 0.00078 | 0.00016 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Isopropylbenzene | ND | | 0.00078 | 0.00047 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Methylene Chloride | ND | | 0.0078 | 0.0024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0016 | 0.00015 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Naphthalene | ND | | 0.0078 | 0.0041 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| n-Butylbenzene | ND | | 0.00078 | 0.00016 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| N-Propylbenzene | ND | | 0.0016 | 0.00047 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| o-Xylene | ND | | 0.00078 | 0.00047 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| m,p-Xylene | ND | | 0.0016 | 0.00037 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| p-Isopropyltoluene | ND | | 0.00078 | 0.00055 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| sec-Butylbenzene | ND | | 0.00078 | 0.00047 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Styrene | ND | | 0.00078 | 0.00055 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00078 | 0.00024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0016 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| tert-Butylbenzene | ND | | 0.00078 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Tetrachloroethene | ND | | 0.00078 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| **Toluene** | **0.00078** | | 0.00078 | 0.00047 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Trichloroethene | ND | | 0.0016 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Trichlorofluoromethane | ND | | 0.0078 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Vinyl acetate | ND | | 0.0078 | 0.0031 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |
| Vinyl chloride | ND | | 0.00078 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *130* | | *80 - 142* | *04/19/21 12:03* | *04/21/21 14:15* | *1* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *80 - 120* | *04/19/21 12:03* | *04/21/21 14:15* | *1* |
| *Dibromofluoromethane (Surr)* | *115* | | *80 - 123* | *04/19/21 12:03* | *04/21/21 14:15* | *1* |
| *Toluene-d8 (Surr)* | *103* | | *80 - 120* | *04/19/21 12:03* | *04/21/21 14:15* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: TW-1-60.0**
**Date Collected: 04/14/21 11:30**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-32**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00076 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00076 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0015 | 0.00042 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0076 | 0.00035 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00076 | 0.00035 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 1,1-Dichloroethane | ND | | 0.00076 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 1,1-Dichloroethene | ND | | 0.00076 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 1,1-Dichloropropene | ND | | 0.0015 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0015 | 0.00076 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0015 | 0.00032 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0015 | 0.00031 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0015 | 0.00046 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0076 | 0.0052 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 1,2-Dibromoethane | ND | | 0.00076 | 0.00016 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00076 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 1,2-Dichloroethane | ND | | 0.00076 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 1,2-Dichloropropane | ND | | 0.00076 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0015 | 0.00046 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00076 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 1,3-Dichloropropane | ND | | 0.00076 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00076 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 2,2-Dichloropropane | ND | | 0.0038 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 2-Butanone | ND | | 0.015 | 0.0034 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 2-Chlorotoluene | ND | | 0.00076 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 2-Hexanone | ND | | 0.015 | 0.0023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 4-Chlorotoluene | ND | | 0.00076 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.015 | 0.0022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| **Acetone** | **0.025** | | 0.015 | 0.0075 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Benzene | ND | | 0.00076 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Bromobenzene | ND | | 0.00076 | 0.00016 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Bromochloromethane | ND | | 0.0015 | 0.00034 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Bromodichloromethane | ND | | 0.00076 | 0.00012 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Bromoform | ND | | 0.0038 | 0.0010 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Bromomethane | ND | | 0.015 | 0.0050 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00076 | 0.00026 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00076 | 0.00027 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Carbon disulfide | ND | | 0.0076 | 0.00031 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Carbon tetrachloride | ND | | 0.00076 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Chlorobenzene | ND | | 0.00076 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Chloroethane | ND | | 0.0015 | 0.0011 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Chloroform | ND | | 0.00076 | 0.00045 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Chloromethane | ND | | 0.015 | 0.0012 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Dibromochloromethane | ND | | 0.0015 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Dibromomethane | ND | | 0.00076 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Dichlorodifluoromethane | ND | | 0.0015 | 0.00035 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Ethylbenzene | ND | | 0.00076 | 0.00016 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Isopropylbenzene | ND | | 0.00076 | 0.00046 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Methylene Chloride | ND | | 0.0076 | 0.0024 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0015 | 0.00014 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-1-60.0**
**Date Collected: 04/14/21 11:30**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-32**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0076 | 0.0040 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| n-Butylbenzene | ND | | 0.00076 | 0.00016 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| N-Propylbenzene | ND | | 0.0015 | 0.00046 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| o-Xylene | ND | | 0.00076 | 0.00046 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| m,p-Xylene | ND | | 0.0015 | 0.00036 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| p-Isopropyltoluene | ND | | 0.00076 | 0.00053 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| sec-Butylbenzene | ND | | 0.00076 | 0.00046 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Styrene | ND | | 0.00076 | 0.00053 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00076 | 0.00023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0015 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| tert-Butylbenzene | ND | | 0.00076 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Tetrachloroethene | ND | | 0.00076 | 0.00017 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Toluene | ND | | 0.00076 | 0.00046 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Trichloroethene | ND | | 0.0015 | 0.00029 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Trichlorofluoromethane | ND | | 0.0076 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Vinyl acetate | ND | | 0.0076 | 0.0030 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |
| Vinyl chloride | ND | | 0.00076 | 0.00029 | mg/Kg | | 04/19/21 12:03 | 04/21/21 14:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *133* | | *80 - 142* | *04/19/21 12:03* | *04/21/21 14:53* | *1* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *80 - 120* | *04/19/21 12:03* | *04/21/21 14:53* | *1* |
| *Dibromofluoromethane (Surr)* | *113* | | *80 - 123* | *04/19/21 12:03* | *04/21/21 14:53* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *04/19/21 12:03* | *04/21/21 14:53* | *1* |

**Client Sample ID: G-27-C-10.0**
**Date Collected: 04/15/21 13:30**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-42**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 4.0 | 1.2 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 1,1,1-Trichloroethane | ND | | 4.0 | 0.94 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 1,1,2,2-Tetrachloroethane | ND | | 8.1 | 2.2 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 40 | 1.9 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 1,1,2-Trichloroethane | ND | | 4.0 | 1.9 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 1,1-Dichloroethane | ND | | 4.0 | 1.1 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 1,1-Dichloroethene | ND | | 4.0 | 1.1 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 1,1-Dichloropropene | ND | | 8.1 | 1.6 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 1,2,3-Trichlorobenzene | ND | | 8.1 | 4.0 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 1,2,3-Trichloropropane | ND | | 8.1 | 1.7 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 1,2,4-Trichlorobenzene | ND | | 8.1 | 1.7 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| **1,2,4-Trimethylbenzene** | **96** | | 8.1 | 2.4 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 1,2-Dibromo-3-Chloropropane | ND | | 40 | 27 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 1,2-Dibromoethane | ND | | 4.0 | 0.83 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 1,2-Dichlorobenzene | ND | | 4.0 | 1.0 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 1,2-Dichloroethane | ND | | 4.0 | 1.1 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 1,2-Dichloropropane | ND | | 4.0 | 1.1 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| **1,3,5-Trimethylbenzene** | **29** | | 8.1 | 2.4 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 1,3-Dichlorobenzene | ND | | 4.0 | 1.0 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 1,3-Dichloropropane | ND | | 4.0 | 1.2 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 1,4-Dichlorobenzene | ND | | 4.0 | 1.2 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 2,2-Dichloropropane | ND | | 20 | 1.1 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: G-27-C-10.0**
**Date Collected: 04/15/21 13:30**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-42**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | ND | | 81 | 18 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 2-Chlorotoluene | ND | | 4.0 | 1.0 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 2-Hexanone | ND | | 81 | 12 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 4-Chlorotoluene | ND | | 4.0 | 0.98 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| 4-Methyl-2-pentanone | ND | | 81 | 12 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Acetone | ND | | 81 | 40 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| **Benzene** | **1.5** | **J** | 4.0 | 1.0 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Bromobenzene | ND | | 4.0 | 0.84 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Bromochloromethane | ND | | 8.1 | 1.8 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Bromodichloromethane | ND | | 4.0 | 0.64 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Bromoform | ND | | 20 | 5.3 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Bromomethane | ND | | 81 | 27 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| cis-1,2-Dichloroethene | ND | | 4.0 | 1.4 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| cis-1,3-Dichloropropene | ND | | 4.0 | 1.4 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Carbon disulfide | ND | | 40 | 1.6 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Carbon tetrachloride | ND | | 4.0 | 1.2 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Chlorobenzene | ND | | 4.0 | 1.1 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Chloroethane | ND | | 8.1 | 6.1 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Chloroform | ND | | 4.0 | 2.4 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Chloromethane | ND | | 81 | 6.2 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Dibromochloromethane | ND | | 8.1 | 1.1 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Dibromomethane | ND | | 4.0 | 1.2 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Dichlorodifluoromethane | ND | | 8.1 | 1.8 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| **Ethylbenzene** | **67** | | 4.0 | 0.83 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| **Isopropylbenzene** | **3.6** | **J** | 4.0 | 2.4 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Methylene Chloride | ND | | 40 | 13 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 8.1 | 0.76 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Naphthalene | ND | | 40 | 21 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| **n-Butylbenzene** | **6.8** | | 4.0 | 0.85 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| **N-Propylbenzene** | **12** | | 8.1 | 2.4 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| **o-Xylene** | **65** | | 4.0 | 2.4 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| **m,p-Xylene** | **210** | | 8.1 | 1.9 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| p-Isopropyltoluene | ND | | 4.0 | 2.8 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| sec-Butylbenzene | ND | | 4.0 | 2.4 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Styrene | ND | | 4.0 | 2.8 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| trans-1,2-Dichloroethene | ND | | 4.0 | 1.2 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| trans-1,3-Dichloropropene | ND | | 8.1 | 1.1 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| tert-Butylbenzene | ND | | 4.0 | 1.0 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Tetrachloroethene | ND | | 4.0 | 0.90 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| **Toluene** | **94** | | 4.0 | 2.4 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Trichloroethene | ND | | 8.1 | 1.6 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Trichlorofluoromethane | ND | | 40 | 1.1 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Vinyl acetate | ND | *+ | 40 | 16 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |
| Vinyl chloride | ND | | 4.0 | 1.5 | mg/Kg | | 04/19/21 12:01 | 04/21/21 19:33 | 5000 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *80 - 142* | *04/19/21 12:01* | *04/21/21 19:33* | *5000* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *80 - 120* | *04/19/21 12:01* | *04/21/21 19:33* | *5000* |
| *Dibromofluoromethane (Surr)* | *98* | | *80 - 123* | *04/19/21 12:01* | *04/21/21 19:33* | *5000* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | *04/19/21 12:01* | *04/21/21 19:33* | *5000* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: G-27-C-15.0**
**Date Collected: 04/15/21 13:40**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-43**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00073 | 0.00021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.00073 | 0.00017 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0015 | 0.00040 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.0073 | 0.00034 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.00073 | 0.00034 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 1,1-Dichloroethane | ND | | 0.00073 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 1,1-Dichloroethene | ND | | 0.00073 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 1,1-Dichloropropene | ND | | 0.0015 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0015 | 0.00073 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0015 | 0.00031 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0015 | 0.00030 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| **1,2,4-Trimethylbenzene** | **0.0017** | | 0.0015 | 0.00044 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0073 | 0.0049 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 1,2-Dibromoethane | ND | | 0.00073 | 0.00015 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.00073 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 1,2-Dichloroethane | ND | | 0.00073 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 1,2-Dichloropropane | ND | | 0.00073 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| **1,3,5-Trimethylbenzene** | **0.00063** | **J** | 0.0015 | 0.00044 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.00073 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 1,3-Dichloropropane | ND | | 0.00073 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.00073 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 2,2-Dichloropropane | ND | | 0.0037 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 2-Butanone | ND | | 0.015 | 0.0033 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 2-Chlorotoluene | ND | | 0.00073 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 2-Hexanone | ND | | 0.015 | 0.0022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 4-Chlorotoluene | ND | | 0.00073 | 0.00018 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.015 | 0.0021 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| **Acetone** | **0.017** | | 0.015 | 0.0072 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| **Benzene** | **0.00032** | **J** | 0.00073 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Bromobenzene | ND | | 0.00073 | 0.00015 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Bromochloromethane | ND | | 0.0015 | 0.00032 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Bromodichloromethane | ND | | 0.00073 | 0.00012 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Bromoform | ND | | 0.0037 | 0.00097 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Bromomethane | ND | | 0.015 | 0.0048 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.00073 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.00073 | 0.00025 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Carbon disulfide | ND | | 0.0073 | 0.00029 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Carbon tetrachloride | ND | | 0.00073 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Chlorobenzene | ND | | 0.00073 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Chloroethane | ND | | 0.0015 | 0.0011 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Chloroform | ND | | 0.00073 | 0.00043 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Chloromethane | ND | | 0.015 | 0.0011 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Dibromochloromethane | ND | | 0.0015 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Dibromomethane | ND | | 0.00073 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Dichlorodifluoromethane | ND | | 0.0015 | 0.00033 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| **Ethylbenzene** | **0.0010** | | 0.00073 | 0.00015 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Isopropylbenzene | ND | | 0.00073 | 0.00044 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Methylene Chloride | ND | | 0.0073 | 0.0023 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0015 | 0.00014 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: G-27-C-15.0**
**Date Collected: 04/15/21 13:40**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-43**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0073 | 0.0038 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| **n-Butylbenzene** | **0.00023** | **J** | 0.00073 | 0.00015 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| N-Propylbenzene | ND | | 0.0015 | 0.00044 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| **o-Xylene** | **0.00073** | | 0.00073 | 0.00044 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| **m,p-Xylene** | **0.0020** | | 0.0015 | 0.00035 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| p-Isopropyltoluene | ND | | 0.00073 | 0.00051 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| sec-Butylbenzene | ND | | 0.00073 | 0.00044 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Styrene | ND | | 0.00073 | 0.00051 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.00073 | 0.00022 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0015 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| tert-Butylbenzene | ND | | 0.00073 | 0.00019 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Tetrachloroethene | ND | | 0.00073 | 0.00016 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| **Toluene** | **0.00093** | | 0.00073 | 0.00044 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Trichloroethene | ND | | 0.0015 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Trichlorofluoromethane | ND | | 0.0073 | 0.00020 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Vinyl acetate | ND | | 0.0073 | 0.0029 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |
| Vinyl chloride | ND | | 0.00073 | 0.00028 | mg/Kg | | 04/19/21 12:03 | 04/21/21 15:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *128* | | *80 - 142* | *04/19/21 12:03* | *04/21/21 15:27* | *1* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *80 - 120* | *04/19/21 12:03* | *04/21/21 15:27* | *1* |
| *Dibromofluoromethane (Surr)* | *111* | | *80 - 123* | *04/19/21 12:03* | *04/21/21 15:27* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* | *04/19/21 12:03* | *04/21/21 15:27* | *1* |

**Client Sample ID: TW-1-GW**
**Date Collected: 04/15/21 15:30**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-53**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.26 | ug/L | | | 04/23/21 01:18 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 01:18 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.19 | ug/L | | | 04/23/21 01:18 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/23/21 01:18 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | 0.085 | ug/L | | | 04/23/21 01:18 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | 0.35 | ug/L | | | 04/23/21 01:18 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | 0.39 | ug/L | | | 04/23/21 01:18 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | 0.24 | ug/L | | | 04/23/21 01:18 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 01:18 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | 0.32 | ug/L | | | 04/23/21 01:18 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | 0.38 | ug/L | | | 04/23/21 01:18 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 01:18 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.64 | ug/L | | | 04/23/21 01:18 | 1 |
| 1,2-Dibromoethane | ND | | 0.50 | 0.14 | ug/L | | | 04/23/21 01:18 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 0.23 | ug/L | | | 04/23/21 01:18 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | 0.15 | ug/L | | | 04/23/21 01:18 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | 0.24 | ug/L | | | 04/23/21 01:18 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 01:18 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 0.26 | ug/L | | | 04/23/21 01:18 | 1 |
| 1,3-Dichloropropane | ND | | 0.50 | 0.20 | ug/L | | | 04/23/21 01:18 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 0.22 | ug/L | | | 04/23/21 01:18 | 1 |
| 2,2-Dichloropropane | ND | | 0.50 | 0.40 | ug/L | | | 04/23/21 01:18 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-1-GW**
**Date Collected: 04/15/21 15:30**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-53**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **2-Butanone** | **6.7** | | 5.0 | 3.0 | ug/L | | | 04/23/21 01:18 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | 0.31 | ug/L | | | 04/23/21 01:18 | 1 |
| 2-Hexanone | ND | | 6.0 | 4.3 | ug/L | | | 04/23/21 01:18 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | 0.34 | ug/L | | | 04/23/21 01:18 | 1 |
| 4-Methyl-2-pentanone | ND | | 5.0 | 2.2 | ug/L | | | 04/23/21 01:18 | 1 |
| Acetone | ND | | 8.0 | 4.0 | ug/L | | | 04/23/21 01:18 | 1 |
| Benzene | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 01:18 | 1 |
| Bromobenzene | ND | | 0.50 | 0.26 | ug/L | | | 04/23/21 01:18 | 1 |
| Bromochloromethane | ND | | 1.0 | 0.35 | ug/L | | | 04/23/21 01:18 | 1 |
| Bromodichloromethane | ND | | 0.50 | 0.22 | ug/L | | | 04/23/21 01:18 | 1 |
| Bromoform | ND | | 0.50 | 0.39 | ug/L | | | 04/23/21 01:18 | 1 |
| Bromomethane | ND | | 1.0 | 0.93 | ug/L | | | 04/23/21 01:18 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 0.30 | ug/L | | | 04/23/21 01:18 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.19 | ug/L | | | 04/23/21 01:18 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.24 | ug/L | | | 04/23/21 01:18 | 1 |
| Carbon tetrachloride | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 01:18 | 1 |
| Chlorobenzene | ND | | 0.50 | 0.24 | ug/L | | | 04/23/21 01:18 | 1 |
| Chloroethane | ND | | 0.50 | 0.44 | ug/L | | | 04/23/21 01:18 | 1 |
| Chloroform | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 01:18 | 1 |
| Chloromethane | ND | | 1.0 | 0.29 | ug/L | | | 04/23/21 01:18 | 1 |
| Dibromochloromethane | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 01:18 | 1 |
| Dibromomethane | ND | | 0.50 | 0.23 | ug/L | | | 04/23/21 01:18 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 04/23/21 01:18 | 1 |
| Di-isopropyl ether (DIPE) | ND | | 0.50 | 0.14 | ug/L | | | 04/23/21 01:18 | 1 |
| **Ethanol** | **120** | | 50 | 38 | ug/L | | | 04/23/21 01:18 | 1 |
| Ethylbenzene | ND | | 0.50 | 0.36 | ug/L | | | 04/23/21 01:18 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 01:18 | 1 |
| Isopropylbenzene | ND | | 0.50 | 0.38 | ug/L | | | 04/23/21 01:18 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.48 | ug/L | | | 04/23/21 01:18 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | 0.21 | ug/L | | | 04/23/21 01:18 | 1 |
| Naphthalene | ND | | 1.0 | 0.32 | ug/L | | | 04/23/21 01:18 | 1 |
| n-Butylbenzene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 01:18 | 1 |
| N-Propylbenzene | ND | | 0.50 | 0.39 | ug/L | | | 04/23/21 01:18 | 1 |
| o-Xylene | ND | | 0.50 | 0.35 | ug/L | | | 04/23/21 01:18 | 1 |
| m,p-Xylene | ND | | 1.0 | 0.78 | ug/L | | | 04/23/21 01:18 | 1 |
| p-Isopropyltoluene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 01:18 | 1 |
| sec-Butylbenzene | ND | | 0.50 | 0.34 | ug/L | | | 04/23/21 01:18 | 1 |
| Styrene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 01:18 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 0.36 | ug/L | | | 04/23/21 01:18 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | 0.17 | ug/L | | | 04/23/21 01:18 | 1 |
| Tert-amyl-methyl ether (TAME) | ND | | 0.50 | 0.21 | ug/L | | | 04/23/21 01:18 | 1 |
| tert-Butyl alcohol (TBA) | ND | | 5.0 | 4.0 | ug/L | | | 04/23/21 01:18 | 1 |
| tert-Butylbenzene | ND | | 0.50 | 0.34 | ug/L | | | 04/23/21 01:18 | 1 |
| Tetrachloroethene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 01:18 | 1 |
| Toluene | ND | | 0.50 | 0.33 | ug/L | | | 04/23/21 01:18 | 1 |
| Trichloroethene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 01:18 | 1 |
| Trichlorofluoromethane | ND | | 0.50 | 0.30 | ug/L | | | 04/23/21 01:18 | 1 |
| Vinyl acetate | ND | | 5.0 | 3.1 | ug/L | | | 04/23/21 01:18 | 1 |
| Vinyl chloride | ND | | 0.50 | 0.40 | ug/L | | | 04/23/21 01:18 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 68 - 135 | | 04/23/21 01:18 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | | 71 - 120 | | 04/23/21 01:18 | 1 |
| Dibromofluoromethane (Surr) | 103 | | 80 - 120 | | 04/23/21 01:18 | 1 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 | | 04/23/21 01:18 | 1 |

**Client Sample ID: TW-2-GW**
**Date Collected: 04/14/21 15:45**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-54**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.51 | ug/L | | | 04/23/21 05:35 | 2 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.53 | ug/L | | | 04/23/21 05:35 | 2 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.39 | ug/L | | | 04/23/21 05:35 | 2 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.50 | ug/L | | | 04/23/21 05:35 | 2 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.17 | ug/L | | | 04/23/21 05:35 | 2 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.71 | ug/L | | | 04/23/21 05:35 | 2 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.78 | ug/L | | | 04/23/21 05:35 | 2 |
| 1,1-Dichloropropene | ND | | 1.0 | 0.48 | ug/L | | | 04/23/21 05:35 | 2 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | 0.55 | ug/L | | | 04/23/21 05:35 | 2 |
| 1,2,3-Trichloropropane | ND | | 1.0 | 0.64 | ug/L | | | 04/23/21 05:35 | 2 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 04/23/21 05:35 | 2 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.57 | ug/L | | | 04/23/21 05:35 | 2 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.0 | 1.3 | ug/L | | | 04/23/21 05:35 | 2 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.27 | ug/L | | | 04/23/21 05:35 | 2 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.46 | ug/L | | | 04/23/21 05:35 | 2 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.30 | ug/L | | | 04/23/21 05:35 | 2 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.48 | ug/L | | | 04/23/21 05:35 | 2 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.57 | ug/L | | | 04/23/21 05:35 | 2 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.51 | ug/L | | | 04/23/21 05:35 | 2 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.41 | ug/L | | | 04/23/21 05:35 | 2 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.45 | ug/L | | | 04/23/21 05:35 | 2 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.79 | ug/L | | | 04/23/21 05:35 | 2 |
| 2-Butanone | ND | | 10 | 6.1 | ug/L | | | 04/23/21 05:35 | 2 |
| 2-Chlorotoluene | ND | | 1.0 | 0.62 | ug/L | | | 04/23/21 05:35 | 2 |
| 2-Hexanone | ND | | 12 | 8.6 | ug/L | | | 04/23/21 05:35 | 2 |
| 4-Chlorotoluene | ND | | 1.0 | 0.67 | ug/L | | | 04/23/21 05:35 | 2 |
| 4-Methyl-2-pentanone | ND | | 10 | 4.5 | ug/L | | | 04/23/21 05:35 | 2 |
| Acetone | ND | | 16 | 8.0 | ug/L | | | 04/23/21 05:35 | 2 |
| Benzene | ND | | 1.0 | 0.53 | ug/L | | | 04/23/21 05:35 | 2 |
| Bromobenzene | ND | | 1.0 | 0.52 | ug/L | | | 04/23/21 05:35 | 2 |
| Bromochloromethane | ND | | 2.0 | 0.70 | ug/L | | | 04/23/21 05:35 | 2 |
| Bromodichloromethane | ND | | 1.0 | 0.45 | ug/L | | | 04/23/21 05:35 | 2 |
| Bromoform | ND | | 1.0 | 0.78 | ug/L | | | 04/23/21 05:35 | 2 |
| Bromomethane | ND | | 2.0 | 1.9 | ug/L | | | 04/23/21 05:35 | 2 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.60 | ug/L | | | 04/23/21 05:35 | 2 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.38 | ug/L | | | 04/23/21 05:35 | 2 |
| Carbon disulfide | ND | | 2.0 | 0.49 | ug/L | | | 04/23/21 05:35 | 2 |
| Carbon tetrachloride | ND | | 1.0 | 0.54 | ug/L | | | 04/23/21 05:35 | 2 |
| Chlorobenzene | ND | | 1.0 | 0.48 | ug/L | | | 04/23/21 05:35 | 2 |
| Chloroethane | ND | | 1.0 | 0.88 | ug/L | | | 04/23/21 05:35 | 2 |
| **Chloroform** | **0.60** | **J** | 1.0 | 0.57 | ug/L | | | 04/23/21 05:35 | 2 |
| Chloromethane | ND | | 2.0 | 0.59 | ug/L | | | 04/23/21 05:35 | 2 |
| Dibromochloromethane | ND | | 1.0 | 0.54 | ug/L | | | 04/23/21 05:35 | 2 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-2-GW**
**Date Collected: 04/14/21 15:45**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-54**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dibromomethane | ND | | 1.0 | 0.46 | ug/L | | | 04/23/21 05:35 | 2 |
| Dichlorodifluoromethane | ND | | 2.0 | 1.4 | ug/L | | | 04/23/21 05:35 | 2 |
| Di-isopropyl ether (DIPE) | ND | | 1.0 | 0.29 | ug/L | | | 04/23/21 05:35 | 2 |
| Ethanol | ND | | 100 | 76 | ug/L | | | 04/23/21 05:35 | 2 |
| Ethylbenzene | ND | | 1.0 | 0.71 | ug/L | | | 04/23/21 05:35 | 2 |
| Ethyl-t-butyl ether (ETBE) | ND | | 1.0 | 0.55 | ug/L | | | 04/23/21 05:35 | 2 |
| Isopropylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 04/23/21 05:35 | 2 |
| Methylene Chloride | ND | | 2.0 | 0.96 | ug/L | | | 04/23/21 05:35 | 2 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 1.0 | 0.41 | ug/L | | | 04/23/21 05:35 | 2 |
| Naphthalene | ND | | 2.0 | 0.64 | ug/L | | | 04/23/21 05:35 | 2 |
| n-Butylbenzene | ND | | 1.0 | 0.59 | ug/L | | | 04/23/21 05:35 | 2 |
| N-Propylbenzene | ND | | 1.0 | 0.78 | ug/L | | | 04/23/21 05:35 | 2 |
| o-Xylene | ND | | 1.0 | 0.70 | ug/L | | | 04/23/21 05:35 | 2 |
| m,p-Xylene | ND | | 2.0 | 1.6 | ug/L | | | 04/23/21 05:35 | 2 |
| p-Isopropyltoluene | ND | | 1.0 | 0.55 | ug/L | | | 04/23/21 05:35 | 2 |
| sec-Butylbenzene | ND | | 1.0 | 0.68 | ug/L | | | 04/23/21 05:35 | 2 |
| Styrene | ND | | 1.0 | 0.55 | ug/L | | | 04/23/21 05:35 | 2 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.72 | ug/L | | | 04/23/21 05:35 | 2 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.35 | ug/L | | | 04/23/21 05:35 | 2 |
| Tert-amyl-methyl ether (TAME) | ND | | 1.0 | 0.42 | ug/L | | | 04/23/21 05:35 | 2 |
| tert-Butyl alcohol (TBA) | ND | | 10 | 8.0 | ug/L | | | 04/23/21 05:35 | 2 |
| tert-Butylbenzene | ND | | 1.0 | 0.68 | ug/L | | | 04/23/21 05:35 | 2 |
| Tetrachloroethene | ND | | 1.0 | 0.58 | ug/L | | | 04/23/21 05:35 | 2 |
| Toluene | ND | | 1.0 | 0.66 | ug/L | | | 04/23/21 05:35 | 2 |
| Trichloroethene | ND | | 1.0 | 0.58 | ug/L | | | 04/23/21 05:35 | 2 |
| Trichlorofluoromethane | ND | | 1.0 | 0.59 | ug/L | | | 04/23/21 05:35 | 2 |
| Vinyl acetate | ND | | 10 | 6.3 | ug/L | | | 04/23/21 05:35 | 2 |
| Vinyl chloride | ND | | 1.0 | 0.80 | ug/L | | | 04/23/21 05:35 | 2 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *68 - 135* | | *04/23/21 05:35* | *2* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *71 - 120* | | *04/23/21 05:35* | *2* |
| *Dibromofluoromethane (Surr)* | *100* | | *80 - 120* | | *04/23/21 05:35* | *2* |
| *Toluene-d8 (Surr)* | *111* | | *80 - 120* | | *04/23/21 05:35* | *2* |

**Client Sample ID: TW-3-GW**
**Date Collected: 04/13/21 15:10**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-55**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.26 | ug/L | | | 04/23/21 01:44 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 01:44 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.19 | ug/L | | | 04/23/21 01:44 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/23/21 01:44 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | 0.085 | ug/L | | | 04/23/21 01:44 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | 0.35 | ug/L | | | 04/23/21 01:44 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | 0.39 | ug/L | | | 04/23/21 01:44 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | 0.24 | ug/L | | | 04/23/21 01:44 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 01:44 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | 0.32 | ug/L | | | 04/23/21 01:44 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | 0.38 | ug/L | | | 04/23/21 01:44 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-3-GW**
**Date Collected: 04/13/21 15:10**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-55**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 01:44 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.64 | ug/L | | | 04/23/21 01:44 | 1 |
| 1,2-Dibromoethane | ND | | 0.50 | 0.14 | ug/L | | | 04/23/21 01:44 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 0.23 | ug/L | | | 04/23/21 01:44 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | 0.15 | ug/L | | | 04/23/21 01:44 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | 0.24 | ug/L | | | 04/23/21 01:44 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 01:44 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 0.26 | ug/L | | | 04/23/21 01:44 | 1 |
| 1,3-Dichloropropane | ND | | 0.50 | 0.20 | ug/L | | | 04/23/21 01:44 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 0.22 | ug/L | | | 04/23/21 01:44 | 1 |
| 2,2-Dichloropropane | ND | | 0.50 | 0.40 | ug/L | | | 04/23/21 01:44 | 1 |
| **2-Butanone** | **5.9** | | 5.0 | 3.0 | ug/L | | | 04/23/21 01:44 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | 0.31 | ug/L | | | 04/23/21 01:44 | 1 |
| 2-Hexanone | ND | | 6.0 | 4.3 | ug/L | | | 04/23/21 01:44 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | 0.34 | ug/L | | | 04/23/21 01:44 | 1 |
| 4-Methyl-2-pentanone | ND | | 5.0 | 2.2 | ug/L | | | 04/23/21 01:44 | 1 |
| Acetone | ND | | 8.0 | 4.0 | ug/L | | | 04/23/21 01:44 | 1 |
| Benzene | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 01:44 | 1 |
| Bromobenzene | ND | | 0.50 | 0.26 | ug/L | | | 04/23/21 01:44 | 1 |
| Bromochloromethane | ND | | 1.0 | 0.35 | ug/L | | | 04/23/21 01:44 | 1 |
| Bromodichloromethane | ND | | 0.50 | 0.22 | ug/L | | | 04/23/21 01:44 | 1 |
| Bromoform | ND | | 0.50 | 0.39 | ug/L | | | 04/23/21 01:44 | 1 |
| Bromomethane | ND | | 1.0 | 0.93 | ug/L | | | 04/23/21 01:44 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 0.30 | ug/L | | | 04/23/21 01:44 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.19 | ug/L | | | 04/23/21 01:44 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.24 | ug/L | | | 04/23/21 01:44 | 1 |
| Carbon tetrachloride | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 01:44 | 1 |
| Chlorobenzene | ND | | 0.50 | 0.24 | ug/L | | | 04/23/21 01:44 | 1 |
| Chloroethane | ND | | 0.50 | 0.44 | ug/L | | | 04/23/21 01:44 | 1 |
| Chloroform | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 01:44 | 1 |
| Chloromethane | ND | | 1.0 | 0.29 | ug/L | | | 04/23/21 01:44 | 1 |
| Dibromochloromethane | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 01:44 | 1 |
| Dibromomethane | ND | | 0.50 | 0.23 | ug/L | | | 04/23/21 01:44 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 04/23/21 01:44 | 1 |
| Di-isopropyl ether (DIPE) | ND | | 0.50 | 0.14 | ug/L | | | 04/23/21 01:44 | 1 |
| Ethanol | ND | | 50 | 38 | ug/L | | | 04/23/21 01:44 | 1 |
| Ethylbenzene | ND | | 0.50 | 0.36 | ug/L | | | 04/23/21 01:44 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 01:44 | 1 |
| Isopropylbenzene | ND | | 0.50 | 0.38 | ug/L | | | 04/23/21 01:44 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.48 | ug/L | | | 04/23/21 01:44 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | 0.21 | ug/L | | | 04/23/21 01:44 | 1 |
| Naphthalene | ND | | 1.0 | 0.32 | ug/L | | | 04/23/21 01:44 | 1 |
| n-Butylbenzene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 01:44 | 1 |
| N-Propylbenzene | ND | | 0.50 | 0.39 | ug/L | | | 04/23/21 01:44 | 1 |
| o-Xylene | ND | | 0.50 | 0.35 | ug/L | | | 04/23/21 01:44 | 1 |
| m,p-Xylene | ND | | 1.0 | 0.78 | ug/L | | | 04/23/21 01:44 | 1 |
| p-Isopropyltoluene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 01:44 | 1 |
| sec-Butylbenzene | ND | | 0.50 | 0.34 | ug/L | | | 04/23/21 01:44 | 1 |
| Styrene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 01:44 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TW-3-GW**
**Date Collected: 04/13/21 15:10**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-55**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | ND | | 0.50 | 0.36 | ug/L | | | 04/23/21 01:44 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | 0.17 | ug/L | | | 04/23/21 01:44 | 1 |
| Tert-amyl-methyl ether (TAME) | ND | | 0.50 | 0.21 | ug/L | | | 04/23/21 01:44 | 1 |
| tert-Butyl alcohol (TBA) | ND | | 5.0 | 4.0 | ug/L | | | 04/23/21 01:44 | 1 |
| tert-Butylbenzene | ND | | 0.50 | 0.34 | ug/L | | | 04/23/21 01:44 | 1 |
| Tetrachloroethene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 01:44 | 1 |
| Toluene | ND | | 0.50 | 0.33 | ug/L | | | 04/23/21 01:44 | 1 |
| Trichloroethene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 01:44 | 1 |
| Trichlorofluoromethane | ND | | 0.50 | 0.30 | ug/L | | | 04/23/21 01:44 | 1 |
| Vinyl acetate | ND | | 5.0 | 3.1 | ug/L | | | 04/23/21 01:44 | 1 |
| Vinyl chloride | ND | | 0.50 | 0.40 | ug/L | | | 04/23/21 01:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *68 - 135* | | *04/23/21 01:44* | *1* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *71 - 120* | | *04/23/21 01:44* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *80 - 120* | | *04/23/21 01:44* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | | *04/23/21 01:44* | *1* |

**Client Sample ID: SB-1-GW**
**Date Collected: 04/15/21 10:50**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-56**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.26 | ug/L | | | 04/23/21 02:10 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 02:10 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.19 | ug/L | | | 04/23/21 02:10 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/23/21 02:10 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | 0.085 | ug/L | | | 04/23/21 02:10 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | 0.35 | ug/L | | | 04/23/21 02:10 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | 0.39 | ug/L | | | 04/23/21 02:10 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | 0.24 | ug/L | | | 04/23/21 02:10 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 02:10 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | 0.32 | ug/L | | | 04/23/21 02:10 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | 0.38 | ug/L | | | 04/23/21 02:10 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 02:10 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.64 | ug/L | | | 04/23/21 02:10 | 1 |
| 1,2-Dibromoethane | ND | | 0.50 | 0.14 | ug/L | | | 04/23/21 02:10 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 0.23 | ug/L | | | 04/23/21 02:10 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | 0.15 | ug/L | | | 04/23/21 02:10 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | 0.24 | ug/L | | | 04/23/21 02:10 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 02:10 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 0.26 | ug/L | | | 04/23/21 02:10 | 1 |
| 1,3-Dichloropropane | ND | | 0.50 | 0.20 | ug/L | | | 04/23/21 02:10 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 0.22 | ug/L | | | 04/23/21 02:10 | 1 |
| 2,2-Dichloropropane | ND | | 0.50 | 0.40 | ug/L | | | 04/23/21 02:10 | 1 |
| **2-Butanone** | **10** | | 5.0 | 3.0 | ug/L | | | 04/23/21 02:10 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | 0.31 | ug/L | | | 04/23/21 02:10 | 1 |
| 2-Hexanone | ND | | 6.0 | 4.3 | ug/L | | | 04/23/21 02:10 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | 0.34 | ug/L | | | 04/23/21 02:10 | 1 |
| 4-Methyl-2-pentanone | ND | | 5.0 | 2.2 | ug/L | | | 04/23/21 02:10 | 1 |
| **Acetone** | **13** | | 8.0 | 4.0 | ug/L | | | 04/23/21 02:10 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-1-GW**
**Date Collected: 04/15/21 10:50**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-56**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 02:10 | 1 |
| Bromobenzene | ND | | 0.50 | 0.26 | ug/L | | | 04/23/21 02:10 | 1 |
| Bromochloromethane | ND | | 1.0 | 0.35 | ug/L | | | 04/23/21 02:10 | 1 |
| Bromodichloromethane | ND | | 0.50 | 0.22 | ug/L | | | 04/23/21 02:10 | 1 |
| Bromoform | ND | | 0.50 | 0.39 | ug/L | | | 04/23/21 02:10 | 1 |
| Bromomethane | ND | | 1.0 | 0.93 | ug/L | | | 04/23/21 02:10 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 0.30 | ug/L | | | 04/23/21 02:10 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.19 | ug/L | | | 04/23/21 02:10 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.24 | ug/L | | | 04/23/21 02:10 | 1 |
| Carbon tetrachloride | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 02:10 | 1 |
| Chlorobenzene | ND | | 0.50 | 0.24 | ug/L | | | 04/23/21 02:10 | 1 |
| Chloroethane | ND | | 0.50 | 0.44 | ug/L | | | 04/23/21 02:10 | 1 |
| Chloroform | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 02:10 | 1 |
| Chloromethane | ND | | 1.0 | 0.29 | ug/L | | | 04/23/21 02:10 | 1 |
| Dibromochloromethane | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 02:10 | 1 |
| Dibromomethane | ND | | 0.50 | 0.23 | ug/L | | | 04/23/21 02:10 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 04/23/21 02:10 | 1 |
| Di-isopropyl ether (DIPE) | ND | | 0.50 | 0.14 | ug/L | | | 04/23/21 02:10 | 1 |
| **Ethanol** | **110** | | 50 | 38 | ug/L | | | 04/23/21 02:10 | 1 |
| Ethylbenzene | ND | | 0.50 | 0.36 | ug/L | | | 04/23/21 02:10 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 02:10 | 1 |
| Isopropylbenzene | ND | | 0.50 | 0.38 | ug/L | | | 04/23/21 02:10 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.48 | ug/L | | | 04/23/21 02:10 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | 0.21 | ug/L | | | 04/23/21 02:10 | 1 |
| Naphthalene | ND | | 1.0 | 0.32 | ug/L | | | 04/23/21 02:10 | 1 |
| n-Butylbenzene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 02:10 | 1 |
| N-Propylbenzene | ND | | 0.50 | 0.39 | ug/L | | | 04/23/21 02:10 | 1 |
| o-Xylene | ND | | 0.50 | 0.35 | ug/L | | | 04/23/21 02:10 | 1 |
| m,p-Xylene | ND | | 1.0 | 0.78 | ug/L | | | 04/23/21 02:10 | 1 |
| p-Isopropyltoluene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 02:10 | 1 |
| sec-Butylbenzene | ND | | 0.50 | 0.34 | ug/L | | | 04/23/21 02:10 | 1 |
| Styrene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 02:10 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 0.36 | ug/L | | | 04/23/21 02:10 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | 0.17 | ug/L | | | 04/23/21 02:10 | 1 |
| Tert-amyl-methyl ether (TAME) | ND | | 0.50 | 0.21 | ug/L | | | 04/23/21 02:10 | 1 |
| tert-Butyl alcohol (TBA) | ND | | 5.0 | 4.0 | ug/L | | | 04/23/21 02:10 | 1 |
| tert-Butylbenzene | ND | | 0.50 | 0.34 | ug/L | | | 04/23/21 02:10 | 1 |
| Tetrachloroethene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 02:10 | 1 |
| Toluene | ND | | 0.50 | 0.33 | ug/L | | | 04/23/21 02:10 | 1 |
| Trichloroethene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 02:10 | 1 |
| Trichlorofluoromethane | ND | | 0.50 | 0.30 | ug/L | | | 04/23/21 02:10 | 1 |
| Vinyl acetate | ND | | 5.0 | 3.1 | ug/L | | | 04/23/21 02:10 | 1 |
| Vinyl chloride | ND | | 0.50 | 0.40 | ug/L | | | 04/23/21 02:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *68 - 135* | | *04/23/21 02:10* | *1* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *71 - 120* | | *04/23/21 02:10* | *1* |
| *Dibromofluoromethane (Surr)* | *103* | | *80 - 120* | | *04/23/21 02:10* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | | *04/23/21 02:10* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: SB-2-GW**
**Date Collected: 04/15/21 13:55**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-57**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.26 | ug/L | | | 04/23/21 02:35 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 02:35 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.19 | ug/L | | | 04/23/21 02:35 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/23/21 02:35 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | 0.085 | ug/L | | | 04/23/21 02:35 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | 0.35 | ug/L | | | 04/23/21 02:35 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | 0.39 | ug/L | | | 04/23/21 02:35 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | 0.24 | ug/L | | | 04/23/21 02:35 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 02:35 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | 0.32 | ug/L | | | 04/23/21 02:35 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | 0.38 | ug/L | | | 04/23/21 02:35 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 02:35 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.64 | ug/L | | | 04/23/21 02:35 | 1 |
| 1,2-Dibromoethane | ND | | 0.50 | 0.14 | ug/L | | | 04/23/21 02:35 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 0.23 | ug/L | | | 04/23/21 02:35 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | 0.15 | ug/L | | | 04/23/21 02:35 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | 0.24 | ug/L | | | 04/23/21 02:35 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 02:35 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 0.26 | ug/L | | | 04/23/21 02:35 | 1 |
| 1,3-Dichloropropane | ND | | 0.50 | 0.20 | ug/L | | | 04/23/21 02:35 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 0.22 | ug/L | | | 04/23/21 02:35 | 1 |
| 2,2-Dichloropropane | ND | | 0.50 | 0.40 | ug/L | | | 04/23/21 02:35 | 1 |
| **2-Butanone** | **7.0** | | 5.0 | 3.0 | ug/L | | | 04/23/21 02:35 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | 0.31 | ug/L | | | 04/23/21 02:35 | 1 |
| 2-Hexanone | ND | | 6.0 | 4.3 | ug/L | | | 04/23/21 02:35 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | 0.34 | ug/L | | | 04/23/21 02:35 | 1 |
| 4-Methyl-2-pentanone | ND | | 5.0 | 2.2 | ug/L | | | 04/23/21 02:35 | 1 |
| Acetone | ND | | 8.0 | 4.0 | ug/L | | | 04/23/21 02:35 | 1 |
| Benzene | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 02:35 | 1 |
| Bromobenzene | ND | | 0.50 | 0.26 | ug/L | | | 04/23/21 02:35 | 1 |
| Bromochloromethane | ND | | 1.0 | 0.35 | ug/L | | | 04/23/21 02:35 | 1 |
| Bromodichloromethane | ND | | 0.50 | 0.22 | ug/L | | | 04/23/21 02:35 | 1 |
| Bromoform | ND | | 0.50 | 0.39 | ug/L | | | 04/23/21 02:35 | 1 |
| Bromomethane | ND | | 1.0 | 0.93 | ug/L | | | 04/23/21 02:35 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 0.30 | ug/L | | | 04/23/21 02:35 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.19 | ug/L | | | 04/23/21 02:35 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.24 | ug/L | | | 04/23/21 02:35 | 1 |
| Carbon tetrachloride | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 02:35 | 1 |
| Chlorobenzene | ND | | 0.50 | 0.24 | ug/L | | | 04/23/21 02:35 | 1 |
| Chloroethane | ND | | 0.50 | 0.44 | ug/L | | | 04/23/21 02:35 | 1 |
| Chloroform | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 02:35 | 1 |
| Chloromethane | ND | | 1.0 | 0.29 | ug/L | | | 04/23/21 02:35 | 1 |
| Dibromochloromethane | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 02:35 | 1 |
| Dibromomethane | ND | | 0.50 | 0.23 | ug/L | | | 04/23/21 02:35 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 04/23/21 02:35 | 1 |
| Di-isopropyl ether (DIPE) | ND | | 0.50 | 0.14 | ug/L | | | 04/23/21 02:35 | 1 |
| **Ethanol** | **89** | | 50 | 38 | ug/L | | | 04/23/21 02:35 | 1 |
| Ethylbenzene | ND | | 0.50 | 0.36 | ug/L | | | 04/23/21 02:35 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 02:35 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-2-GW**
**Date Collected: 04/15/21 13:55**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-57**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | ND | | 0.50 | 0.38 | ug/L | | | 04/23/21 02:35 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.48 | ug/L | | | 04/23/21 02:35 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | 0.21 | ug/L | | | 04/23/21 02:35 | 1 |
| Naphthalene | ND | | 1.0 | 0.32 | ug/L | | | 04/23/21 02:35 | 1 |
| n-Butylbenzene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 02:35 | 1 |
| N-Propylbenzene | ND | | 0.50 | 0.39 | ug/L | | | 04/23/21 02:35 | 1 |
| o-Xylene | ND | | 0.50 | 0.35 | ug/L | | | 04/23/21 02:35 | 1 |
| m,p-Xylene | ND | | 1.0 | 0.78 | ug/L | | | 04/23/21 02:35 | 1 |
| p-Isopropyltoluene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 02:35 | 1 |
| sec-Butylbenzene | ND | | 0.50 | 0.34 | ug/L | | | 04/23/21 02:35 | 1 |
| Styrene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 02:35 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 0.36 | ug/L | | | 04/23/21 02:35 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | 0.17 | ug/L | | | 04/23/21 02:35 | 1 |
| Tert-amyl-methyl ether (TAME) | ND | | 0.50 | 0.21 | ug/L | | | 04/23/21 02:35 | 1 |
| tert-Butyl alcohol (TBA) | ND | | 5.0 | 4.0 | ug/L | | | 04/23/21 02:35 | 1 |
| tert-Butylbenzene | ND | | 0.50 | 0.34 | ug/L | | | 04/23/21 02:35 | 1 |
| Tetrachloroethene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 02:35 | 1 |
| Toluene | ND | | 0.50 | 0.33 | ug/L | | | 04/23/21 02:35 | 1 |
| Trichloroethene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 02:35 | 1 |
| Trichlorofluoromethane | ND | | 0.50 | 0.30 | ug/L | | | 04/23/21 02:35 | 1 |
| Vinyl acetate | ND | | 5.0 | 3.1 | ug/L | | | 04/23/21 02:35 | 1 |
| Vinyl chloride | ND | | 0.50 | 0.40 | ug/L | | | 04/23/21 02:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *94* | | *68 - 135* | | *04/23/21 02:35* | *1* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *71 - 120* | | *04/23/21 02:35* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *80 - 120* | | *04/23/21 02:35* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | | *04/23/21 02:35* | *1* |

**Client Sample ID: SB-3-GW**
**Date Collected: 04/15/21 15:40**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-58**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.26 | ug/L | | | 04/23/21 03:01 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 03:01 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.19 | ug/L | | | 04/23/21 03:01 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/23/21 03:01 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | 0.085 | ug/L | | | 04/23/21 03:01 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | 0.35 | ug/L | | | 04/23/21 03:01 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | 0.39 | ug/L | | | 04/23/21 03:01 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | 0.24 | ug/L | | | 04/23/21 03:01 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 03:01 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | 0.32 | ug/L | | | 04/23/21 03:01 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | 0.38 | ug/L | | | 04/23/21 03:01 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 03:01 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.64 | ug/L | | | 04/23/21 03:01 | 1 |
| 1,2-Dibromoethane | ND | | 0.50 | 0.14 | ug/L | | | 04/23/21 03:01 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 0.23 | ug/L | | | 04/23/21 03:01 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | 0.15 | ug/L | | | 04/23/21 03:01 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | 0.24 | ug/L | | | 04/23/21 03:01 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-3-GW**
**Date Collected: 04/15/21 15:40**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-58**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 03:01 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 0.26 | ug/L | | | 04/23/21 03:01 | 1 |
| 1,3-Dichloropropane | ND | | 0.50 | 0.20 | ug/L | | | 04/23/21 03:01 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 0.22 | ug/L | | | 04/23/21 03:01 | 1 |
| 2,2-Dichloropropane | ND | | 0.50 | 0.40 | ug/L | | | 04/23/21 03:01 | 1 |
| **2-Butanone** | **31** | | 5.0 | 3.0 | ug/L | | | 04/23/21 03:01 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | 0.31 | ug/L | | | 04/23/21 03:01 | 1 |
| 2-Hexanone | ND | | 6.0 | 4.3 | ug/L | | | 04/23/21 03:01 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | 0.34 | ug/L | | | 04/23/21 03:01 | 1 |
| 4-Methyl-2-pentanone | ND | | 5.0 | 2.2 | ug/L | | | 04/23/21 03:01 | 1 |
| **Acetone** | **14** | | 8.0 | 4.0 | ug/L | | | 04/23/21 03:01 | 1 |
| Benzene | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 03:01 | 1 |
| Bromobenzene | ND | | 0.50 | 0.26 | ug/L | | | 04/23/21 03:01 | 1 |
| Bromochloromethane | ND | | 1.0 | 0.35 | ug/L | | | 04/23/21 03:01 | 1 |
| Bromodichloromethane | ND | | 0.50 | 0.22 | ug/L | | | 04/23/21 03:01 | 1 |
| Bromoform | ND | | 0.50 | 0.39 | ug/L | | | 04/23/21 03:01 | 1 |
| Bromomethane | ND | | 1.0 | 0.93 | ug/L | | | 04/23/21 03:01 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 0.30 | ug/L | | | 04/23/21 03:01 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.19 | ug/L | | | 04/23/21 03:01 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.24 | ug/L | | | 04/23/21 03:01 | 1 |
| Carbon tetrachloride | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 03:01 | 1 |
| Chlorobenzene | ND | | 0.50 | 0.24 | ug/L | | | 04/23/21 03:01 | 1 |
| Chloroethane | ND | | 0.50 | 0.44 | ug/L | | | 04/23/21 03:01 | 1 |
| Chloroform | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 03:01 | 1 |
| Chloromethane | ND | | 1.0 | 0.29 | ug/L | | | 04/23/21 03:01 | 1 |
| Dibromochloromethane | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 03:01 | 1 |
| Dibromomethane | ND | | 0.50 | 0.23 | ug/L | | | 04/23/21 03:01 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 04/23/21 03:01 | 1 |
| Di-isopropyl ether (DIPE) | ND | | 0.50 | 0.14 | ug/L | | | 04/23/21 03:01 | 1 |
| Ethanol | ND | | 50 | 38 | ug/L | | | 04/23/21 03:01 | 1 |
| Ethylbenzene | ND | | 0.50 | 0.36 | ug/L | | | 04/23/21 03:01 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 03:01 | 1 |
| Isopropylbenzene | ND | | 0.50 | 0.38 | ug/L | | | 04/23/21 03:01 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.48 | ug/L | | | 04/23/21 03:01 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | 0.21 | ug/L | | | 04/23/21 03:01 | 1 |
| Naphthalene | ND | | 1.0 | 0.32 | ug/L | | | 04/23/21 03:01 | 1 |
| n-Butylbenzene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 03:01 | 1 |
| N-Propylbenzene | ND | | 0.50 | 0.39 | ug/L | | | 04/23/21 03:01 | 1 |
| o-Xylene | ND | | 0.50 | 0.35 | ug/L | | | 04/23/21 03:01 | 1 |
| m,p-Xylene | ND | | 1.0 | 0.78 | ug/L | | | 04/23/21 03:01 | 1 |
| p-Isopropyltoluene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 03:01 | 1 |
| sec-Butylbenzene | ND | | 0.50 | 0.34 | ug/L | | | 04/23/21 03:01 | 1 |
| Styrene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 03:01 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 0.36 | ug/L | | | 04/23/21 03:01 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | 0.17 | ug/L | | | 04/23/21 03:01 | 1 |
| Tert-amyl-methyl ether (TAME) | ND | | 0.50 | 0.21 | ug/L | | | 04/23/21 03:01 | 1 |
| tert-Butyl alcohol (TBA) | ND | | 5.0 | 4.0 | ug/L | | | 04/23/21 03:01 | 1 |
| tert-Butylbenzene | ND | | 0.50 | 0.34 | ug/L | | | 04/23/21 03:01 | 1 |
| Tetrachloroethene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 03:01 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-3-GW**
**Date Collected: 04/15/21 15:40**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-58**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | | 0.50 | 0.33 | ug/L | | | 04/23/21 03:01 | 1 |
| Trichloroethene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 03:01 | 1 |
| Trichlorofluoromethane | ND | | 0.50 | 0.30 | ug/L | | | 04/23/21 03:01 | 1 |
| Vinyl acetate | ND | | 5.0 | 3.1 | ug/L | | | 04/23/21 03:01 | 1 |
| Vinyl chloride | ND | | 0.50 | 0.40 | ug/L | | | 04/23/21 03:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *68 - 135* | | *04/23/21 03:01* | *1* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *71 - 120* | | *04/23/21 03:01* | *1* |
| *Dibromofluoromethane (Surr)* | *99* | | *80 - 120* | | *04/23/21 03:01* | *1* |
| *Toluene-d8 (Surr)* | *103* | | *80 - 120* | | *04/23/21 03:01* | *1* |

**Client Sample ID: SB-4-GW**
**Date Collected: 04/15/21 15:45**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-59**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.26 | ug/L | | | 04/23/21 03:27 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 03:27 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.19 | ug/L | | | 04/23/21 03:27 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/23/21 03:27 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | 0.085 | ug/L | | | 04/23/21 03:27 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | 0.35 | ug/L | | | 04/23/21 03:27 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | 0.39 | ug/L | | | 04/23/21 03:27 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | 0.24 | ug/L | | | 04/23/21 03:27 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 03:27 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | 0.32 | ug/L | | | 04/23/21 03:27 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | 0.38 | ug/L | | | 04/23/21 03:27 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 03:27 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.64 | ug/L | | | 04/23/21 03:27 | 1 |
| 1,2-Dibromoethane | ND | | 0.50 | 0.14 | ug/L | | | 04/23/21 03:27 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 0.23 | ug/L | | | 04/23/21 03:27 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | 0.15 | ug/L | | | 04/23/21 03:27 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | 0.24 | ug/L | | | 04/23/21 03:27 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 03:27 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 0.26 | ug/L | | | 04/23/21 03:27 | 1 |
| 1,3-Dichloropropane | ND | | 0.50 | 0.20 | ug/L | | | 04/23/21 03:27 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 0.22 | ug/L | | | 04/23/21 03:27 | 1 |
| 2,2-Dichloropropane | ND | | 0.50 | 0.40 | ug/L | | | 04/23/21 03:27 | 1 |
| **2-Butanone** | **4.6** | **J** | 5.0 | 3.0 | ug/L | | | 04/23/21 03:27 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | 0.31 | ug/L | | | 04/23/21 03:27 | 1 |
| 2-Hexanone | ND | | 6.0 | 4.3 | ug/L | | | 04/23/21 03:27 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | 0.34 | ug/L | | | 04/23/21 03:27 | 1 |
| 4-Methyl-2-pentanone | ND | | 5.0 | 2.2 | ug/L | | | 04/23/21 03:27 | 1 |
| **Acetone** | **4.7** | **J** | 8.0 | 4.0 | ug/L | | | 04/23/21 03:27 | 1 |
| Benzene | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 03:27 | 1 |
| Bromobenzene | ND | | 0.50 | 0.26 | ug/L | | | 04/23/21 03:27 | 1 |
| Bromochloromethane | ND | | 1.0 | 0.35 | ug/L | | | 04/23/21 03:27 | 1 |
| Bromodichloromethane | ND | | 0.50 | 0.22 | ug/L | | | 04/23/21 03:27 | 1 |
| Bromoform | ND | | 0.50 | 0.39 | ug/L | | | 04/23/21 03:27 | 1 |
| Bromomethane | ND | | 1.0 | 0.93 | ug/L | | | 04/23/21 03:27 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-4-GW**
**Date Collected: 04/15/21 15:45**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-59**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ND | | 0.50 | 0.30 | ug/L | | | 04/23/21 03:27 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.19 | ug/L | | | 04/23/21 03:27 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.24 | ug/L | | | 04/23/21 03:27 | 1 |
| Carbon tetrachloride | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 03:27 | 1 |
| Chlorobenzene | ND | | 0.50 | 0.24 | ug/L | | | 04/23/21 03:27 | 1 |
| Chloroethane | ND | | 0.50 | 0.44 | ug/L | | | 04/23/21 03:27 | 1 |
| Chloroform | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 03:27 | 1 |
| Chloromethane | ND | | 1.0 | 0.29 | ug/L | | | 04/23/21 03:27 | 1 |
| Dibromochloromethane | ND | | 0.50 | 0.27 | ug/L | | | 04/23/21 03:27 | 1 |
| Dibromomethane | ND | | 0.50 | 0.23 | ug/L | | | 04/23/21 03:27 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 04/23/21 03:27 | 1 |
| Di-isopropyl ether (DIPE) | ND | | 0.50 | 0.14 | ug/L | | | 04/23/21 03:27 | 1 |
| Ethanol | ND | | 50 | 38 | ug/L | | | 04/23/21 03:27 | 1 |
| Ethylbenzene | ND | | 0.50 | 0.36 | ug/L | | | 04/23/21 03:27 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 03:27 | 1 |
| Isopropylbenzene | ND | | 0.50 | 0.38 | ug/L | | | 04/23/21 03:27 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.48 | ug/L | | | 04/23/21 03:27 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | 0.21 | ug/L | | | 04/23/21 03:27 | 1 |
| Naphthalene | ND | | 1.0 | 0.32 | ug/L | | | 04/23/21 03:27 | 1 |
| n-Butylbenzene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 03:27 | 1 |
| N-Propylbenzene | ND | | 0.50 | 0.39 | ug/L | | | 04/23/21 03:27 | 1 |
| o-Xylene | ND | | 0.50 | 0.35 | ug/L | | | 04/23/21 03:27 | 1 |
| m,p-Xylene | ND | | 1.0 | 0.78 | ug/L | | | 04/23/21 03:27 | 1 |
| p-Isopropyltoluene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 03:27 | 1 |
| sec-Butylbenzene | ND | | 0.50 | 0.34 | ug/L | | | 04/23/21 03:27 | 1 |
| Styrene | ND | | 0.50 | 0.28 | ug/L | | | 04/23/21 03:27 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 0.36 | ug/L | | | 04/23/21 03:27 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | 0.17 | ug/L | | | 04/23/21 03:27 | 1 |
| Tert-amyl-methyl ether (TAME) | ND | | 0.50 | 0.21 | ug/L | | | 04/23/21 03:27 | 1 |
| tert-Butyl alcohol (TBA) | ND | | 5.0 | 4.0 | ug/L | | | 04/23/21 03:27 | 1 |
| tert-Butylbenzene | ND | | 0.50 | 0.34 | ug/L | | | 04/23/21 03:27 | 1 |
| Tetrachloroethene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 03:27 | 1 |
| Toluene | ND | | 0.50 | 0.33 | ug/L | | | 04/23/21 03:27 | 1 |
| Trichloroethene | ND | | 0.50 | 0.29 | ug/L | | | 04/23/21 03:27 | 1 |
| Trichlorofluoromethane | ND | | 0.50 | 0.30 | ug/L | | | 04/23/21 03:27 | 1 |
| Vinyl acetate | ND | | 5.0 | 3.1 | ug/L | | | 04/23/21 03:27 | 1 |
| Vinyl chloride | ND | | 0.50 | 0.40 | ug/L | | | 04/23/21 03:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *94* | | *68 - 135* | | *04/23/21 03:27* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *71 - 120* | | *04/23/21 03:27* | *1* |
| *Dibromofluoromethane (Surr)* | *94* | | *80 - 120* | | *04/23/21 03:27* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* | | *04/23/21 03:27* | *1* |

**Client Sample ID: TB**
**Date Collected: 04/12/21 00:00**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-62**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.26 | ug/L | | | 04/22/21 22:19 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | 0.27 | ug/L | | | 04/22/21 22:19 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TB**
**Date Collected: 04/12/21 00:00**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-62**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.19 | ug/L | | | 04/22/21 22:19 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/22/21 22:19 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | 0.085 | ug/L | | | 04/22/21 22:19 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | 0.35 | ug/L | | | 04/22/21 22:19 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | 0.39 | ug/L | | | 04/22/21 22:19 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | 0.24 | ug/L | | | 04/22/21 22:19 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.28 | ug/L | | | 04/22/21 22:19 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | 0.32 | ug/L | | | 04/22/21 22:19 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | 0.38 | ug/L | | | 04/22/21 22:19 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.29 | ug/L | | | 04/22/21 22:19 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.64 | ug/L | | | 04/22/21 22:19 | 1 |
| 1,2-Dibromoethane | ND | | 0.50 | 0.14 | ug/L | | | 04/22/21 22:19 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 0.23 | ug/L | | | 04/22/21 22:19 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | 0.15 | ug/L | | | 04/22/21 22:19 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | 0.24 | ug/L | | | 04/22/21 22:19 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.28 | ug/L | | | 04/22/21 22:19 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 0.26 | ug/L | | | 04/22/21 22:19 | 1 |
| 1,3-Dichloropropane | ND | | 0.50 | 0.20 | ug/L | | | 04/22/21 22:19 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 0.22 | ug/L | | | 04/22/21 22:19 | 1 |
| 2,2-Dichloropropane | ND | | 0.50 | 0.40 | ug/L | | | 04/22/21 22:19 | 1 |
| 2-Butanone | ND | | 5.0 | 3.0 | ug/L | | | 04/22/21 22:19 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | 0.31 | ug/L | | | 04/22/21 22:19 | 1 |
| 2-Hexanone | ND | | 6.0 | 4.3 | ug/L | | | 04/22/21 22:19 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | 0.34 | ug/L | | | 04/22/21 22:19 | 1 |
| 4-Methyl-2-pentanone | ND | | 5.0 | 2.2 | ug/L | | | 04/22/21 22:19 | 1 |
| Acetone | ND | | 8.0 | 4.0 | ug/L | | | 04/22/21 22:19 | 1 |
| Benzene | ND | | 0.50 | 0.27 | ug/L | | | 04/22/21 22:19 | 1 |
| Bromobenzene | ND | | 0.50 | 0.26 | ug/L | | | 04/22/21 22:19 | 1 |
| Bromochloromethane | ND | | 1.0 | 0.35 | ug/L | | | 04/22/21 22:19 | 1 |
| Bromodichloromethane | ND | | 0.50 | 0.22 | ug/L | | | 04/22/21 22:19 | 1 |
| Bromoform | ND | | 0.50 | 0.39 | ug/L | | | 04/22/21 22:19 | 1 |
| Bromomethane | ND | | 1.0 | 0.93 | ug/L | | | 04/22/21 22:19 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 0.30 | ug/L | | | 04/22/21 22:19 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.19 | ug/L | | | 04/22/21 22:19 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.24 | ug/L | | | 04/22/21 22:19 | 1 |
| Carbon tetrachloride | ND | | 0.50 | 0.27 | ug/L | | | 04/22/21 22:19 | 1 |
| Chlorobenzene | ND | | 0.50 | 0.24 | ug/L | | | 04/22/21 22:19 | 1 |
| Chloroethane | ND | | 0.50 | 0.44 | ug/L | | | 04/22/21 22:19 | 1 |
| Chloroform | ND | | 0.50 | 0.28 | ug/L | | | 04/22/21 22:19 | 1 |
| Chloromethane | ND | | 1.0 | 0.29 | ug/L | | | 04/22/21 22:19 | 1 |
| Dibromochloromethane | ND | | 0.50 | 0.27 | ug/L | | | 04/22/21 22:19 | 1 |
| Dibromomethane | ND | | 0.50 | 0.23 | ug/L | | | 04/22/21 22:19 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 04/22/21 22:19 | 1 |
| Di-isopropyl ether (DIPE) | ND | | 0.50 | 0.14 | ug/L | | | 04/22/21 22:19 | 1 |
| Ethanol | ND | | 50 | 38 | ug/L | | | 04/22/21 22:19 | 1 |
| Ethylbenzene | ND | | 0.50 | 0.36 | ug/L | | | 04/22/21 22:19 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 0.50 | 0.28 | ug/L | | | 04/22/21 22:19 | 1 |
| Isopropylbenzene | ND | | 0.50 | 0.38 | ug/L | | | 04/22/21 22:19 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.48 | ug/L | | | 04/22/21 22:19 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TB**
**Date Collected: 04/12/21 00:00**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-62**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | 0.21 | ug/L | | | 04/22/21 22:19 | 1 |
| Naphthalene | ND | | 1.0 | 0.32 | ug/L | | | 04/22/21 22:19 | 1 |
| n-Butylbenzene | ND | | 0.50 | 0.29 | ug/L | | | 04/22/21 22:19 | 1 |
| N-Propylbenzene | ND | | 0.50 | 0.39 | ug/L | | | 04/22/21 22:19 | 1 |
| o-Xylene | ND | | 0.50 | 0.35 | ug/L | | | 04/22/21 22:19 | 1 |
| m,p-Xylene | ND | | 1.0 | 0.78 | ug/L | | | 04/22/21 22:19 | 1 |
| p-Isopropyltoluene | ND | | 0.50 | 0.28 | ug/L | | | 04/22/21 22:19 | 1 |
| sec-Butylbenzene | ND | | 0.50 | 0.34 | ug/L | | | 04/22/21 22:19 | 1 |
| Styrene | ND | | 0.50 | 0.28 | ug/L | | | 04/22/21 22:19 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 0.36 | ug/L | | | 04/22/21 22:19 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | 0.17 | ug/L | | | 04/22/21 22:19 | 1 |
| Tert-amyl-methyl ether (TAME) | ND | | 0.50 | 0.21 | ug/L | | | 04/22/21 22:19 | 1 |
| tert-Butyl alcohol (TBA) | ND | | 5.0 | 4.0 | ug/L | | | 04/22/21 22:19 | 1 |
| tert-Butylbenzene | ND | | 0.50 | 0.34 | ug/L | | | 04/22/21 22:19 | 1 |
| Tetrachloroethene | ND | | 0.50 | 0.29 | ug/L | | | 04/22/21 22:19 | 1 |
| Toluene | ND | | 0.50 | 0.33 | ug/L | | | 04/22/21 22:19 | 1 |
| Trichloroethene | ND | | 0.50 | 0.29 | ug/L | | | 04/22/21 22:19 | 1 |
| Trichlorofluoromethane | ND | | 0.50 | 0.30 | ug/L | | | 04/22/21 22:19 | 1 |
| Vinyl acetate | ND | | 5.0 | 3.1 | ug/L | | | 04/22/21 22:19 | 1 |
| Vinyl chloride | ND | | 0.50 | 0.40 | ug/L | | | 04/22/21 22:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *68 - 135* | | *04/22/21 22:19* | *1* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *71 - 120* | | *04/22/21 22:19* | *1* |
| *Dibromofluoromethane (Surr)* | *99* | | *80 - 120* | | *04/22/21 22:19* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | | *04/22/21 22:19* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Client Sample ID: SW-4/MW-14-C-5.0**
**Date Collected: 04/13/21 13:10**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:43 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:43 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:43 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:43 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:43 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.045 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:43 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:43 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:43 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:43 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:43 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:43 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:43 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:43 | 1 |
| Fluorene | ND | | 0.50 | 0.066 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:43 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:43 | 1 |
| Naphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:43 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:43 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/20/21 10:32 | 04/21/21 17:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *69* | | *10 - 134* | *04/20/21 10:32* | *04/21/21 17:43* | *1* |
| *2-Fluorobiphenyl (Surr)* | *70* | | *14 - 142* | *04/20/21 10:32* | *04/21/21 17:43* | *1* |
| *2-Fluorophenol (Surr)* | *62* | | *10 - 123* | *04/20/21 10:32* | *04/21/21 17:43* | *1* |
| *Nitrobenzene-d5 (Surr)* | *62* | | *10 - 129* | *04/20/21 10:32* | *04/21/21 17:43* | *1* |
| *Phenol-d6 (Surr)* | *60* | | *10 - 120* | *04/20/21 10:32* | *04/21/21 17:43* | *1* |
| *p-Terphenyl-d14 (Surr)* | *74* | | *31 - 139* | *04/20/21 10:32* | *04/21/21 17:43* | *1* |

**Client Sample ID: SVP-3-6.5**
**Date Collected: 04/13/21 14:10**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-4**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:02 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:02 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:02 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:02 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:02 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:02 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:02 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:02 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:02 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:02 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:02 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:02 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:02 | 1 |
| Fluorene | ND | | 0.50 | 0.066 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:02 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:02 | 1 |
| Naphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:02 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:02 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:02 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *80* | | *10 - 134* | *04/20/21 10:32* | *04/21/21 18:02* | *1* |
| *2-Fluorobiphenyl (Surr)* | *79* | | *14 - 142* | *04/20/21 10:32* | *04/21/21 18:02* | *1* |
| *2-Fluorophenol (Surr)* | *70* | | *10 - 123* | *04/20/21 10:32* | *04/21/21 18:02* | *1* |
| *Nitrobenzene-d5 (Surr)* | *70* | | *10 - 129* | *04/20/21 10:32* | *04/21/21 18:02* | *1* |
| *Phenol-d6 (Surr)* | *66* | | *10 - 120* | *04/20/21 10:32* | *04/21/21 18:02* | *1* |
| *p-Terphenyl-d14 (Surr)* | *80* | | *31 - 139* | *04/20/21 10:32* | *04/21/21 18:02* | *1* |

**Client Sample ID: SB-1-10.0**
**Date Collected: 04/13/21 15:55**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-5**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:21 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:21 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:21 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:21 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:21 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.045 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:21 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:21 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:21 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:21 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:21 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:21 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:21 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:21 | 1 |
| Fluorene | ND | | 0.50 | 0.066 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:21 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:21 | 1 |
| Naphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:21 | 1 |
| Phenanthrene | ND | | 0.50 | 0.060 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:21 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:21 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *90* | | *10 - 134* | *04/20/21 10:32* | *04/21/21 18:21* | *1* |
| *2-Fluorobiphenyl (Surr)* | *89* | | *14 - 142* | *04/20/21 10:32* | *04/21/21 18:21* | *1* |
| *2-Fluorophenol (Surr)* | *81* | | *10 - 123* | *04/20/21 10:32* | *04/21/21 18:21* | *1* |
| *Nitrobenzene-d5 (Surr)* | *77* | | *10 - 129* | *04/20/21 10:32* | *04/21/21 18:21* | *1* |
| *Phenol-d6 (Surr)* | *76* | | *10 - 120* | *04/20/21 10:32* | *04/21/21 18:21* | *1* |
| *p-Terphenyl-d14 (Surr)* | *84* | | *31 - 139* | *04/20/21 10:32* | *04/21/21 18:21* | *1* |

**Client Sample ID: SB-2-10.0**
**Date Collected: 04/13/21 16:30**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-7**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:40 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:40 | 1 |
| Acenaphthene | ND | | 0.50 | 0.053 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:40 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.038 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:40 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:40 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.045 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:40 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:40 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:40 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:40 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:40 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:40 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-2-10.0**
**Date Collected: 04/13/21 16:30**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-7**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:40 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:40 | 1 |
| Fluorene | ND | | 0.50 | 0.066 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:40 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:40 | 1 |
| Naphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:40 | 1 |
| Phenanthrene | ND | | 0.50 | 0.060 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:40 | 1 |
| Pyrene | ND | | 0.50 | 0.074 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *87* | | *10 - 134* | *04/20/21 10:32* | *04/21/21 18:40* | *1* |
| *2-Fluorobiphenyl (Surr)* | *83* | | *14 - 142* | *04/20/21 10:32* | *04/21/21 18:40* | *1* |
| *2-Fluorophenol (Surr)* | *78* | | *10 - 123* | *04/20/21 10:32* | *04/21/21 18:40* | *1* |
| *Nitrobenzene-d5 (Surr)* | *77* | | *10 - 129* | *04/20/21 10:32* | *04/21/21 18:40* | *1* |
| *Phenol-d6 (Surr)* | *75* | | *10 - 120* | *04/20/21 10:32* | *04/21/21 18:40* | *1* |
| *p-Terphenyl-d14 (Surr)* | *88* | | *31 - 139* | *04/20/21 10:32* | *04/21/21 18:40* | *1* |

**Client Sample ID: TW-1-10.0**
**Date Collected: 04/14/21 08:30**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-9**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:59 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:59 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:59 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:59 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:59 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.045 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:59 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:59 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:59 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:59 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:59 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:59 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:59 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:59 | 1 |
| Fluorene | ND | | 0.50 | 0.066 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:59 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:59 | 1 |
| Naphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:59 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:59 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/20/21 10:32 | 04/21/21 18:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *78* | | *10 - 134* | *04/20/21 10:32* | *04/21/21 18:59* | *1* |
| *2-Fluorobiphenyl (Surr)* | *78* | | *14 - 142* | *04/20/21 10:32* | *04/21/21 18:59* | *1* |
| *2-Fluorophenol (Surr)* | *70* | | *10 - 123* | *04/20/21 10:32* | *04/21/21 18:59* | *1* |
| *Nitrobenzene-d5 (Surr)* | *70* | | *10 - 129* | *04/20/21 10:32* | *04/21/21 18:59* | *1* |
| *Phenol-d6 (Surr)* | *67* | | *10 - 120* | *04/20/21 10:32* | *04/21/21 18:59* | *1* |
| *p-Terphenyl-d14 (Surr)* | *81* | | *31 - 139* | *04/20/21 10:32* | *04/21/21 18:59* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Client Sample ID: SVP-4-6.5**
**Date Collected: 04/14/21 09:10**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-13**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:18 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:18 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:18 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:18 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:18 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.045 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:18 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:18 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:18 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:18 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:18 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:18 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:18 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:18 | 1 |
| Fluorene | ND | | 0.50 | 0.066 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:18 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:18 | 1 |
| Naphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:18 | 1 |
| Phenanthrene | ND | | 0.50 | 0.060 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:18 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *76* | | *10 - 134* | *04/20/21 10:32* | *04/21/21 19:18* | *1* |
| *2-Fluorobiphenyl (Surr)* | *78* | | *14 - 142* | *04/20/21 10:32* | *04/21/21 19:18* | *1* |
| *2-Fluorophenol (Surr)* | *71* | | *10 - 123* | *04/20/21 10:32* | *04/21/21 19:18* | *1* |
| *Nitrobenzene-d5 (Surr)* | *68* | | *10 - 129* | *04/20/21 10:32* | *04/21/21 19:18* | *1* |
| *Phenol-d6 (Surr)* | *69* | | *10 - 120* | *04/20/21 10:32* | *04/21/21 19:18* | *1* |
| *p-Terphenyl-d14 (Surr)* | *85* | | *31 - 139* | *04/20/21 10:32* | *04/21/21 19:18* | *1* |

**Client Sample ID: SVP-1-6.5**
**Date Collected: 04/14/21 09:30**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-14**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:37 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:37 | 1 |
| Acenaphthene | ND | | 0.50 | 0.053 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:37 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:37 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:37 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.045 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:37 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:37 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:37 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:37 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:37 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:37 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:37 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:37 | 1 |
| Fluorene | ND | | 0.50 | 0.066 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:37 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:37 | 1 |
| Naphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:37 | 1 |
| Phenanthrene | ND | | 0.50 | 0.060 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:37 | 1 |
| Pyrene | ND | | 0.50 | 0.074 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:37 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *87* | | *10 - 134* | *04/20/21 10:32* | *04/21/21 19:37* | *1* |
| *2-Fluorobiphenyl (Surr)* | *84* | | *14 - 142* | *04/20/21 10:32* | *04/21/21 19:37* | *1* |
| *2-Fluorophenol (Surr)* | *79* | | *10 - 123* | *04/20/21 10:32* | *04/21/21 19:37* | *1* |
| *Nitrobenzene-d5 (Surr)* | *72* | | *10 - 129* | *04/20/21 10:32* | *04/21/21 19:37* | *1* |
| *Phenol-d6 (Surr)* | *75* | | *10 - 120* | *04/20/21 10:32* | *04/21/21 19:37* | *1* |
| *p-Terphenyl-d14 (Surr)* | *86* | | *31 - 139* | *04/20/21 10:32* | *04/21/21 19:37* | *1* |

**Client Sample ID: SVP-2-6.5**
**Date Collected: 04/14/21 10:00**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-15**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:56 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:56 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:56 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:56 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:56 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.045 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:56 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:56 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:56 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:56 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:56 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:56 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:56 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:56 | 1 |
| Fluorene | ND | | 0.50 | 0.066 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:56 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:56 | 1 |
| Naphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:56 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:56 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/20/21 10:32 | 04/21/21 19:56 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *78* | | *10 - 134* | *04/20/21 10:32* | *04/21/21 19:56* | *1* |
| *2-Fluorobiphenyl (Surr)* | *81* | | *14 - 142* | *04/20/21 10:32* | *04/21/21 19:56* | *1* |
| *2-Fluorophenol (Surr)* | *75* | | *10 - 123* | *04/20/21 10:32* | *04/21/21 19:56* | *1* |
| *Nitrobenzene-d5 (Surr)* | *75* | | *10 - 129* | *04/20/21 10:32* | *04/21/21 19:56* | *1* |
| *Phenol-d6 (Surr)* | *72* | | *10 - 120* | *04/20/21 10:32* | *04/21/21 19:56* | *1* |
| *p-Terphenyl-d14 (Surr)* | *83* | | *31 - 139* | *04/20/21 10:32* | *04/21/21 19:56* | *1* |

**Client Sample ID: G-27-C-10.0**
**Date Collected: 04/15/21 13:30**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-42**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1-Methylnaphthalene** | **6.4** | | 0.50 | 0.036 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:15 | 1 |
| **2-Methylnaphthalene** | **12** | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:15 | 1 |
| **Acenaphthene** | **0.056** | **J** | 0.50 | 0.054 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:15 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:15 | 1 |
| Anthracene | ND | | 0.50 | 0.050 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:15 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.045 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:15 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:15 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.079 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:15 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:15 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:15 | 1 |
| Chrysene | ND | | 0.50 | 0.067 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:15 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: G-27-C-10.0**
**Date Collected: 04/15/21 13:30**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-42**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:15 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:15 | 1 |
| Fluorene | ND | | 0.50 | 0.066 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:15 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:15 | 1 |
| **Naphthalene** | **10** | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:15 | 1 |
| **Phenanthrene** | **0.10** | **J** | 0.50 | 0.061 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:15 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/20/21 10:32 | 04/21/21 20:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *83* | | *10 - 134* | *04/20/21 10:32* | *04/21/21 20:15* | *1* |
| *2-Fluorobiphenyl (Surr)* | *76* | | *14 - 142* | *04/20/21 10:32* | *04/21/21 20:15* | *1* |
| *2-Fluorophenol (Surr)* | *57* | | *10 - 123* | *04/20/21 10:32* | *04/21/21 20:15* | *1* |
| *Nitrobenzene-d5 (Surr)* | *70* | | *10 - 129* | *04/20/21 10:32* | *04/21/21 20:15* | *1* |
| *Phenol-d6 (Surr)* | *66* | | *10 - 120* | *04/20/21 10:32* | *04/21/21 20:15* | *1* |
| *p-Terphenyl-d14 (Surr)* | *85* | | *31 - 139* | *04/20/21 10:32* | *04/21/21 20:15* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Client Sample ID: SW-4/MW-14-C-5.0**
**Lab Sample ID: 570-56847-1**
**Date Collected: 04/13/21 13:10**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | 0.53 | | 0.080 | 0.045 | mg/Kg | | 04/19/21 12:03 | 04/19/21 14:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *105* | | *42 - 126* | *04/19/21 12:03* | *04/19/21 14:22* | *1* |

**Client Sample ID: TW-2-50**
**Lab Sample ID: 570-56847-2**
**Date Collected: 04/13/21 13:40**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | 0.051 | J | 0.073 | 0.040 | mg/Kg | | 04/19/21 12:03 | 04/19/21 14:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *105* | | *42 - 126* | *04/19/21 12:03* | *04/19/21 14:46* | *1* |

**Client Sample ID: TW-2-60**
**Lab Sample ID: 570-56847-3**
**Date Collected: 04/13/21 13:50**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.086 | 0.048 | mg/Kg | | 04/19/21 12:03 | 04/19/21 15:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *42 - 126* | *04/19/21 12:03* | *04/19/21 15:10* | *1* |

**Client Sample ID: SVP-3-6.5**
**Lab Sample ID: 570-56847-4**
**Date Collected: 04/13/21 14:10**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.085 | 0.047 | mg/Kg | | 04/19/21 12:03 | 04/19/21 15:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *107* | | *42 - 126* | *04/19/21 12:03* | *04/19/21 15:33* | *1* |

**Client Sample ID: SB-1-10.0**
**Lab Sample ID: 570-56847-5**
**Date Collected: 04/13/21 15:55**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.076 | 0.042 | mg/Kg | | 04/19/21 12:03 | 04/19/21 15:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *42 - 126* | *04/19/21 12:03* | *04/19/21 15:57* | *1* |

**Client Sample ID: SB-1-15.0**
**Lab Sample ID: 570-56847-6**
**Date Collected: 04/13/21 16:00**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | 0.055 | J | 0.083 | 0.046 | mg/Kg | | 04/19/21 12:03 | 04/19/21 16:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *42 - 126* | *04/19/21 12:03* | *04/19/21 16:21* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Client Sample ID: SB-2-10.0**
**Date Collected: 04/13/21 16:30**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-7**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.078 | 0.043 | mg/Kg | | 04/19/21 12:03 | 04/19/21 16:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *42 - 126* | *04/19/21 12:03* | *04/19/21 16:45* | *1* |

**Client Sample ID: SB-2-15.0**
**Date Collected: 04/13/21 16:40**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-8**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.074 | 0.041 | mg/Kg | | 04/19/21 12:03 | 04/19/21 17:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *42 - 126* | *04/19/21 12:03* | *04/19/21 17:09* | *1* |

**Client Sample ID: TW-1-10.0**
**Date Collected: 04/14/21 08:30**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-9**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.074 | 0.041 | mg/Kg | | 04/19/21 12:03 | 04/19/21 17:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *114* | | *42 - 126* | *04/19/21 12:03* | *04/19/21 17:33* | *1* |

**Client Sample ID: TW-1-20.0**
**Date Collected: 04/14/21 08:35**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-10**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.073 | 0.040 | mg/Kg | | 04/19/21 12:03 | 04/19/21 17:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *110* | | *42 - 126* | *04/19/21 12:03* | *04/19/21 17:57* | *1* |

**Client Sample ID: TW-1-30.0**
**Date Collected: 04/14/21 09:00**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-11**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.075 | 0.042 | mg/Kg | | 04/19/21 12:03 | 04/19/21 19:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *42 - 126* | *04/19/21 12:03* | *04/19/21 19:36* | *1* |

**Client Sample ID: TW-1-40.0**
**Date Collected: 04/14/21 09:50**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-12**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.075 | 0.042 | mg/Kg | | 04/19/21 12:03 | 04/19/21 20:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *42 - 126* | *04/19/21 12:03* | *04/19/21 20:00* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Client Sample ID: SVP-4-6.5**
**Date Collected: 04/14/21 09:10**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-13**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.094 | 0.052 | mg/Kg | | 04/19/21 12:03 | 04/19/21 20:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *42 - 126* | *04/19/21 12:03* | *04/19/21 20:24* | *1* |

**Client Sample ID: SVP-1-6.5**
**Date Collected: 04/14/21 09:30**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-14**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.092 | 0.051 | mg/Kg | | 04/19/21 12:03 | 04/19/21 20:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *42 - 126* | *04/19/21 12:03* | *04/19/21 20:48* | *1* |

**Client Sample ID: SVP-2-6.5**
**Date Collected: 04/14/21 10:00**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-15**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.084 | 0.047 | mg/Kg | | 04/19/21 12:03 | 04/20/21 13:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *77* | | *42 - 126* | *04/19/21 12:03* | *04/20/21 13:19* | *1* |

**Client Sample ID: TW-1-50.0**
**Date Collected: 04/14/21 11:00**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-31**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.083 | 0.046 | mg/Kg | | 04/19/21 12:03 | 04/19/21 21:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *108* | | *42 - 126* | *04/19/21 12:03* | *04/19/21 21:36* | *1* |

**Client Sample ID: TW-1-60.0**
**Date Collected: 04/14/21 11:30**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-32**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.070 | 0.039 | mg/Kg | | 04/19/21 12:03 | 04/19/21 22:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *42 - 126* | *04/19/21 12:03* | *04/19/21 22:00* | *1* |

**Client Sample ID: G-27-C-10.0**
**Date Collected: 04/15/21 13:30**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-42**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **GRO (C6-C12)** | **2700** | | 81 | 45 | mg/Kg | | 04/19/21 12:01 | 04/20/21 14:07 | 1000 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *42 - 126* | *04/19/21 12:01* | *04/20/21 14:07* | *1000* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Client Sample ID: G-27-C-15.0**
**Date Collected: 04/15/21 13:40**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-43**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | 0.32 | | 0.072 | 0.040 | mg/Kg | | 04/19/21 12:03 | 04/20/21 13:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *83* | | *42 - 126* | *04/19/21 12:03* | *04/20/21 13:43* | *1* |

**Client Sample ID: TW-1-GW**
**Date Collected: 04/15/21 15:30**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-53**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C4-C12) | ND | | 50 | 30 | ug/L | | | 04/21/21 20:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *76* | | *38 - 134* | | *04/21/21 20:27* | *1* |

**Client Sample ID: TW-2-GW**
**Date Collected: 04/14/21 15:45**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-54**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C4-C12) | ND | | 50 | 30 | ug/L | | | 04/21/21 21:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *88* | | *38 - 134* | | *04/21/21 21:44* | *1* |

**Client Sample ID: TW-3-GW**
**Date Collected: 04/13/21 15:10**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-55**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C4-C12) | ND | | 50 | 30 | ug/L | | | 04/21/21 22:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *78* | | *38 - 134* | | *04/21/21 22:08* | *1* |

**Client Sample ID: SB-1-GW**
**Date Collected: 04/15/21 10:50**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-56**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C4-C12) | ND | | 50 | 30 | ug/L | | | 04/21/21 22:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *74* | | *38 - 134* | | *04/21/21 22:32* | *1* |

**Client Sample ID: SB-2-GW**
**Date Collected: 04/15/21 13:55**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-57**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C4-C12) | ND | | 50 | 30 | ug/L | | | 04/21/21 22:56 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *77* | | *38 - 134* | | *04/21/21 22:56* | *1* |

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

## Method: 8015B - Gasoline Range Organics - (GC)

**Client Sample ID: SB-3-GW**
**Date Collected: 04/15/21 15:40**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-58**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C4-C12) | ND | | 50 | 30 | ug/L | | | 04/21/21 23:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *77* | | *38 - 134* | | *04/21/21 23:20* | *1* |

**Client Sample ID: SB-4-GW**
**Date Collected: 04/15/21 15:45**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-59**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C4-C12) | ND | | 50 | 30 | ug/L | | | 04/21/21 23:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *76* | | *38 - 134* | | *04/21/21 23:44* | *1* |

**Client Sample ID: TB**
**Date Collected: 04/12/21 00:00**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-62**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C4-C12) | ND | | 50 | 30 | ug/L | | | 04/22/21 00:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *72* | | *38 - 134* | | *04/22/21 00:32* | *1* |

## Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO) with Silica Gel Cleanup - Silica Gel Cleanup

**Client Sample ID: TW-1-GW**
**Date Collected: 04/15/21 15:30**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-53**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 49 | 22 | ug/L | | 04/22/21 13:08 | 04/25/21 07:57 | 1 |
| C23-C40 | ND | | 49 | 22 | ug/L | | 04/22/21 13:08 | 04/25/21 07:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *92* | | *53 - 151* | *04/22/21 13:08* | *04/25/21 07:57* | *1* |
| *n-Decanoic Acid (Surr)* | *0* | | *0 - 1* | *04/22/21 13:08* | *04/25/21 07:57* | *1* |

**Client Sample ID: TW-2-GW**
**Date Collected: 04/14/21 15:45**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-54**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 50 | 22 | ug/L | | 04/21/21 17:00 | 04/24/21 23:52 | 1 |
| C23-C40 | ND | | 50 | 22 | ug/L | | 04/21/21 17:00 | 04/24/21 23:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *135* | | *53 - 151* | *04/21/21 17:00* | *04/24/21 23:52* | *1* |
| *n-Decanoic Acid (Surr)* | *0* | | *0 - 1* | *04/21/21 17:00* | *04/24/21 23:52* | *1* |

**Client Sample ID: TW-3-GW**
**Date Collected: 04/13/21 15:10**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-55**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C13-C22** | **34** | **J** | 50 | 22 | ug/L | | 04/20/21 11:14 | 04/26/21 16:48 | 1 |
| **C23-C40** | **180** | | 50 | 22 | ug/L | | 04/20/21 11:14 | 04/26/21 16:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *57* | | *53 - 151* | *04/20/21 11:14* | *04/26/21 16:48* | *1* |
| *n-Decanoic Acid (Surr)* | *0* | | *0 - 1* | *04/20/21 11:14* | *04/26/21 16:48* | *1* |

**Client Sample ID: SB-1-GW**
**Date Collected: 04/15/21 10:50**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-56**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 53 | 24 | ug/L | | 04/22/21 13:08 | 04/25/21 08:19 | 1 |
| C23-C40 | ND | | 53 | 24 | ug/L | | 04/22/21 13:08 | 04/25/21 08:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *143* | | *53 - 151* | *04/22/21 13:08* | *04/25/21 08:19* | *1* |
| *n-Decanoic Acid (Surr)* | *0* | | *0 - 1* | *04/22/21 13:08* | *04/25/21 08:19* | *1* |

**Client Sample ID: SB-2-GW**
**Date Collected: 04/15/21 13:55**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-57**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C13-C22** | **69** | | 46 | 20 | ug/L | | 04/22/21 13:08 | 04/25/21 08:44 | 1 |
| **C23-C40** | **270** | | 46 | 20 | ug/L | | 04/22/21 13:08 | 04/25/21 08:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *136* | | *53 - 151* | *04/22/21 13:08* | *04/25/21 08:44* | *1* |
| *n-Decanoic Acid (Surr)* | *0* | | *0 - 1* | *04/22/21 13:08* | *04/25/21 08:44* | *1* |

## Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO) with Silica Gel Cleanup - Silica Gel Cleanup

**Client Sample ID: SB-3-GW**
**Date Collected: 04/15/21 15:40**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-58**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C13-C22** | **25** | **J** | 46 | 20 | ug/L | | 04/22/21 13:08 | 04/25/21 09:06 | 1 |
| C23-C40 | ND | | 46 | 20 | ug/L | | 04/22/21 13:08 | 04/25/21 09:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *134* | | *53 - 151* | *04/22/21 13:08* | *04/25/21 09:06* | *1* |
| *n-Decanoic Acid (Surr)* | *0* | | *0 - 1* | *04/22/21 13:08* | *04/25/21 09:06* | *1* |

**Client Sample ID: SB-4-GW**
**Date Collected: 04/15/21 15:45**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-59**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C13-C22** | **54** | | 49 | 22 | ug/L | | 04/22/21 13:08 | 04/25/21 09:31 | 1 |
| C23-C40 | ND | | 49 | 22 | ug/L | | 04/22/21 13:08 | 04/25/21 09:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *132* | | *53 - 151* | *04/22/21 13:08* | *04/25/21 09:31* | *1* |
| *n-Decanoic Acid (Surr)* | *0* | | *0 - 1* | *04/22/21 13:08* | *04/25/21 09:31* | *1* |

## Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

**Client Sample ID: TW-1-GW**
**Date Collected: 04/15/21 15:30**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-53**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 49 | 22 | ug/L | | 04/21/21 16:08 | 04/24/21 00:04 | 1 |
| C23-C40 | ND | | 49 | 22 | ug/L | | 04/21/21 16:08 | 04/24/21 00:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *78* | | *53 - 151* | *04/21/21 16:08* | *04/24/21 00:04* | *1* |

**Client Sample ID: TW-2-GW**
**Date Collected: 04/14/21 15:45**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-54**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C13-C22** | **35** | **J** | 50 | 22 | ug/L | | 04/21/21 17:00 | 04/25/21 06:24 | 1 |
| C23-C40 | ND | | 50 | 22 | ug/L | | 04/21/21 17:00 | 04/25/21 06:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *124* | | *53 - 151* | *04/21/21 17:00* | *04/25/21 06:24* | *1* |

**Client Sample ID: TW-3-GW**
**Date Collected: 04/13/21 15:10**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-55**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C13-C22** | **64** | | 50 | 22 | ug/L | | 04/20/21 11:14 | 04/26/21 16:03 | 1 |
| **C23-C40** | **290** | | 50 | 22 | ug/L | | 04/20/21 11:14 | 04/26/21 16:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *83* | | *53 - 151* | *04/20/21 11:14* | *04/26/21 16:03* | *1* |

**Client Sample ID: SB-1-GW**
**Date Collected: 04/15/21 10:50**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-56**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C13-C22** | **60** | | 53 | 24 | ug/L | | 04/21/21 16:08 | 04/24/21 00:51 | 1 |
| **C23-C40** | **50** | **J** | 53 | 24 | ug/L | | 04/21/21 16:08 | 04/24/21 00:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *125* | | *53 - 151* | *04/21/21 16:08* | *04/24/21 00:51* | *1* |

**Client Sample ID: SB-2-GW**
**Date Collected: 04/15/21 13:55**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-57**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C13-C22** | **290** | | 46 | 20 | ug/L | | 04/21/21 16:08 | 04/24/21 01:13 | 1 |
| **C23-C40** | **410** | | 46 | 20 | ug/L | | 04/21/21 16:08 | 04/24/21 01:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *120* | | *53 - 151* | *04/21/21 16:08* | *04/24/21 01:13* | *1* |

**Client Sample ID: SB-3-GW**
**Date Collected: 04/15/21 15:40**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-58**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C13-C22** | **97** | | 46 | 20 | ug/L | | 04/21/21 16:08 | 04/24/21 01:36 | 1 |
| **C23-C40** | **24** | **J** | 46 | 20 | ug/L | | 04/21/21 16:08 | 04/24/21 01:36 | 1 |

## Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *129* | | *53 - 151* | *04/21/21 16:08* | *04/24/21 01:36* | *1* |

**Client Sample ID: SB-4-GW**
**Date Collected: 04/15/21 15:45**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-59**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | 170 | | 49 | 22 | ug/L | | 04/21/21 16:08 | 04/24/21 01:58 | 1 |
| C23-C40 | 34 | J | 49 | 22 | ug/L | | 04/21/21 16:08 | 04/24/21 01:58 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *130* | | *53 - 151* | *04/21/21 16:08* | *04/24/21 01:58* | *1* |

## Method: 8081A - Organochlorine Pesticides (GC)

**Client Sample ID: SSD-19-1.0**
**Date Collected: 04/14/21 10:52**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-28**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.98 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.53 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |
| 4,4'-DDT | ND | | 5.0 | 0.36 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |
| beta-BHC | ND | | 5.0 | 3.6 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |
| Endosulfan I | ND | | 5.0 | 0.43 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.72 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |
| Endrin ketone | ND | | 5.0 | 0.47 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.25 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |
| Heptachlor | ND | | 5.0 | 0.88 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.66 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |
| Methoxychlor | ND | | 5.0 | 0.80 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *50* | | *38 - 148* | *04/20/21 10:34* | *04/23/21 08:37* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *55* | | *37 - 151* | *04/20/21 10:34* | *04/23/21 08:37* | *1* |

**Client Sample ID: SSD-19-2.0**
**Date Collected: 04/14/21 10:54**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-29**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.98 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.53 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |
| 4,4'-DDT | ND | | 5.0 | 0.36 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |
| Endosulfan I | ND | | 5.0 | 0.43 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |
| Endrin ketone | ND | | 5.0 | 0.47 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.26 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |
| Heptachlor | ND | | 5.0 | 0.88 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Client Sample ID: SSD-19-2.0**
**Date Collected: 04/14/21 10:54**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-29**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Heptachlor epoxide | ND | | 5.0 | 0.66 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/20/21 10:34 | 04/23/21 07:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *59* | | *38 - 148* | *04/20/21 10:34* | *04/23/21 07:55* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *61* | | *37 - 151* | *04/20/21 10:34* | *04/23/21 07:55* | *1* |

**Client Sample ID: SSD-19-3.0**
**Date Collected: 04/14/21 10:56**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-30**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.98 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.53 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |
| 4,4'-DDT | ND | | 5.0 | 0.36 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |
| beta-BHC | ND | | 5.0 | 3.6 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |
| Endosulfan I | ND | | 5.0 | 0.43 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |
| Endosulfan II | ND | | 5.0 | 0.30 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.72 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |
| Endrin ketone | ND | | 5.0 | 0.47 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.25 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |
| Heptachlor | ND | | 5.0 | 0.88 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.66 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |
| Methoxychlor | ND | | 5.0 | 0.80 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *85* | | *38 - 148* | *04/20/21 10:34* | *04/23/21 08:09* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *88* | | *37 - 151* | *04/20/21 10:34* | *04/23/21 08:09* | *1* |

**Client Sample ID: SSD-26-3.0**
**Date Collected: 04/15/21 13:44**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-33**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.98 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |
| **4,4'-DDE** | **6.6** | | 5.0 | 0.53 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |
| **4,4'-DDT** | **16** | | 5.0 | 0.36 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Client Sample ID: SSD-26-3.0**
**Date Collected: 04/15/21 13:44**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-33**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chlordane** | **14** | **J** | 25 | 2.4 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |
| **Dieldrin** | **2.2** | **J p** | 5.0 | 0.25 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |
| Endosulfan I | ND | | 5.0 | 0.43 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |
| Endrin ketone | ND | | 5.0 | 0.47 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |
| **gamma-Chlordane** | **0.69** | **J p** | 5.0 | 0.25 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |
| Heptachlor | ND | | 5.0 | 0.88 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.66 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *71* | | *38 - 148* | *04/20/21 10:34* | *04/23/21 10:17* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *82* | | *37 - 151* | *04/20/21 10:34* | *04/23/21 10:17* | *1* |

**Client Sample ID: SSD-28-3.0**
**Date Collected: 04/15/21 13:54**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-38**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.98 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.53 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |
| **4,4'-DDT** | **1.0** | **J** | 5.0 | 0.36 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |
| Endosulfan I | ND | | 5.0 | 0.43 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |
| Endrin ketone | ND | | 5.0 | 0.47 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.26 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |
| Heptachlor | ND | | 5.0 | 0.88 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.66 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *83* | | *38 - 148* | *04/20/21 10:34* | *04/23/21 08:23* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *82* | | *37 - 151* | *04/20/21 10:34* | *04/23/21 08:23* | *1* |

## Method: 8081A - Organochlorine Pesticides (GC)

**Client Sample ID: SSD-28-3.5**
**Date Collected: 04/15/21 13:56**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-39**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.98 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.53 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |
| 4,4'-DDT | ND | | 5.0 | 0.36 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |
| Endosulfan I | ND | | 5.0 | 0.43 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |
| Endrin ketone | ND | | 5.0 | 0.47 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.26 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |
| Heptachlor | ND | | 5.0 | 0.88 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.66 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/20/21 10:34 | 04/23/21 05:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *78* | | *38 - 148* | *04/20/21 10:34* | *04/23/21 05:18* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *77* | | *37 - 151* | *04/20/21 10:34* | *04/23/21 05:18* | *1* |

**Client Sample ID: SSD-31-3.0**
**Date Collected: 04/15/21 13:58**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-40**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.98 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |
| **4,4'-DDE** | **2.0** | **J** | 5.0 | 0.53 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |
| **4,4'-DDT** | **3.7** | **J** | 5.0 | 0.36 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |
| beta-BHC | ND | | 5.0 | 3.6 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |
| **Dieldrin** | **0.56** | **J** | 5.0 | 0.25 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |
| Endosulfan I | ND | | 5.0 | 0.43 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |
| Endosulfan II | ND | | 5.0 | 0.30 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.72 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |
| Endrin ketone | ND | | 5.0 | 0.47 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |
| **gamma-Chlordane** | **0.26** | **J p** | 5.0 | 0.25 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |
| Heptachlor | ND | | 5.0 | 0.88 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Client Sample ID: SSD-31-3.0**
**Date Collected: 04/15/21 13:58**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-40**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Heptachlor epoxide | ND | | 5.0 | 0.66 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |
| Methoxychlor | ND | | 5.0 | 0.80 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/20/21 10:34 | 04/23/21 08:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *80* | | *38 - 148* | *04/20/21 10:34* | *04/23/21 08:51* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *87* | | *37 - 151* | *04/20/21 10:34* | *04/23/21 08:51* | *1* |

**Client Sample ID: SSD-31-3.5**
**Date Collected: 04/15/21 14:00**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-41**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.98 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |
| **4,4'-DDE** | **5.4** | | 5.0 | 0.54 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |
| **4,4'-DDT** | **9.8** | | 5.0 | 0.36 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |
| **Chlordane** | **5.8** | **J** | 25 | 2.4 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |
| **Dieldrin** | **1.3** | **J** | 5.0 | 0.25 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |
| Endosulfan I | ND | | 5.0 | 0.44 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |
| Endrin ketone | ND | | 5.0 | 0.47 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |
| **gamma-Chlordane** | **0.58** | **J** | 5.0 | 0.26 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |
| Heptachlor | ND | | 5.0 | 0.88 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.67 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *96* | | *38 - 148* | *04/20/21 10:34* | *04/23/21 10:45* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *146* | | *37 - 151* | *04/20/21 10:34* | *04/23/21 10:45* | *1* |

**Client Sample ID: SSD-30-3.0**
**Date Collected: 04/15/21 14:08**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-44**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.98 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.54 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |
| **4,4'-DDT** | **0.56** | **J p** | 5.0 | 0.36 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Client Sample ID: SSD-30-3.0**
**Date Collected: 04/15/21 14:08**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-44**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chlordane** | **5.6** | **J** | 25 | 2.4 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |
| Endosulfan I | ND | | 5.0 | 0.44 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |
| Endrin ketone | ND | | 5.0 | 0.47 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |
| **gamma-Chlordane** | **1.2** | **J p** | 5.0 | 0.26 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |
| Heptachlor | ND | | 5.0 | 0.88 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.67 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *46* | | *38 - 148* | *04/20/21 10:34* | *04/23/21 10:02* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *58* | | *37 - 151* | *04/20/21 10:34* | *04/23/21 10:02* | *1* |

**Client Sample ID: SSD-30-3.5**
**Date Collected: 04/15/21 14:10**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-45**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.98 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |
| **4,4'-DDE** | **0.84** | **J** | 5.0 | 0.53 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |
| **4,4'-DDT** | **2.7** | **J** | 5.0 | 0.36 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |
| **Chlordane** | **29** | | 25 | 2.4 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |
| Endosulfan I | ND | | 5.0 | 0.43 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |
| Endrin ketone | ND | | 5.0 | 0.47 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |
| **gamma-Chlordane** | **4.8** | **J p** | 5.0 | 0.26 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |
| **Heptachlor** | **1.1** | **J** | 5.0 | 0.88 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.66 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/20/21 10:34 | 04/23/21 10:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *51* | | *38 - 148* | *04/20/21 10:34* | *04/23/21 10:31* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *70* | | *37 - 151* | *04/20/21 10:34* | *04/23/21 10:31* | *1* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Client Sample ID: SSD-19-1.0**
**Date Collected: 04/14/21 10:52**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-28**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:38 | 1 |
| Aroclor-1221 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:38 | 1 |
| Aroclor-1232 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:38 | 1 |
| Aroclor-1242 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:38 | 1 |
| Aroclor-1248 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:38 | 1 |
| Aroclor-1254 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:38 | 1 |
| Aroclor-1260 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:38 | 1 |
| Aroclor-1262 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:38 | 1 |
| Aroclor-1268 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *71* | | *25 - 126* | *04/21/21 15:57* | *04/22/21 16:38* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *112* | | *20 - 155* | *04/21/21 15:57* | *04/22/21 16:38* | *1* |

**Client Sample ID: SSD-19-2.0**
**Date Collected: 04/14/21 10:54**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-29**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 9.9 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:56 | 1 |
| Aroclor-1221 | ND | | 9.9 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:56 | 1 |
| Aroclor-1232 | ND | | 9.9 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:56 | 1 |
| Aroclor-1242 | ND | | 9.9 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:56 | 1 |
| Aroclor-1248 | ND | | 9.9 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:56 | 1 |
| Aroclor-1254 | ND | | 9.9 | 4.9 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:56 | 1 |
| Aroclor-1260 | ND | | 9.9 | 4.9 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:56 | 1 |
| Aroclor-1262 | ND | | 9.9 | 4.9 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:56 | 1 |
| Aroclor-1268 | ND | | 9.9 | 4.9 | ug/Kg | | 04/21/21 15:57 | 04/22/21 16:56 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *61* | | *25 - 126* | *04/21/21 15:57* | *04/22/21 16:56* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *77* | | *20 - 155* | *04/21/21 15:57* | *04/22/21 16:56* | *1* |

**Client Sample ID: SSD-19-3.0**
**Date Collected: 04/14/21 10:56**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-30**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 9.9 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 17:14 | 1 |
| Aroclor-1221 | ND | | 9.9 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 17:14 | 1 |
| Aroclor-1232 | ND | | 9.9 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 17:14 | 1 |
| Aroclor-1242 | ND | | 9.9 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 17:14 | 1 |
| Aroclor-1248 | ND | | 9.9 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 17:14 | 1 |
| Aroclor-1254 | ND | | 9.9 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 17:14 | 1 |
| Aroclor-1260 | ND | | 9.9 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 17:14 | 1 |
| Aroclor-1262 | ND | | 9.9 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 17:14 | 1 |
| Aroclor-1268 | ND | | 9.9 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 17:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *69* | | *25 - 126* | *04/21/21 15:57* | *04/22/21 17:14* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *82* | | *20 - 155* | *04/21/21 15:57* | *04/22/21 17:14* | *1* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Client Sample ID: SSD-28-0.0**
**Date Collected: 04/15/21 13:48**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-35**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:20 | 1 |
| Aroclor-1221 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:20 | 1 |
| Aroclor-1232 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:20 | 1 |
| Aroclor-1242 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:20 | 1 |
| Aroclor-1248 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:20 | 1 |
| Aroclor-1254 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:20 | 1 |
| **Aroclor-1260** | **81** | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:20 | 1 |
| Aroclor-1262 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:20 | 1 |
| Aroclor-1268 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *70* | | *25 - 126* | *04/21/21 15:57* | *04/22/21 19:20* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *79* | | *20 - 155* | *04/21/21 15:57* | *04/22/21 19:20* | *1* |

**Client Sample ID: SSD-28-0.5**
**Date Collected: 04/15/21 13:50**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-36**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 17:50 | 1 |
| Aroclor-1221 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 17:50 | 1 |
| Aroclor-1232 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 17:50 | 1 |
| Aroclor-1242 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 17:50 | 1 |
| Aroclor-1248 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 17:50 | 1 |
| Aroclor-1254 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 17:50 | 1 |
| **Aroclor-1260** | **44** | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 17:50 | 1 |
| Aroclor-1262 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 17:50 | 1 |
| Aroclor-1268 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 17:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *66* | | *25 - 126* | *04/21/21 15:57* | *04/22/21 17:50* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *112* | | *20 - 155* | *04/21/21 15:57* | *04/22/21 17:50* | *1* |

**Client Sample ID: SSD-28-1.0**
**Date Collected: 04/15/21 13:52**
**Date Received: 04/17/21 10:05**

**Lab Sample ID: 570-56847-37**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:08 | 1 |
| Aroclor-1221 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:08 | 1 |
| Aroclor-1232 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:08 | 1 |
| Aroclor-1242 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:08 | 1 |
| Aroclor-1248 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:08 | 1 |
| Aroclor-1254 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:08 | 1 |
| Aroclor-1260 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:08 | 1 |
| Aroclor-1262 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:08 | 1 |
| Aroclor-1268 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *55* | | *25 - 126* | *04/21/21 15:57* | *04/22/21 18:08* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *53* | | *20 - 155* | *04/21/21 15:57* | *04/22/21 18:08* | *1* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Client Sample ID: SSD-27-0.0**
**Date Collected: 04/15/21 14:12**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-46**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:26 | 1 |
| Aroclor-1221 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:26 | 1 |
| Aroclor-1232 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:26 | 1 |
| Aroclor-1242 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:26 | 1 |
| Aroclor-1248 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:26 | 1 |
| Aroclor-1254 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:26 | 1 |
| **Aroclor-1260** | **100** | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:26 | 1 |
| Aroclor-1262 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:26 | 1 |
| Aroclor-1268 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *65* | | *25 - 126* | *04/21/21 15:57* | *04/22/21 18:26* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *87* | | *20 - 155* | *04/21/21 15:57* | *04/22/21 18:26* | *1* |

**Client Sample ID: SSD-27-0.5**
**Date Collected: 04/15/21 14:14**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-47**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:44 | 1 |
| Aroclor-1221 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:44 | 1 |
| Aroclor-1232 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:44 | 1 |
| Aroclor-1242 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:44 | 1 |
| Aroclor-1248 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:44 | 1 |
| Aroclor-1254 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:44 | 1 |
| **Aroclor-1260** | **46** | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:44 | 1 |
| Aroclor-1262 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:44 | 1 |
| Aroclor-1268 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 18:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *57* | | *25 - 126* | *04/21/21 15:57* | *04/22/21 18:44* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *81* | | *20 - 155* | *04/21/21 15:57* | *04/22/21 18:44* | *1* |

**Client Sample ID: SSD-27-1.0**
**Date Collected: 04/15/21 14:16**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-48**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 9.9 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:02 | 1 |
| Aroclor-1221 | ND | | 9.9 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:02 | 1 |
| Aroclor-1232 | ND | | 9.9 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:02 | 1 |
| Aroclor-1242 | ND | | 9.9 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:02 | 1 |
| Aroclor-1248 | ND | | 9.9 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:02 | 1 |
| Aroclor-1254 | ND | | 9.9 | 4.9 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:02 | 1 |
| **Aroclor-1260** | **39** | | 9.9 | 4.9 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:02 | 1 |
| Aroclor-1262 | ND | | 9.9 | 4.9 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:02 | 1 |
| Aroclor-1268 | ND | | 9.9 | 4.9 | ug/Kg | | 04/21/21 15:57 | 04/22/21 19:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *45* | | *25 - 126* | *04/21/21 15:57* | *04/22/21 19:02* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *74* | | *20 - 155* | *04/21/21 15:57* | *04/22/21 19:02* | *1* |

## Method: 6010B - Metals (ICP)

**Client Sample ID: SSD-15-1.0**
**Date Collected: 04/14/21 10:15**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-16**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1600 | | 5.2 | 1.0 | mg/Kg | | 04/21/21 16:00 | 04/22/21 19:22 | 1 |

**Client Sample ID: SSD-15-2.0**
**Date Collected: 04/14/21 10:17**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-17**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 33 | | 5.0 | 0.96 | mg/Kg | | 04/21/21 16:00 | 04/22/21 19:24 | 1 |

**Client Sample ID: SSD-15-3.0**
**Date Collected: 04/14/21 10:19**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-18**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 25 | | 5.2 | 1.0 | mg/Kg | | 04/21/21 16:00 | 04/22/21 19:26 | 1 |

**Client Sample ID: SSD-15-4.0**
**Date Collected: 04/14/21 10:21**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-19**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 7.2 | | 4.9 | 0.95 | mg/Kg | | 04/21/21 16:00 | 04/22/21 19:28 | 1 |

**Client Sample ID: SSD-16-1.0**
**Date Collected: 04/14/21 10:30**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-20**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 410 | | 5.0 | 0.96 | mg/Kg | | 04/21/21 16:00 | 04/22/21 13:30 | 1 |

**Client Sample ID: SSD-16-2.0**
**Date Collected: 04/14/21 10:32**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-21**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 180 | | 5.1 | 0.98 | mg/Kg | | 04/21/21 16:00 | 04/22/21 13:36 | 1 |

**Client Sample ID: SSD-16-3.0**
**Date Collected: 04/14/21 10:34**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-22**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 7.9 | | 4.9 | 0.95 | mg/Kg | | 04/21/21 16:00 | 04/22/21 13:38 | 1 |

**Client Sample ID: SSD-16-4.0**
**Date Collected: 04/14/21 10:36**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-23**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 4.7 | J | 4.9 | 0.95 | mg/Kg | | 04/21/21 16:00 | 04/22/21 13:41 | 1 |

**Client Sample ID: SSD-17-1.0**
**Date Collected: 04/14/21 10:34**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-24**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 220 | | 5.0 | 0.97 | mg/Kg | | 04/21/21 16:00 | 04/22/21 13:44 | 1 |

## Method: 6010B - Metals (ICP)

**Client Sample ID: SSD-17-2.0**
**Date Collected: 04/14/21 10:36**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-25**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 250 | | 4.9 | 0.95 | mg/Kg | | 04/21/21 16:00 | 04/22/21 13:50 | 1 |

**Client Sample ID: SSD-17-3.0**
**Date Collected: 04/14/21 10:38**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-26**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 63 | | 4.9 | 0.94 | mg/Kg | | 04/21/21 16:00 | 04/22/21 13:53 | 1 |

**Client Sample ID: SSD-17-4.0**
**Date Collected: 04/14/21 10:40**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-27**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 17 | | 4.9 | 0.95 | mg/Kg | | 04/21/21 16:00 | 04/22/21 13:56 | 1 |

**Client Sample ID: SSD-19-1.0**
**Date Collected: 04/14/21 10:52**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-28**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 2100 | | 5.1 | 0.99 | mg/Kg | | 04/21/21 16:00 | 04/22/21 13:58 | 1 |

**Client Sample ID: SSD-19-2.0**
**Date Collected: 04/14/21 10:54**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-29**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 800 | | 5.0 | 0.96 | mg/Kg | | 04/21/21 16:00 | 04/22/21 14:00 | 1 |

**Client Sample ID: SSD-19-3.0**
**Date Collected: 04/14/21 10:56**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-30**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 140 | | 5.2 | 1.0 | mg/Kg | | 04/21/21 16:00 | 04/22/21 14:02 | 1 |

**Client Sample ID: SSD-26-3.5**
**Date Collected: 04/15/21 13:46**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-34**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 15 | | 5.1 | 0.98 | mg/Kg | | 04/21/21 16:00 | 04/22/21 14:05 | 1 |

**Client Sample ID: SSD-27-3.5**
**Date Collected: 04/15/21 14:18**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-49**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1200 | | 5.0 | 0.97 | mg/Kg | | 04/21/21 16:00 | 04/22/21 14:07 | 1 |

**Client Sample ID: SSD-27-4.0**
**Date Collected: 04/15/21 14:20**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-50**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 15 | | 5.0 | 0.96 | mg/Kg | | 04/21/21 16:00 | 04/22/21 14:09 | 1 |

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

## Method: 6010B - Metals (ICP)

**Client Sample ID: SSD-21-1.0**
**Date Collected: 04/15/21 14:22**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-51**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 310 | | 5.0 | 0.97 | mg/Kg | | 04/21/21 16:00 | 04/22/21 14:12 | 1 |

**Client Sample ID: SSD-21-2.0**
**Date Collected: 04/15/21 14:24**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-52**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 550 | | 5.0 | 0.96 | mg/Kg | | 04/21/21 16:00 | 04/22/21 14:21 | 1 |

**Client Sample ID: SSD-21-3.0**
**Date Collected: 04/15/21 14:26**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-60**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 840 | | 5.1 | 0.99 | mg/Kg | | 04/21/21 16:00 | 04/22/21 14:24 | 1 |

**Client Sample ID: SSD-21-4.0**
**Date Collected: 04/15/21 14:28**
**Date Received: 04/17/21 10:05**
**Lab Sample ID: 570-56847-61**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 3500 | | 4.9 | 0.95 | mg/Kg | | 04/21/21 16:00 | 04/22/21 14:26 | 1 |

# Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145 Oakland Center Street

Job ID: 570-56847-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Matrix: Solid**

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | BFB | DBFM | TOL |
| Lab Sample ID | Client Sample ID | (80-142) | (80-120) | (80-123) | (80-120) |
| 570-56847-1 | SW-4/MW-14-C-5.0 | 114 | 100 | 107 | 102 |
| 570-56847-2 | TW-2-50 | 115 | 97 | 106 | 100 |
| 570-56847-3 | TW-2-60 | 111 | 98 | 105 | 102 |
| 570-56847-4 | SVP-3-6.5 | 119 | 97 | 105 | 101 |
| 570-56847-5 | SB-1-10.0 | 115 | 96 | 105 | 102 |
| 570-56847-6 | SB-1-15.0 | 115 | 92 | 103 | 103 |
| 570-56847-7 | SB-2-10.0 | 108 | 94 | 98 | 100 |
| 570-56847-8 | SB-2-15.0 | 108 | 97 | 97 | 101 |
| 570-56847-9 | TW-1-10.0 | 105 | 96 | 98 | 100 |
| 570-56847-10 | TW-1-20.0 | 119 | 98 | 108 | 100 |
| 570-56847-11 | TW-1-30.0 | 120 | 101 | 106 | 100 |
| 570-56847-12 | TW-1-40.0 | 118 | 96 | 105 | 102 |
| 570-56847-13 | SVP-4-6.5 | 123 | 95 | 113 | 100 |
| 570-56847-14 | SVP-1-6.5 | 116 | 96 | 106 | 102 |
| 570-56847-15 | SVP-2-6.5 | 122 | 97 | 109 | 100 |
| 570-56847-31 | TW-1-50.0 | 130 | 96 | 115 | 103 |
| 570-56847-32 | TW-1-60.0 | 133 | 92 | 113 | 100 |
| 570-56847-42 | G-27-C-10.0 | 101 | 95 | 98 | 101 |
| 570-56847-43 | G-27-C-15.0 | 128 | 97 | 111 | 102 |
| LCS 570-144481/7 | Lab Control Sample | 102 | 104 | 103 | 100 |
| LCS 570-144488/4 | Lab Control Sample | 104 | 101 | 100 | 102 |
| LCS 570-144777/4 | Lab Control Sample | 105 | 105 | 104 | 101 |
| LCS 570-144782/4 | Lab Control Sample | 103 | 102 | 101 | 100 |
| LCSD 570-144481/8 | Lab Control Sample Dup | 100 | 107 | 102 | 100 |
| LCSD 570-144488/5 | Lab Control Sample Dup | 103 | 101 | 100 | 100 |
| LCSD 570-144777/5 | Lab Control Sample Dup | 103 | 102 | 103 | 103 |
| LCSD 570-144782/5 | Lab Control Sample Dup | 102 | 103 | 99 | 99 |
| MB 570-144481/10 | Method Blank | 109 | 96 | 104 | 101 |
| MB 570-144488/9 | Method Blank | 100 | 93 | 96 | 100 |
| MB 570-144777/7 | Method Blank | 106 | 97 | 100 | 102 |
| MB 570-144782/7 | Method Blank | 99 | 94 | 95 | 100 |
| MB 570-144782/8 | Method Blank | 98 | 94 | 93 | 100 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Matrix: Water**

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | BFB | DBFM | TOL |
| Lab Sample ID | Client Sample ID | (68-135) | (71-120) | (80-120) | (80-120) |
| 440-281965-A-4 MS | Matrix Spike | 104 | 102 | 100 | 111 |
| 440-281965-A-4 MSD | Matrix Spike Duplicate | 106 | 91 | 105 | 100 |
| 570-56847-53 | TW-1-GW | 101 | 96 | 103 | 100 |
| 570-56847-54 | TW-2-GW | 103 | 94 | 100 | 111 |
| 570-56847-55 | TW-3-GW | 98 | 92 | 96 | 99 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Matrix: Water** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | BFB | DBFM | TOL |
| Lab Sample ID | Client Sample ID | (68-135) | (71-120) | (80-120) | (80-120) |
| 570-56847-56 | SB-1-GW | 101 | 93 | 103 | 100 |
| 570-56847-57 | SB-2-GW | 94 | 93 | 96 | 100 |
| 570-56847-58 | SB-3-GW | 98 | 96 | 99 | 103 |
| 570-56847-59 | SB-4-GW | 94 | 94 | 94 | 102 |
| 570-56847-62 | TB | 98 | 96 | 99 | 101 |
| LCS 570-145291/4 | Lab Control Sample | 99 | 100 | 101 | 100 |
| LCSD 570-145291/5 | Lab Control Sample Dup | 102 | 98 | 102 | 100 |
| MB 570-145291/8 | Method Blank | 100 | 96 | 102 | 101 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | |
|---|---|---|---|---|---|---|---|
| | | TBP | FBP | 2FP | NBZ | PHL6 | TPHd14 |
| Lab Sample ID | Client Sample ID | (10-134) | (14-142) | (10-123) | (10-129) | (10-120) | (31-139) |
| 570-56782-A-31-A MS | Matrix Spike | 73 | 71 | 65 | 60 | 59 | 71 |
| 570-56782-A-31-B MSD | Matrix Spike Duplicate | 71 | 71 | 64 | 59 | 60 | 73 |
| 570-56847-1 | SW-4/MW-14-C-5.0 | 69 | 70 | 62 | 62 | 60 | 74 |
| 570-56847-4 | SVP-3-6.5 | 80 | 79 | 70 | 70 | 66 | 80 |
| 570-56847-5 | SB-1-10.0 | 90 | 89 | 81 | 77 | 76 | 84 |
| 570-56847-7 | SB-2-10.0 | 87 | 83 | 78 | 77 | 75 | 88 |
| 570-56847-9 | TW-1-10.0 | 78 | 78 | 70 | 70 | 67 | 81 |
| 570-56847-13 | SVP-4-6.5 | 76 | 78 | 71 | 68 | 69 | 85 |
| 570-56847-14 | SVP-1-6.5 | 87 | 84 | 79 | 72 | 75 | 86 |
| 570-56847-15 | SVP-2-6.5 | 78 | 81 | 75 | 75 | 72 | 83 |
| 570-56847-42 | G-27-C-10.0 | 83 | 76 | 57 | 70 | 66 | 85 |
| LCS 570-144547/2-A | Lab Control Sample | 92 | 84 | 77 | 69 | 73 | 89 |
| LCSD 570-144547/3-A | Lab Control Sample Dup | 93 | 84 | 79 | 70 | 75 | 92 |
| MB 570-144547/1-A | Method Blank | 83 | 83 | 74 | 76 | 70 | 86 |

**Surrogate Legend**

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL6 = Phenol-d6 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

## Method: 8015B - Gasoline Range Organics - (GC)

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) |
|---|---|---|
| | | BFB1 |
| Lab Sample ID | Client Sample ID | (42-126) |
| 570-56847-1 | SW-4/MW-14-C-5.0 | 105 |
| 570-56847-2 | TW-2-50 | 105 |

# Surrogate Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Matrix: Solid**
**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) |
|---|---|---|
| Lab Sample ID | Client Sample ID | BFB1 (42-126) |
| 570-56847-3 | TW-2-60 | 111 |
| 570-56847-4 | SVP-3-6.5 | 107 |
| 570-56847-5 | SB-1-10.0 | 115 |
| 570-56847-6 | SB-1-15.0 | 106 |
| 570-56847-7 | SB-2-10.0 | 106 |
| 570-56847-8 | SB-2-15.0 | 115 |
| 570-56847-9 | TW-1-10.0 | 114 |
| 570-56847-10 | TW-1-20.0 | 110 |
| 570-56847-11 | TW-1-30.0 | 106 |
| 570-56847-12 | TW-1-40.0 | 109 |
| 570-56847-13 | SVP-4-6.5 | 103 |
| 570-56847-14 | SVP-1-6.5 | 99 |
| 570-56847-15 | SVP-2-6.5 | 77 |
| 570-56847-31 | TW-1-50.0 | 108 |
| 570-56847-32 | TW-1-60.0 | 115 |
| 570-56847-42 | G-27-C-10.0 | 106 |
| 570-56847-43 | G-27-C-15.0 | 83 |
| LCS 570-144226/3 | Lab Control Sample | 99 |
| LCS 570-144522/3 | Lab Control Sample | 98 |
| LCSD 570-144226/4 | Lab Control Sample Dup | 105 |
| LCSD 570-144522/4 | Lab Control Sample Dup | 98 |
| MB 570-144226/5 | Method Blank | 96 |
| MB 570-144522/5 | Method Blank | 82 |
| MB 570-144522/6 | Method Blank | 75 |

**Surrogate Legend**
BFB = 4-Bromofluorobenzene (Surr)

## Method: 8015B - Gasoline Range Organics - (GC)

**Matrix: Water**
**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) |
|---|---|---|
| Lab Sample ID | Client Sample ID | BFB1 (38-134) |
| 440-281876-D-4 MS | Matrix Spike | 85 |
| 440-281876-D-4 MSD | Matrix Spike Duplicate | 87 |
| 570-56847-53 | TW-1-GW | 76 |
| 570-56847-54 | TW-2-GW | 88 |
| 570-56847-55 | TW-3-GW | 78 |
| 570-56847-56 | SB-1-GW | 74 |
| 570-56847-57 | SB-2-GW | 77 |
| 570-56847-58 | SB-3-GW | 77 |
| 570-56847-59 | SB-4-GW | 76 |
| 570-56847-62 | TB | 72 |
| LCS 570-144904/3 | Lab Control Sample | 91 |
| LCSD 570-144904/4 | Lab Control Sample Dup | 94 |
| MB 570-144904/5 | Method Blank | 71 |

**Surrogate Legend**
BFB = 4-Bromofluorobenzene (Surr)

# Surrogate Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

## Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

**Matrix: Water**
**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OTCSN1 | | | | | | | | | | |
| Lab Sample ID | Client Sample ID | (53-151) | | | | | | | | | | |
| 570-56847-53 | TW-1-GW | 78 | | | | | | | | | | |
| 570-56847-54 | TW-2-GW | 124 | | | | | | | | | | |
| 570-56847-55 | TW-3-GW | 83 | | | | | | | | | | |
| 570-56847-56 | SB-1-GW | 125 | | | | | | | | | | |
| 570-56847-57 | SB-2-GW | 120 | | | | | | | | | | |
| 570-56847-58 | SB-3-GW | 129 | | | | | | | | | | |
| 570-56847-59 | SB-4-GW | 130 | | | | | | | | | | |
| LCS 570-144561/2-A | Lab Control Sample | 112 | | | | | | | | | | |
| LCS 570-144883/2-A | Lab Control Sample | 85 | | | | | | | | | | |
| LCS 570-144982/2-A | Lab Control Sample | 116 | | | | | | | | | | |
| LCSD 570-144561/3-A | Lab Control Sample Dup | 113 | | | | | | | | | | |
| LCSD 570-144883/3-A | Lab Control Sample Dup | 71 | | | | | | | | | | |
| LCSD 570-144982/3-A | Lab Control Sample Dup | 116 | | | | | | | | | | |
| MB 570-144561/1-A | Method Blank | 110 | | | | | | | | | | |
| MB 570-144883/1-A | Method Blank | 85 | | | | | | | | | | |
| MB 570-144982/1-A | Method Blank | 113 | | | | | | | | | | |

**Surrogate Legend**
OTCSN = n-Octacosane (Surr)

## Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO) with Silica Gel Cleanup

**Matrix: Water**
**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OTCSN1 | NDA1 | | | | | | | | | |
| Lab Sample ID | Client Sample ID | (53-151) | (0-1) | | | | | | | | | |
| LCS 570-144734/2-B | Lab Control Sample | 119 | 0 | | | | | | | | | |
| LCS 570-144922/2-B | Lab Control Sample | 110 | 0 | | | | | | | | | |
| LCS 570-145218/2-B | Lab Control Sample | 119 | 0.7 | | | | | | | | | |
| LCSD 570-144734/3-B | Lab Control Sample Dup | 108 | 0 | | | | | | | | | |
| LCSD 570-144922/3-B | Lab Control Sample Dup | 110 | 0 | | | | | | | | | |
| LCSD 570-145218/3-B | Lab Control Sample Dup | 118 | 0.7 | | | | | | | | | |
| MB 570-144734/1-B | Method Blank | 115 | 0 | | | | | | | | | |
| MB 570-144922/1-B | Method Blank | 105 | 0 | | | | | | | | | |
| MB 570-145218/1-B | Method Blank | 113 | 0 | | | | | | | | | |

**Surrogate Legend**
OTCSN = n-Octacosane (Surr)
NDA = n-Decanoic Acid (Surr)

## Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO) with Silica Gel Cleanup

**Matrix: Water**
**Prep Type: Silica Gel Cleanup**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OTCSN1 | NDA1 | | | | | | | | | |
| Lab Sample ID | Client Sample ID | (53-151) | (0-1) | | | | | | | | | |
| 570-56847-53 | TW-1-GW | 92 | 0 | | | | | | | | | |
| 570-56847-54 | TW-2-GW | 135 | 0 | | | | | | | | | |
| 570-56847-55 | TW-3-GW | 57 | 0 | | | | | | | | | |
| 570-56847-56 | SB-1-GW | 143 | 0 | | | | | | | | | |
| 570-56847-57 | SB-2-GW | 136 | 0 | | | | | | | | | |
| 570-56847-58 | SB-3-GW | 134 | 0 | | | | | | | | | |

## Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO) with Silica Gel Cleanup (Continued)

**Matrix: Water** — **Prep Type: Silica Gel Cleanup**

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| | | OTCSN1 | NDA1 |
| Lab Sample ID | Client Sample ID | (53-151) | (0-1) |
| 570-56847-59 | SB-4-GW | 132 | 0 |

**Surrogate Legend**

OTCSN = n-Octacosane (Surr)

NDA = n-Decanoic Acid (Surr)

## Method: 8081A - Organochlorine Pesticides (GC)

**Matrix: Solid** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| | | TCX1 | DCB1 |
| Lab Sample ID | Client Sample ID | (38-148) | (37-151) |
| 570-56847-28 | SSD-19-1.0 | 50 | 55 |
| 570-56847-29 | SSD-19-2.0 | 59 | 61 |
| 570-56847-30 | SSD-19-3.0 | 85 | 88 |
| 570-56847-33 | SSD-26-3.0 | 71 | 82 |
| 570-56847-38 | SSD-28-3.0 | 83 | 82 |
| 570-56847-39 | SSD-28-3.5 | 78 | 77 |
| 570-56847-40 | SSD-31-3.0 | 80 | 87 |
| 570-56847-41 | SSD-31-3.5 | 96 | 146 |
| 570-56847-44 | SSD-30-3.0 | 46 | 58 |
| 570-56847-45 | SSD-30-3.5 | 51 | 70 |
| 570-56847-45 MS | SSD-30-3.5 | 70 | 93 |
| 570-56847-45 MSD | SSD-30-3.5 | 67 | 92 |
| LCS 570-144549/2-A | Lab Control Sample | 91 | 91 |
| LCSD 570-144549/3-A | Lab Control Sample Dup | 92 | 93 |
| MB 570-144549/1-A | Method Blank | 95 | 96 |

**Surrogate Legend**

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Matrix: Solid** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| | | TCX1 | DCB1 |
| Lab Sample ID | Client Sample ID | (25-126) | (20-155) |
| 570-56782-B-42-A MS | Matrix Spike | 76 | 93 |
| 570-56782-B-42-B MSD | Matrix Spike Duplicate | 67 | 93 |
| 570-56847-28 | SSD-19-1.0 | 71 | 112 |
| 570-56847-29 | SSD-19-2.0 | 61 | 77 |
| 570-56847-30 | SSD-19-3.0 | 69 | 82 |
| 570-56847-35 | SSD-28-0.0 | 70 | 79 |
| 570-56847-36 | SSD-28-0.5 | 66 | 112 |
| 570-56847-37 | SSD-28-1.0 | 55 | 53 |
| 570-56847-46 | SSD-27-0.0 | 65 | 87 |
| 570-56847-47 | SSD-27-0.5 | 57 | 81 |
| 570-56847-48 | SSD-27-1.0 | 45 | 74 |
| LCS 570-144979/2-A | Lab Control Sample | 72 | 77 |
| LCSD 570-144979/3-A | Lab Control Sample Dup | 81 | 93 |

# Surrogate Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID | Client Sample ID | TCX1 (25-126) | DCB1 (20-155) | | | | | | | | |
| MB 570-144979/1-A | Method Blank | 76 | 92 | | | | | | | | |

**Surrogate Legend**

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 570-144481/10**
**Matrix: Solid**
**Analysis Batch: 144481**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.0010 | 0.00029 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.0010 | 0.00023 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0020 | 0.00054 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.010 | 0.00046 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.0010 | 0.00046 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 1,1-Dichloroethane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 1,1-Dichloroethene | ND | | 0.0010 | 0.00027 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 1,1-Dichloropropene | ND | | 0.0020 | 0.00039 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0020 | 0.0010 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0020 | 0.00042 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0020 | 0.00041 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.010 | 0.0068 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 1,2-Dibromoethane | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 1,2-Dichloroethane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 1,2-Dichloropropane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 1,3-Dichloropropane | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.0010 | 0.00031 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 2,2-Dichloropropane | ND | | 0.0050 | 0.00027 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 2-Butanone | ND | | 0.020 | 0.0045 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 2-Chlorotoluene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 2-Hexanone | ND | | 0.020 | 0.0031 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 4-Chlorotoluene | ND | | 0.0010 | 0.00024 | mg/Kg | | | 04/20/21 13:12 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.020 | 0.0029 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Acetone | ND | | 0.020 | 0.0098 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Benzene | ND | | 0.0010 | 0.00026 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Bromobenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Bromochloromethane | ND | | 0.0020 | 0.00044 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Bromodichloromethane | ND | | 0.0010 | 0.00016 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Bromoform | ND | | 0.0050 | 0.0013 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Bromomethane | ND | | 0.020 | 0.0066 | mg/Kg | | | 04/20/21 13:12 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.0010 | 0.00034 | mg/Kg | | | 04/20/21 13:12 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.0010 | 0.00035 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Carbon disulfide | ND | | 0.010 | 0.00040 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Carbon tetrachloride | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Chlorobenzene | ND | | 0.0010 | 0.00027 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Chloroethane | ND | | 0.0020 | 0.0015 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Chloroform | ND | | 0.0010 | 0.00059 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Chloromethane | ND | | 0.020 | 0.0015 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Dibromochloromethane | ND | | 0.0020 | 0.00027 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Dibromomethane | ND | | 0.0010 | 0.00031 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Dichlorodifluoromethane | ND | | 0.0020 | 0.00045 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Ethylbenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Isopropylbenzene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Methylene Chloride | ND | | 0.010 | 0.0031 | mg/Kg | | | 04/20/21 13:12 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-144481/10**
**Matrix: Solid**
**Analysis Batch: 144481**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0020 | 0.00019 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Naphthalene | ND | | 0.010 | 0.0052 | mg/Kg | | | 04/20/21 13:12 | 1 |
| n-Butylbenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/20/21 13:12 | 1 |
| N-Propylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/20/21 13:12 | 1 |
| o-Xylene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/20/21 13:12 | 1 |
| m,p-Xylene | ND | | 0.0020 | 0.00047 | mg/Kg | | | 04/20/21 13:12 | 1 |
| p-Isopropyltoluene | ND | | 0.0010 | 0.00070 | mg/Kg | | | 04/20/21 13:12 | 1 |
| sec-Butylbenzene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Styrene | ND | | 0.0010 | 0.00070 | mg/Kg | | | 04/20/21 13:12 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/20/21 13:12 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0020 | 0.00028 | mg/Kg | | | 04/20/21 13:12 | 1 |
| tert-Butylbenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Tetrachloroethene | ND | | 0.0010 | 0.00022 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Toluene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Trichloroethene | ND | | 0.0020 | 0.00039 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Trichlorofluoromethane | ND | | 0.010 | 0.00027 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Vinyl acetate | ND | | 0.010 | 0.0039 | mg/Kg | | | 04/20/21 13:12 | 1 |
| Vinyl chloride | ND | | 0.0010 | 0.00038 | mg/Kg | | | 04/20/21 13:12 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *109* | | *80 - 142* | | *04/20/21 13:12* | *1* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *80 - 120* | | *04/20/21 13:12* | *1* |
| *Dibromofluoromethane (Surr)* | *104* | | *80 - 123* | | *04/20/21 13:12* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | | *04/20/21 13:12* | *1* |

**Lab Sample ID: LCS 570-144481/7**
**Matrix: Solid**
**Analysis Batch: 144481**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | | | 0.0500 | 0.0480 | | mg/Kg | | 96 | 67 - 122 | | |
| 1,2-Dibromoethane | | | 0.0500 | 0.0516 | | mg/Kg | | 103 | 80 - 123 | | |
| 1,2-Dichlorobenzene | | | 0.0500 | 0.0489 | | mg/Kg | | 98 | 80 - 120 | | |
| 1,2-Dichloroethane | | | 0.0500 | 0.0492 | | mg/Kg | | 98 | 80 - 125 | | |
| Benzene | | | 0.0500 | 0.0492 | | mg/Kg | | 98 | 79 - 120 | | |
| Carbon tetrachloride | | | 0.0500 | 0.0511 | | mg/Kg | | 102 | 69 - 132 | | |
| Chlorobenzene | | | 0.0500 | 0.0502 | | mg/Kg | | 100 | 80 - 120 | | |
| Ethylbenzene | | | 0.0500 | 0.0499 | | mg/Kg | | 100 | 80 - 120 | | |
| Methyl-t-Butyl Ether (MTBE) | | | 0.0500 | 0.0472 | | mg/Kg | | 94 | 68 - 120 | | |
| o-Xylene | | | 0.0500 | 0.0520 | | mg/Kg | | 104 | 79 - 120 | | |
| m,p-Xylene | | | 0.100 | 0.101 | | mg/Kg | | 101 | 79 - 120 | | |
| Toluene | | | 0.0500 | 0.0490 | | mg/Kg | | 98 | 80 - 120 | | |
| Trichloroethene | | | 0.0500 | 0.0488 | | mg/Kg | | 98 | 80 - 121 | | |
| Vinyl chloride | | | 0.0500 | 0.0504 | | mg/Kg | | 101 | 66 - 128 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *80 - 142* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *80 - 120* |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 570-144481/7**
**Matrix: Solid**
**Analysis Batch: 144481**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *103* | | *80 - 123* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* |

**Lab Sample ID: LCSD 570-144481/8**
**Matrix: Solid**
**Analysis Batch: 144481**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | | | 0.0500 | 0.0492 | | mg/Kg | | 98 | 67 - 122 | 2 | 20 |
| 1,2-Dibromoethane | | | 0.0500 | 0.0526 | | mg/Kg | | 105 | 80 - 123 | 2 | 20 |
| 1,2-Dichlorobenzene | | | 0.0500 | 0.0514 | | mg/Kg | | 103 | 80 - 120 | 5 | 20 |
| 1,2-Dichloroethane | | | 0.0500 | 0.0509 | | mg/Kg | | 102 | 80 - 125 | 3 | 20 |
| Benzene | | | 0.0500 | 0.0512 | | mg/Kg | | 102 | 79 - 120 | 4 | 20 |
| Carbon tetrachloride | | | 0.0500 | 0.0520 | | mg/Kg | | 104 | 69 - 132 | 2 | 20 |
| Chlorobenzene | | | 0.0500 | 0.0520 | | mg/Kg | | 104 | 80 - 120 | 4 | 20 |
| Ethylbenzene | | | 0.0500 | 0.0516 | | mg/Kg | | 103 | 80 - 120 | 3 | 20 |
| Methyl-t-Butyl Ether (MTBE) | | | 0.0500 | 0.0490 | | mg/Kg | | 98 | 68 - 120 | 4 | 20 |
| o-Xylene | | | 0.0500 | 0.0540 | | mg/Kg | | 108 | 79 - 120 | 4 | 20 |
| m,p-Xylene | | | 0.100 | 0.105 | | mg/Kg | | 105 | 79 - 120 | 3 | 20 |
| Toluene | | | 0.0500 | 0.0505 | | mg/Kg | | 101 | 80 - 120 | 3 | 20 |
| Trichloroethene | | | 0.0500 | 0.0519 | | mg/Kg | | 104 | 80 - 121 | 6 | 20 |
| Vinyl chloride | | | 0.0500 | 0.0522 | | mg/Kg | | 104 | 66 - 128 | 3 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *80 - 142* |
| *4-Bromofluorobenzene (Surr)* | *107* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *102* | | *80 - 123* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* |

**Lab Sample ID: MB 570-144488/9**
**Matrix: Solid**
**Analysis Batch: 144488**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.0010 | 0.00029 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.0010 | 0.00023 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0020 | 0.00054 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.010 | 0.00046 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.0010 | 0.00046 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 1,1-Dichloroethane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 1,1-Dichloroethene | ND | | 0.0010 | 0.00027 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 1,1-Dichloropropene | ND | | 0.0020 | 0.00039 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0020 | 0.0010 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0020 | 0.00042 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0020 | 0.00041 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.010 | 0.0068 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 1,2-Dibromoethane | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/20/21 11:18 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-144488/9**
**Matrix: Solid**
**Analysis Batch: 144488**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 1,2-Dichloroethane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 1,2-Dichloropropane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 1,3-Dichloropropane | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.0010 | 0.00031 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 2,2-Dichloropropane | ND | | 0.0050 | 0.00027 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 2-Butanone | ND | | 0.020 | 0.0045 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 2-Chlorotoluene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 2-Hexanone | ND | | 0.020 | 0.0031 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 4-Chlorotoluene | ND | | 0.0010 | 0.00024 | mg/Kg | | | 04/20/21 11:18 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.020 | 0.0029 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Acetone | ND | | 0.020 | 0.0098 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Benzene | ND | | 0.0010 | 0.00026 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Bromobenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Bromochloromethane | ND | | 0.0020 | 0.00044 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Bromodichloromethane | ND | | 0.0010 | 0.00016 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Bromoform | ND | | 0.0050 | 0.0013 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Bromomethane | ND | | 0.020 | 0.0066 | mg/Kg | | | 04/20/21 11:18 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.0010 | 0.00034 | mg/Kg | | | 04/20/21 11:18 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.0010 | 0.00035 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Carbon disulfide | ND | | 0.010 | 0.00040 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Carbon tetrachloride | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Chlorobenzene | ND | | 0.0010 | 0.00027 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Chloroethane | ND | | 0.0020 | 0.0015 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Chloroform | ND | | 0.0010 | 0.00059 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Chloromethane | ND | | 0.020 | 0.0015 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Dibromochloromethane | ND | | 0.0020 | 0.00027 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Dibromomethane | ND | | 0.0010 | 0.00031 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Dichlorodifluoromethane | ND | | 0.0020 | 0.00045 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Ethylbenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Isopropylbenzene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Methylene Chloride | ND | | 0.010 | 0.0031 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0020 | 0.00019 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Naphthalene | ND | | 0.010 | 0.0052 | mg/Kg | | | 04/20/21 11:18 | 1 |
| n-Butylbenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/20/21 11:18 | 1 |
| N-Propylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/20/21 11:18 | 1 |
| o-Xylene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/20/21 11:18 | 1 |
| m,p-Xylene | ND | | 0.0020 | 0.00047 | mg/Kg | | | 04/20/21 11:18 | 1 |
| p-Isopropyltoluene | ND | | 0.0010 | 0.00070 | mg/Kg | | | 04/20/21 11:18 | 1 |
| sec-Butylbenzene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Styrene | ND | | 0.0010 | 0.00070 | mg/Kg | | | 04/20/21 11:18 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/20/21 11:18 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0020 | 0.00028 | mg/Kg | | | 04/20/21 11:18 | 1 |
| tert-Butylbenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Tetrachloroethene | ND | | 0.0010 | 0.00022 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Toluene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Trichloroethene | ND | | 0.0020 | 0.00039 | mg/Kg | | | 04/20/21 11:18 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-144488/9**
**Matrix: Solid**
**Analysis Batch: 144488**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Trichlorofluoromethane | ND | | 0.010 | 0.00027 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Vinyl acetate | ND | | 0.010 | 0.0039 | mg/Kg | | | 04/20/21 11:18 | 1 |
| Vinyl chloride | ND | | 0.0010 | 0.00038 | mg/Kg | | | 04/20/21 11:18 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *80 - 142* | | *04/20/21 11:18* | *1* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *80 - 120* | | *04/20/21 11:18* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *80 - 123* | | *04/20/21 11:18* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | | *04/20/21 11:18* | *1* |

**Lab Sample ID: LCS 570-144488/4**
**Matrix: Solid**
**Analysis Batch: 144488**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.0500 | 0.0442 | | mg/Kg | | 88 | 67 - 122 |
| 1,2-Dibromoethane | 0.0500 | 0.0457 | | mg/Kg | | 91 | 80 - 123 |
| 1,2-Dichlorobenzene | 0.0500 | 0.0471 | | mg/Kg | | 94 | 80 - 120 |
| 1,2-Dichloroethane | 0.0500 | 0.0469 | | mg/Kg | | 94 | 80 - 125 |
| Benzene | 0.0500 | 0.0463 | | mg/Kg | | 93 | 79 - 120 |
| Carbon tetrachloride | 0.0500 | 0.0455 | | mg/Kg | | 91 | 69 - 132 |
| Chlorobenzene | 0.0500 | 0.0471 | | mg/Kg | | 94 | 80 - 120 |
| Ethylbenzene | 0.0500 | 0.0467 | | mg/Kg | | 93 | 80 - 120 |
| Methyl-t-Butyl Ether (MTBE) | 0.0500 | 0.0426 | | mg/Kg | | 85 | 68 - 120 |
| o-Xylene | 0.0500 | 0.0466 | | mg/Kg | | 93 | 79 - 120 |
| m,p-Xylene | 0.100 | 0.0916 | | mg/Kg | | 92 | 79 - 120 |
| Toluene | 0.0500 | 0.0480 | | mg/Kg | | 96 | 80 - 120 |
| Trichloroethene | 0.0500 | 0.0473 | | mg/Kg | | 95 | 80 - 121 |
| Vinyl chloride | 0.0500 | 0.0504 | | mg/Kg | | 101 | 66 - 128 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *80 - 142* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *100* | | *80 - 123* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* |

**Lab Sample ID: LCSD 570-144488/5**
**Matrix: Solid**
**Analysis Batch: 144488**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.0500 | 0.0437 | | mg/Kg | | 87 | 67 - 122 | 1 | 20 |
| 1,2-Dibromoethane | 0.0500 | 0.0476 | | mg/Kg | | 95 | 80 - 123 | 4 | 20 |
| 1,2-Dichlorobenzene | 0.0500 | 0.0478 | | mg/Kg | | 96 | 80 - 120 | 1 | 20 |
| 1,2-Dichloroethane | 0.0500 | 0.0477 | | mg/Kg | | 95 | 80 - 125 | 2 | 20 |
| Benzene | 0.0500 | 0.0467 | | mg/Kg | | 93 | 79 - 120 | 1 | 20 |
| Carbon tetrachloride | 0.0500 | 0.0456 | | mg/Kg | | 91 | 69 - 132 | 0 | 20 |
| Chlorobenzene | 0.0500 | 0.0483 | | mg/Kg | | 97 | 80 - 120 | 2 | 20 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 570-144488/5**
**Matrix: Solid**
**Analysis Batch: 144488**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | | | 0.0500 | 0.0477 | | mg/Kg | | 95 | 80 - 120 | 2 | 20 |
| Methyl-t-Butyl Ether (MTBE) | | | 0.0500 | 0.0432 | | mg/Kg | | 86 | 68 - 120 | 1 | 20 |
| o-Xylene | | | 0.0500 | 0.0473 | | mg/Kg | | 95 | 79 - 120 | 2 | 20 |
| m,p-Xylene | | | 0.100 | 0.0943 | | mg/Kg | | 94 | 79 - 120 | 3 | 20 |
| Toluene | | | 0.0500 | 0.0483 | | mg/Kg | | 97 | 80 - 120 | 1 | 20 |
| Trichloroethene | | | 0.0500 | 0.0486 | | mg/Kg | | 97 | 80 - 121 | 3 | 20 |
| Vinyl chloride | | | 0.0500 | 0.0478 | | mg/Kg | | 96 | 66 - 128 | 5 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *80 - 142* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *100* | | *80 - 123* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* |

**Lab Sample ID: MB 570-144777/7**
**Matrix: Solid**
**Analysis Batch: 144777**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.0010 | 0.00029 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.0010 | 0.00023 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0020 | 0.00054 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.010 | 0.00046 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.0010 | 0.00046 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 1,1-Dichloroethane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 1,1-Dichloroethene | ND | | 0.0010 | 0.00027 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 1,1-Dichloropropene | ND | | 0.0020 | 0.00039 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0020 | 0.0010 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0020 | 0.00042 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0020 | 0.00041 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.010 | 0.0068 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 1,2-Dibromoethane | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 1,2-Dichloroethane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 1,2-Dichloropropane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 1,3-Dichloropropane | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.0010 | 0.00031 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 2,2-Dichloropropane | ND | | 0.0050 | 0.00027 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 2-Butanone | ND | | 0.020 | 0.0045 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 2-Chlorotoluene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 2-Hexanone | ND | | 0.020 | 0.0031 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 4-Chlorotoluene | ND | | 0.0010 | 0.00024 | mg/Kg | | | 04/21/21 10:57 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.020 | 0.0029 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Acetone | ND | | 0.020 | 0.0098 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Benzene | ND | | 0.0010 | 0.00026 | mg/Kg | | | 04/21/21 10:57 | 1 |

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145 Oakland Center Street

Job ID: 570-56847-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-144777/7**
**Matrix: Solid**
**Analysis Batch: 144777**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Bromochloromethane | ND | | 0.0020 | 0.00044 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Bromodichloromethane | ND | | 0.0010 | 0.00016 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Bromoform | ND | | 0.0050 | 0.0013 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Bromomethane | ND | | 0.020 | 0.0066 | mg/Kg | | | 04/21/21 10:57 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.0010 | 0.00034 | mg/Kg | | | 04/21/21 10:57 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.0010 | 0.00035 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Carbon disulfide | ND | | 0.010 | 0.00040 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Carbon tetrachloride | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Chlorobenzene | ND | | 0.0010 | 0.00027 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Chloroethane | ND | | 0.0020 | 0.0015 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Chloroform | ND | | 0.0010 | 0.00059 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Chloromethane | ND | | 0.020 | 0.0015 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Dibromochloromethane | ND | | 0.0020 | 0.00027 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Dibromomethane | ND | | 0.0010 | 0.00031 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Dichlorodifluoromethane | ND | | 0.0020 | 0.00045 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Ethylbenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Isopropylbenzene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Methylene Chloride | ND | | 0.010 | 0.0031 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0020 | 0.00019 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Naphthalene | ND | | 0.010 | 0.0052 | mg/Kg | | | 04/21/21 10:57 | 1 |
| n-Butylbenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/21/21 10:57 | 1 |
| N-Propylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/21/21 10:57 | 1 |
| o-Xylene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/21/21 10:57 | 1 |
| m,p-Xylene | ND | | 0.0020 | 0.00047 | mg/Kg | | | 04/21/21 10:57 | 1 |
| p-Isopropyltoluene | ND | | 0.0010 | 0.00070 | mg/Kg | | | 04/21/21 10:57 | 1 |
| sec-Butylbenzene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Styrene | ND | | 0.0010 | 0.00070 | mg/Kg | | | 04/21/21 10:57 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/21/21 10:57 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0020 | 0.00028 | mg/Kg | | | 04/21/21 10:57 | 1 |
| tert-Butylbenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Tetrachloroethene | ND | | 0.0010 | 0.00022 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Toluene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Trichloroethene | ND | | 0.0020 | 0.00039 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Trichlorofluoromethane | ND | | 0.010 | 0.00027 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Vinyl acetate | ND | | 0.010 | 0.0039 | mg/Kg | | | 04/21/21 10:57 | 1 |
| Vinyl chloride | ND | | 0.0010 | 0.00038 | mg/Kg | | | 04/21/21 10:57 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *80 - 142* | | *04/21/21 10:57* | *1* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *80 - 120* | | *04/21/21 10:57* | *1* |
| *Dibromofluoromethane (Surr)* | *100* | | *80 - 123* | | *04/21/21 10:57* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* | | *04/21/21 10:57* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 570-144777/4**
**Matrix: Solid**
**Analysis Batch: 144777**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | | | 0.0500 | 0.0500 | | mg/Kg | | 100 | 67 - 122 | | |
| 1,2-Dibromoethane | | | 0.0500 | 0.0515 | | mg/Kg | | 103 | 80 - 123 | | |
| 1,2-Dichlorobenzene | | | 0.0500 | 0.0510 | | mg/Kg | | 102 | 80 - 120 | | |
| 1,2-Dichloroethane | | | 0.0500 | 0.0508 | | mg/Kg | | 102 | 80 - 125 | | |
| Benzene | | | 0.0500 | 0.0508 | | mg/Kg | | 102 | 79 - 120 | | |
| Carbon tetrachloride | | | 0.0500 | 0.0515 | | mg/Kg | | 103 | 69 - 132 | | |
| Chlorobenzene | | | 0.0500 | 0.0514 | | mg/Kg | | 103 | 80 - 120 | | |
| Ethylbenzene | | | 0.0500 | 0.0518 | | mg/Kg | | 104 | 80 - 120 | | |
| Methyl-t-Butyl Ether (MTBE) | | | 0.0500 | 0.0496 | | mg/Kg | | 99 | 68 - 120 | | |
| o-Xylene | | | 0.0500 | 0.0535 | | mg/Kg | | 107 | 79 - 120 | | |
| m,p-Xylene | | | 0.100 | 0.105 | | mg/Kg | | 105 | 79 - 120 | | |
| Toluene | | | 0.0500 | 0.0503 | | mg/Kg | | 101 | 80 - 120 | | |
| Trichloroethene | | | 0.0500 | 0.0495 | | mg/Kg | | 99 | 80 - 121 | | |
| Vinyl chloride | | | 0.0500 | 0.0509 | | mg/Kg | | 102 | 66 - 128 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *80 - 142* |
| *4-Bromofluorobenzene (Surr)* | *105* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *104* | | *80 - 123* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* |

**Lab Sample ID: LCSD 570-144777/5**
**Matrix: Solid**
**Analysis Batch: 144777**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | | | 0.0500 | 0.0488 | | mg/Kg | | 98 | 67 - 122 | 2 | 20 |
| 1,2-Dibromoethane | | | 0.0500 | 0.0503 | | mg/Kg | | 101 | 80 - 123 | 2 | 20 |
| 1,2-Dichlorobenzene | | | 0.0500 | 0.0506 | | mg/Kg | | 101 | 80 - 120 | 1 | 20 |
| 1,2-Dichloroethane | | | 0.0500 | 0.0506 | | mg/Kg | | 101 | 80 - 125 | 0 | 20 |
| Benzene | | | 0.0500 | 0.0511 | | mg/Kg | | 102 | 79 - 120 | 1 | 20 |
| Carbon tetrachloride | | | 0.0500 | 0.0516 | | mg/Kg | | 103 | 69 - 132 | 0 | 20 |
| Chlorobenzene | | | 0.0500 | 0.0501 | | mg/Kg | | 100 | 80 - 120 | 3 | 20 |
| Ethylbenzene | | | 0.0500 | 0.0502 | | mg/Kg | | 100 | 80 - 120 | 3 | 20 |
| Methyl-t-Butyl Ether (MTBE) | | | 0.0500 | 0.0482 | | mg/Kg | | 96 | 68 - 120 | 3 | 20 |
| o-Xylene | | | 0.0500 | 0.0523 | | mg/Kg | | 105 | 79 - 120 | 2 | 20 |
| m,p-Xylene | | | 0.100 | 0.101 | | mg/Kg | | 101 | 79 - 120 | 4 | 20 |
| Toluene | | | 0.0500 | 0.0514 | | mg/Kg | | 103 | 80 - 120 | 2 | 20 |
| Trichloroethene | | | 0.0500 | 0.0491 | | mg/Kg | | 98 | 80 - 121 | 1 | 20 |
| Vinyl chloride | | | 0.0500 | 0.0514 | | mg/Kg | | 103 | 66 - 128 | 1 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *80 - 142* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *103* | | *80 - 123* |
| *Toluene-d8 (Surr)* | *103* | | *80 - 120* |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-144782/7**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.0010 | 0.00029 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.0010 | 0.00023 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0020 | 0.00054 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.010 | 0.00046 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.0010 | 0.00046 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,1-Dichloroethane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,1-Dichloroethene | ND | | 0.0010 | 0.00027 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,1-Dichloropropene | ND | | 0.0020 | 0.00039 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.0020 | 0.0010 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.0020 | 0.00042 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.0020 | 0.00041 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.010 | 0.0068 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2-Dibromoethane | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2-Dichloroethane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,2-Dichloropropane | ND | | 0.0010 | 0.00028 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,3-Dichloropropane | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.0010 | 0.00031 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 2,2-Dichloropropane | ND | | 0.0050 | 0.00027 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 2-Butanone | ND | | 0.020 | 0.0045 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 2-Chlorotoluene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 2-Hexanone | ND | | 0.020 | 0.0031 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 4-Chlorotoluene | ND | | 0.0010 | 0.00024 | mg/Kg | | | 04/21/21 10:31 | 1 |
| 4-Methyl-2-pentanone | ND | | 0.020 | 0.0029 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Acetone | ND | | 0.020 | 0.0098 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Benzene | ND | | 0.0010 | 0.00026 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Bromobenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Bromochloromethane | ND | | 0.0020 | 0.00044 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Bromodichloromethane | ND | | 0.0010 | 0.00016 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Bromoform | ND | | 0.0050 | 0.0013 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Bromomethane | ND | | 0.020 | 0.0066 | mg/Kg | | | 04/21/21 10:31 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.0010 | 0.00034 | mg/Kg | | | 04/21/21 10:31 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.0010 | 0.00035 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Carbon disulfide | ND | | 0.010 | 0.00040 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Carbon tetrachloride | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Chlorobenzene | ND | | 0.0010 | 0.00027 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Chloroethane | ND | | 0.0020 | 0.0015 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Chloroform | ND | | 0.0010 | 0.00059 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Chloromethane | ND | | 0.020 | 0.0015 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Dibromochloromethane | ND | | 0.0020 | 0.00027 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Dibromomethane | ND | | 0.0010 | 0.00031 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Dichlorodifluoromethane | ND | | 0.0020 | 0.00045 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Ethylbenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Isopropylbenzene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Methylene Chloride | ND | | 0.010 | 0.0031 | mg/Kg | | | 04/21/21 10:31 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-144782/7**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0020 | 0.00019 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Naphthalene | ND | | 0.010 | 0.0052 | mg/Kg | | | 04/21/21 10:31 | 1 |
| n-Butylbenzene | ND | | 0.0010 | 0.00021 | mg/Kg | | | 04/21/21 10:31 | 1 |
| N-Propylbenzene | ND | | 0.0020 | 0.00060 | mg/Kg | | | 04/21/21 10:31 | 1 |
| o-Xylene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/21/21 10:31 | 1 |
| m,p-Xylene | ND | | 0.0020 | 0.00047 | mg/Kg | | | 04/21/21 10:31 | 1 |
| p-Isopropyltoluene | ND | | 0.0010 | 0.00070 | mg/Kg | | | 04/21/21 10:31 | 1 |
| sec-Butylbenzene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Styrene | ND | | 0.0010 | 0.00070 | mg/Kg | | | 04/21/21 10:31 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.0010 | 0.00030 | mg/Kg | | | 04/21/21 10:31 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.0020 | 0.00028 | mg/Kg | | | 04/21/21 10:31 | 1 |
| tert-Butylbenzene | ND | | 0.0010 | 0.00025 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Tetrachloroethene | ND | | 0.0010 | 0.00022 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Toluene | ND | | 0.0010 | 0.00060 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Trichloroethene | ND | | 0.0020 | 0.00039 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Trichlorofluoromethane | ND | | 0.010 | 0.00027 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Vinyl acetate | ND | | 0.010 | 0.0039 | mg/Kg | | | 04/21/21 10:31 | 1 |
| Vinyl chloride | ND | | 0.0010 | 0.00038 | mg/Kg | | | 04/21/21 10:31 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *80 - 142* | | *04/21/21 10:31* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* | | *04/21/21 10:31* | *1* |
| *Dibromofluoromethane (Surr)* | *95* | | *80 - 123* | | *04/21/21 10:31* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | | *04/21/21 10:31* | *1* |

**Lab Sample ID: MB 570-144782/8**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.050 | 0.015 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,1,1-Trichloroethane | ND | | 0.050 | 0.012 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.10 | 0.027 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | 0.023 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,1,2-Trichloroethane | ND | | 0.050 | 0.023 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,1-Dichloroethane | ND | | 0.050 | 0.014 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,1-Dichloroethene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,1-Dichloropropene | ND | | 0.10 | 0.019 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2,3-Trichlorobenzene | ND | | 0.10 | 0.050 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2,3-Trichloropropane | ND | | 0.10 | 0.021 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2,4-Trichlorobenzene | ND | | 0.10 | 0.021 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2,4-Trimethylbenzene | ND | | 0.10 | 0.030 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.50 | 0.34 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2-Dibromoethane | ND | | 0.050 | 0.010 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2-Dichlorobenzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2-Dichloroethane | ND | | 0.050 | 0.014 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,2-Dichloropropane | ND | | 0.050 | 0.014 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,3,5-Trimethylbenzene | ND | | 0.10 | 0.030 | mg/Kg | | | 04/21/21 10:57 | 50 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-144782/8**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,3-Dichloropropane | ND | | 0.050 | 0.015 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.015 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 2,2-Dichloropropane | ND | | 0.25 | 0.014 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 2-Butanone | ND | | 1.0 | 0.23 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 2-Chlorotoluene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 2-Hexanone | ND | | 1.0 | 0.15 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 4-Chlorotoluene | ND | | 0.050 | 0.012 | mg/Kg | | | 04/21/21 10:57 | 50 |
| 4-Methyl-2-pentanone | ND | | 1.0 | 0.15 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Acetone | ND | | 1.0 | 0.49 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Benzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Bromobenzene | ND | | 0.050 | 0.010 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Bromochloromethane | ND | | 0.10 | 0.022 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Bromodichloromethane | ND | | 0.050 | 0.0080 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Bromoform | ND | | 0.25 | 0.066 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Bromomethane | ND | | 1.0 | 0.33 | mg/Kg | | | 04/21/21 10:57 | 50 |
| cis-1,2-Dichloroethene | ND | | 0.050 | 0.017 | mg/Kg | | | 04/21/21 10:57 | 50 |
| cis-1,3-Dichloropropene | ND | | 0.050 | 0.017 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Carbon disulfide | ND | | 0.50 | 0.020 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Carbon tetrachloride | ND | | 0.050 | 0.015 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Chlorobenzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Chloroethane | ND | | 0.10 | 0.075 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Chloroform | ND | | 0.050 | 0.029 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Chloromethane | ND | | 1.0 | 0.077 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Dibromochloromethane | ND | | 0.10 | 0.014 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Dibromomethane | ND | | 0.050 | 0.015 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Dichlorodifluoromethane | ND | | 0.10 | 0.023 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Ethylbenzene | ND | | 0.050 | 0.010 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Isopropylbenzene | ND | | 0.050 | 0.030 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Methylene Chloride | ND | | 0.50 | 0.16 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.10 | 0.0094 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Naphthalene | ND | | 0.50 | 0.26 | mg/Kg | | | 04/21/21 10:57 | 50 |
| n-Butylbenzene | ND | | 0.050 | 0.011 | mg/Kg | | | 04/21/21 10:57 | 50 |
| N-Propylbenzene | ND | | 0.10 | 0.030 | mg/Kg | | | 04/21/21 10:57 | 50 |
| o-Xylene | ND | | 0.050 | 0.030 | mg/Kg | | | 04/21/21 10:57 | 50 |
| m,p-Xylene | ND | | 0.10 | 0.024 | mg/Kg | | | 04/21/21 10:57 | 50 |
| p-Isopropyltoluene | ND | | 0.050 | 0.035 | mg/Kg | | | 04/21/21 10:57 | 50 |
| sec-Butylbenzene | ND | | 0.050 | 0.030 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Styrene | ND | | 0.050 | 0.035 | mg/Kg | | | 04/21/21 10:57 | 50 |
| trans-1,2-Dichloroethene | ND | | 0.050 | 0.015 | mg/Kg | | | 04/21/21 10:57 | 50 |
| trans-1,3-Dichloropropene | ND | | 0.10 | 0.014 | mg/Kg | | | 04/21/21 10:57 | 50 |
| tert-Butylbenzene | ND | | 0.050 | 0.013 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Tetrachloroethene | ND | | 0.050 | 0.011 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Toluene | ND | | 0.050 | 0.030 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Trichloroethene | ND | | 0.10 | 0.019 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Trichlorofluoromethane | ND | | 0.50 | 0.014 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Vinyl acetate | ND | | 0.50 | 0.20 | mg/Kg | | | 04/21/21 10:57 | 50 |
| Vinyl chloride | ND | | 0.050 | 0.019 | mg/Kg | | | 04/21/21 10:57 | 50 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-144782/8**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 80 - 142 | | 04/21/21 10:57 | 50 |
| 4-Bromofluorobenzene (Surr) | 94 | | 80 - 120 | | 04/21/21 10:57 | 50 |
| Dibromofluoromethane (Surr) | 93 | | 80 - 123 | | 04/21/21 10:57 | 50 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 | | 04/21/21 10:57 | 50 |

**Lab Sample ID: LCS 570-144782/4**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.0500 | 0.0460 | | mg/Kg | | 92 | 67 - 122 |
| 1,2-Dibromoethane | 0.0500 | 0.0474 | | mg/Kg | | 95 | 80 - 123 |
| 1,2-Dichlorobenzene | 0.0500 | 0.0495 | | mg/Kg | | 99 | 80 - 120 |
| 1,2-Dichloroethane | 0.0500 | 0.0494 | | mg/Kg | | 99 | 80 - 125 |
| Benzene | 0.0500 | 0.0481 | | mg/Kg | | 96 | 79 - 120 |
| Carbon tetrachloride | 0.0500 | 0.0479 | | mg/Kg | | 96 | 69 - 132 |
| Chlorobenzene | 0.0500 | 0.0495 | | mg/Kg | | 99 | 80 - 120 |
| Ethylbenzene | 0.0500 | 0.0492 | | mg/Kg | | 98 | 80 - 120 |
| Methyl-t-Butyl Ether (MTBE) | 0.0500 | 0.0441 | | mg/Kg | | 88 | 68 - 120 |
| o-Xylene | 0.0500 | 0.0490 | | mg/Kg | | 98 | 79 - 120 |
| m,p-Xylene | 0.100 | 0.0973 | | mg/Kg | | 97 | 79 - 120 |
| Toluene | 0.0500 | 0.0495 | | mg/Kg | | 99 | 80 - 120 |
| Trichloroethene | 0.0500 | 0.0490 | | mg/Kg | | 98 | 80 - 121 |
| Vinyl chloride | 0.0500 | 0.0487 | | mg/Kg | | 97 | 66 - 128 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 80 - 142 |
| 4-Bromofluorobenzene (Surr) | 102 | | 80 - 120 |
| Dibromofluoromethane (Surr) | 101 | | 80 - 123 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 |

**Lab Sample ID: LCSD 570-144782/5**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.0500 | 0.0449 | | mg/Kg | | 90 | 67 - 122 | 2 | 20 |
| 1,2-Dibromoethane | 0.0500 | 0.0471 | | mg/Kg | | 94 | 80 - 123 | 1 | 20 |
| 1,2-Dichlorobenzene | 0.0500 | 0.0482 | | mg/Kg | | 96 | 80 - 120 | 3 | 20 |
| 1,2-Dichloroethane | 0.0500 | 0.0482 | | mg/Kg | | 96 | 80 - 125 | 3 | 20 |
| Benzene | 0.0500 | 0.0474 | | mg/Kg | | 95 | 79 - 120 | 2 | 20 |
| Carbon tetrachloride | 0.0500 | 0.0460 | | mg/Kg | | 92 | 69 - 132 | 4 | 20 |
| Chlorobenzene | 0.0500 | 0.0482 | | mg/Kg | | 96 | 80 - 120 | 3 | 20 |
| Ethylbenzene | 0.0500 | 0.0488 | | mg/Kg | | 98 | 80 - 120 | 1 | 20 |
| Methyl-t-Butyl Ether (MTBE) | 0.0500 | 0.0437 | | mg/Kg | | 87 | 68 - 120 | 1 | 20 |
| o-Xylene | 0.0500 | 0.0485 | | mg/Kg | | 97 | 79 - 120 | 1 | 20 |
| m,p-Xylene | 0.100 | 0.0950 | | mg/Kg | | 95 | 79 - 120 | 2 | 20 |
| Toluene | 0.0500 | 0.0491 | | mg/Kg | | 98 | 80 - 120 | 1 | 20 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 570-144782/5**
**Matrix: Solid**
**Analysis Batch: 144782**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | | | 0.0500 | 0.0485 | | mg/Kg | | 97 | 80 - 121 | 1 | 20 |
| Vinyl chloride | | | 0.0500 | 0.0474 | | mg/Kg | | 95 | 66 - 128 | 3 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *80 - 142* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *99* | | *80 - 123* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* |

**Lab Sample ID: MB 570-145291/8**
**Matrix: Water**
**Analysis Batch: 145291**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.26 | ug/L | | | 04/22/21 21:53 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | 0.27 | ug/L | | | 04/22/21 21:53 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.19 | ug/L | | | 04/22/21 21:53 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/22/21 21:53 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | 0.085 | ug/L | | | 04/22/21 21:53 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | 0.35 | ug/L | | | 04/22/21 21:53 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | 0.39 | ug/L | | | 04/22/21 21:53 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | 0.24 | ug/L | | | 04/22/21 21:53 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.28 | ug/L | | | 04/22/21 21:53 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | 0.32 | ug/L | | | 04/22/21 21:53 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | 0.38 | ug/L | | | 04/22/21 21:53 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.29 | ug/L | | | 04/22/21 21:53 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.64 | ug/L | | | 04/22/21 21:53 | 1 |
| 1,2-Dibromoethane | ND | | 0.50 | 0.14 | ug/L | | | 04/22/21 21:53 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 0.23 | ug/L | | | 04/22/21 21:53 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | 0.15 | ug/L | | | 04/22/21 21:53 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | 0.24 | ug/L | | | 04/22/21 21:53 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.28 | ug/L | | | 04/22/21 21:53 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 0.26 | ug/L | | | 04/22/21 21:53 | 1 |
| 1,3-Dichloropropane | ND | | 0.50 | 0.20 | ug/L | | | 04/22/21 21:53 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 0.22 | ug/L | | | 04/22/21 21:53 | 1 |
| 2,2-Dichloropropane | ND | | 0.50 | 0.40 | ug/L | | | 04/22/21 21:53 | 1 |
| 2-Butanone | ND | | 5.0 | 3.0 | ug/L | | | 04/22/21 21:53 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | 0.31 | ug/L | | | 04/22/21 21:53 | 1 |
| 2-Hexanone | ND | | 6.0 | 4.3 | ug/L | | | 04/22/21 21:53 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | 0.34 | ug/L | | | 04/22/21 21:53 | 1 |
| 4-Methyl-2-pentanone | ND | | 5.0 | 2.2 | ug/L | | | 04/22/21 21:53 | 1 |
| Acetone | ND | | 8.0 | 4.0 | ug/L | | | 04/22/21 21:53 | 1 |
| Benzene | ND | | 0.50 | 0.27 | ug/L | | | 04/22/21 21:53 | 1 |
| Bromobenzene | ND | | 0.50 | 0.26 | ug/L | | | 04/22/21 21:53 | 1 |
| Bromochloromethane | ND | | 1.0 | 0.35 | ug/L | | | 04/22/21 21:53 | 1 |
| Bromodichloromethane | ND | | 0.50 | 0.22 | ug/L | | | 04/22/21 21:53 | 1 |
| Bromoform | ND | | 0.50 | 0.39 | ug/L | | | 04/22/21 21:53 | 1 |
| Bromomethane | ND | | 1.0 | 0.93 | ug/L | | | 04/22/21 21:53 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-145291/8**
**Matrix: Water**
**Analysis Batch: 145291**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ND | | 0.50 | 0.30 | ug/L | | | 04/22/21 21:53 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.19 | ug/L | | | 04/22/21 21:53 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.24 | ug/L | | | 04/22/21 21:53 | 1 |
| Carbon tetrachloride | ND | | 0.50 | 0.27 | ug/L | | | 04/22/21 21:53 | 1 |
| Chlorobenzene | ND | | 0.50 | 0.24 | ug/L | | | 04/22/21 21:53 | 1 |
| Chloroethane | ND | | 0.50 | 0.44 | ug/L | | | 04/22/21 21:53 | 1 |
| Chloroform | ND | | 0.50 | 0.28 | ug/L | | | 04/22/21 21:53 | 1 |
| Chloromethane | ND | | 1.0 | 0.29 | ug/L | | | 04/22/21 21:53 | 1 |
| Dibromochloromethane | ND | | 0.50 | 0.27 | ug/L | | | 04/22/21 21:53 | 1 |
| Dibromomethane | ND | | 0.50 | 0.23 | ug/L | | | 04/22/21 21:53 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 04/22/21 21:53 | 1 |
| Di-isopropyl ether (DIPE) | ND | | 0.50 | 0.14 | ug/L | | | 04/22/21 21:53 | 1 |
| Ethanol | ND | | 50 | 38 | ug/L | | | 04/22/21 21:53 | 1 |
| Ethylbenzene | ND | | 0.50 | 0.36 | ug/L | | | 04/22/21 21:53 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 0.50 | 0.28 | ug/L | | | 04/22/21 21:53 | 1 |
| Isopropylbenzene | ND | | 0.50 | 0.38 | ug/L | | | 04/22/21 21:53 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.48 | ug/L | | | 04/22/21 21:53 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | 0.21 | ug/L | | | 04/22/21 21:53 | 1 |
| Naphthalene | ND | | 1.0 | 0.32 | ug/L | | | 04/22/21 21:53 | 1 |
| n-Butylbenzene | ND | | 0.50 | 0.29 | ug/L | | | 04/22/21 21:53 | 1 |
| N-Propylbenzene | ND | | 0.50 | 0.39 | ug/L | | | 04/22/21 21:53 | 1 |
| o-Xylene | ND | | 0.50 | 0.35 | ug/L | | | 04/22/21 21:53 | 1 |
| m,p-Xylene | ND | | 1.0 | 0.78 | ug/L | | | 04/22/21 21:53 | 1 |
| p-Isopropyltoluene | ND | | 0.50 | 0.28 | ug/L | | | 04/22/21 21:53 | 1 |
| sec-Butylbenzene | ND | | 0.50 | 0.34 | ug/L | | | 04/22/21 21:53 | 1 |
| Styrene | ND | | 0.50 | 0.28 | ug/L | | | 04/22/21 21:53 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 0.36 | ug/L | | | 04/22/21 21:53 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | 0.17 | ug/L | | | 04/22/21 21:53 | 1 |
| Tert-amyl-methyl ether (TAME) | ND | | 0.50 | 0.21 | ug/L | | | 04/22/21 21:53 | 1 |
| tert-Butyl alcohol (TBA) | ND | | 5.0 | 4.0 | ug/L | | | 04/22/21 21:53 | 1 |
| tert-Butylbenzene | ND | | 0.50 | 0.34 | ug/L | | | 04/22/21 21:53 | 1 |
| Tetrachloroethene | ND | | 0.50 | 0.29 | ug/L | | | 04/22/21 21:53 | 1 |
| Toluene | ND | | 0.50 | 0.33 | ug/L | | | 04/22/21 21:53 | 1 |
| Trichloroethene | ND | | 0.50 | 0.29 | ug/L | | | 04/22/21 21:53 | 1 |
| Trichlorofluoromethane | ND | | 0.50 | 0.30 | ug/L | | | 04/22/21 21:53 | 1 |
| Vinyl acetate | ND | | 5.0 | 3.1 | ug/L | | | 04/22/21 21:53 | 1 |
| Vinyl chloride | ND | | 0.50 | 0.40 | ug/L | | | 04/22/21 21:53 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *68 - 135* | | *04/22/21 21:53* | *1* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *71 - 120* | | *04/22/21 21:53* | *1* |
| *Dibromofluoromethane (Surr)* | *102* | | *80 - 120* | | *04/22/21 21:53* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | | *04/22/21 21:53* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 570-145291/4**
**Matrix: Water**
**Analysis Batch: 145291**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | | | 10.0 | 9.28 | | ug/L | | 93 | 72 - 120 | | |
| 1,2-Dibromoethane | | | 10.0 | 9.29 | | ug/L | | 93 | 80 - 120 | | |
| 1,2-Dichlorobenzene | | | 10.0 | 9.73 | | ug/L | | 97 | 79 - 123 | | |
| 1,2-Dichloroethane | | | 10.0 | 9.82 | | ug/L | | 98 | 71 - 137 | | |
| Benzene | | | 10.0 | 9.90 | | ug/L | | 99 | 80 - 120 | | |
| Carbon tetrachloride | | | 10.0 | 9.67 | | ug/L | | 97 | 69 - 145 | | |
| Chlorobenzene | | | 10.0 | 9.88 | | ug/L | | 99 | 80 - 120 | | |
| Di-isopropyl ether (DIPE) | | | 10.0 | 9.80 | | ug/L | | 98 | 69 - 120 | | |
| Ethanol | | | 100 | 87.1 | | ug/L | | 87 | 30 - 180 | | |
| Ethylbenzene | | | 10.0 | 9.91 | | ug/L | | 99 | 80 - 120 | | |
| Ethyl-t-butyl ether (ETBE) | | | 10.0 | 9.29 | | ug/L | | 93 | 58 - 124 | | |
| Methyl-t-Butyl Ether (MTBE) | | | 10.0 | 9.20 | | ug/L | | 92 | 72 - 120 | | |
| o-Xylene | | | 10.0 | 10.1 | | ug/L | | 101 | 80 - 122 | | |
| m,p-Xylene | | | 20.0 | 20.3 | | ug/L | | 101 | 80 - 122 | | |
| Tert-amyl-methyl ether (TAME) | | | 10.0 | 9.67 | | ug/L | | 97 | 55 - 142 | | |
| tert-Butyl alcohol (TBA) | | | 50.0 | 52.1 | | ug/L | | 104 | 65 - 147 | | |
| Toluene | | | 10.0 | 9.88 | | ug/L | | 99 | 80 - 120 | | |
| Trichloroethene | | | 10.0 | 9.69 | | ug/L | | 97 | 80 - 123 | | |
| Vinyl chloride | | | 10.0 | 10.2 | | ug/L | | 102 | 74 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *68 - 135* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *71 - 120* |
| *Dibromofluoromethane (Surr)* | *101* | | *80 - 120* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* |

**Lab Sample ID: LCSD 570-145291/5**
**Matrix: Water**
**Analysis Batch: 145291**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | | | 10.0 | 9.60 | | ug/L | | 96 | 72 - 120 | 3 | 20 |
| 1,2-Dibromoethane | | | 10.0 | 10.0 | | ug/L | | 100 | 80 - 120 | 8 | 20 |
| 1,2-Dichlorobenzene | | | 10.0 | 9.92 | | ug/L | | 99 | 79 - 123 | 2 | 20 |
| 1,2-Dichloroethane | | | 10.0 | 9.99 | | ug/L | | 100 | 71 - 137 | 2 | 20 |
| Benzene | | | 10.0 | 10.3 | | ug/L | | 103 | 80 - 120 | 4 | 20 |
| Carbon tetrachloride | | | 10.0 | 10.2 | | ug/L | | 102 | 69 - 145 | 6 | 20 |
| Chlorobenzene | | | 10.0 | 10.4 | | ug/L | | 104 | 80 - 120 | 5 | 20 |
| Di-isopropyl ether (DIPE) | | | 10.0 | 9.89 | | ug/L | | 99 | 69 - 120 | 1 | 20 |
| Ethanol | | | 100 | 86.6 | | ug/L | | 87 | 30 - 180 | 1 | 30 |
| Ethylbenzene | | | 10.0 | 10.4 | | ug/L | | 104 | 80 - 120 | 5 | 20 |
| Ethyl-t-butyl ether (ETBE) | | | 10.0 | 9.38 | | ug/L | | 94 | 58 - 124 | 1 | 20 |
| Methyl-t-Butyl Ether (MTBE) | | | 10.0 | 9.08 | | ug/L | | 91 | 72 - 120 | 1 | 20 |
| o-Xylene | | | 10.0 | 10.5 | | ug/L | | 105 | 80 - 122 | 4 | 20 |
| m,p-Xylene | | | 20.0 | 21.2 | | ug/L | | 106 | 80 - 122 | 5 | 20 |
| Tert-amyl-methyl ether (TAME) | | | 10.0 | 10.1 | | ug/L | | 101 | 55 - 142 | 4 | 20 |
| tert-Butyl alcohol (TBA) | | | 50.0 | 48.3 | | ug/L | | 97 | 65 - 147 | 8 | 21 |
| Toluene | | | 10.0 | 10.5 | | ug/L | | 105 | 80 - 120 | 6 | 20 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 570-145291/5**
**Matrix: Water**
**Analysis Batch: 145291**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | | | 10.0 | 10.4 | | ug/L | | 104 | 80 - 123 | 7 | 20 |
| Vinyl chloride | | | 10.0 | 10.4 | | ug/L | | 104 | 74 - 130 | 2 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *68 - 135* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *71 - 120* |
| *Dibromofluoromethane (Surr)* | *102* | | *80 - 120* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 570-144547/1-A**
**Matrix: Solid**
**Analysis Batch: 144872**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144547**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 0.50 | 0.036 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| 2-Methylnaphthalene | ND | | 0.50 | 0.057 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Acenaphthene | ND | | 0.50 | 0.054 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Acenaphthylene | ND | | 0.50 | 0.039 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Anthracene | ND | | 0.50 | 0.051 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Benzo[a]anthracene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Benzo[a]pyrene | ND | | 0.50 | 0.076 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Benzo[b]fluoranthene | ND | | 0.50 | 0.080 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.50 | 0.083 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Benzo[k]fluoranthene | ND | | 0.50 | 0.046 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Chrysene | ND | | 0.50 | 0.068 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.50 | 0.10 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Fluoranthene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Fluorene | ND | | 0.50 | 0.067 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.50 | 0.090 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Naphthalene | ND | | 0.50 | 0.058 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Phenanthrene | ND | | 0.50 | 0.061 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |
| Pyrene | ND | | 0.50 | 0.075 | mg/Kg | | 04/20/21 10:32 | 04/21/21 12:41 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *83* | | *10 - 134* | *04/20/21 10:32* | *04/21/21 12:41* | *1* |
| *2-Fluorobiphenyl (Surr)* | *83* | | *14 - 142* | *04/20/21 10:32* | *04/21/21 12:41* | *1* |
| *2-Fluorophenol (Surr)* | *74* | | *10 - 123* | *04/20/21 10:32* | *04/21/21 12:41* | *1* |
| *Nitrobenzene-d5 (Surr)* | *76* | | *10 - 129* | *04/20/21 10:32* | *04/21/21 12:41* | *1* |
| *Phenol-d6 (Surr)* | *70* | | *10 - 120* | *04/20/21 10:32* | *04/21/21 12:41* | *1* |
| *p-Terphenyl-d14 (Surr)* | *86* | | *31 - 139* | *04/20/21 10:32* | *04/21/21 12:41* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 570-144547/2-A**
**Matrix: Solid**
**Analysis Batch: 144872**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144547**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | | | 5.00 | 4.61 | | mg/Kg | | 92 | 64 - 120 | | |
| Acenaphthylene | | | 5.00 | 4.99 | | mg/Kg | | 100 | 69 - 126 | | |
| Fluorene | | | 5.00 | 4.68 | | mg/Kg | | 94 | 68 - 120 | | |
| Naphthalene | | | 5.00 | 4.03 | | mg/Kg | | 81 | 66 - 120 | | |
| Pyrene | | | 5.00 | 4.65 | | mg/Kg | | 93 | 72 - 120 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *92* | | *10 - 134* |
| *2-Fluorobiphenyl (Surr)* | *84* | | *14 - 142* |
| *2-Fluorophenol (Surr)* | *77* | | *10 - 123* |
| *Nitrobenzene-d5 (Surr)* | *69* | | *10 - 129* |
| *Phenol-d6 (Surr)* | *73* | | *10 - 120* |
| *p-Terphenyl-d14 (Surr)* | *89* | | *31 - 139* |

**Lab Sample ID: LCSD 570-144547/3-A**
**Matrix: Solid**
**Analysis Batch: 144872**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144547**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | | | 5.00 | 4.60 | | mg/Kg | | 92 | 64 - 120 | 0 | 20 |
| Acenaphthylene | | | 5.00 | 5.10 | | mg/Kg | | 102 | 69 - 126 | 2 | 20 |
| Fluorene | | | 5.00 | 4.77 | | mg/Kg | | 95 | 68 - 120 | 2 | 20 |
| Naphthalene | | | 5.00 | 4.09 | | mg/Kg | | 82 | 66 - 120 | 1 | 20 |
| Pyrene | | | 5.00 | 4.82 | | mg/Kg | | 96 | 72 - 120 | 4 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *93* | | *10 - 134* |
| *2-Fluorobiphenyl (Surr)* | *84* | | *14 - 142* |
| *2-Fluorophenol (Surr)* | *79* | | *10 - 123* |
| *Nitrobenzene-d5 (Surr)* | *70* | | *10 - 129* |
| *Phenol-d6 (Surr)* | *75* | | *10 - 120* |
| *p-Terphenyl-d14 (Surr)* | *92* | | *31 - 139* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: MB 570-144226/5**
**Matrix: Solid**
**Analysis Batch: 144226**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.099 | 0.055 | mg/Kg | | | 04/19/21 11:38 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *96* | | *42 - 126* | | *04/19/21 11:38* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: LCS 570-144226/3**
**Matrix: Solid**
**Analysis Batch: 144226**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C4-C13) | | | 1.98 | 1.60 | | mg/Kg | | 81 | 70 - 124 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *42 - 126* |

**Lab Sample ID: LCSD 570-144226/4**
**Matrix: Solid**
**Analysis Batch: 144226**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C4-C13) | | | 1.97 | 1.67 | | mg/Kg | | 85 | 70 - 124 | 4 | 18 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *105* | | *42 - 126* |

**Lab Sample ID: MB 570-144522/5**
**Matrix: Solid**
**Analysis Batch: 144522**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 0.10 | 0.055 | mg/Kg | | | 04/20/21 11:59 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *82* | | *42 - 126* | | *04/20/21 11:59* | *1* |

**Lab Sample ID: MB 570-144522/6**
**Matrix: Solid**
**Analysis Batch: 144522**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C12) | ND | | 2.0 | 1.1 | mg/Kg | | | 04/20/21 12:23 | 20 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *75* | | *42 - 126* | | *04/20/21 12:23* | *20* |

**Lab Sample ID: LCS 570-144522/3**
**Matrix: Solid**
**Analysis Batch: 144522**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C4-C13) | | | 1.98 | 2.05 | | mg/Kg | | 104 | 70 - 124 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *42 - 126* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: LCSD 570-144522/4**
**Matrix: Solid**
**Analysis Batch: 144522**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C4-C13) | | | 1.97 | 1.97 | | mg/Kg | | 100 | 70 - 124 | 4 | 18 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *42 - 126* |

**Lab Sample ID: MB 570-144904/5**
**Matrix: Water**
**Analysis Batch: 144904**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C4-C12) | ND | | 50 | 30 | ug/L | | | 04/21/21 15:03 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *71* | | *38 - 134* | | *04/21/21 15:03* | *1* |

**Lab Sample ID: LCS 570-144904/3**
**Matrix: Water**
**Analysis Batch: 144904**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Gasoline (C4-C13) | | | 1990 | 1910 | | ug/L | | 96 | 78 - 120 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *91* | | *38 - 134* |

**Lab Sample ID: LCSD 570-144904/4**
**Matrix: Water**
**Analysis Batch: 144904**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Gasoline (C4-C13) | | | 1990 | 1990 | | ug/L | | 100 | 78 - 120 | 4 | 10 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *94* | | *38 - 134* |

## Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO) with Silica Gel Cleanup

**Lab Sample ID: MB 570-144734/1-B**
**Matrix: Water**
**Analysis Batch: 145929**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144734**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 50 | 22 | ug/L | | 04/20/21 11:14 | 04/26/21 16:27 | 1 |
| C23-C40 | ND | | 50 | 22 | ug/L | | 04/20/21 11:14 | 04/26/21 16:27 | 1 |

## Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO) with Silica Gel Cleanup (Continued)

**Lab Sample ID: MB 570-144734/1-B**
**Matrix: Water**
**Analysis Batch: 145929**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144734**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| n-Octacosane (Surr) | 115 | | 53 - 151 | 04/20/21 11:14 | 04/26/21 16:27 | 1 |
| n-Decanoic Acid (Surr) | 0 | | 0 - 1 | 04/20/21 11:14 | 04/26/21 16:27 | 1 |

**Lab Sample ID: LCS 570-144734/2-B**
**Matrix: Water**
**Analysis Batch: 145929**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144734**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 2000 | 2140 | | ug/L | | 107 | 70 - 131 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| n-Octacosane (Surr) | 119 | | 53 - 151 |
| n-Decanoic Acid (Surr) | 0 | | 0 - 1 |

**Lab Sample ID: LCSD 570-144734/3-B**
**Matrix: Water**
**Analysis Batch: 145929**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144734**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 2000 | 2040 | | ug/L | | 102 | 70 - 131 | 4 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| n-Octacosane (Surr) | 108 | | 53 - 151 |
| n-Decanoic Acid (Surr) | 0 | | 0 - 1 |

**Lab Sample ID: MB 570-144922/1-B**
**Matrix: Water**
**Analysis Batch: 145738**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144922**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 50 | 22 | ug/L | | 04/21/21 11:36 | 04/24/21 14:19 | 1 |
| C23-C40 | ND | | 50 | 22 | ug/L | | 04/21/21 11:36 | 04/24/21 14:19 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| n-Octacosane (Surr) | 105 | | 53 - 151 | 04/21/21 11:36 | 04/24/21 14:19 | 1 |
| n-Decanoic Acid (Surr) | 0 | | 0 - 1 | 04/21/21 11:36 | 04/24/21 14:19 | 1 |

**Lab Sample ID: LCS 570-144922/2-B**
**Matrix: Water**
**Analysis Batch: 145738**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144922**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 2000 | 2100 | | ug/L | | 105 | 70 - 131 | | |

## Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO) with Silica Gel Cleanup (Continued)

**Lab Sample ID: LCS 570-144922/2-B**
**Matrix: Water**
**Analysis Batch: 145738**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144922**

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane (Surr)* | *110* | | *53 - 151* |
| *n-Decanoic Acid (Surr)* | *0* | | *0 - 1* |

**Lab Sample ID: LCSD 570-144922/3-B**
**Matrix: Water**
**Analysis Batch: 145738**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144922**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 2000 | 2140 | | ug/L | | 107 | 70 - 131 | 2 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane (Surr)* | *110* | | *53 - 151* |
| *n-Decanoic Acid (Surr)* | *0* | | *0 - 1* |

**Lab Sample ID: MB 570-145218/1-B**
**Matrix: Water**
**Analysis Batch: 145738**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 145218**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 50 | 22 | ug/L | | 04/22/21 13:08 | 04/25/21 06:46 | 1 |
| C23-C40 | ND | | 50 | 22 | ug/L | | 04/22/21 13:08 | 04/25/21 06:46 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *113* | | *53 - 151* | *04/22/21 13:08* | *04/25/21 06:46* | *1* |
| *n-Decanoic Acid (Surr)* | *0* | | *0 - 1* | *04/22/21 13:08* | *04/25/21 06:46* | *1* |

**Lab Sample ID: LCS 570-145218/2-B**
**Matrix: Water**
**Analysis Batch: 145738**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 145218**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 2000 | 2220 | | ug/L | | 111 | 70 - 131 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane (Surr)* | *119* | | *53 - 151* |
| *n-Decanoic Acid (Surr)* | *0.7* | | *0 - 1* |

**Lab Sample ID: LCSD 570-145218/3-B**
**Matrix: Water**
**Analysis Batch: 145738**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 145218**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 2000 | 2210 | | ug/L | | 110 | 70 - 131 | 1 | 20 |

## Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO) with Silica Gel Cleanup (Continued)

**Lab Sample ID: LCSD 570-145218/3-B**
**Matrix: Water**
**Analysis Batch: 145738**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 145218**

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane (Surr)* | *118* | | *53 - 151* |
| *n-Decanoic Acid (Surr)* | *0.7* | | *0 - 1* |

## Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

**Lab Sample ID: MB 570-144561/1-A**
**Matrix: Water**
**Analysis Batch: 145929**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144561**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 50 | 22 | ug/L | | 04/20/21 11:14 | 04/26/21 14:13 | 1 |
| C23-C40 | ND | | 50 | 22 | ug/L | | 04/20/21 11:14 | 04/26/21 14:13 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *110* | | *53 - 151* | *04/20/21 11:14* | *04/26/21 14:13* | *1* |

**Lab Sample ID: LCS 570-144561/2-A**
**Matrix: Water**
**Analysis Batch: 145929**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144561**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 2000 | 2060 | | ug/L | | 103 | 70 - 131 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane (Surr)* | *112* | | *53 - 151* |

**Lab Sample ID: LCSD 570-144561/3-A**
**Matrix: Water**
**Analysis Batch: 145929**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144561**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 2000 | 2090 | | ug/L | | 104 | 70 - 131 | 1 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane (Surr)* | *113* | | *53 - 151* |

**Lab Sample ID: MB 570-144883/1-A**
**Matrix: Water**
**Analysis Batch: 145442**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144883**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 50 | 22 | ug/L | | 04/21/21 11:36 | 04/23/21 18:07 | 1 |
| C23-C40 | ND | | 50 | 22 | ug/L | | 04/21/21 11:36 | 04/23/21 18:07 | 1 |

## Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO) (Continued)

**Lab Sample ID: MB 570-144883/1-A**
**Matrix: Water**
**Analysis Batch: 145442**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144883**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| n-Octacosane (Surr) | 85 | | 53 - 151 | 04/21/21 11:36 | 04/23/21 18:07 | 1 |

**Lab Sample ID: LCS 570-144883/2-A**
**Matrix: Water**
**Analysis Batch: 145442**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144883**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 2000 | 1720 | | ug/L | | 86 | 70 - 131 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| n-Octacosane (Surr) | 85 | | 53 - 151 |

**Lab Sample ID: LCSD 570-144883/3-A**
**Matrix: Water**
**Analysis Batch: 145442**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144883**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 2000 | 1550 | | ug/L | | 78 | 70 - 131 | 11 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| n-Octacosane (Surr) | 71 | | 53 - 151 |

**Lab Sample ID: MB 570-144982/1-A**
**Matrix: Water**
**Analysis Batch: 145443**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144982**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C13-C22 | ND | | 50 | 22 | ug/L | | 04/21/21 16:08 | 04/23/21 19:36 | 1 |
| C23-C40 | ND | | 50 | 22 | ug/L | | 04/21/21 16:08 | 04/23/21 19:36 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| n-Octacosane (Surr) | 113 | | 53 - 151 | 04/21/21 16:08 | 04/23/21 19:36 | 1 |

**Lab Sample ID: LCS 570-144982/2-A**
**Matrix: Water**
**Analysis Batch: 145443**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144982**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 2000 | 2130 | | ug/L | | 106 | 70 - 131 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| n-Octacosane (Surr) | 116 | | 53 - 151 |

## Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO) (Continued)

**Lab Sample ID: LCSD 570-144982/3-A**
**Matrix: Water**
**Analysis Batch: 145443**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144982**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 2000 | 2130 | | ug/L | | 107 | 70 - 131 | 0 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane (Surr)* | *116* | | *53 - 151* |

## Method: 8081A - Organochlorine Pesticides (GC)

**Lab Sample ID: MB 570-144549/1-A**
**Matrix: Solid**
**Analysis Batch: 145226**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144549**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 5.0 | 0.99 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| 4,4'-DDE | ND | | 5.0 | 0.54 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| 4,4'-DDT | ND | | 5.0 | 0.36 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Aldrin | ND | | 5.0 | 0.30 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| alpha-BHC | ND | | 5.0 | 3.0 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| alpha-Chlordane | ND | | 5.0 | 1.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| beta-BHC | ND | | 5.0 | 3.7 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Chlordane | ND | | 25 | 2.4 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| delta-BHC | ND | | 5.0 | 3.3 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Dieldrin | ND | | 5.0 | 0.25 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Endosulfan I | ND | | 5.0 | 0.44 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Endosulfan II | ND | | 5.0 | 0.31 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Endosulfan sulfate | ND | | 5.0 | 0.40 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Endrin | ND | | 5.0 | 0.33 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Endrin aldehyde | ND | | 5.0 | 0.73 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Endrin ketone | ND | | 5.0 | 0.48 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| gamma-Chlordane | ND | | 5.0 | 0.26 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| gamma-BHC | ND | | 5.0 | 0.62 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Heptachlor | ND | | 5.0 | 0.89 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Heptachlor epoxide | ND | | 5.0 | 0.67 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Methoxychlor | ND | | 5.0 | 0.81 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |
| Toxaphene | ND | | 25 | 20 | ug/Kg | | 04/20/21 10:34 | 04/23/21 04:36 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *95* | | *38 - 148* | *04/20/21 10:34* | *04/23/21 04:36* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *96* | | *37 - 151* | *04/20/21 10:34* | *04/23/21 04:36* | *1* |

**Lab Sample ID: LCS 570-144549/2-A**
**Matrix: Solid**
**Analysis Batch: 145226**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144549**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | | | 25.0 | 22.4 | | ug/Kg | | 89 | 54 - 154 | | |
| 4,4'-DDE | | | 25.0 | 21.6 | | ug/Kg | | 86 | 51 - 149 | | |
| 4,4'-DDT | | | 25.0 | 24.4 | | ug/Kg | | 98 | 39 - 152 | | |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: LCS 570-144549/2-A**
**Matrix: Solid**
**Analysis Batch: 145226**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144549**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aldrin | | | 25.0 | 20.8 | | ug/Kg | | 83 | 52 - 138 | | |
| alpha-BHC | | | 25.0 | 22.2 | | ug/Kg | | 89 | 51 - 140 | | |
| alpha-Chlordane | | | 25.0 | 20.7 | | ug/Kg | | 83 | 53 - 141 | | |
| beta-BHC | | | 25.0 | 23.0 | | ug/Kg | | 92 | 53 - 141 | | |
| delta-BHC | | | 25.0 | 21.9 | | ug/Kg | | 87 | 20 - 132 | | |
| Dieldrin | | | 25.0 | 20.9 | | ug/Kg | | 84 | 52 - 144 | | |
| Endosulfan I | | | 25.0 | 20.7 | | ug/Kg | | 83 | 49 - 139 | | |
| Endosulfan II | | | 25.0 | 20.8 | | ug/Kg | | 83 | 51 - 150 | | |
| Endosulfan sulfate | | | 25.0 | 21.7 | | ug/Kg | | 87 | 45 - 139 | | |
| Endrin | | | 25.0 | 23.2 | | ug/Kg | | 93 | 53 - 151 | | |
| Endrin aldehyde | | | 25.0 | 21.1 | | ug/Kg | | 84 | 31 - 146 | | |
| gamma-Chlordane | | | 25.0 | 20.8 | p | ug/Kg | | 83 | 46 - 156 | | |
| gamma-BHC | | | 25.0 | 21.9 | | ug/Kg | | 88 | 53 - 141 | | |
| Heptachlor | | | 25.0 | 22.1 | | ug/Kg | | 89 | 52 - 144 | | |
| Heptachlor epoxide | | | 25.0 | 21.3 | | ug/Kg | | 85 | 54 - 141 | | |
| Methoxychlor | | | 25.0 | 24.7 | | ug/Kg | | 99 | 47 - 148 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *91* | | *38 - 148* |
| *DCB Decachlorobiphenyl (Surr)* | *91* | | *37 - 151* |

**Lab Sample ID: LCSD 570-144549/3-A**
**Matrix: Solid**
**Analysis Batch: 145226**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144549**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | | | 25.0 | 23.0 | | ug/Kg | | 92 | 54 - 154 | 3 | 30 |
| 4,4'-DDE | | | 25.0 | 22.4 | | ug/Kg | | 90 | 51 - 149 | 4 | 28 |
| 4,4'-DDT | | | 25.0 | 24.9 | | ug/Kg | | 100 | 39 - 152 | 2 | 31 |
| Aldrin | | | 25.0 | 21.1 | | ug/Kg | | 84 | 52 - 138 | 2 | 30 |
| alpha-BHC | | | 25.0 | 22.5 | | ug/Kg | | 90 | 51 - 140 | 2 | 29 |
| alpha-Chlordane | | | 25.0 | 21.2 | | ug/Kg | | 85 | 53 - 141 | 2 | 28 |
| beta-BHC | | | 25.0 | 23.3 | | ug/Kg | | 93 | 53 - 141 | 1 | 29 |
| delta-BHC | | | 25.0 | 22.3 | | ug/Kg | | 89 | 20 - 132 | 2 | 40 |
| Dieldrin | | | 25.0 | 21.3 | | ug/Kg | | 85 | 52 - 144 | 2 | 28 |
| Endosulfan I | | | 25.0 | 21.1 | | ug/Kg | | 85 | 49 - 139 | 2 | 28 |
| Endosulfan II | | | 25.0 | 21.3 | | ug/Kg | | 85 | 51 - 150 | 3 | 29 |
| Endosulfan sulfate | | | 25.0 | 22.2 | | ug/Kg | | 89 | 45 - 139 | 2 | 30 |
| Endrin | | | 25.0 | 23.5 | | ug/Kg | | 94 | 53 - 151 | 1 | 29 |
| Endrin aldehyde | | | 25.0 | 21.7 | | ug/Kg | | 87 | 31 - 146 | 3 | 40 |
| gamma-Chlordane | | | 25.0 | 21.2 | p | ug/Kg | | 85 | 46 - 156 | 2 | 39 |
| gamma-BHC | | | 25.0 | 22.3 | | ug/Kg | | 89 | 53 - 141 | 2 | 29 |
| Heptachlor | | | 25.0 | 22.5 | | ug/Kg | | 90 | 52 - 144 | 2 | 29 |
| Heptachlor epoxide | | | 25.0 | 21.7 | | ug/Kg | | 87 | 54 - 141 | 2 | 29 |
| Methoxychlor | | | 25.0 | 25.3 | | ug/Kg | | 101 | 47 - 148 | 3 | 29 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *92* | | *38 - 148* |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: LCSD 570-144549/3-A**
**Matrix: Solid**
**Analysis Batch: 145226**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144549**

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *DCB Decachlorobiphenyl (Surr)* | *93* | | *37 - 151* |

**Lab Sample ID: 570-56847-45 MS**
**Matrix: Solid**
**Analysis Batch: 145226**

**Client Sample ID: SSD-30-3.5**
**Prep Type: Total/NA**
**Prep Batch: 144549**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 24.9 | 21.8 | | ug/Kg | | 88 | 27 - 144 |
| 4,4'-DDE | 0.84 | J | 24.9 | 18.1 | | ug/Kg | | 70 | 28 - 141 |
| 4,4'-DDT | 2.7 | J | 24.9 | 14.7 | | ug/Kg | | 48 | 10 - 154 |
| Aldrin | ND | | 24.9 | 16.6 | | ug/Kg | | 67 | 26 - 125 |
| alpha-BHC | ND | | 24.9 | 16.9 | | ug/Kg | | 68 | 24 - 125 |
| alpha-Chlordane | ND | | 24.9 | 28.5 | | ug/Kg | | 115 | 17 - 144 |
| beta-BHC | ND | | 24.9 | 17.0 | | ug/Kg | | 69 | 28 - 125 |
| delta-BHC | ND | | 24.9 | 15.7 | | ug/Kg | | 63 | 10 - 125 |
| Dieldrin | ND | | 24.9 | 17.7 | | ug/Kg | | 71 | 19 - 145 |
| Endosulfan I | ND | | 24.9 | 17.1 | | ug/Kg | | 69 | 25 - 125 |
| Endosulfan II | ND | | 24.9 | 15.9 | | ug/Kg | | 64 | 13 - 142 |
| Endosulfan sulfate | ND | | 24.9 | 15.2 | | ug/Kg | | 61 | 14 - 126 |
| Endrin | ND | | 24.9 | 19.3 | | ug/Kg | | 78 | 28 - 139 |
| Endrin aldehyde | ND | | 24.9 | 12.3 | | ug/Kg | | 49 | 12 - 125 |
| gamma-Chlordane | 4.8 | J p | 24.9 | 24.3 | p | ug/Kg | | 78 | 10 - 160 |
| gamma-BHC | ND | | 24.9 | 16.8 | | ug/Kg | | 67 | 24 - 125 |
| Heptachlor | 1.1 | J | 24.9 | 18.5 | | ug/Kg | | 70 | 19 - 127 |
| Heptachlor epoxide | ND | | 24.9 | 17.7 | | ug/Kg | | 71 | 33 - 123 |
| Methoxychlor | ND | | 24.9 | 16.7 | | ug/Kg | | 67 | 19 - 128 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *70* | | *38 - 148* |
| *DCB Decachlorobiphenyl (Surr)* | *93* | | *37 - 151* |

**Lab Sample ID: 570-56847-45 MSD**
**Matrix: Solid**
**Analysis Batch: 145226**

**Client Sample ID: SSD-30-3.5**
**Prep Type: Total/NA**
**Prep Batch: 144549**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 24.8 | 21.2 | | ug/Kg | | 86 | 27 - 144 | 2 | 40 |
| 4,4'-DDE | 0.84 | J | 24.8 | 17.5 | | ug/Kg | | 67 | 28 - 141 | 3 | 32 |
| 4,4'-DDT | 2.7 | J | 24.8 | 13.2 | | ug/Kg | | 42 | 10 - 154 | 11 | 40 |
| Aldrin | ND | | 24.8 | 15.6 | | ug/Kg | | 63 | 26 - 125 | 6 | 40 |
| alpha-BHC | ND | | 24.8 | 15.8 | | ug/Kg | | 64 | 24 - 125 | 7 | 40 |
| alpha-Chlordane | ND | | 24.8 | 32.6 | | ug/Kg | | 132 | 17 - 144 | 13 | 40 |
| beta-BHC | ND | | 24.8 | 14.5 | | ug/Kg | | 58 | 28 - 125 | 16 | 39 |
| delta-BHC | ND | | 24.8 | 15.1 | | ug/Kg | | 61 | 10 - 125 | 4 | 40 |
| Dieldrin | ND | | 24.8 | 18.3 | | ug/Kg | | 74 | 19 - 145 | 3 | 39 |
| Endosulfan I | ND | | 24.8 | 16.1 | | ug/Kg | | 65 | 25 - 125 | 6 | 39 |
| Endosulfan II | ND | | 24.8 | 14.9 | | ug/Kg | | 60 | 13 - 142 | 6 | 40 |
| Endosulfan sulfate | ND | | 24.8 | 14.9 | | ug/Kg | | 60 | 14 - 126 | 2 | 38 |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: 570-56847-45 MSD**
**Matrix: Solid**
**Analysis Batch: 145226**

**Client Sample ID: SSD-30-3.5**
**Prep Type: Total/NA**
**Prep Batch: 144549**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Endrin | ND | | 24.8 | 18.6 | | ug/Kg | | 75 | 28 - 139 | 4 | 40 |
| Endrin aldehyde | ND | | 24.8 | 11.0 | | ug/Kg | | 44 | 12 - 125 | 11 | 40 |
| gamma-Chlordane | 4.8 | J p | 24.8 | 27.4 | p | ug/Kg | | 91 | 10 - 160 | 12 | 40 |
| gamma-BHC | ND | | 24.8 | 16.0 | | ug/Kg | | 65 | 24 - 125 | 4 | 40 |
| Heptachlor | 1.1 | J | 24.8 | 19.4 | | ug/Kg | | 74 | 19 - 127 | 5 | 40 |
| Heptachlor epoxide | ND | | 24.8 | 17.0 | | ug/Kg | | 68 | 33 - 123 | 4 | 34 |
| Methoxychlor | ND | | 24.8 | 13.1 | | ug/Kg | | 53 | 19 - 128 | 25 | 40 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *67* | | *38 - 148* |
| *DCB Decachlorobiphenyl (Surr)* | *92* | | *37 - 151* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 570-144979/1-A**
**Matrix: Solid**
**Analysis Batch: 145103**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144979**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 13:03 | 1 |
| Aroclor-1221 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 13:03 | 1 |
| Aroclor-1232 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 13:03 | 1 |
| Aroclor-1242 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 13:03 | 1 |
| Aroclor-1248 | ND | | 10 | 5.5 | ug/Kg | | 04/21/21 15:57 | 04/22/21 13:03 | 1 |
| Aroclor-1254 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 13:03 | 1 |
| Aroclor-1260 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 13:03 | 1 |
| Aroclor-1262 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 13:03 | 1 |
| Aroclor-1268 | ND | | 10 | 5.0 | ug/Kg | | 04/21/21 15:57 | 04/22/21 13:03 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *76* | | *25 - 126* | *04/21/21 15:57* | *04/22/21 13:03* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *92* | | *20 - 155* | *04/21/21 15:57* | *04/22/21 13:03* | *1* |

**Lab Sample ID: LCS 570-144979/2-A**
**Matrix: Solid**
**Analysis Batch: 145103**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144979**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | | | 20.0 | 21.5 | | ug/Kg | | 107 | 50 - 142 | | |
| Aroclor-1260 | | | 20.0 | 22.1 | | ug/Kg | | 111 | 50 - 150 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *72* | | *25 - 126* |
| *DCB Decachlorobiphenyl (Surr)* | *77* | | *20 - 155* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: LCSD 570-144979/3-A**
**Matrix: Solid**
**Analysis Batch: 145103**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144979**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | | | 20.0 | 26.3 | | ug/Kg | | 132 | 50 - 142 | 20 | 30 |
| Aroclor-1260 | | | 20.0 | 24.7 | | ug/Kg | | 123 | 50 - 150 | 11 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene (Surr)* | *81* | | *25 - 126* |
| *DCB Decachlorobiphenyl (Surr)* | *93* | | *20 - 155* |

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 570-144964/1-A**
**Matrix: Solid**
**Analysis Batch: 145216**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144964**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | | 5.0 | 0.96 | mg/Kg | | 04/21/21 16:00 | 04/22/21 18:20 | 1 |

**Lab Sample ID: LCS 570-144964/2-A**
**Matrix: Solid**
**Analysis Batch: 145216**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144964**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | | | 24.9 | 24.0 | | mg/Kg | | 96 | 80 - 120 | | |

**Lab Sample ID: LCSD 570-144964/3-A**
**Matrix: Solid**
**Analysis Batch: 145216**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144964**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | | | 25.1 | 24.0 | | mg/Kg | | 95 | 80 - 120 | 0 | 20 |

**Lab Sample ID: MB 570-144975/1-A**
**Matrix: Solid**
**Analysis Batch: 145285**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 144975**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | | 5.1 | 0.98 | mg/Kg | | 04/21/21 16:00 | 04/22/21 13:22 | 1 |

**Lab Sample ID: LCS 570-144975/2-A**
**Matrix: Solid**
**Analysis Batch: 145285**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 144975**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | | | 24.9 | 29.1 | | mg/Kg | | 117 | 80 - 120 | | |

**Lab Sample ID: LCSD 570-144975/3-A**
**Matrix: Solid**
**Analysis Batch: 145285**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 144975**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | | | 24.8 | 27.4 | | mg/Kg | | 111 | 80 - 120 | 6 | 20 |

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145 Oakland Center Street

Job ID: 570-56847-1

## Method: 6010B - Metals (ICP)

**Lab Sample ID: 570-56847-20 MS**
**Matrix: Solid**
**Analysis Batch: 145285**

**Client Sample ID: SSD-16-1.0**
**Prep Type: Total/NA**
**Prep Batch: 144975**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 410 | | 25.3 | 525 | 4 | mg/Kg | | 473 | 75 - 125 |

**Lab Sample ID: 570-56847-20 MSD**
**Matrix: Solid**
**Analysis Batch: 145285**

**Client Sample ID: SSD-16-1.0**
**Prep Type: Total/NA**
**Prep Batch: 144975**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 410 | | 24.3 | 518 | 4 | mg/Kg | | 464 | 75 - 125 | 1 | 20 |

## GC/MS VOA

### Prep Batch: 144314

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-42 | G-27-C-10.0 | Total/NA | Solid | 5035 | |

### Prep Batch: 144315

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-1 | SW-4/MW-14-C-5.0 | Total/NA | Solid | 5035 | |
| 570-56847-2 | TW-2-50 | Total/NA | Solid | 5035 | |
| 570-56847-3 | TW-2-60 | Total/NA | Solid | 5035 | |
| 570-56847-4 | SVP-3-6.5 | Total/NA | Solid | 5035 | |
| 570-56847-5 | SB-1-10.0 | Total/NA | Solid | 5035 | |
| 570-56847-6 | SB-1-15.0 | Total/NA | Solid | 5035 | |
| 570-56847-7 | SB-2-10.0 | Total/NA | Solid | 5035 | |
| 570-56847-8 | SB-2-15.0 | Total/NA | Solid | 5035 | |
| 570-56847-9 | TW-1-10.0 | Total/NA | Solid | 5035 | |
| 570-56847-10 | TW-1-20.0 | Total/NA | Solid | 5035 | |
| 570-56847-11 | TW-1-30.0 | Total/NA | Solid | 5035 | |
| 570-56847-12 | TW-1-40.0 | Total/NA | Solid | 5035 | |
| 570-56847-13 | SVP-4-6.5 | Total/NA | Solid | 5035 | |
| 570-56847-14 | SVP-1-6.5 | Total/NA | Solid | 5035 | |
| 570-56847-15 | SVP-2-6.5 | Total/NA | Solid | 5035 | |
| 570-56847-31 | TW-1-50.0 | Total/NA | Solid | 5035 | |
| 570-56847-32 | TW-1-60.0 | Total/NA | Solid | 5035 | |
| 570-56847-43 | G-27-C-15.0 | Total/NA | Solid | 5035 | |

### Analysis Batch: 144481

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-1 | SW-4/MW-14-C-5.0 | Total/NA | Solid | 8260B | 144315 |
| 570-56847-2 | TW-2-50 | Total/NA | Solid | 8260B | 144315 |
| 570-56847-3 | TW-2-60 | Total/NA | Solid | 8260B | 144315 |
| 570-56847-4 | SVP-3-6.5 | Total/NA | Solid | 8260B | 144315 |
| 570-56847-5 | SB-1-10.0 | Total/NA | Solid | 8260B | 144315 |
| 570-56847-6 | SB-1-15.0 | Total/NA | Solid | 8260B | 144315 |
| MB 570-144481/10 | Method Blank | Total/NA | Solid | 8260B | |
| LCS 570-144481/7 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 570-144481/8 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |

### Analysis Batch: 144488

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-8 | SB-2-15.0 | Total/NA | Solid | 8260B | 144315 |
| 570-56847-9 | TW-1-10.0 | Total/NA | Solid | 8260B | 144315 |
| MB 570-144488/9 | Method Blank | Total/NA | Solid | 8260B | |
| LCS 570-144488/4 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 570-144488/5 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |

### Analysis Batch: 144777

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-10 | TW-1-20.0 | Total/NA | Solid | 8260B | 144315 |
| 570-56847-11 | TW-1-30.0 | Total/NA | Solid | 8260B | 144315 |
| 570-56847-12 | TW-1-40.0 | Total/NA | Solid | 8260B | 144315 |
| 570-56847-13 | SVP-4-6.5 | Total/NA | Solid | 8260B | 144315 |
| 570-56847-14 | SVP-1-6.5 | Total/NA | Solid | 8260B | 144315 |
| 570-56847-15 | SVP-2-6.5 | Total/NA | Solid | 8260B | 144315 |

## GC/MS VOA (Continued)

### Analysis Batch: 144777 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-31 | TW-1-50.0 | Total/NA | Solid | 8260B | 144315 |
| 570-56847-32 | TW-1-60.0 | Total/NA | Solid | 8260B | 144315 |
| 570-56847-43 | G-27-C-15.0 | Total/NA | Solid | 8260B | 144315 |
| MB 570-144777/7 | Method Blank | Total/NA | Solid | 8260B | |
| LCS 570-144777/4 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 570-144777/5 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |

### Analysis Batch: 144782

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-7 | SB-2-10.0 | Total/NA | Solid | 8260B | 144315 |
| 570-56847-42 | G-27-C-10.0 | Total/NA | Solid | 8260B | 144314 |
| MB 570-144782/7 | Method Blank | Total/NA | Solid | 8260B | |
| MB 570-144782/8 | Method Blank | Total/NA | Solid | 8260B | |
| LCS 570-144782/4 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 570-144782/5 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |

### Analysis Batch: 145291

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-53 | TW-1-GW | Total/NA | Water | 8260B | |
| 570-56847-54 | TW-2-GW | Total/NA | Water | 8260B | |
| 570-56847-55 | TW-3-GW | Total/NA | Water | 8260B | |
| 570-56847-56 | SB-1-GW | Total/NA | Water | 8260B | |
| 570-56847-57 | SB-2-GW | Total/NA | Water | 8260B | |
| 570-56847-58 | SB-3-GW | Total/NA | Water | 8260B | |
| 570-56847-59 | SB-4-GW | Total/NA | Water | 8260B | |
| 570-56847-62 | TB | Total/NA | Water | 8260B | |
| MB 570-145291/8 | Method Blank | Total/NA | Water | 8260B | |
| LCS 570-145291/4 | Lab Control Sample | Total/NA | Water | 8260B | |
| LCSD 570-145291/5 | Lab Control Sample Dup | Total/NA | Water | 8260B | |

## GC/MS Semi VOA

### Prep Batch: 144547

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-1 | SW-4/MW-14-C-5.0 | Total/NA | Solid | 3546 | |
| 570-56847-4 | SVP-3-6.5 | Total/NA | Solid | 3546 | |
| 570-56847-5 | SB-1-10.0 | Total/NA | Solid | 3546 | |
| 570-56847-7 | SB-2-10.0 | Total/NA | Solid | 3546 | |
| 570-56847-9 | TW-1-10.0 | Total/NA | Solid | 3546 | |
| 570-56847-13 | SVP-4-6.5 | Total/NA | Solid | 3546 | |
| 570-56847-14 | SVP-1-6.5 | Total/NA | Solid | 3546 | |
| 570-56847-15 | SVP-2-6.5 | Total/NA | Solid | 3546 | |
| 570-56847-42 | G-27-C-10.0 | Total/NA | Solid | 3546 | |
| MB 570-144547/1-A | Method Blank | Total/NA | Solid | 3546 | |
| LCS 570-144547/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| LCSD 570-144547/3-A | Lab Control Sample Dup | Total/NA | Solid | 3546 | |

### Analysis Batch: 144872

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-1 | SW-4/MW-14-C-5.0 | Total/NA | Solid | 8270C | 144547 |
| 570-56847-4 | SVP-3-6.5 | Total/NA | Solid | 8270C | 144547 |

## GC/MS Semi VOA (Continued)

### Analysis Batch: 144872 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-5 | SB-1-10.0 | Total/NA | Solid | 8270C | 144547 |
| 570-56847-7 | SB-2-10.0 | Total/NA | Solid | 8270C | 144547 |
| 570-56847-9 | TW-1-10.0 | Total/NA | Solid | 8270C | 144547 |
| 570-56847-13 | SVP-4-6.5 | Total/NA | Solid | 8270C | 144547 |
| 570-56847-14 | SVP-1-6.5 | Total/NA | Solid | 8270C | 144547 |
| 570-56847-15 | SVP-2-6.5 | Total/NA | Solid | 8270C | 144547 |
| 570-56847-42 | G-27-C-10.0 | Total/NA | Solid | 8270C | 144547 |
| MB 570-144547/1-A | Method Blank | Total/NA | Solid | 8270C | 144547 |
| LCS 570-144547/2-A | Lab Control Sample | Total/NA | Solid | 8270C | 144547 |
| LCSD 570-144547/3-A | Lab Control Sample Dup | Total/NA | Solid | 8270C | 144547 |

## GC VOA

### Analysis Batch: 144226

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-1 | SW-4/MW-14-C-5.0 | Total/NA | Solid | 8015B | 144315 |
| 570-56847-2 | TW-2-50 | Total/NA | Solid | 8015B | 144315 |
| 570-56847-3 | TW-2-60 | Total/NA | Solid | 8015B | 144315 |
| 570-56847-4 | SVP-3-6.5 | Total/NA | Solid | 8015B | 144315 |
| 570-56847-5 | SB-1-10.0 | Total/NA | Solid | 8015B | 144315 |
| 570-56847-6 | SB-1-15.0 | Total/NA | Solid | 8015B | 144315 |
| 570-56847-7 | SB-2-10.0 | Total/NA | Solid | 8015B | 144315 |
| 570-56847-8 | SB-2-15.0 | Total/NA | Solid | 8015B | 144315 |
| 570-56847-9 | TW-1-10.0 | Total/NA | Solid | 8015B | 144315 |
| 570-56847-10 | TW-1-20.0 | Total/NA | Solid | 8015B | 144315 |
| 570-56847-11 | TW-1-30.0 | Total/NA | Solid | 8015B | 144315 |
| 570-56847-12 | TW-1-40.0 | Total/NA | Solid | 8015B | 144315 |
| 570-56847-13 | SVP-4-6.5 | Total/NA | Solid | 8015B | 144315 |
| 570-56847-14 | SVP-1-6.5 | Total/NA | Solid | 8015B | 144315 |
| 570-56847-31 | TW-1-50.0 | Total/NA | Solid | 8015B | 144315 |
| 570-56847-32 | TW-1-60.0 | Total/NA | Solid | 8015B | 144315 |
| MB 570-144226/5 | Method Blank | Total/NA | Solid | 8015B | |
| LCS 570-144226/3 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 570-144226/4 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |

### Prep Batch: 144314

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-42 | G-27-C-10.0 | Total/NA | Solid | 5035 | |

### Prep Batch: 144315

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-1 | SW-4/MW-14-C-5.0 | Total/NA | Solid | 5035 | |
| 570-56847-2 | TW-2-50 | Total/NA | Solid | 5035 | |
| 570-56847-3 | TW-2-60 | Total/NA | Solid | 5035 | |
| 570-56847-4 | SVP-3-6.5 | Total/NA | Solid | 5035 | |
| 570-56847-5 | SB-1-10.0 | Total/NA | Solid | 5035 | |
| 570-56847-6 | SB-1-15.0 | Total/NA | Solid | 5035 | |
| 570-56847-7 | SB-2-10.0 | Total/NA | Solid | 5035 | |
| 570-56847-8 | SB-2-15.0 | Total/NA | Solid | 5035 | |
| 570-56847-9 | TW-1-10.0 | Total/NA | Solid | 5035 | |
| 570-56847-10 | TW-1-20.0 | Total/NA | Solid | 5035 | |

## GC VOA (Continued)

### Prep Batch: 144315 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-11 | TW-1-30.0 | Total/NA | Solid | 5035 | |
| 570-56847-12 | TW-1-40.0 | Total/NA | Solid | 5035 | |
| 570-56847-13 | SVP-4-6.5 | Total/NA | Solid | 5035 | |
| 570-56847-14 | SVP-1-6.5 | Total/NA | Solid | 5035 | |
| 570-56847-15 | SVP-2-6.5 | Total/NA | Solid | 5035 | |
| 570-56847-31 | TW-1-50.0 | Total/NA | Solid | 5035 | |
| 570-56847-32 | TW-1-60.0 | Total/NA | Solid | 5035 | |
| 570-56847-43 | G-27-C-15.0 | Total/NA | Solid | 5035 | |

### Analysis Batch: 144522

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-15 | SVP-2-6.5 | Total/NA | Solid | 8015B | 144315 |
| 570-56847-42 | G-27-C-10.0 | Total/NA | Solid | 8015B | 144314 |
| 570-56847-43 | G-27-C-15.0 | Total/NA | Solid | 8015B | 144315 |
| MB 570-144522/5 | Method Blank | Total/NA | Solid | 8015B | |
| MB 570-144522/6 | Method Blank | Total/NA | Solid | 8015B | |
| LCS 570-144522/3 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 570-144522/4 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |

### Analysis Batch: 144904

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-53 | TW-1-GW | Total/NA | Water | 8015B | |
| 570-56847-54 | TW-2-GW | Total/NA | Water | 8015B | |
| 570-56847-55 | TW-3-GW | Total/NA | Water | 8015B | |
| 570-56847-56 | SB-1-GW | Total/NA | Water | 8015B | |
| 570-56847-57 | SB-2-GW | Total/NA | Water | 8015B | |
| 570-56847-58 | SB-3-GW | Total/NA | Water | 8015B | |
| 570-56847-59 | SB-4-GW | Total/NA | Water | 8015B | |
| 570-56847-62 | TB | Total/NA | Water | 8015B | |
| MB 570-144904/5 | Method Blank | Total/NA | Water | 8015B | |
| LCS 570-144904/3 | Lab Control Sample | Total/NA | Water | 8015B | |
| LCSD 570-144904/4 | Lab Control Sample Dup | Total/NA | Water | 8015B | |

## GC Semi VOA

### Prep Batch: 144549

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-28 | SSD-19-1.0 | Total/NA | Solid | 3546 | |
| 570-56847-29 | SSD-19-2.0 | Total/NA | Solid | 3546 | |
| 570-56847-30 | SSD-19-3.0 | Total/NA | Solid | 3546 | |
| 570-56847-33 | SSD-26-3.0 | Total/NA | Solid | 3546 | |
| 570-56847-38 | SSD-28-3.0 | Total/NA | Solid | 3546 | |
| 570-56847-39 | SSD-28-3.5 | Total/NA | Solid | 3546 | |
| 570-56847-40 | SSD-31-3.0 | Total/NA | Solid | 3546 | |
| 570-56847-41 | SSD-31-3.5 | Total/NA | Solid | 3546 | |
| 570-56847-44 | SSD-30-3.0 | Total/NA | Solid | 3546 | |
| 570-56847-45 | SSD-30-3.5 | Total/NA | Solid | 3546 | |
| MB 570-144549/1-A | Method Blank | Total/NA | Solid | 3546 | |
| LCS 570-144549/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| LCSD 570-144549/3-A | Lab Control Sample Dup | Total/NA | Solid | 3546 | |
| 570-56847-45 MS | SSD-30-3.5 | Total/NA | Solid | 3546 | |

## GC Semi VOA (Continued)

### Prep Batch: 144549 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-45 MSD | SSD-30-3.5 | Total/NA | Solid | 3546 | |

### Prep Batch: 144561

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-55 | TW-3-GW | Total/NA | Water | 3510C | |
| MB 570-144561/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 570-144561/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 570-144561/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |

### Prep Batch: 144734

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-55 | TW-3-GW | Silica Gel Cleanup | Water | 3510C SGC | |
| MB 570-144734/1-B | Method Blank | Total/NA | Water | 3510C SGC | |
| LCS 570-144734/2-B | Lab Control Sample | Total/NA | Water | 3510C SGC | |
| LCSD 570-144734/3-B | Lab Control Sample Dup | Total/NA | Water | 3510C SGC | |

### Prep Batch: 144883

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-54 | TW-2-GW | Silica Gel Cleanup | Water | 3510C SGC | |
| 570-56847-54 | TW-2-GW | Total/NA | Water | 3510C SGC | |
| MB 570-144883/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 570-144883/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 570-144883/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |

### Prep Batch: 144922

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 570-144922/1-B | Method Blank | Total/NA | Water | 3510C SGC | |
| LCS 570-144922/2-B | Lab Control Sample | Total/NA | Water | 3510C SGC | |
| LCSD 570-144922/3-B | Lab Control Sample Dup | Total/NA | Water | 3510C SGC | |

### Cleanup Batch: 144925

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-54 | TW-2-GW | Silica Gel Cleanup | Water | 3630C | 144883 |
| MB 570-144922/1-B | Method Blank | Total/NA | Water | 3630C | 144922 |
| LCS 570-144922/2-B | Lab Control Sample | Total/NA | Water | 3630C | 144922 |
| LCSD 570-144922/3-B | Lab Control Sample Dup | Total/NA | Water | 3630C | 144922 |

### Prep Batch: 144979

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-28 | SSD-19-1.0 | Total/NA | Solid | 3541 | |
| 570-56847-29 | SSD-19-2.0 | Total/NA | Solid | 3541 | |
| 570-56847-30 | SSD-19-3.0 | Total/NA | Solid | 3541 | |
| 570-56847-35 | SSD-28-0.0 | Total/NA | Solid | 3541 | |
| 570-56847-36 | SSD-28-0.5 | Total/NA | Solid | 3541 | |
| 570-56847-37 | SSD-28-1.0 | Total/NA | Solid | 3541 | |
| 570-56847-46 | SSD-27-0.0 | Total/NA | Solid | 3541 | |
| 570-56847-47 | SSD-27-0.5 | Total/NA | Solid | 3541 | |
| 570-56847-48 | SSD-27-1.0 | Total/NA | Solid | 3541 | |
| MB 570-144979/1-A | Method Blank | Total/NA | Solid | 3541 | |
| LCS 570-144979/2-A | Lab Control Sample | Total/NA | Solid | 3541 | |
| LCSD 570-144979/3-A | Lab Control Sample Dup | Total/NA | Solid | 3541 | |

## GC Semi VOA

### Prep Batch: 144982

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-53 | TW-1-GW | Total/NA | Water | 3510C | |
| 570-56847-56 | SB-1-GW | Total/NA | Water | 3510C | |
| 570-56847-57 | SB-2-GW | Total/NA | Water | 3510C | |
| 570-56847-58 | SB-3-GW | Total/NA | Water | 3510C | |
| 570-56847-59 | SB-4-GW | Total/NA | Water | 3510C | |
| MB 570-144982/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 570-144982/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 570-144982/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |

### Analysis Batch: 145103

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-28 | SSD-19-1.0 | Total/NA | Solid | 8082 | 144979 |
| 570-56847-29 | SSD-19-2.0 | Total/NA | Solid | 8082 | 144979 |
| 570-56847-30 | SSD-19-3.0 | Total/NA | Solid | 8082 | 144979 |
| 570-56847-35 | SSD-28-0.0 | Total/NA | Solid | 8082 | 144979 |
| 570-56847-36 | SSD-28-0.5 | Total/NA | Solid | 8082 | 144979 |
| 570-56847-37 | SSD-28-1.0 | Total/NA | Solid | 8082 | 144979 |
| 570-56847-46 | SSD-27-0.0 | Total/NA | Solid | 8082 | 144979 |
| 570-56847-47 | SSD-27-0.5 | Total/NA | Solid | 8082 | 144979 |
| 570-56847-48 | SSD-27-1.0 | Total/NA | Solid | 8082 | 144979 |
| MB 570-144979/1-A | Method Blank | Total/NA | Solid | 8082 | 144979 |
| LCS 570-144979/2-A | Lab Control Sample | Total/NA | Solid | 8082 | 144979 |
| LCSD 570-144979/3-A | Lab Control Sample Dup | Total/NA | Solid | 8082 | 144979 |

### Prep Batch: 145218

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-53 | TW-1-GW | Silica Gel Cleanup | Water | 3510C SGC | |
| 570-56847-56 | SB-1-GW | Silica Gel Cleanup | Water | 3510C SGC | |
| 570-56847-57 | SB-2-GW | Silica Gel Cleanup | Water | 3510C SGC | |
| 570-56847-58 | SB-3-GW | Silica Gel Cleanup | Water | 3510C SGC | |
| 570-56847-59 | SB-4-GW | Silica Gel Cleanup | Water | 3510C SGC | |
| MB 570-145218/1-B | Method Blank | Total/NA | Water | 3510C SGC | |
| LCS 570-145218/2-B | Lab Control Sample | Total/NA | Water | 3510C SGC | |
| LCSD 570-145218/3-B | Lab Control Sample Dup | Total/NA | Water | 3510C SGC | |

### Analysis Batch: 145226

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-28 | SSD-19-1.0 | Total/NA | Solid | 8081A | 144549 |
| 570-56847-29 | SSD-19-2.0 | Total/NA | Solid | 8081A | 144549 |
| 570-56847-30 | SSD-19-3.0 | Total/NA | Solid | 8081A | 144549 |
| 570-56847-33 | SSD-26-3.0 | Total/NA | Solid | 8081A | 144549 |
| 570-56847-38 | SSD-28-3.0 | Total/NA | Solid | 8081A | 144549 |
| 570-56847-39 | SSD-28-3.5 | Total/NA | Solid | 8081A | 144549 |
| 570-56847-40 | SSD-31-3.0 | Total/NA | Solid | 8081A | 144549 |
| 570-56847-41 | SSD-31-3.5 | Total/NA | Solid | 8081A | 144549 |
| 570-56847-44 | SSD-30-3.0 | Total/NA | Solid | 8081A | 144549 |
| 570-56847-45 | SSD-30-3.5 | Total/NA | Solid | 8081A | 144549 |
| MB 570-144549/1-A | Method Blank | Total/NA | Solid | 8081A | 144549 |
| LCS 570-144549/2-A | Lab Control Sample | Total/NA | Solid | 8081A | 144549 |
| LCSD 570-144549/3-A | Lab Control Sample Dup | Total/NA | Solid | 8081A | 144549 |
| 570-56847-45 MS | SSD-30-3.5 | Total/NA | Solid | 8081A | 144549 |

## GC Semi VOA (Continued)

### Analysis Batch: 145226 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-45 MSD | SSD-30-3.5 | Total/NA | Solid | 8081A | 144549 |

### Cleanup Batch: 145231

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-53 | TW-1-GW | Silica Gel Cleanup | Water | 3630C | 145218 |
| 570-56847-56 | SB-1-GW | Silica Gel Cleanup | Water | 3630C | 145218 |
| 570-56847-57 | SB-2-GW | Silica Gel Cleanup | Water | 3630C | 145218 |
| 570-56847-58 | SB-3-GW | Silica Gel Cleanup | Water | 3630C | 145218 |
| 570-56847-59 | SB-4-GW | Silica Gel Cleanup | Water | 3630C | 145218 |
| MB 570-145218/1-B | Method Blank | Total/NA | Water | 3630C | 145218 |
| LCS 570-145218/2-B | Lab Control Sample | Total/NA | Water | 3630C | 145218 |
| LCSD 570-145218/3-B | Lab Control Sample Dup | Total/NA | Water | 3630C | 145218 |

### Analysis Batch: 145442

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 570-144883/1-A | Method Blank | Total/NA | Water | 8015B | 144883 |
| LCS 570-144883/2-A | Lab Control Sample | Total/NA | Water | 8015B | 144883 |
| LCSD 570-144883/3-A | Lab Control Sample Dup | Total/NA | Water | 8015B | 144883 |

### Analysis Batch: 145443

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-53 | TW-1-GW | Total/NA | Water | 8015B | 144982 |
| 570-56847-56 | SB-1-GW | Total/NA | Water | 8015B | 144982 |
| 570-56847-57 | SB-2-GW | Total/NA | Water | 8015B | 144982 |
| 570-56847-58 | SB-3-GW | Total/NA | Water | 8015B | 144982 |
| 570-56847-59 | SB-4-GW | Total/NA | Water | 8015B | 144982 |
| MB 570-144982/1-A | Method Blank | Total/NA | Water | 8015B | 144982 |
| LCS 570-144982/2-A | Lab Control Sample | Total/NA | Water | 8015B | 144982 |
| LCSD 570-144982/3-A | Lab Control Sample Dup | Total/NA | Water | 8015B | 144982 |

### Analysis Batch: 145738

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-53 | TW-1-GW | Silica Gel Cleanup | Water | 8015B | 145231 |
| 570-56847-54 | TW-2-GW | Silica Gel Cleanup | Water | 8015B | 144925 |
| 570-56847-54 | TW-2-GW | Total/NA | Water | 8015B | 144883 |
| 570-56847-56 | SB-1-GW | Silica Gel Cleanup | Water | 8015B | 145231 |
| 570-56847-57 | SB-2-GW | Silica Gel Cleanup | Water | 8015B | 145231 |
| 570-56847-58 | SB-3-GW | Silica Gel Cleanup | Water | 8015B | 145231 |
| 570-56847-59 | SB-4-GW | Silica Gel Cleanup | Water | 8015B | 145231 |
| MB 570-144922/1-B | Method Blank | Total/NA | Water | 8015B | 144925 |
| MB 570-145218/1-B | Method Blank | Total/NA | Water | 8015B | 145231 |
| LCS 570-144922/2-B | Lab Control Sample | Total/NA | Water | 8015B | 144925 |
| LCS 570-145218/2-B | Lab Control Sample | Total/NA | Water | 8015B | 145231 |
| LCSD 570-144922/3-B | Lab Control Sample Dup | Total/NA | Water | 8015B | 144925 |
| LCSD 570-145218/3-B | Lab Control Sample Dup | Total/NA | Water | 8015B | 145231 |

### Analysis Batch: 145929

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-55 | TW-3-GW | Silica Gel Cleanup | Water | 8015B | 146035 |
| 570-56847-55 | TW-3-GW | Total/NA | Water | 8015B | 144561 |
| MB 570-144561/1-A | Method Blank | Total/NA | Water | 8015B | 144561 |

## GC Semi VOA (Continued)

### Analysis Batch: 145929 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 570-144734/1-B | Method Blank | Total/NA | Water | 8015B | 146035 |
| LCS 570-144561/2-A | Lab Control Sample | Total/NA | Water | 8015B | 144561 |
| LCS 570-144734/2-B | Lab Control Sample | Total/NA | Water | 8015B | 146035 |
| LCSD 570-144561/3-A | Lab Control Sample Dup | Total/NA | Water | 8015B | 144561 |
| LCSD 570-144734/3-B | Lab Control Sample Dup | Total/NA | Water | 8015B | 146035 |

### Cleanup Batch: 146035

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-55 | TW-3-GW | Silica Gel Cleanup | Water | 3630C | 144734 |
| MB 570-144734/1-B | Method Blank | Total/NA | Water | 3630C | 144734 |
| LCS 570-144734/2-B | Lab Control Sample | Total/NA | Water | 3630C | 144734 |
| LCSD 570-144734/3-B | Lab Control Sample Dup | Total/NA | Water | 3630C | 144734 |

## Metals

### Prep Batch: 144964

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-16 | SSD-15-1.0 | Total/NA | Solid | 3050B | |
| 570-56847-17 | SSD-15-2.0 | Total/NA | Solid | 3050B | |
| 570-56847-18 | SSD-15-3.0 | Total/NA | Solid | 3050B | |
| 570-56847-19 | SSD-15-4.0 | Total/NA | Solid | 3050B | |
| MB 570-144964/1-A | Method Blank | Total/NA | Solid | 3050B | |
| LCS 570-144964/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| LCSD 570-144964/3-A | Lab Control Sample Dup | Total/NA | Solid | 3050B | |

### Prep Batch: 144975

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-20 | SSD-16-1.0 | Total/NA | Solid | 3050B | |
| 570-56847-21 | SSD-16-2.0 | Total/NA | Solid | 3050B | |
| 570-56847-22 | SSD-16-3.0 | Total/NA | Solid | 3050B | |
| 570-56847-23 | SSD-16-4.0 | Total/NA | Solid | 3050B | |
| 570-56847-24 | SSD-17-1.0 | Total/NA | Solid | 3050B | |
| 570-56847-25 | SSD-17-2.0 | Total/NA | Solid | 3050B | |
| 570-56847-26 | SSD-17-3.0 | Total/NA | Solid | 3050B | |
| 570-56847-27 | SSD-17-4.0 | Total/NA | Solid | 3050B | |
| 570-56847-28 | SSD-19-1.0 | Total/NA | Solid | 3050B | |
| 570-56847-29 | SSD-19-2.0 | Total/NA | Solid | 3050B | |
| 570-56847-30 | SSD-19-3.0 | Total/NA | Solid | 3050B | |
| 570-56847-34 | SSD-26-3.5 | Total/NA | Solid | 3050B | |
| 570-56847-49 | SSD-27-3.5 | Total/NA | Solid | 3050B | |
| 570-56847-50 | SSD-27-4.0 | Total/NA | Solid | 3050B | |
| 570-56847-51 | SSD-21-1.0 | Total/NA | Solid | 3050B | |
| 570-56847-52 | SSD-21-2.0 | Total/NA | Solid | 3050B | |
| 570-56847-60 | SSD-21-3.0 | Total/NA | Solid | 3050B | |
| 570-56847-61 | SSD-21-4.0 | Total/NA | Solid | 3050B | |
| MB 570-144975/1-A | Method Blank | Total/NA | Solid | 3050B | |
| LCS 570-144975/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| LCSD 570-144975/3-A | Lab Control Sample Dup | Total/NA | Solid | 3050B | |
| 570-56847-20 MS | SSD-16-1.0 | Total/NA | Solid | 3050B | |
| 570-56847-20 MSD | SSD-16-1.0 | Total/NA | Solid | 3050B | |

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

## Metals

### Analysis Batch: 145216

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-16 | SSD-15-1.0 | Total/NA | Solid | 6010B | 144964 |
| 570-56847-17 | SSD-15-2.0 | Total/NA | Solid | 6010B | 144964 |
| 570-56847-18 | SSD-15-3.0 | Total/NA | Solid | 6010B | 144964 |
| 570-56847-19 | SSD-15-4.0 | Total/NA | Solid | 6010B | 144964 |
| MB 570-144964/1-A | Method Blank | Total/NA | Solid | 6010B | 144964 |
| LCS 570-144964/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 144964 |
| LCSD 570-144964/3-A | Lab Control Sample Dup | Total/NA | Solid | 6010B | 144964 |

### Analysis Batch: 145285

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-56847-20 | SSD-16-1.0 | Total/NA | Solid | 6010B | 144975 |
| 570-56847-21 | SSD-16-2.0 | Total/NA | Solid | 6010B | 144975 |
| 570-56847-22 | SSD-16-3.0 | Total/NA | Solid | 6010B | 144975 |
| 570-56847-23 | SSD-16-4.0 | Total/NA | Solid | 6010B | 144975 |
| 570-56847-24 | SSD-17-1.0 | Total/NA | Solid | 6010B | 144975 |
| 570-56847-25 | SSD-17-2.0 | Total/NA | Solid | 6010B | 144975 |
| 570-56847-26 | SSD-17-3.0 | Total/NA | Solid | 6010B | 144975 |
| 570-56847-27 | SSD-17-4.0 | Total/NA | Solid | 6010B | 144975 |
| 570-56847-28 | SSD-19-1.0 | Total/NA | Solid | 6010B | 144975 |
| 570-56847-29 | SSD-19-2.0 | Total/NA | Solid | 6010B | 144975 |
| 570-56847-30 | SSD-19-3.0 | Total/NA | Solid | 6010B | 144975 |
| 570-56847-34 | SSD-26-3.5 | Total/NA | Solid | 6010B | 144975 |
| 570-56847-49 | SSD-27-3.5 | Total/NA | Solid | 6010B | 144975 |
| 570-56847-50 | SSD-27-4.0 | Total/NA | Solid | 6010B | 144975 |
| 570-56847-51 | SSD-21-1.0 | Total/NA | Solid | 6010B | 144975 |
| 570-56847-52 | SSD-21-2.0 | Total/NA | Solid | 6010B | 144975 |
| 570-56847-60 | SSD-21-3.0 | Total/NA | Solid | 6010B | 144975 |
| 570-56847-61 | SSD-21-4.0 | Total/NA | Solid | 6010B | 144975 |
| MB 570-144975/1-A | Method Blank | Total/NA | Solid | 6010B | 144975 |
| LCS 570-144975/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 144975 |
| LCSD 570-144975/3-A | Lab Control Sample Dup | Total/NA | Solid | 6010B | 144975 |
| 570-56847-20 MS | SSD-16-1.0 | Total/NA | Solid | 6010B | 144975 |
| 570-56847-20 MSD | SSD-16-1.0 | Total/NA | Solid | 6010B | 144975 |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SW-4/MW-14-C-5.0
## Lab Sample ID: 570-56847-1

**Date Collected: 04/13/21 13:10**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.88 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144481 | 04/20/21 19:19 | U4JL | ECL 2 |
| | Instrument ID: GCMSCC | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.08 g | 2 mL | 144547 | 04/20/21 10:32 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 144872 | 04/21/21 17:43 | N8CZ | ECL 1 |
| | Instrument ID: GCMSTT | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.228 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 144226 | 04/19/21 14:22 | A9VE | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |

## Client Sample ID: TW-2-50
## Lab Sample ID: 570-56847-2

**Date Collected: 04/13/21 13:40**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.432 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144481 | 04/20/21 19:46 | U4JL | ECL 2 |
| | Instrument ID: GCMSCC | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.871 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 144226 | 04/19/21 14:46 | A9VE | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |

## Client Sample ID: TW-2-60
## Lab Sample ID: 570-56847-3

**Date Collected: 04/13/21 13:50**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.659 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144481 | 04/20/21 20:13 | U4JL | ECL 2 |
| | Instrument ID: GCMSCC | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 5.8 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 144226 | 04/19/21 15:10 | A9VE | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |

## Client Sample ID: SVP-3-6.5
## Lab Sample ID: 570-56847-4

**Date Collected: 04/13/21 14:10**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.621 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144481 | 04/20/21 20:41 | U4JL | ECL 2 |
| | Instrument ID: GCMSCC | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.06 g | 2 mL | 144547 | 04/20/21 10:32 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 144872 | 04/21/21 18:02 | N8CZ | ECL 1 |
| | Instrument ID: GCMSTT | | | | | | | | | |

## Client Sample ID: SVP-3-6.5
**Lab Sample ID: 570-56847-4**
**Date Collected: 04/13/21 14:10**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.901 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 144226 | 04/19/21 15:33 | A9VE | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |

## Client Sample ID: SB-1-10.0
**Lab Sample ID: 570-56847-5**
**Date Collected: 04/13/21 15:55**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.584 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144481 | 04/20/21 21:08 | U4JL | ECL 2 |
| | Instrument ID: GCMSCC | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.14 g | 2 mL | 144547 | 04/20/21 10:32 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 144872 | 04/21/21 18:21 | N8CZ | ECL 1 |
| | Instrument ID: GCMSTT | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.552 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 144226 | 04/19/21 15:57 | A9VE | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |

## Client Sample ID: SB-1-15.0
**Lab Sample ID: 570-56847-6**
**Date Collected: 04/13/21 16:00**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 3.916 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144481 | 04/20/21 21:36 | U4JL | ECL 2 |
| | Instrument ID: GCMSCC | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.049 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 144226 | 04/19/21 16:21 | A9VE | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |

## Client Sample ID: SB-2-10.0
**Lab Sample ID: 570-56847-7**
**Date Collected: 04/13/21 16:30**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.664 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144782 | 04/21/21 11:23 | BE5H | ECL 2 |
| | Instrument ID: GCMSLL | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.17 g | 2 mL | 144547 | 04/20/21 10:32 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 144872 | 04/21/21 18:40 | N8CZ | ECL 1 |
| | Instrument ID: GCMSTT | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.42 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 144226 | 04/19/21 16:45 | A9VE | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SB-2-15.0
**Lab Sample ID: 570-56847-8**
**Date Collected: 04/13/21 16:40**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.943 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144488 | 04/20/21 15:35 | U4JL | ECL 2 |
| | Instrument ID: GCMSLL | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.778 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 144226 | 04/19/21 17:09 | A9VE | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |

## Client Sample ID: TW-1-10.0
**Lab Sample ID: 570-56847-9**
**Date Collected: 04/14/21 08:30**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 7.28 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144488 | 04/20/21 16:02 | U4JL | ECL 2 |
| | Instrument ID: GCMSLL | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.11 g | 2 mL | 144547 | 04/20/21 10:32 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 144872 | 04/21/21 18:59 | N8CZ | ECL 1 |
| | Instrument ID: GCMSTT | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.724 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 144226 | 04/19/21 17:33 | A9VE | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |

## Client Sample ID: TW-1-20.0
**Lab Sample ID: 570-56847-10**
**Date Collected: 04/14/21 08:35**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 7.139 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 g | 5 mL | 144777 | 04/21/21 11:28 | N1A | ECL 2 |
| | Instrument ID: GCMSCC | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.896 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 144226 | 04/19/21 17:57 | A9VE | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |

## Client Sample ID: TW-1-30.0
**Lab Sample ID: 570-56847-11**
**Date Collected: 04/14/21 09:00**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.922 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144777 | 04/21/21 11:57 | N1A | ECL 2 |
| | Instrument ID: GCMSCC | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.685 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 144226 | 04/19/21 19:36 | A9VE | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: TW-1-40.0
**Lab Sample ID: 570-56847-12**
**Date Collected: 04/14/21 09:50**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.3 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144777 | 04/21/21 12:25 | N1A | ECL 2 |
| | Instrument ID: GCMSCC | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.669 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 144226 | 04/19/21 20:00 | A9VE | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |

## Client Sample ID: SVP-4-6.5
**Lab Sample ID: 570-56847-13**
**Date Collected: 04/14/21 09:10**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.93 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144777 | 04/21/21 12:52 | N1A | ECL 2 |
| | Instrument ID: GCMSCC | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.13 g | 2 mL | 144547 | 04/20/21 10:32 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 144872 | 04/21/21 19:18 | N8CZ | ECL 1 |
| | Instrument ID: GCMSTT | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 5.34 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 144226 | 04/19/21 20:24 | A9VE | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |

## Client Sample ID: SVP-1-6.5
**Lab Sample ID: 570-56847-14**
**Date Collected: 04/14/21 09:30**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.136 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144777 | 04/21/21 13:19 | N1A | ECL 2 |
| | Instrument ID: GCMSCC | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.15 g | 2 mL | 144547 | 04/20/21 10:32 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 144872 | 04/21/21 19:37 | N8CZ | ECL 1 |
| | Instrument ID: GCMSTT | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 5.458 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 144226 | 04/19/21 20:48 | A9VE | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |

## Client Sample ID: SVP-2-6.5
**Lab Sample ID: 570-56847-15**
**Date Collected: 04/14/21 10:00**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.363 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144777 | 04/21/21 13:46 | N1A | ECL 2 |
| | Instrument ID: GCMSCC | | | | | | | | | |

## Client Sample ID: SVP-2-6.5
**Lab Sample ID: 570-56847-15**
**Date Collected: 04/14/21 10:00**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.10 g | 2 mL | 144547 | 04/20/21 10:32 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 144872 | 04/21/21 19:56 | N8CZ | ECL 1 |
| | Instrument ID: GCMSTT | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 5.952 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 144522 | 04/20/21 13:19 | A9VE | ECL 2 |
| | Instrument ID: GC22 | | | | | | | | | |

## Client Sample ID: SSD-15-1.0
**Lab Sample ID: 570-56847-16**
**Date Collected: 04/14/21 10:15**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.94 g | 100 mL | 144964 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145216 | 04/22/21 19:22 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-15-2.0
**Lab Sample ID: 570-56847-17**
**Date Collected: 04/14/21 10:17**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.01 g | 100 mL | 144964 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145216 | 04/22/21 19:24 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-15-3.0
**Lab Sample ID: 570-56847-18**
**Date Collected: 04/14/21 10:19**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.91 g | 100 mL | 144964 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145216 | 04/22/21 19:26 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

## Client Sample ID: SSD-15-4.0
**Lab Sample ID: 570-56847-19**
**Date Collected: 04/14/21 10:21**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.04 g | 100 mL | 144964 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145216 | 04/22/21 19:28 | ULPF | ECL 1 |
| | Instrument ID: ICP8 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-16-1.0
**Lab Sample ID: 570-56847-20**
**Date Collected: 04/14/21 10:30**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.02 g | 100 mL | 144975 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145285 | 04/22/21 13:30 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-16-2.0
**Lab Sample ID: 570-56847-21**
**Date Collected: 04/14/21 10:32**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.97 g | 100 mL | 144975 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145285 | 04/22/21 13:36 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-16-3.0
**Lab Sample ID: 570-56847-22**
**Date Collected: 04/14/21 10:34**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.04 g | 100 mL | 144975 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145285 | 04/22/21 13:38 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-16-4.0
**Lab Sample ID: 570-56847-23**
**Date Collected: 04/14/21 10:36**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.04 g | 100 mL | 144975 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145285 | 04/22/21 13:41 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-17-1.0
**Lab Sample ID: 570-56847-24**
**Date Collected: 04/14/21 10:34**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.99 g | 100 mL | 144975 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145285 | 04/22/21 13:44 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-17-2.0
**Lab Sample ID: 570-56847-25**
**Date Collected: 04/14/21 10:36**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.04 g | 100 mL | 144975 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145285 | 04/22/21 13:50 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-17-3.0
**Lab Sample ID: 570-56847-26**
**Date Collected: 04/14/21 10:38**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.06 g | 100 mL | 144975 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145285 | 04/22/21 13:53 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-17-4.0
**Lab Sample ID: 570-56847-27**
**Date Collected: 04/14/21 10:40**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.03 g | 100 mL | 144975 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145285 | 04/22/21 13:56 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-19-1.0
**Lab Sample ID: 570-56847-28**
**Date Collected: 04/14/21 10:52**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.16 g | 10 mL | 144549 | 04/20/21 10:34 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 145226 | 04/23/21 08:37 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |
| Total/NA | Prep | 3541 | | | 20.10 g | 2 mL | 144979 | 04/21/21 15:57 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 145103 | 04/22/21 16:38 | UHHN | ECL 1 |
| | Instrument ID: GC58 | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 1.96 g | 100 mL | 144975 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145285 | 04/22/21 13:58 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-19-2.0
**Lab Sample ID: 570-56847-29**
**Date Collected: 04/14/21 10:54**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.11 g | 10 mL | 144549 | 04/20/21 10:34 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 145226 | 04/23/21 07:55 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |

## Client Sample ID: SSD-19-2.0
**Lab Sample ID: 570-56847-29**
**Date Collected: 04/14/21 10:54**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3541 | | | 20.14 g | 2 mL | 144979 | 04/21/21 15:57 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 145103 | 04/22/21 16:56 | UHHN | ECL 1 |
| | Instrument ID: GC58 | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 2.02 g | 100 mL | 144975 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145285 | 04/22/21 14:00 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-19-3.0
**Lab Sample ID: 570-56847-30**
**Date Collected: 04/14/21 10:56**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.17 g | 10 mL | 144549 | 04/20/21 10:34 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 145226 | 04/23/21 08:09 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |
| Total/NA | Prep | 3541 | | | 20.11 g | 2 mL | 144979 | 04/21/21 15:57 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 145103 | 04/22/21 17:14 | UHHN | ECL 1 |
| | Instrument ID: GC58 | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 1.94 g | 100 mL | 144975 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145285 | 04/22/21 14:02 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: TW-1-50.0
**Lab Sample ID: 570-56847-31**
**Date Collected: 04/14/21 11:00**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.379 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144777 | 04/21/21 14:15 | N1A | ECL 2 |
| | Instrument ID: GCMSCC | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.033 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 144226 | 04/19/21 21:36 | A9VE | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |

## Client Sample ID: TW-1-60.0
**Lab Sample ID: 570-56847-32**
**Date Collected: 04/14/21 11:30**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.551 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144777 | 04/21/21 14:53 | N1A | ECL 2 |
| | Instrument ID: GCMSCC | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 7.13 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 144226 | 04/19/21 22:00 | A9VE | ECL 2 |
| | Instrument ID: GC53 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SSD-26-3.0
**Lab Sample ID: 570-56847-33**
**Date Collected: 04/15/21 13:44**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.15 g | 10 mL | 144549 | 04/20/21 10:34 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 145226 | 04/23/21 10:17 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |

## Client Sample ID: SSD-26-3.5
**Lab Sample ID: 570-56847-34**
**Date Collected: 04/15/21 13:46**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.97 g | 100 mL | 144975 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145285 | 04/22/21 14:05 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-28-0.0
**Lab Sample ID: 570-56847-35**
**Date Collected: 04/15/21 13:48**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3541 | | | 20.09 g | 2 mL | 144979 | 04/21/21 15:57 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 145103 | 04/22/21 19:20 | UHHN | ECL 1 |
| | Instrument ID: GC58 | | | | | | | | | |

## Client Sample ID: SSD-28-0.5
**Lab Sample ID: 570-56847-36**
**Date Collected: 04/15/21 13:50**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3541 | | | 20.07 g | 2 mL | 144979 | 04/21/21 15:57 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 145103 | 04/22/21 17:50 | UHHN | ECL 1 |
| | Instrument ID: GC58 | | | | | | | | | |

## Client Sample ID: SSD-28-1.0
**Lab Sample ID: 570-56847-37**
**Date Collected: 04/15/21 13:52**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3541 | | | 20.08 g | 2 mL | 144979 | 04/21/21 15:57 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 145103 | 04/22/21 18:08 | UHHN | ECL 1 |
| | Instrument ID: GC58 | | | | | | | | | |

## Client Sample ID: SSD-28-3.0
**Lab Sample ID: 570-56847-38**
**Date Collected: 04/15/21 13:54**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.11 g | 10 mL | 144549 | 04/20/21 10:34 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 145226 | 04/23/21 08:23 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |

## Client Sample ID: SSD-28-3.5
**Lab Sample ID: 570-56847-39**
**Date Collected: 04/15/21 13:56**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.13 g | 10 mL | 144549 | 04/20/21 10:34 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 145226 | 04/23/21 05:18 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |

## Client Sample ID: SSD-31-3.0
**Lab Sample ID: 570-56847-40**
**Date Collected: 04/15/21 13:58**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.17 g | 10 mL | 144549 | 04/20/21 10:34 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 145226 | 04/23/21 08:51 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |

## Client Sample ID: SSD-31-3.5
**Lab Sample ID: 570-56847-41**
**Date Collected: 04/15/21 14:00**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.06 g | 10 mL | 144549 | 04/20/21 10:34 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 145226 | 04/23/21 10:45 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |

## Client Sample ID: G-27-C-10.0
**Lab Sample ID: 570-56847-42**
**Date Collected: 04/15/21 13:30**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.184 g | 5 mL | 144314 | 04/19/21 12:01 | WE4H | ECL 2 |
| Total/NA | Analysis | 8260B | | 5000 | 5 mL | 5 mL | 144782 | 04/21/21 19:33 | BE5H | ECL 2 |
| | Instrument ID: GCMSLL | | | | | | | | | |
| Total/NA | Prep | 3546 | | | 20.08 g | 2 mL | 144547 | 04/20/21 10:32 | F7UI | ECL 1 |
| Total/NA | Analysis | 8270C | | 1 | | | 144872 | 04/21/21 20:15 | N8CZ | ECL 1 |
| | Instrument ID: GCMSTT | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.184 g | 5 mL | 144314 | 04/19/21 12:01 | WE4H | ECL 2 |
| Total/NA | Analysis | 8015B | | 1000 | 5 mL | 5 mL | 144522 | 04/20/21 14:07 | A9VE | ECL 2 |
| | Instrument ID: GC22 | | | | | | | | | |

## Client Sample ID: G-27-C-15.0
## Lab Sample ID: 570-56847-43

**Date Collected: 04/15/21 13:40**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 6.844 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 144777 | 04/21/21 15:27 | N1A | ECL 2 |
| | Instrument ID: GCMSCC | | | | | | | | | |
| Total/NA | Prep | 5035 | | | 6.986 g | 5 g | 144315 | 04/19/21 12:03 | WE4H | ECL 2 |
| Total/NA | Analysis | 8015B | | 1 | 5 g | 5 mL | 144522 | 04/20/21 13:43 | A9VE | ECL 2 |
| | Instrument ID: GC22 | | | | | | | | | |

## Client Sample ID: SSD-30-3.0
## Lab Sample ID: 570-56847-44

**Date Collected: 04/15/21 14:08**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.08 g | 10 mL | 144549 | 04/20/21 10:34 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 145226 | 04/23/21 10:02 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |

## Client Sample ID: SSD-30-3.5
## Lab Sample ID: 570-56847-45

**Date Collected: 04/15/21 14:10**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 20.14 g | 10 mL | 144549 | 04/20/21 10:34 | F7UI | ECL 1 |
| Total/NA | Analysis | 8081A | | 1 | | | 145226 | 04/23/21 10:31 | UHHN | ECL 1 |
| | Instrument ID: GC44 | | | | | | | | | |

## Client Sample ID: SSD-27-0.0
## Lab Sample ID: 570-56847-46

**Date Collected: 04/15/21 14:12**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3541 | | | 20.09 g | 2 mL | 144979 | 04/21/21 15:57 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 145103 | 04/22/21 18:26 | UHHN | ECL 1 |
| | Instrument ID: GC58 | | | | | | | | | |

## Client Sample ID: SSD-27-0.5
## Lab Sample ID: 570-56847-47

**Date Collected: 04/15/21 14:14**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3541 | | | 20.09 g | 2 mL | 144979 | 04/21/21 15:57 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 145103 | 04/22/21 18:44 | UHHN | ECL 1 |
| | Instrument ID: GC58 | | | | | | | | | |

## Client Sample ID: SSD-27-1.0
**Lab Sample ID: 570-56847-48**
**Date Collected: 04/15/21 14:16**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3541 | | | 20.19 g | 2 mL | 144979 | 04/21/21 15:57 | UM1W | ECL 1 |
| Total/NA | Analysis | 8082 | | 1 | | | 145103 | 04/22/21 19:02 | UHHN | ECL 1 |
| | Instrument ID: GC58 | | | | | | | | | |

## Client Sample ID: SSD-27-3.5
**Lab Sample ID: 570-56847-49**
**Date Collected: 04/15/21 14:18**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.00 g | 100 mL | 144975 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145285 | 04/22/21 14:07 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-27-4.0
**Lab Sample ID: 570-56847-50**
**Date Collected: 04/15/21 14:20**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.02 g | 100 mL | 144975 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145285 | 04/22/21 14:09 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-21-1.0
**Lab Sample ID: 570-56847-51**
**Date Collected: 04/15/21 14:22**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.00 g | 100 mL | 144975 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145285 | 04/22/21 14:12 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-21-2.0
**Lab Sample ID: 570-56847-52**
**Date Collected: 04/15/21 14:24**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.01 g | 100 mL | 144975 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145285 | 04/22/21 14:21 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: TW-1-GW
**Lab Sample ID: 570-56847-53**
**Date Collected: 04/15/21 15:30**
**Matrix: Water**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 20 mL | 20 mL | 145291 | 04/23/21 01:18 | OH1 | ECL 2 |
| | Instrument ID: GCMSVV | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: TW-1-GW
**Lab Sample ID: 570-56847-53**
**Date Collected: 04/15/21 15:30**
**Matrix: Water**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015B | | 1 | 5 mL | 5 mL | 144904 | 04/21/21 20:27 | P1R | ECL 2 |
| Silica Gel Cleanup | Prep | 3510C SGC | | | 506.3 mL | 2.5 mL | 145218 | 04/22/21 13:08 | UFLU | ECL 1 |
| Silica Gel Cleanup | Cleanup | 3630C | | | 1 mL | 1 mL | 145231 | 04/22/21 13:08 | UFLU | ECL 1 |
| Silica Gel Cleanup | Analysis | 8015B | | 1 | | | 145738 | 04/25/21 07:57 | A1W | ECL 1 |
| | Instrument ID: GC47 | | | | | | | | | |
| Total/NA | Prep | 3510C | | | 506.3 mL | 2.5 mL | 144982 | 04/21/21 16:08 | UFLU | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 145443 | 04/24/21 00:04 | N5Y3 | ECL 1 |
| | Instrument ID: GC47 | | | | | | | | | |

## Client Sample ID: TW-2-GW
**Lab Sample ID: 570-56847-54**
**Date Collected: 04/14/21 15:45**
**Matrix: Water**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 2 | 20 mL | 20 mL | 145291 | 04/23/21 05:35 | OH1 | ECL 2 |
| | Instrument ID: GCMSVV | | | | | | | | | |
| Total/NA | Analysis | 8015B | | 1 | 5 mL | 5 mL | 144904 | 04/21/21 21:44 | P1R | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |
| Silica Gel Cleanup | Prep | 3510C SGC | | | 502.9 mL | 2.5 mL | 144883 | 04/21/21 17:00 | UFLU | ECL 1 |
| Silica Gel Cleanup | Cleanup | 3630C | | | 1 mL | 1 mL | 144925 | 04/21/21 17:05 | UFLU | ECL 1 |
| Silica Gel Cleanup | Analysis | 8015B | | 1 | | | 145738 | 04/24/21 23:52 | A1W | ECL 1 |
| | Instrument ID: GC47 | | | | | | | | | |
| Total/NA | Prep | 3510C SGC | | | 502.9 mL | 2.5 mL | 144883 | 04/21/21 17:00 | UFLU | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 145738 | 04/25/21 06:24 | A1W | ECL 1 |
| | Instrument ID: GC47 | | | | | | | | | |

## Client Sample ID: TW-3-GW
**Lab Sample ID: 570-56847-55**
**Date Collected: 04/13/21 15:10**
**Matrix: Water**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 20 mL | 20 mL | 145291 | 04/23/21 01:44 | OH1 | ECL 2 |
| | Instrument ID: GCMSVV | | | | | | | | | |
| Total/NA | Analysis | 8015B | | 1 | 5 mL | 5 mL | 144904 | 04/21/21 22:08 | P1R | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |
| Silica Gel Cleanup | Prep | 3510C SGC | | | 501.4 mL | 2.5 mL | 144734 | 04/20/21 11:14 | N5Y3 | ECL 1 |
| Silica Gel Cleanup | Cleanup | 3630C | | | 1 mL | 1 mL | 146035 | 04/20/21 11:14 | N5Y3 | ECL 1 |
| Silica Gel Cleanup | Analysis | 8015B | | 1 | | | 145929 | 04/26/21 16:48 | N5Y3 | ECL 1 |
| | Instrument ID: GC47 | | | | | | | | | |
| Total/NA | Prep | 3510C | | | 501.4 mL | 2.5 mL | 144561 | 04/20/21 11:14 | UYUW | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 145929 | 04/26/21 16:03 | N5Y3 | ECL 1 |
| | Instrument ID: GC47 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SB-1-GW
**Lab Sample ID: 570-56847-56**
**Date Collected: 04/15/21 10:50**
**Matrix: Water**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 20 mL | 20 mL | 145291 | 04/23/21 02:10 | OH1 | ECL 2 |
| | Instrument ID: GCMSVV | | | | | | | | | |
| Total/NA | Analysis | 8015B | | 1 | 5 mL | 5 mL | 144904 | 04/21/21 22:32 | P1R | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |
| Silica Gel Cleanup | Prep | 3510C SGC | | | 467.4 mL | 2.5 mL | 145218 | 04/22/21 13:08 | UFLU | ECL 1 |
| Silica Gel Cleanup | Cleanup | 3630C | | | 1 mL | 1 mL | 145231 | 04/22/21 13:08 | UFLU | ECL 1 |
| Silica Gel Cleanup | Analysis | 8015B | | 1 | | | 145738 | 04/25/21 08:19 | A1W | ECL 1 |
| | Instrument ID: GC47 | | | | | | | | | |
| Total/NA | Prep | 3510C | | | 467.4 mL | 2.5 mL | 144982 | 04/21/21 16:08 | UFLU | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 145443 | 04/24/21 00:51 | N5Y3 | ECL 1 |
| | Instrument ID: GC47 | | | | | | | | | |

## Client Sample ID: SB-2-GW
**Lab Sample ID: 570-56847-57**
**Date Collected: 04/15/21 13:55**
**Matrix: Water**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 20 mL | 20 mL | 145291 | 04/23/21 02:35 | OH1 | ECL 2 |
| | Instrument ID: GCMSVV | | | | | | | | | |
| Total/NA | Analysis | 8015B | | 1 | 5 mL | 5 mL | 144904 | 04/21/21 22:56 | P1R | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |
| Silica Gel Cleanup | Prep | 3510C SGC | | | 540.2 mL | 2.5 mL | 145218 | 04/22/21 13:08 | UFLU | ECL 1 |
| Silica Gel Cleanup | Cleanup | 3630C | | | 1 mL | 1 mL | 145231 | 04/22/21 13:08 | UFLU | ECL 1 |
| Silica Gel Cleanup | Analysis | 8015B | | 1 | | | 145738 | 04/25/21 08:44 | A1W | ECL 1 |
| | Instrument ID: GC47 | | | | | | | | | |
| Total/NA | Prep | 3510C | | | 540.2 mL | 2.5 mL | 144982 | 04/21/21 16:08 | UFLU | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 145443 | 04/24/21 01:13 | N5Y3 | ECL 1 |
| | Instrument ID: GC47 | | | | | | | | | |

## Client Sample ID: SB-3-GW
**Lab Sample ID: 570-56847-58**
**Date Collected: 04/15/21 15:40**
**Matrix: Water**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 20 mL | 20 mL | 145291 | 04/23/21 03:01 | OH1 | ECL 2 |
| | Instrument ID: GCMSVV | | | | | | | | | |
| Total/NA | Analysis | 8015B | | 1 | 5 mL | 5 mL | 144904 | 04/21/21 23:20 | P1R | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |
| Silica Gel Cleanup | Prep | 3510C SGC | | | 545.8 mL | 2.5 mL | 145218 | 04/22/21 13:08 | UFLU | ECL 1 |
| Silica Gel Cleanup | Cleanup | 3630C | | | 1 mL | 1 mL | 145231 | 04/22/21 13:08 | UFLU | ECL 1 |
| Silica Gel Cleanup | Analysis | 8015B | | 1 | | | 145738 | 04/25/21 09:06 | A1W | ECL 1 |
| | Instrument ID: GC47 | | | | | | | | | |
| Total/NA | Prep | 3510C | | | 545.8 mL | 2.5 mL | 144982 | 04/21/21 16:08 | UFLU | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 145443 | 04/24/21 01:36 | N5Y3 | ECL 1 |
| | Instrument ID: GC47 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SB-4-GW
**Lab Sample ID: 570-56847-59**
**Date Collected: 04/15/21 15:45**
**Matrix: Water**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 20 mL | 20 mL | 145291 | 04/23/21 03:27 | OH1 | ECL 2 |
| | Instrument ID: GCMSVV | | | | | | | | | |
| Total/NA | Analysis | 8015B | | 1 | 5 mL | 5 mL | 144904 | 04/21/21 23:44 | P1R | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |
| Silica Gel Cleanup | Prep | 3510C SGC | | | 509 mL | 2.5 mL | 145218 | 04/22/21 13:08 | UFLU | ECL 1 |
| Silica Gel Cleanup | Cleanup | 3630C | | | 1 mL | 1 mL | 145231 | 04/22/21 13:08 | UFLU | ECL 1 |
| Silica Gel Cleanup | Analysis | 8015B | | 1 | | | 145738 | 04/25/21 09:31 | A1W | ECL 1 |
| | Instrument ID: GC47 | | | | | | | | | |
| Total/NA | Prep | 3510C | | | 509 mL | 2.5 mL | 144982 | 04/21/21 16:08 | UFLU | ECL 1 |
| Total/NA | Analysis | 8015B | | 1 | | | 145443 | 04/24/21 01:58 | N5Y3 | ECL 1 |
| | Instrument ID: GC47 | | | | | | | | | |

## Client Sample ID: SSD-21-3.0
**Lab Sample ID: 570-56847-60**
**Date Collected: 04/15/21 14:26**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 1.95 g | 100 mL | 144975 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145285 | 04/22/21 14:24 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: SSD-21-4.0
**Lab Sample ID: 570-56847-61**
**Date Collected: 04/15/21 14:28**
**Matrix: Solid**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.04 g | 100 mL | 144975 | 04/21/21 16:00 | SP7J | ECL 1 |
| Total/NA | Analysis | 6010B | | 1 | | | 145285 | 04/22/21 14:26 | ULPF | ECL 1 |
| | Instrument ID: ICP9 | | | | | | | | | |

## Client Sample ID: TB
**Lab Sample ID: 570-56847-62**
**Date Collected: 04/12/21 00:00**
**Matrix: Water**
**Date Received: 04/17/21 10:05**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 20 mL | 20 mL | 145291 | 04/22/21 22:19 | OH1 | ECL 2 |
| | Instrument ID: GCMSVV | | | | | | | | | |
| Total/NA | Analysis | 8015B | | 1 | 5 mL | 5 mL | 144904 | 04/22/21 00:32 | P1R | ECL 2 |
| | Instrument ID: GC1 | | | | | | | | | |

**Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

EMLab = EMLab - Irvine, 17461 Derian Ave., Suite 100, Irvine, CA 92614

# Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

## Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Arkansas DEQ | State | 88-0161 | 11-19-21 |
| California | Los Angeles County Sanitation Districts | 10109 | 09-30-21 |
| California | SCAQMD LAP | 17LA0919 | 11-30-21 |
| California | State | 2944 | 09-30-21 |
| Guam | State | 20-003R | 10-31-20 * |
| Nevada | State | CA00111 | 07-31-21 |
| Oregon | NELAP | CA300001 | 01-30-22 |
| USDA | US Federal Programs | P330-20-00034 | 02-10-23 |
| Washington | State | C916-18 | 10-11-21 |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | ECL 2 |
| 8270C | Semivolatile Organic Compounds (GC/MS) | SW846 | ECL 1 |
| 8015B | Gasoline Range Organics - (GC) | SW846 | ECL 2 |
| 8015B | Diesel Range Organics(DRO)/Oil Range Organics (ORO) | SW846 | ECL 1 |
| 8015B | Diesel Range Organics(DRO)/Oil Range Organics (ORO) with Silica Gel Cleanup | SW846 | ECL 1 |
| 8081A | Organochlorine Pesticides (GC) | SW846 | ECL 1 |
| 8082 | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | ECL 1 |
| 6010B | Metals (ICP) | SW846 | ECL 1 |
| Subcontract | Asbestos CARB-435 | None | EMLab |
| 3050B | Preparation, Metals | SW846 | ECL 1 |
| 3510C | Liquid-Liquid Extraction (Separatory Funnel) | SW846 | ECL 1 |
| 3510C SGC | Liquid-Liquid Extraction (Separatory Funnel) | SW846 | ECL 1 |
| 3541 | Automated Soxhlet Extraction | SW846 | ECL 1 |
| 3546 | Microwave Extraction | SW846 | ECL 1 |
| 3630C | Silica Gel Cleanup | SW846 | ECL 1 |
| 5030C | Purge and Trap | SW846 | ECL 2 |
| 5035 | Closed System Purge and Trap | SW846 | ECL 2 |

**Protocol References:**

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

EMLab = EMLab - Irvine, 17461 Derian Ave., Suite 100, Irvine, CA 92614

# Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145 Oakland Center Street

Job ID: 570-56847-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 570-56847-1 | SW-4/MW-14-C-5.0 | Solid | 04/13/21 13:10 | 04/17/21 10:05 | |
| 570-56847-2 | TW-2-50 | Solid | 04/13/21 13:40 | 04/17/21 10:05 | |
| 570-56847-3 | TW-2-60 | Solid | 04/13/21 13:50 | 04/17/21 10:05 | |
| 570-56847-4 | SVP-3-6.5 | Solid | 04/13/21 14:10 | 04/17/21 10:05 | |
| 570-56847-5 | SB-1-10.0 | Solid | 04/13/21 15:55 | 04/17/21 10:05 | |
| 570-56847-6 | SB-1-15.0 | Solid | 04/13/21 16:00 | 04/17/21 10:05 | |
| 570-56847-7 | SB-2-10.0 | Solid | 04/13/21 16:30 | 04/17/21 10:05 | |
| 570-56847-8 | SB-2-15.0 | Solid | 04/13/21 16:40 | 04/17/21 10:05 | |
| 570-56847-9 | TW-1-10.0 | Solid | 04/14/21 08:30 | 04/17/21 10:05 | |
| 570-56847-10 | TW-1-20.0 | Solid | 04/14/21 08:35 | 04/17/21 10:05 | |
| 570-56847-11 | TW-1-30.0 | Solid | 04/14/21 09:00 | 04/17/21 10:05 | |
| 570-56847-12 | TW-1-40.0 | Solid | 04/14/21 09:50 | 04/17/21 10:05 | |
| 570-56847-13 | SVP-4-6.5 | Solid | 04/14/21 09:10 | 04/17/21 10:05 | |
| 570-56847-14 | SVP-1-6.5 | Solid | 04/14/21 09:30 | 04/17/21 10:05 | |
| 570-56847-15 | SVP-2-6.5 | Solid | 04/14/21 10:00 | 04/17/21 10:05 | |
| 570-56847-16 | SSD-15-1.0 | Solid | 04/14/21 10:15 | 04/17/21 10:05 | |
| 570-56847-17 | SSD-15-2.0 | Solid | 04/14/21 10:17 | 04/17/21 10:05 | |
| 570-56847-18 | SSD-15-3.0 | Solid | 04/14/21 10:19 | 04/17/21 10:05 | |
| 570-56847-19 | SSD-15-4.0 | Solid | 04/14/21 10:21 | 04/17/21 10:05 | |
| 570-56847-20 | SSD-16-1.0 | Solid | 04/14/21 10:30 | 04/17/21 10:05 | |
| 570-56847-21 | SSD-16-2.0 | Solid | 04/14/21 10:32 | 04/17/21 10:05 | |
| 570-56847-22 | SSD-16-3.0 | Solid | 04/14/21 10:34 | 04/17/21 10:05 | |
| 570-56847-23 | SSD-16-4.0 | Solid | 04/14/21 10:36 | 04/17/21 10:05 | |
| 570-56847-24 | SSD-17-1.0 | Solid | 04/14/21 10:34 | 04/17/21 10:05 | |
| 570-56847-25 | SSD-17-2.0 | Solid | 04/14/21 10:36 | 04/17/21 10:05 | |
| 570-56847-26 | SSD-17-3.0 | Solid | 04/14/21 10:38 | 04/17/21 10:05 | |
| 570-56847-27 | SSD-17-4.0 | Solid | 04/14/21 10:40 | 04/17/21 10:05 | |
| 570-56847-28 | SSD-19-1.0 | Solid | 04/14/21 10:52 | 04/17/21 10:05 | |
| 570-56847-29 | SSD-19-2.0 | Solid | 04/14/21 10:54 | 04/17/21 10:05 | |
| 570-56847-30 | SSD-19-3.0 | Solid | 04/14/21 10:56 | 04/17/21 10:05 | |
| 570-56847-31 | TW-1-50.0 | Solid | 04/14/21 11:00 | 04/17/21 10:05 | |
| 570-56847-32 | TW-1-60.0 | Solid | 04/14/21 11:30 | 04/17/21 10:05 | |
| 570-56847-33 | SSD-26-3.0 | Solid | 04/15/21 13:44 | 04/17/21 10:05 | |
| 570-56847-34 | SSD-26-3.5 | Solid | 04/15/21 13:46 | 04/17/21 10:05 | |
| 570-56847-35 | SSD-28-0.0 | Solid | 04/15/21 13:48 | 04/17/21 10:05 | |
| 570-56847-36 | SSD-28-0.5 | Solid | 04/15/21 13:50 | 04/17/21 10:05 | |
| 570-56847-37 | SSD-28-1.0 | Solid | 04/15/21 13:52 | 04/17/21 10:05 | |
| 570-56847-38 | SSD-28-3.0 | Solid | 04/15/21 13:54 | 04/17/21 10:05 | |
| 570-56847-39 | SSD-28-3.5 | Solid | 04/15/21 13:56 | 04/17/21 10:05 | |
| 570-56847-40 | SSD-31-3.0 | Solid | 04/15/21 13:58 | 04/17/21 10:05 | |
| 570-56847-41 | SSD-31-3.5 | Solid | 04/15/21 14:00 | 04/17/21 10:05 | |
| 570-56847-42 | G-27-C-10.0 | Solid | 04/15/21 13:30 | 04/17/21 10:05 | |
| 570-56847-43 | G-27-C-15.0 | Solid | 04/15/21 13:40 | 04/17/21 10:05 | |
| 570-56847-44 | SSD-30-3.0 | Solid | 04/15/21 14:08 | 04/17/21 10:05 | |
| 570-56847-45 | SSD-30-3.5 | Solid | 04/15/21 14:10 | 04/17/21 10:05 | |
| 570-56847-46 | SSD-27-0.0 | Solid | 04/15/21 14:12 | 04/17/21 10:05 | |
| 570-56847-47 | SSD-27-0.5 | Solid | 04/15/21 14:14 | 04/17/21 10:05 | |
| 570-56847-48 | SSD-27-1.0 | Solid | 04/15/21 14:16 | 04/17/21 10:05 | |
| 570-56847-49 | SSD-27-3.5 | Solid | 04/15/21 14:18 | 04/17/21 10:05 | |
| 570-56847-50 | SSD-27-4.0 | Solid | 04/15/21 14:20 | 04/17/21 10:05 | |
| 570-56847-51 | SSD-21-1.0 | Solid | 04/15/21 14:22 | 04/17/21 10:05 | |
| 570-56847-52 | SSD-21-2.0 | Solid | 04/15/21 14:24 | 04/17/21 10:05 | |
| 570-56847-53 | TW-1-GW | Water | 04/15/21 15:30 | 04/17/21 10:05 | |

# Sample Summary

Client: ARCADIS U.S. Inc
Job ID: 570-56847-1
Project/Site: Chevron 206145 Oakland Center Street

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 570-56847-54 | TW-2-GW | Water | 04/14/21 15:45 | 04/17/21 10:05 | |
| 570-56847-55 | TW-3-GW | Water | 04/13/21 15:10 | 04/17/21 10:05 | |
| 570-56847-56 | SB-1-GW | Water | 04/15/21 10:50 | 04/17/21 10:05 | |
| 570-56847-57 | SB-2-GW | Water | 04/15/21 13:55 | 04/17/21 10:05 | |
| 570-56847-58 | SB-3-GW | Water | 04/15/21 15:40 | 04/17/21 10:05 | |
| 570-56847-59 | SB-4-GW | Water | 04/15/21 15:45 | 04/17/21 10:05 | |
| 570-56847-60 | SSD-21-3.0 | Solid | 04/15/21 14:26 | 04/17/21 10:05 | |
| 570-56847-61 | SSD-21-4.0 | Solid | 04/15/21 14:28 | 04/17/21 10:05 | |
| 570-56847-62 | TB | Water | 04/12/21 00:00 | 04/17/21 10:05 | |

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Report for:

**Lena Davidkova**
**Eurofins Calscience LLC**
17461 Derian Ave.
Suite 100
Irvine, CA 92614

Regarding: Project: 570-56847-1; Chevron 206145 Oakland Center Street
EML ID: 2625156

Approved by:

Murali R Putty

Technical Manager
Murali Putty

Dates of Analysis:
Asbestos-CARB 435 (1000 pt ct): 05-03-2021

Service SOPs: Asbestos-CARB 435 (1000 pt ct) (EM-AS-S-1265)
NVLAP Lab Code 200728-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

**Eurofins EMLab P&K**
6000 Shoreline Ct, Ste 205, So. San Francisco, CA 94080
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Eurofins Calscience LLC
C/O: Lena Davidkova
Re: 570-56847-1; Chevron 206145 Oakland Center Street

Date of Sampling: 04-14-2021
Date of Receipt: 04-22-2021
Date of Report: 05-03-2021

## ASBESTOS POINT COUNT REPORT: CARB METHOD 435

| Location: | SSD-19-1 (570-56847-28) | | |
|---|---|---|---|
| Total Points Counted: | 1000 | | |
| Lab ID-Version‡: | 12535286-1 | | |
| **Sample Layers** | **Asbestos Type** | **Asbestos Points Counted** | **Asbestos Concentration (%)** |
| Brown Soil | - | - | ND |
| **Layer Totals:** | | - | - |

**Comments:** No asbestos was detected and no points were counted.

| Location: | SSD-19-2 (570-56847-29) | | |
|---|---|---|---|
| Total Points Counted: | 1000 | | |
| Lab ID-Version‡: | 12535287-1 | | |
| **Sample Layers** | **Asbestos Type** | **Asbestos Points Counted** | **Asbestos Concentration (%)** |
| Brown Soil | - | - | ND |
| **Layer Totals:** | | - | - |

**Comments:** No asbestos was detected and no points were counted.

| Location: | SSD-19-3 (570-56847-30) | | |
|---|---|---|---|
| Total Points Counted: | 1000 | | |
| Lab ID-Version‡: | 12535288-1 | | |
| **Sample Layers** | **Asbestos Type** | **Asbestos Points Counted** | **Asbestos Concentration (%)** |
| Brown Soil | - | - | ND |
| **Layer Totals:** | | - | - |

**Comments:** No asbestos was detected and no points were counted.

The analytical sensitivity is 1 asbestos point. The limit of detection is 1 asbestos point divided by the total number of points counted and multiplied by 100.

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government.

All samples were received in acceptable condition unless otherwise noted. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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# CHAIN OF CUSTODY RECORD

DATE: 4/13/21

PAGE: 1 OF 7

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For courier service / sample drop off information, contact us26_sales@eurofinsus com or call us

570-56847 Chain of Custody

LABORATORY CLIENT: Arcadis U S Inc

ADDRESS: 2300 Clayton Rd Ste 400

CITY: Concord STATE: CA ZIP: 94520

TEL.: 609-216-8139 E-MAIL.: Nicholas Cardella@arcadis.com

Chevron 206145

PO NO: 30045659

PROJECT CONTACT: Nicholas Cardella

SAMPLER(S). (PRINT): Radley A and Mia J

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD").

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS

## REQUESTED ANALYSES

Please check box or fill in blank as needed

| LAB USE ONLY | SAMPLE ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered | TPH-g by USEPA Method 8015 Modified | TPH-d by USEPA Method 8015 Modified | Full list VOCs by USEPA Method 8260B | PAHs and Naphthalene by USEPA Method 8270B | Lead by USEPA Method 6010B | Asbestos - CARB 435A | PCBs by USEPA Method 8082 with 541-Automated Soxhlet Extraction | OCPs by USEPA Method 8081A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SVP-4/MW-14-C-50 | 4/13/21 | 1310 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 2 | TW-2-50 | | 1340 | Soil | 5 | | X | | X | X | X | | | | | |
| 3 | TW-2-60 | | 1350 | Soil | 5 | | X | | X | X | X | | | | | |
| 4 | SVP-3-6.5 | | 1410 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 5 | SB-1-10.0 | | 1555 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 6 | SB-1-15.0 | | 1600 | Soil | 5 | | X | | X | X | X | | | | | |
| 7 | SB-2-10.0 | | 1630 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 8 | SB-2-15.0 | ↓ | 1640 | Soil | 5 | | X | | X | X | X | | | | | |
| 9 | TW-1-10.0 | 4/14/21 | 0830 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 10 | TW-1-20.0 | ↓ | 0835 | Soil | 5 | | X | | X | X | X | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: 4/16/21 | Time: 1315 |
| Relinquished by: (Signature) to GSO 4/16/21 1630 | Received by: (Signature/Affiliation) | Date: 4/17/21 | Time: 1005 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date | Time |

* 3.4/3.8 SCS (received 4/16/21 at 1235)

3.0/4.2 ; 3.5/3.9 SCS

06/02/14 Revision

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# CHAIN OF CUSTODY RECORD

7440 Lincoln Way Garden Grove CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

WO # / LAB USE ONLY

DATE: 4/14/21

PAGE: 2 OF 7

LABORATORY CLIENT: Arcadis U S Inc

ADDRESS: 2300 Clayton Rd Ste 400

CITY: Concord STATE: CA ZIP: 94520

TEL: 609-216-8139 E-MAIL: Nicholas Cardella@arcadis com

CLIENT PROJECT NAME / NUMBER: Chevron 206145

PO NO: 30045659

PROJECT CONTACT: Nicholas Cardella

SAMPLER(S) (PRINT): Radley A and Mia J

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE

SPECIAL INSTRUCTIONS.

## REQUESTED ANALYSES

Please check box or fill in blank as needed

| LAB USE ONLY | SAMPLE ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered | TPH-g by USEPA Method 8015 Modified | TPH-d by USEPA Method 8015 Modified | Full list VOCs by USEPA Method 8260B | PAHs and Naphthalene by USEPA Method 8270B | Lead by USEPA Method 6010B | Asbestos - CARB 435A | PCBs by USEPA Method 8082 with 541-Automated Soxhlet Extraction | OCPs by USEPA Method 8081A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | TW-1-30 | 4/14/21 | 0900 | Soil | 5 | | X | | X | X | X | | | | | |
| 12 | TW-1-40.0 | | 0950 | Soil | 5 | | X | | X | X | X | | | | | |
| 13 | SVP-4-6.5 | | 0910 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 14 | SVP-1-6.5 | | 0930 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 15 | SVP-2-6.5 | | 1000 | Soil | 6 | X | X | | X | X | X | X | | | | |
| 16 | SSD-15 -1.0 | | 1015 | Soil | 1 | X | | | | | | | X | | | |
| 17 | SSD-15-2.0 | | 1017 | Soil | 1 | X | | | | | | | X | | | |
| 18 | SSD-15-3.0 | | 1019 | Soil | 1 | X | | | | | | | X | | | |
| 19 | SSD-15-4.0 | | 1021 | Soil | 1 | X | | | | | | | X | | | |
| 20 | SSD-16-1.0 | | 1030 | Soil | 1 | X | | | | | | | X | | | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: 4/16/21 | Time: 1315 |
| Relinquished by: (Signature) to Eso 4/16/21 1630 | Received by: (Signature/Affiliation) dlankel ei | Date: 4/17/21 | Time: 1005 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: | Time: |

06/02/14 Revision

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# CHAIN OF CUSTODY RECORD

7440 Lincoln Way Garden Grove CA 92841-1427 • (714) 895-5494
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WO # / LAB USE ONLY

DATE: 4/16

PAGE: 3 OF 7

LABORATORY CLIENT: Arcadis U S Inc

ADDRESS: 2300 Clayton Rd Ste 400

CITY: Concord STATE: CA ZIP: 94520

TEL: 609-216-8139 E-MAIL: Nicholas.Cardella@arcadis.com

CLIENT PROJECT NAME / NUMBER: Chevron 206145

P.O. NO: 30045659

PROJECT CONTACT: Nicholas Cardella

SAMPLER(S): (PRINT): Radley A and Mia J

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS.

## REQUESTED ANALYSES

Please check box or fill in blank as needed

| LAB USE ONLY | SAMPLE ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered | TPH-g by USEPA Method 8015 Modified | TPH-d by USEPA Method 8015 Modified | Full list VOCs by USEPA Method 8260B | PAHs and Naphthalene by USEPA Method 8270B | Lead by USEPA Method 6010B | Asbestos - CARB 435A | PCBs by USEPA Method 8082 with 541-Automated Soxhlet Extraction | OCPs by USEPA Method 8081A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | SSD-16-2.0 | 4/14/21 | 1032 | Soil | 1 | X | | | | | | | X | | | |
| 22 | SSD-16-3.0 | | 1034 | Soil | 1 | X | | | | | | | X | | | |
| 23 | SSD-16-4.0 | | 1036 | Soil | 1 | X | | | | | | | X | | | |
| 24 | SSD-17-1.0 | | 1034 | Soil | 1 | X | | | | | | | X | | | |
| 25 | SSD-17-2.0 | | 1036 | Soil | 1 | X | | | | | | | X | | | |
| 26 | SSD-17-3.0 | | 1038 | Soil | 1 | X | | | | | | | X | | | |
| 27 | SSD-17-4.0 | | 1040 | Soil | 1 | X | | | | | | | X | | | |
| 28 | SSD-19-1.0 | | 1052 | Soil | 2 | X | | | | | | | X | X | X | X |
| 29 | SSD-19-2.0 | | 1054 | Soil | 2 | X | | | | | | | X | X | X | X |
| 30 | SSD-19-3.0 | | 1056 | Soil | 2 | X | | | | | | | X | X | X | X |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: 4/16/21 | Time: 1315 |
| Relinquished by: (Signature) to GSO 4/16/21 1630 | Received by: (Signature/Affiliation) Monkel Eri | Date: 4/17/21 | Time: 1005 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: | Time: |

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# CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 4/14

PAGE: 4 OF 7

LABORATORY CLIENT: Arcadis U.S Inc

ADDRESS: 2300 Clayton Rd Ste 400

CITY: Concord STATE: CA ZIP: 94520

TEL: 609-216-8139 E-MAIL: Nicholas.Cardella@arcadis com

CLIENT PROJECT NAME / NUMBER: Chevron 206145

PO NO: 30045659

PROJECT CONTACT: Nicholas Cardella

SAMPLER(S): (PRINT) Radley A and Mia J

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

## REQUESTED ANALYSES

Please check box or fill in blank as needed

| LAB USE ONLY | SAMPLE ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered | TPH-g by USEPA Method 8015 Modified | TPH-d by USEPA Method 8015 Modified | Full list VOCS by USEPA Method 8260B | PAHs and Naphthalene by USEPA Method 8270B | Lead by USEPA Method 6010B | Asbestos - CARB 435A | PCBs by USEPA Method 8082 with 541-Automated Soxhlet Extraction | OCPs by USEPA Method 8081A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | TW-1-50.0 | 4/14/21 | 1100 | Soil | 5 | | X | | X | X | X | | | | | |
| 32 | TW-1-60.0 | 4/14/21 | 1130 | Soil | 5 | | X | | X | X | X | | | | | |
| | | | | Soil | | | | | | | | | | | | |
| | | | | Soil | | | | | | | | | | | | |
| | | | | Soil | | | | | | | | | | | | |
| | | | | Soil | | | | | | | | | | | | |
| | | | | Soil | | | | | | | | | | | | |
| | | | | Soil | | | | | | | | | | | | |
| | | | | Soil | | | | | | | | | | | | |
| | | | | Soil | | | | | | | | | | | | |

| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: | Time: |
|---|---|---|---|
| [signature] | [signature] | 4/16/21 | 1315 |
| [signature] to 650 4/16/21 1630 | [signature] | 4/17/21 | 1005 |
| | | | |

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5/4/2021

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# CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 4/15 - 4/16

PAGE: 5 OF 7

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☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE

SPECIAL INSTRUCTIONS.

## REQUESTED ANALYSES

Please check box or fill in blank as needed

| LAB USE ONLY | SAMPLE ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered | TPH-g by USEPA Method 8015 Modified | TPH-d by USEPA Method 8015 Modified | Full list VOCS by USEPA Method 8260B | PAHs and Naphthalene by USEPA Method 8270B | Lead by USEPA Method 6010B | Asbestos - CARB 435A | PCBs by USEPA Method 8082 with 541-Automated Soxhlet Extraction | OCPs by USEPA Method 8081A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 33 | SSD-26-3.0 | 4/15/21 | 1344 | Soil | 1 | X | | | | | | | | | | X |
| 34 | SSD-26-3.5 | | 1346 | Soil | 1 | X | | | | | | | X | | | |
| 35 | SSD-28-0.0 | | 1348 | Soil | 1 | X | | | | | | | | | X | |
| 36 | SSD-28-0.5 | | 1350 | Soil | 1 | X | | | | | | | | | X | |
| 37 | SSD-28-1.0 | | 1352 | Soil | 1 | X | | | | | | | | | X | |
| 38 | SSD-28-3.0 | | 1354 | Soil | 1 | X | | | | | | | | | | X |
| 39 | SSD-28-3.5 | | 1356 | Soil | 1 | X | | | | | | | | | | X |
| 40 | SSD-31-3.0 | | 1358 | Soil | 1 | X | | | | | | | | | | X |
| 41 | SSD-31-3.5 | | 1400 | Soil | 1 | X | | | | | | | | | | X |
| 42 | G-27-C-10.0 | | 1330 | Soil | 6 | X | X | | X | X | X | X | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) ECI | Date 4/16/21 | Time: 1315 |
| Relinquished by: (Signature) to GSO 4/16/21 1630 | Received by: (Signature/Affiliation) Mabel Eri | Date 4/17/21 | Time 1005 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date | Time |

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# CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 4/15-4/16

PAGE: 6 OF 7

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ADDRESS: 2300 Clayton Rd Ste 400

CITY: Concord STATE: CA ZIP: 94520

TEL: 609-216-8139 E-MAIL: Nicholas.Cardella@arcadis.com

CLIENT PROJECT NAME / NUMBER: Chevron 206145

PO NO: 30045659

PROJECT CONTACT: Nicholas Cardella

SAMPLER(S). (PRINT): Radley A and Mia J

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE

SPECIAL INSTRUCTIONS.

## REQUESTED ANALYSES

Please check box or fill in blank as needed.

| LAB USE ONLY | SAMPLE ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered | TPH-g by USEPA Method 8015 Modified | TPH-d by USEPA Method 8015 Modified | Full list VOCS by USEPA Method 8260B | PAHs and Naphthalene by USEPA Method 8270B | Lead by USEPA Method 6010B | Asbestos - CARB 435A | PCBs by USEPA Method 8082 with 541-Automated Soxhlet Extraction | OCPs by USEPA Method 8081A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 43 | 6-27-6-15.0 | 4/15/21 | 1340 | Soil | 5 MS/MSD | X | | | X | X | X | | 1 | | | |
| 44 | SSD-30-3.0 | " | 1408 | Soil | 1 | X | | | | | | | | | | X |
| 45 | SSD-30-3.5 | | 1410 | Soil | 1 | X | | | | | | | | | | X |
| 46 | SSD-27-0.0 | | 1412 | Soil | 1 | X | | | | | | | | | X | |
| 47 | SSD-27-0.5 | | 1414 | Soil | 1 | X | | | | | | | | | X | |
| 48 | SSD-27-1.0 | | 1416 | Soil | 1 | X | | | | | | | | | X | |
| 49 | SSD-27-3.5 | | 1418 | Soil | 1 | X | | | | | | | X | | | |
| 50 | SSD-27-4.0 | | 1420 | Soil | 1 | X | | | | | | | X | | | |
| 51 | SSD-21-1.0 | | 1422 | Soil | | | | | | | | | X | | | |
| 52 | SSD-21-2.0 | | 1424 | Soil | | | | | | | | | X | | | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: 4/16/21 | Time: 1315 |
| Relinquished by (Signature) 4/16/21 1630 | Received by: (Signature/Affiliation) EA | Date: 4/17/21 | Time: 1005 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date | Time |

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# CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 4/15-4/16

PAGE: 7 OF 7

LABORATORY CLIENT: Arcadis U S Inc

ADDRESS: 2300 Clayton Rd Ste 400

CITY: Concord STATE: CA ZIP: 94520

TEL: 609-216-8139 E-MAIL: Nicholas Cardella@arcadis.com

CLIENT PROJECT NAME / NUMBER: Chevron 206145

PO NO: 30045659

PROJECT CONTACT: Nicholas Cardella

SAMPLER(S) (PRINT): Radley A and Mia J

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE

SPECIAL INSTRUCTIONS.

## REQUESTED ANALYSES

Please check box or fill in blank as needed

| LAB USE ONLY | SAMPLE ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered | TPH-g by USEPA Method 8015 Modified | TPH-d by USEPA Method 8015 Modified | Full Scan VOCs by USEPA Method 8260B | TPH-d with Silica Gel Cleanup by USEPA Method 8015 Modified | Lead 6010 B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 53 | TW-1-GW | 4/15/21 | 1530 | GW | 8 | X | X | | X | X | X | X | |
| 54 | TW-2-GW | 4/14/21 | 1545 | GW | 8 | X | X | | X | X | X | X | |
| 55 | TW-3-GW | 4/13/21 | 1510 | GW | 8 | X | X | | X | X | X | X | |
| 56 | SB-1-GW | 4/15/21 | 1050 | GW | 8 | X | X | | X | X | X | X | |
| 57 | SB-2-GW | 4/15/21 | 1355 | GW | 8 | X | X | | X | X | X | X | |
| 58 | SB-3-GW | 4/15/21 | 1540 | GW | 8 | X | X | | X | X | X | X | |
| 59 | SB-4-GW | 4/15/21 | 1545 | GW | 8 | X | X | | X | X | X | X | |
| 60 | SSD-21-3.0 | 4/15/21 | 1426 | Soil | 1 | X | | | | | | | X |
| 61 | SSD-21-4.0 | 4/15/21 | 1428 | Soil | 1 | X | | | | | | | X |
| 62 | TB | 4/12/21 | — | GW | 4 | | X | | X | X | X | | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: 4/16/21 | Time: 1315 |
| Relinquished by: (Signature) to 650 4/16/21 1650 | Received by: (Signature/Affiliation) Marked En | Date: 4/17/21 | Time: 1005 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date | Time: |

06/02/14 Revision

LS

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IENCE, INC

L CIRCLE

520

VING
VAY
E, CA 92841

nons:

STANDARD

UCTIONS

Tracking #: 552977823

NPS

GARDEN GROVE

S92841A

40282309

ORC CA927-CL0

Print Date: 4/15/2021 4 14 PM

570-56847 Waybill

1/3



5/4/2021

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**Ship From**
EUROFINS CALSCIENCE, INC
ALAN KEMP
5063 COMMERCIAL CIRCLE
# H
CONCORD, CA 94520

**Ship To**
**CEL**
**SAMPLE RECEIVING**
**7440 LINCOLN WAY**
**GARDEN GROVE, CA 92841**

**COD:** $0.00
**Weight:** 0 lb(s)
**Reference:**
ARCADIS 2of3
**Delivery Instructions:**

**Signature Type:** STANDARD

**Tracking #: 552990912**

**SDS**

## GARDEN GROVE

## S92841A

40349444

# ORC CA927-CL0

Print Date: 4/16/2021 3:45 PM

4/16/2021

GLS

800-322-5555
www.gls-us.com

**Ship From**
EUROFINS CALSCIENCE, INC
ALAN KEMP
5063 COMMERCIAL CIRCLE
# H
CONCORD, CA 94520

**Ship To**
**CEL**
**SAMPLE RECEIVING**
**7440 LINCOLN WAY**
**GARDEN GROVE, CA 92841**

**COD:** $0.00
**Weight:** 0 lb(s)
**Reference:**
ARCADIS 3of3
**Delivery Instructions:**

**Signature Type:** STANDARD

**Tracking #: 552990913**

**SDS**

## GARDEN GROVE

## S92841A

40349445

# ORC CA927-CL0

# Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 570-56847-1

**Login Number: 56847**
**List Number: 1**
**Creator: Ramos, Maribel**

**List Source: Eurofins Calscience**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | False | No sample date and/or time on COC, logged in per container labels. |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | False | Did not receive all required containers. |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

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# ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-37607-1
Client Project/Site: 206145

For:
ARCADIS U.S., Inc.
320 Commerce Ave
Suite 200
Irvine, California 92602

Attn: Ross LaGrandeur

*Authorized for release by:*
*5/11/2021 1:48:14 AM*

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

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*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Amek Carter
Project Manager
*5/11/2021 1:48:14 AM*

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## Qualifiers

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| S1- | Surrogate recovery exceeds control limits, low biased. |

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| 1C | Result is from the primary column on a dual-column method. |
| 2C | Result is from the confirmation column on a dual-column method. |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

## Job ID: 410-37607-1

**Laboratory: Eurofins Lancaster Laboratories Env, LLC**

**Narrative**

**Job Narrative**
**410-37607-1**

**Receipt**
The samples were received on 4/28/2021 11:12 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -2.1°C

**GC/MS VOA**
Method 8260B: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container(s): QA-WQ-210427 (410-37607-1). The sample container was received with headspace.

Method 8260B: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: QA-WQ-210427 (410-37607-1), MW-16-WG-210427 (410-37607-2) and MW-17-WG-210427 (410-37607-3). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**Gasoline Range Organics**
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**Diesel Range Organics**
Method 8015B_DRO: Surrogate recovery for the following sample was outside control limits: MW-16-WG-210427 (410-37607-2). Re-extraction and/or re-analysis was performed outside of holding time and the surrogate recovery was again outside control limits. Results are reported from the first trial.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**HPLC/IC**
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**Metals**
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**General Chemistry**
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

# Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37607-1

## Client Sample ID: QA-WQ-210427 — Lab Sample ID: 410-37607-1

No Detections.

## Client Sample ID: MW-16-WG-210427 — Lab Sample ID: 410-37607-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | 130 | | 100 | 45 | ug/L | 1 | | 8015B | Total/NA |
| Nitrogen, Nitrate | 1800 | | 500 | 250 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Sulfate | 67000 | | 5000 | 1500 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Chloride | 45000 | | 4000 | 2000 | ug/L | 10 | | EPA 300.0 R2.1 | Total/NA |
| Iron | 490 | | 200 | 40 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 260000 | | 8000 | 2600 | ug/L | 1 | | 2320B-2011 | Total/NA |
| Biochemical Oxygen Demand | 4700 | | 1500 | 1500 | ug/L | 1 | | 5210 B-2011 | Total/NA |
| Total Organic Carbon | 2100 | | 1000 | 500 | ug/L | 1 | | 5310C-2011 | Total/NA |

## Client Sample ID: MW-17-WG-210427 — Lab Sample ID: 410-37607-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | 95 | J | 100 | 45 | ug/L | 1 | | 8015B | Total/NA |
| DRO (C10-C28) (1C) | 52 | J | 100 | 45 | ug/L | 1 | | 8015B | Total/NA |
| Sulfate | 62000 | | 5000 | 1500 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Chloride | 73000 | | 8000 | 4000 | ug/L | 20 | | EPA 300.0 R2.1 | Total/NA |
| Iron | 21000 | | 200 | 40 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 210000 | | 8000 | 2600 | ug/L | 1 | | 2320B-2011 | Total/NA |
| Chemical Oxygen Demand | 33000 | J | 75000 | 25000 | ug/L | 1 | | 410.4 | Total/NA |
| Biochemical Oxygen Demand | 3300 | | 1500 | 1500 | ug/L | 1 | | 5210 B-2011 | Total/NA |
| Total Organic Carbon | 1200 | | 1000 | 500 | ug/L | 1 | | 5310C-2011 | Total/NA |

This Detection Summary does not include radiochemical test results.

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37607-1

**Client Sample ID: QA-WQ-210427**
**Date Collected: 04/27/21 08:30**
**Date Received: 04/28/21 11:12**

**Lab Sample ID: 410-37607-1**
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 05/05/21 01:52 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 05/05/21 01:52 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 05/05/21 01:52 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/05/21 01:52 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 05/05/21 01:52 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 05/05/21 01:52 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/05/21 01:52 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 05/05/21 01:52 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 05/05/21 01:52 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 05/05/21 01:52 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 05/05/21 01:52 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 05/05/21 01:52 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 05/05/21 01:52 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 05/05/21 01:52 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 05/05/21 01:52 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 05/05/21 01:52 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 05/05/21 01:52 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/05/21 01:52 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/05/21 01:52 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/05/21 01:52 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 05/05/21 01:52 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37607-1

## Client Sample ID: QA-WQ-210427

**Lab Sample ID: 410-37607-1**

**Date Collected: 04/27/21 08:30**

**Matrix: Water**

**Date Received: 04/28/21 11:12**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 05/05/21 01:52 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 05/05/21 01:52 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/05/21 01:52 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 05/05/21 01:52 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 05/05/21 01:52 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 05/05/21 01:52 | 1 |
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 05/05/21 01:52 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 05/05/21 01:52 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 05/05/21 01:52 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 05/05/21 01:52 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 01:52 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/05/21 01:52 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 05/05/21 01:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *80 - 120* | | *05/05/21 01:52* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *80 - 120* | | *05/05/21 01:52* | *1* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *80 - 120* | | *05/05/21 01:52* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* | | *05/05/21 01:52* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | ND | | 100 | 17 | ug/L | | | 04/29/21 21:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *94* | | *63 - 135* | | *04/29/21 21:06* | *1* |

## Client Sample ID: MW-16-WG-210427

**Lab Sample ID: 410-37607-2**

**Date Collected: 04/27/21 10:53**

**Matrix: Water**

**Date Received: 04/28/21 11:12**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 05/05/21 05:34 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 05/05/21 05:34 | 1 |

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37607-1

**Client Sample ID: MW-16-WG-210427**
**Date Collected: 04/27/21 10:53**
**Date Received: 04/28/21 11:12**

**Lab Sample ID: 410-37607-2**
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 05/05/21 05:34 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/05/21 05:34 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 05/05/21 05:34 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 05/05/21 05:34 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/05/21 05:34 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 05/05/21 05:34 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 05/05/21 05:34 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 05/05/21 05:34 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 05/05/21 05:34 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 05/05/21 05:34 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 05/05/21 05:34 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 05/05/21 05:34 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 05/05/21 05:34 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 05/05/21 05:34 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 05/05/21 05:34 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/05/21 05:34 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/05/21 05:34 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/05/21 05:34 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 05/05/21 05:34 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 05/05/21 05:34 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 05/05/21 05:34 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/05/21 05:34 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 05/05/21 05:34 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 05/05/21 05:34 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 05/05/21 05:34 | 1 |

**Client Sample ID: MW-16-WG-210427**
**Date Collected: 04/27/21 10:53**
**Date Received: 04/28/21 11:12**

**Lab Sample ID: 410-37607-2**
**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 05/05/21 05:34 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 05/05/21 05:34 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 05/05/21 05:34 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 05/05/21 05:34 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:34 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/05/21 05:34 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 05/05/21 05:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *80 - 120* | | *05/05/21 05:34* | *1* |
| *Dibromofluoromethane (Surr)* | *91* | | *80 - 120* | | *05/05/21 05:34* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *80 - 120* | | *05/05/21 05:34* | *1* |
| *Toluene-d8 (Surr)* | *103* | | *80 - 120* | | *05/05/21 05:34* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | ND | | 100 | 17 | ug/L | | | 04/30/21 00:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *94* | | *63 - 135* | | *04/30/21 00:06* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28) (1C)** | **130** | | 100 | 45 | ug/L | | 05/01/21 01:43 | 05/04/21 00:53 | 1 |
| DRO (C10-C28) (1C) | ND | | 100 | 45 | ug/L | | 05/01/21 01:50 | 05/05/21 02:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *55* | | *50 - 150* | *05/01/21 01:43* | *05/04/21 00:53* | *1* |
| *o- terphenyl (Surr) (1C)* | *37* | *S1-* | *46 - 130* | *05/01/21 01:50* | *05/05/21 02:02* | *1* |
| *Capric Acid (Surr) (1C)* | *0.3* | | *0 - 1* | *05/01/21 01:50* | *05/05/21 02:02* | *1* |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatgraphy

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Nitrogen, Nitrate** | **1800** | | 500 | 250 | ug/L | | | 04/29/21 12:23 | 5 |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Sulfate** | **67000** | | 5000 | 1500 | ug/L | | | 04/29/21 12:23 | 5 |
| **Chloride** | **45000** | | 4000 | 2000 | ug/L | | | 04/30/21 15:00 | 10 |

### Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Iron** | **490** | | 200 | 40 | ug/L | | 04/28/21 19:15 | 05/03/21 16:38 | 1 |

## Client Sample ID: MW-16-WG-210427

**Lab Sample ID: 410-37607-2**

**Date Collected: 04/27/21 10:53**

**Matrix: Water**

**Date Received: 04/28/21 11:12**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total Alkalinity as CaCO3 to pH 4.5** | **260000** | | 8000 | 2600 | ug/L | | | 04/29/21 00:19 | 1 |
| Chemical Oxygen Demand | ND | | 75000 | 25000 | ug/L | | | 04/29/21 10:31 | 1 |
| **Biochemical Oxygen Demand** | **4700** | | 1500 | 1500 | ug/L | | | 04/28/21 20:45 | 1 |
| **Total Organic Carbon** | **2100** | | 1000 | 500 | ug/L | | | 05/01/21 04:25 | 1 |

## Client Sample ID: MW-17-WG-210427

**Lab Sample ID: 410-37607-3**

**Date Collected: 04/27/21 11:30**

**Matrix: Water**

**Date Received: 04/28/21 11:12**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 05/05/21 05:56 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 05/05/21 05:56 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 05/05/21 05:56 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/05/21 05:56 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 05/05/21 05:56 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 05/05/21 05:56 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/05/21 05:56 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 05/05/21 05:56 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 05/05/21 05:56 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 05/05/21 05:56 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 05/05/21 05:56 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 05/05/21 05:56 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 05/05/21 05:56 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 05/05/21 05:56 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 05/05/21 05:56 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 05/05/21 05:56 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 05/05/21 05:56 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |

**Client Sample ID: MW-17-WG-210427**
**Date Collected: 04/27/21 11:30**
**Date Received: 04/28/21 11:12**

**Lab Sample ID: 410-37607-3**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/05/21 05:56 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/05/21 05:56 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/05/21 05:56 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 05/05/21 05:56 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 05/05/21 05:56 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 05/05/21 05:56 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/05/21 05:56 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 05/05/21 05:56 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 05/05/21 05:56 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 05/05/21 05:56 | 1 |
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 05/05/21 05:56 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 05/05/21 05:56 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 05/05/21 05:56 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 05/05/21 05:56 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 05:56 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/05/21 05:56 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 05/05/21 05:56 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *96* | | *80 - 120* | | *05/05/21 05:56* | *1* |
| *Dibromofluoromethane (Surr)* | *89* | | *80 - 120* | | *05/05/21 05:56* | *1* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *80 - 120* | | *05/05/21 05:56* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | | *05/05/21 05:56* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | ND | | 100 | 17 | ug/L | | | 04/30/21 00:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *94* | | *63 - 135* | | *04/30/21 00:32* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28) (1C)** | **95** | **J** | 100 | 45 | ug/L | | 05/01/21 01:43 | 05/04/21 01:16 | 1 |

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37607-1

**Client Sample ID: MW-17-WG-210427**
**Date Collected: 04/27/21 11:30**
**Date Received: 04/28/21 11:12**

**Lab Sample ID: 410-37607-3**
**Matrix: Water**

### Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | 52 | J | 100 | 45 | ug/L | | 05/01/21 01:50 | 05/05/21 02:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *79* | | *50 - 150* | *05/01/21 01:43* | *05/04/21 01:16* | *1* |
| *o- terphenyl (Surr) (1C)* | *46* | | *46 - 130* | *05/01/21 01:50* | *05/05/21 02:24* | *1* |
| *Capric Acid (Surr) (1C)* | *0.3* | | *0 - 1* | *05/01/21 01:50* | *05/05/21 02:24* | *1* |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatgraphy

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | ND | | 500 | 250 | ug/L | | | 04/29/21 10:59 | 5 |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 62000 | | 5000 | 1500 | ug/L | | | 04/29/21 10:59 | 5 |
| Chloride | 73000 | | 8000 | 4000 | ug/L | | | 04/29/21 11:10 | 20 |

### Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Iron | 21000 | | 200 | 40 | ug/L | | 05/03/21 02:41 | 05/03/21 15:26 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | 210000 | | 8000 | 2600 | ug/L | | | 04/29/21 00:11 | 1 |
| Chemical Oxygen Demand | 33000 | J | 75000 | 25000 | ug/L | | | 04/29/21 10:34 | 1 |
| Biochemical Oxygen Demand | 3300 | | 1500 | 1500 | ug/L | | | 04/28/21 20:45 | 1 |
| Total Organic Carbon | 1200 | | 1000 | 500 | ug/L | | | 05/01/21 05:08 | 1 |

# Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37607-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | DBFM | BFB | TOL |
| Lab Sample ID | Client Sample ID | (80-120) | (80-120) | (80-120) | (80-120) |
| 410-37607-1 | QA-WQ-210427 | 102 | 96 | 93 | 102 |
| 410-37607-2 | MW-16-WG-210427 | 101 | 91 | 98 | 103 |
| 410-37607-3 | MW-17-WG-210427 | 96 | 89 | 92 | 99 |
| LCS 410-122425/4 | Lab Control Sample | 100 | 92 | 97 | 104 |
| LCSD 410-122425/5 | Lab Control Sample Dup | 100 | 98 | 97 | 104 |
| MB 410-122425/7 | Method Blank | 99 | 91 | 94 | 102 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

## Method: 8015B - Gasoline Range Organics - (GC)

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) |
|---|---|---|
| | | TFT-F1 |
| Lab Sample ID | Client Sample ID | (63-135) |
| 410-37607-1 | QA-WQ-210427 | 94 |
| 410-37607-2 | MW-16-WG-210427 | 94 |
| 410-37607-3 | MW-17-WG-210427 | 94 |
| LCS 410-120738/5 | Lab Control Sample | 86 |
| LCSD 410-120738/6 | Lab Control Sample Dup | 84 |
| MB 410-120738/4 | Method Blank | 94 |

**Surrogate Legend**

TFT-F = a,a,a-Trifluorotoluene (fid)

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) |
|---|---|---|
| | | OTP1 |
| Lab Sample ID | Client Sample ID | (50-150) |
| 410-37607-2 | MW-16-WG-210427 | 55 |
| 410-37607-3 | MW-17-WG-210427 | 79 |
| LCS 410-121283/2-A | Lab Control Sample | 76 |
| LCSD 410-121283/3-A | Lab Control Sample Dup | 80 |
| MB 410-121283/1-A | Method Blank | 70 |

**Surrogate Legend**

OTP = o- terphenyl (Surr)

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| | | OTP1 | NDA1 |
| Lab Sample ID | Client Sample ID | (46-130) | (0-1) |
| 410-37607-2 | MW-16-WG-210427 | 37 S1- | 0.3 |
| 410-37607-3 | MW-17-WG-210427 | 46 | 0.3 |

# Surrogate Summary

Client: ARCADIS U.S., Inc.
Job ID: 410-37607-1
Project/Site: 206145

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Matrix: Water**
**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OTP1 | NDA1 | | | | | | | | |
| Lab Sample ID | Client Sample ID | (46-130) | (0-1) | | | | | | | | |
| LCS 410-121284/2-B | Lab Control Sample | 60 | 0.8 | | | | | | | | |
| LCSD 410-121284/3-B | Lab Control Sample Dup | 58 | 0.8 | | | | | | | | |
| MB 410-121284/1-B | Method Blank | 64 | 0.3 | | | | | | | | |

**Surrogate Legend**

OTP = o- terphenyl (Surr)
NDA = Capric Acid (Surr)

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 410-122425/7**
**Matrix: Water**
**Analysis Batch: 122425**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 05/05/21 00:17 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 05/05/21 00:17 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 05/05/21 00:17 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/05/21 00:17 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 05/05/21 00:17 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 05/05/21 00:17 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/05/21 00:17 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 05/05/21 00:17 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 05/05/21 00:17 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 05/05/21 00:17 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 05/05/21 00:17 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 05/05/21 00:17 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 05/05/21 00:17 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 05/05/21 00:17 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 05/05/21 00:17 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 05/05/21 00:17 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 05/05/21 00:17 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/05/21 00:17 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/05/21 00:17 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/05/21 00:17 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 05/05/21 00:17 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 410-122425/7**
**Matrix: Water**
**Analysis Batch: 122425**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 05/05/21 00:17 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 05/05/21 00:17 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/05/21 00:17 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 05/05/21 00:17 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 05/05/21 00:17 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 05/05/21 00:17 | 1 |
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 05/05/21 00:17 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 05/05/21 00:17 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 05/05/21 00:17 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 05/05/21 00:17 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/05/21 00:17 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/05/21 00:17 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 05/05/21 00:17 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *80 - 120* | | *05/05/21 00:17* | *1* |
| *Dibromofluoromethane (Surr)* | *91* | | *80 - 120* | | *05/05/21 00:17* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* | | *05/05/21 00:17* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* | | *05/05/21 00:17* | *1* |

**Lab Sample ID: LCS 410-122425/4**
**Matrix: Water**
**Analysis Batch: 122425**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 20.0 | 17.8 | | ug/L | | 89 | 78 - 120 |
| 1,1,1-Trichloroethane | 20.0 | 15.8 | | ug/L | | 79 | 67 - 126 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 22.8 | | ug/L | | 114 | 72 - 120 |
| 1,1,2-Trichloroethane | 20.0 | 19.9 | | ug/L | | 99 | 80 - 120 |
| 1,1-Dichloroethane | 20.0 | 17.5 | | ug/L | | 88 | 80 - 120 |
| 1,1-Dichloroethene | 20.0 | 19.7 | | ug/L | | 99 | 80 - 131 |
| 1,1-Dichloropropene | 20.0 | 16.7 | | ug/L | | 83 | 78 - 120 |
| 1,2,3-Trichlorobenzene | 20.0 | 19.0 | | ug/L | | 95 | 66 - 120 |
| 1,2,3-Trichloropropane | 20.0 | 21.5 | | ug/L | | 107 | 75 - 124 |
| 1,2,4-Trichlorobenzene | 20.0 | 18.6 | | ug/L | | 93 | 63 - 120 |
| 1,2,4-Trimethylbenzene | 20.0 | 20.3 | | ug/L | | 102 | 75 - 120 |
| 1,2-Dibromo-3-Chloropropane | 20.0 | 20.1 | | ug/L | | 100 | 47 - 131 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 410-122425/4**
**Matrix: Water**
**Analysis Batch: 122425**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 20.0 | 19.0 | | ug/L | | 95 | 77 - 120 |
| 1,2-Dichlorobenzene | 20.0 | 20.0 | | ug/L | | 100 | 80 - 120 |
| 1,2-Dichloroethane | 20.0 | 15.4 | | ug/L | | 77 | 73 - 124 |
| 1,2-Dichloropropane | 20.0 | 18.3 | | ug/L | | 91 | 80 - 120 |
| 1,3,5-Trimethylbenzene | 20.0 | 20.5 | | ug/L | | 102 | 75 - 120 |
| 1,3-Dichlorobenzene | 20.0 | 19.8 | | ug/L | | 99 | 80 - 120 |
| 1,3-Dichloropropane | 20.0 | 20.0 | | ug/L | | 100 | 80 - 120 |
| 1,4-Dichlorobenzene | 20.0 | 20.0 | | ug/L | | 100 | 80 - 120 |
| 2,2-Dichloropropane | 20.0 | 15.2 | | ug/L | | 76 | 55 - 142 |
| 2-Butanone | 150 | 137 | | ug/L | | 91 | 59 - 135 |
| 2-Chloroethyl vinyl ether | 20.0 | 16.4 | | ug/L | | 82 | 49 - 124 |
| 2-Chlorotoluene | 20.0 | 19.9 | | ug/L | | 99 | 80 - 120 |
| 2-Hexanone | 100 | 95.7 | | ug/L | | 96 | 56 - 135 |
| 4-Chlorotoluene | 20.0 | 20.1 | | ug/L | | 101 | 80 - 120 |
| 4-Methyl-2-pentanone | 100 | 87.6 | | ug/L | | 88 | 62 - 133 |
| Acetone | 150 | 142 | | ug/L | | 95 | 54 - 157 |
| Benzene | 20.0 | 18.4 | | ug/L | | 92 | 80 - 120 |
| Bromobenzene | 20.0 | 19.6 | | ug/L | | 98 | 80 - 120 |
| Bromochloromethane | 20.0 | 17.1 | | ug/L | | 85 | 80 - 120 |
| Bromodichloromethane | 20.0 | 17.2 | | ug/L | | 86 | 71 - 120 |
| Bromoform | 20.0 | 16.8 | | ug/L | | 84 | 51 - 120 |
| Bromomethane | 20.0 | 18.7 | | ug/L | | 93 | 53 - 128 |
| Carbon disulfide | 20.0 | 20.1 | | ug/L | | 100 | 65 - 128 |
| Carbon tetrachloride | 20.0 | 15.4 | | ug/L | | 77 | 64 - 134 |
| Chlorobenzene | 20.0 | 19.3 | | ug/L | | 96 | 80 - 120 |
| Chloroethane | 20.0 | 17.4 | | ug/L | | 87 | 55 - 123 |
| Chloroform | 20.0 | 17.3 | | ug/L | | 86 | 80 - 120 |
| Chloromethane | 20.0 | 16.7 | | ug/L | | 84 | 56 - 121 |
| cis-1,2-Dichloroethene | 20.0 | 18.6 | | ug/L | | 93 | 80 - 125 |
| cis-1,3-Dichloropropene | 20.0 | 17.7 | | ug/L | | 88 | 75 - 120 |
| Dibromochloromethane | 20.0 | 18.3 | | ug/L | | 92 | 71 - 120 |
| Dibromomethane | 20.0 | 18.6 | | ug/L | | 93 | 80 - 120 |
| Dichlorodifluoromethane | 20.0 | 14.9 | | ug/L | | 75 | 41 - 127 |
| di-Isopropyl ether | 20.0 | 17.5 | | ug/L | | 88 | 70 - 124 |
| Ethanol | 1000 | 1150 | | ug/L | | 115 | 31 - 180 |
| Ethyl t-butyl ether | 20.0 | 17.9 | | ug/L | | 89 | 68 - 121 |
| Ethylbenzene | 20.0 | 19.0 | | ug/L | | 95 | 80 - 120 |
| Freon 113 | 20.0 | 18.1 | | ug/L | | 91 | 73 - 139 |
| Hexachlorobutadiene | 20.0 | 16.1 | | ug/L | | 81 | 63 - 120 |
| Isopropylbenzene | 20.0 | 18.1 | | ug/L | | 91 | 80 - 120 |
| m&p-Xylene | 40.0 | 37.9 | | ug/L | | 95 | 80 - 120 |
| Methyl tertiary butyl ether | 20.0 | 18.0 | | ug/L | | 90 | 69 - 122 |
| Methylene Chloride | 20.0 | 19.7 | | ug/L | | 99 | 80 - 120 |
| Naphthalene | 20.0 | 20.9 | | ug/L | | 105 | 53 - 124 |
| n-Butylbenzene | 20.0 | 20.1 | | ug/L | | 101 | 76 - 120 |
| n-Propylbenzene | 20.0 | 20.9 | | ug/L | | 104 | 79 - 121 |
| o-Xylene | 20.0 | 18.9 | | ug/L | | 95 | 80 - 120 |
| p-Isopropyltoluene | 20.0 | 20.3 | | ug/L | | 101 | 76 - 120 |
| sec-Butylbenzene | 20.0 | 20.3 | | ug/L | | 101 | 77 - 120 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 410-122425/4**
**Matrix: Water**
**Analysis Batch: 122425**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Styrene | 20.0 | 18.9 | | ug/L | | 95 | 80 - 120 |
| t-Amyl methyl ether | 20.0 | 17.9 | | ug/L | | 89 | 66 - 120 |
| t-Butyl alcohol | 200 | 191 | | ug/L | | 95 | 60 - 130 |
| tert-Butylbenzene | 20.0 | 18.7 | | ug/L | | 94 | 78 - 120 |
| Tetrachloroethene | 20.0 | 17.0 | | ug/L | | 85 | 80 - 120 |
| Toluene | 20.0 | 19.7 | | ug/L | | 98 | 80 - 120 |
| trans-1,2-Dichloroethene | 20.0 | 18.9 | | ug/L | | 95 | 80 - 126 |
| trans-1,3-Dichloropropene | 20.0 | 19.2 | | ug/L | | 96 | 67 - 120 |
| Trichloroethene | 20.0 | 17.4 | | ug/L | | 87 | 80 - 120 |
| Trichlorofluoromethane | 20.0 | 15.4 | | ug/L | | 77 | 55 - 135 |
| Vinyl chloride | 20.0 | 17.7 | | ug/L | | 89 | 56 - 120 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *92* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *80 - 120* |
| *Toluene-d8 (Surr)* | *104* | | *80 - 120* |

**Lab Sample ID: LCSD 410-122425/5**
**Matrix: Water**
**Analysis Batch: 122425**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 20.0 | 17.7 | | ug/L | | 88 | 78 - 120 | 1 | 30 |
| 1,1,1-Trichloroethane | 20.0 | 17.1 | | ug/L | | 86 | 67 - 126 | 8 | 30 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 22.1 | | ug/L | | 110 | 72 - 120 | 3 | 30 |
| 1,1,2-Trichloroethane | 20.0 | 19.7 | | ug/L | | 98 | 80 - 120 | 1 | 30 |
| 1,1-Dichloroethane | 20.0 | 17.7 | | ug/L | | 88 | 80 - 120 | 1 | 30 |
| 1,1-Dichloroethene | 20.0 | 20.1 | | ug/L | | 101 | 80 - 131 | 2 | 30 |
| 1,1-Dichloropropene | 20.0 | 17.4 | | ug/L | | 87 | 78 - 120 | 4 | 30 |
| 1,2,3-Trichlorobenzene | 20.0 | 18.2 | | ug/L | | 91 | 66 - 120 | 4 | 30 |
| 1,2,3-Trichloropropane | 20.0 | 20.7 | | ug/L | | 103 | 75 - 124 | 4 | 30 |
| 1,2,4-Trichlorobenzene | 20.0 | 18.0 | | ug/L | | 90 | 63 - 120 | 3 | 30 |
| 1,2,4-Trimethylbenzene | 20.0 | 20.3 | | ug/L | | 102 | 75 - 120 | 0 | 30 |
| 1,2-Dibromo-3-Chloropropane | 20.0 | 19.2 | | ug/L | | 96 | 47 - 131 | 4 | 30 |
| 1,2-Dibromoethane | 20.0 | 18.5 | | ug/L | | 92 | 77 - 120 | 3 | 30 |
| 1,2-Dichlorobenzene | 20.0 | 19.2 | | ug/L | | 96 | 80 - 120 | 4 | 30 |
| 1,2-Dichloroethane | 20.0 | 15.7 | | ug/L | | 78 | 73 - 124 | 2 | 30 |
| 1,2-Dichloropropane | 20.0 | 17.9 | | ug/L | | 89 | 80 - 120 | 2 | 30 |
| 1,3,5-Trimethylbenzene | 20.0 | 20.1 | | ug/L | | 101 | 75 - 120 | 2 | 30 |
| 1,3-Dichlorobenzene | 20.0 | 19.3 | | ug/L | | 97 | 80 - 120 | 3 | 30 |
| 1,3-Dichloropropane | 20.0 | 19.5 | | ug/L | | 98 | 80 - 120 | 3 | 30 |
| 1,4-Dichlorobenzene | 20.0 | 19.3 | | ug/L | | 97 | 80 - 120 | 3 | 30 |
| 2,2-Dichloropropane | 20.0 | 16.3 | | ug/L | | 82 | 55 - 142 | 7 | 30 |
| 2-Butanone | 150 | 135 | | ug/L | | 90 | 59 - 135 | 2 | 30 |
| 2-Chloroethyl vinyl ether | 20.0 | 16.5 | | ug/L | | 82 | 49 - 124 | 0 | 30 |
| 2-Chlorotoluene | 20.0 | 19.7 | | ug/L | | 98 | 80 - 120 | 1 | 30 |
| 2-Hexanone | 100 | 93.9 | | ug/L | | 94 | 56 - 135 | 2 | 30 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 410-122425/5**
**Matrix: Water**
**Analysis Batch: 122425**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 4-Chlorotoluene | 20.0 | 19.8 | | ug/L | | 99 | 80 - 120 | 2 | 30 |
| 4-Methyl-2-pentanone | 100 | 85.3 | | ug/L | | 85 | 62 - 133 | 3 | 30 |
| Acetone | 150 | 136 | | ug/L | | 90 | 54 - 157 | 4 | 30 |
| Benzene | 20.0 | 18.2 | | ug/L | | 91 | 80 - 120 | 1 | 30 |
| Bromobenzene | 20.0 | 19.3 | | ug/L | | 96 | 80 - 120 | 2 | 30 |
| Bromochloromethane | 20.0 | 17.9 | | ug/L | | 90 | 80 - 120 | 5 | 30 |
| Bromodichloromethane | 20.0 | 16.5 | | ug/L | | 83 | 71 - 120 | 4 | 30 |
| Bromoform | 20.0 | 16.5 | | ug/L | | 83 | 51 - 120 | 1 | 30 |
| Bromomethane | 20.0 | 18.2 | | ug/L | | 91 | 53 - 128 | 3 | 30 |
| Carbon disulfide | 20.0 | 19.7 | | ug/L | | 98 | 65 - 128 | 2 | 30 |
| Carbon tetrachloride | 20.0 | 16.6 | | ug/L | | 83 | 64 - 134 | 8 | 30 |
| Chlorobenzene | 20.0 | 19.0 | | ug/L | | 95 | 80 - 120 | 1 | 30 |
| Chloroethane | 20.0 | 17.4 | | ug/L | | 87 | 55 - 123 | 0 | 30 |
| Chloroform | 20.0 | 17.9 | | ug/L | | 90 | 80 - 120 | 4 | 30 |
| Chloromethane | 20.0 | 16.4 | | ug/L | | 82 | 56 - 121 | 2 | 30 |
| cis-1,2-Dichloroethene | 20.0 | 19.3 | | ug/L | | 96 | 80 - 125 | 3 | 30 |
| cis-1,3-Dichloropropene | 20.0 | 17.5 | | ug/L | | 88 | 75 - 120 | 1 | 30 |
| Dibromochloromethane | 20.0 | 17.7 | | ug/L | | 88 | 71 - 120 | 4 | 30 |
| Dibromomethane | 20.0 | 16.9 | | ug/L | | 85 | 80 - 120 | 9 | 30 |
| Dichlorodifluoromethane | 20.0 | 15.0 | | ug/L | | 75 | 41 - 127 | 1 | 30 |
| di-Isopropyl ether | 20.0 | 16.9 | | ug/L | | 84 | 70 - 124 | 4 | 30 |
| Ethanol | 1000 | 1110 | | ug/L | | 111 | 31 - 180 | 4 | 30 |
| Ethyl t-butyl ether | 20.0 | 17.6 | | ug/L | | 88 | 68 - 121 | 2 | 30 |
| Ethylbenzene | 20.0 | 18.9 | | ug/L | | 94 | 80 - 120 | 0 | 30 |
| Freon 113 | 20.0 | 19.1 | | ug/L | | 95 | 73 - 139 | 5 | 30 |
| Hexachlorobutadiene | 20.0 | 16.1 | | ug/L | | 81 | 63 - 120 | 0 | 30 |
| Isopropylbenzene | 20.0 | 17.9 | | ug/L | | 90 | 80 - 120 | 1 | 30 |
| m&p-Xylene | 40.0 | 37.9 | | ug/L | | 95 | 80 - 120 | 0 | 30 |
| Methyl tertiary butyl ether | 20.0 | 18.2 | | ug/L | | 91 | 69 - 122 | 1 | 30 |
| Methylene Chloride | 20.0 | 20.0 | | ug/L | | 100 | 80 - 120 | 1 | 30 |
| Naphthalene | 20.0 | 20.1 | | ug/L | | 101 | 53 - 124 | 4 | 30 |
| n-Butylbenzene | 20.0 | 19.8 | | ug/L | | 99 | 76 - 120 | 2 | 30 |
| n-Propylbenzene | 20.0 | 20.6 | | ug/L | | 103 | 79 - 121 | 2 | 30 |
| o-Xylene | 20.0 | 18.7 | | ug/L | | 94 | 80 - 120 | 1 | 30 |
| p-Isopropyltoluene | 20.0 | 19.9 | | ug/L | | 100 | 76 - 120 | 2 | 30 |
| sec-Butylbenzene | 20.0 | 20.1 | | ug/L | | 100 | 77 - 120 | 1 | 30 |
| Styrene | 20.0 | 18.6 | | ug/L | | 93 | 80 - 120 | 2 | 30 |
| t-Amyl methyl ether | 20.0 | 17.4 | | ug/L | | 87 | 66 - 120 | 3 | 30 |
| t-Butyl alcohol | 200 | 187 | | ug/L | | 93 | 60 - 130 | 2 | 30 |
| tert-Butylbenzene | 20.0 | 19.1 | | ug/L | | 95 | 78 - 120 | 2 | 30 |
| Tetrachloroethene | 20.0 | 16.9 | | ug/L | | 84 | 80 - 120 | 0 | 30 |
| Toluene | 20.0 | 19.4 | | ug/L | | 97 | 80 - 120 | 1 | 30 |
| trans-1,2-Dichloroethene | 20.0 | 18.7 | | ug/L | | 94 | 80 - 126 | 1 | 30 |
| trans-1,3-Dichloropropene | 20.0 | 19.1 | | ug/L | | 95 | 67 - 120 | 1 | 30 |
| Trichloroethene | 20.0 | 17.2 | | ug/L | | 86 | 80 - 120 | 1 | 30 |
| Trichlorofluoromethane | 20.0 | 15.9 | | ug/L | | 80 | 55 - 135 | 3 | 30 |
| Vinyl chloride | 20.0 | 17.6 | | ug/L | | 88 | 56 - 120 | 1 | 30 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 410-122425/5**
**Matrix: Water**
**Analysis Batch: 122425**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 80 - 120 |
| Dibromofluoromethane (Surr) | 98 | | 80 - 120 |
| 4-Bromofluorobenzene (Surr) | 97 | | 80 - 120 |
| Toluene-d8 (Surr) | 104 | | 80 - 120 |

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: MB 410-120738/4**
**Matrix: Water**
**Analysis Batch: 120738**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | ND | | 100 | 17 | ug/L | | | 04/29/21 19:49 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| a,a,a-Trifluorotoluene (fid) (1C) | 94 | | 63 - 135 | | 04/29/21 19:49 | 1 |

**Lab Sample ID: LCS 410-120738/5**
**Matrix: Water**
**Analysis Batch: 120738**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | | | 1100 | 1100 | | ug/L | | 100 | 74 - 120 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| a,a,a-Trifluorotoluene (fid) (1C) | 86 | | 63 - 135 |

**Lab Sample ID: LCSD 410-120738/6**
**Matrix: Water**
**Analysis Batch: 120738**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | | | 1100 | 1110 | | ug/L | | 101 | 74 - 120 | 0 | 30 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| a,a,a-Trifluorotoluene (fid) (1C) | 84 | | 63 - 135 |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 410-121283/1-A**
**Matrix: Water**
**Analysis Batch: 121710**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 121283**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | ND | | 100 | 45 | ug/L | | 05/01/21 01:43 | 05/03/21 16:57 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| o- terphenyl (Surr) (1C) | 70 | | 50 - 150 | 05/01/21 01:43 | 05/03/21 16:57 | 1 |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: LCS 410-121283/2-A**
**Matrix: Water**
**Analysis Batch: 121710**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 121283**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | | | 602 | 352 | | ug/L | | 58 | 20 - 118 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *76* | | *50 - 150* |

**Lab Sample ID: LCSD 410-121283/3-A**
**Matrix: Water**
**Analysis Batch: 121710**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 121283**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | | | 602 | 392 | | ug/L | | 65 | 20 - 118 | 11 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *80* | | *50 - 150* |

**Lab Sample ID: MB 410-121284/1-B**
**Matrix: Water**
**Analysis Batch: 122312**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 121284**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | ND | | 100 | 45 | ug/L | | 05/01/21 01:50 | 05/04/21 19:59 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *64* | | *46 - 130* | *05/01/21 01:50* | *05/04/21 19:59* | *1* |
| *Capric Acid (Surr) (1C)* | *0.3* | | *0 - 1* | *05/01/21 01:50* | *05/04/21 19:59* | *1* |

**Lab Sample ID: LCS 410-121284/2-B**
**Matrix: Water**
**Analysis Batch: 122312**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 121284**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | | | 602 | 291 | | ug/L | | 48 | 12 - 115 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *60* | | *46 - 130* |
| *Capric Acid (Surr) (1C)* | *0.8* | | *0 - 1* |

**Lab Sample ID: LCSD 410-121284/3-B**
**Matrix: Water**
**Analysis Batch: 122312**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 121284**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | | | 602 | 305 | | ug/L | | 51 | 12 - 115 | 5 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *58* | | *46 - 130* |
| *Capric Acid (Surr) (1C)* | *0.8* | | *0 - 1* |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatgraphy

**Lab Sample ID: MB 410-120348/4**
**Matrix: Water**
**Analysis Batch: 120348**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | ND | | 100 | 50 | ug/L | | | 04/29/21 10:17 | 1 |

**Lab Sample ID: LCS 410-120348/3**
**Matrix: Water**
**Analysis Batch: 120348**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | 750 | 732 | | ug/L | | 98 | 90 - 110 |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

**Lab Sample ID: MB 410-120349/4**
**Matrix: Water**
**Analysis Batch: 120349**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 1000 | 300 | ug/L | | | 04/29/21 10:17 | 1 |
| Chloride | ND | | 400 | 200 | ug/L | | | 04/29/21 10:17 | 1 |

**Lab Sample ID: LCS 410-120349/3**
**Matrix: Water**
**Analysis Batch: 120349**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Sulfate | 7500 | 7330 | | ug/L | | 98 | 90 - 110 |
| Chloride | 3000 | 2910 | | ug/L | | 97 | 90 - 110 |

**Lab Sample ID: MB 410-120868/4**
**Matrix: Water**
**Analysis Batch: 120868**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | ND | | 400 | 200 | ug/L | | | 04/30/21 04:46 | 1 |

**Lab Sample ID: LCS 410-120868/3**
**Matrix: Water**
**Analysis Batch: 120868**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chloride | 3000 | 3250 | | ug/L | | 108 | 90 - 110 |

## Method: 200.7 Rev 4.4 - Metals (ICP)

**Lab Sample ID: MB 410-120268/1-A**
**Matrix: Water**
**Analysis Batch: 121869**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 120268**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Iron | ND | | 200 | 40 | ug/L | | 04/28/21 19:15 | 05/03/21 15:50 | 1 |

## Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

**Lab Sample ID: LCS 410-120268/2-A**
**Matrix: Water**
**Analysis Batch: 121869**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 120268**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Iron | 400 | 415 | | ug/L | | 104 | 85 - 115 |

**Lab Sample ID: MB 410-121022/1-A**
**Matrix: Water**
**Analysis Batch: 121832**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 121022**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Iron | ND | | 200 | 40 | ug/L | | 04/30/21 09:56 | 05/03/21 14:27 | 1 |

**Lab Sample ID: LCS 410-121022/2-A**
**Matrix: Water**
**Analysis Batch: 121832**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 121022**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Iron | 400 | 392 | | ug/L | | 98 | 85 - 115 |

## Method: 2320B-2011 - Alkalinity, Total

**Lab Sample ID: MB 410-120654/53**
**Matrix: Water**
**Analysis Batch: 120654**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | ND | | 8000 | 2600 | ug/L | | | 04/28/21 21:57 | 1 |

**Lab Sample ID: LCS 410-120654/54**
**Matrix: Water**
**Analysis Batch: 120654**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | 189000 | 185000 | | ug/L | | 98 | 82 - 106 |

## Method: 410.4 - COD

**Lab Sample ID: MB 410-120545/4**
**Matrix: Water**
**Analysis Batch: 120545**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | ND | | 75000 | 25000 | ug/L | | | 04/29/21 09:53 | 1 |

**Lab Sample ID: LCS 410-120545/5**
**Matrix: Water**
**Analysis Batch: 120545**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | 500000 | 499000 | | ug/L | | 100 | 94 - 110 |

## Method: 5210 B-2011 - BOD, 5-Day

**Lab Sample ID: SCB 410-122157/4**
**Matrix: Water**
**Analysis Batch: 122157**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | SCB Result | SCB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Biochemical Oxygen Demand | 914 | | 0.0010 | 0.0010 | ug/L | | | 04/28/21 12:27 | 1 |

**Lab Sample ID: USB 410-122157/2**
**Matrix: Water**
**Analysis Batch: 122157**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | USB Result | USB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Biochemical Oxygen Demand | 53.3 | | 0.0010 | 0.0010 | ug/L | | | 04/28/21 12:27 | 1 |

**Lab Sample ID: LCS 410-122157/27**
**Matrix: Water**
**Analysis Batch: 122157**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Biochemical Oxygen Demand | 198000 | 174000 | | ug/L | | 88 | 85 - 115 |

## Method: 5310C-2011 - Total Organic Carbon/Persulfate - Ultrav

**Lab Sample ID: MB 410-121333/37**
**Matrix: Water**
**Analysis Batch: 121333**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | 1000 | 500 | ug/L | | | 05/01/21 02:33 | 1 |

**Lab Sample ID: LCS 410-121333/36**
**Matrix: Water**
**Analysis Batch: 121333**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 25000 | 23700 | | ug/L | | 95 | 91 - 113 |

## GC/MS VOA

### Analysis Batch: 122425

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37607-1 | QA-WQ-210427 | Total/NA | Water | 8260B | |
| 410-37607-2 | MW-16-WG-210427 | Total/NA | Water | 8260B | |
| 410-37607-3 | MW-17-WG-210427 | Total/NA | Water | 8260B | |
| MB 410-122425/7 | Method Blank | Total/NA | Water | 8260B | |
| LCS 410-122425/4 | Lab Control Sample | Total/NA | Water | 8260B | |
| LCSD 410-122425/5 | Lab Control Sample Dup | Total/NA | Water | 8260B | |

## GC VOA

### Analysis Batch: 120738

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37607-1 | QA-WQ-210427 | Total/NA | Water | 8015B | |
| 410-37607-2 | MW-16-WG-210427 | Total/NA | Water | 8015B | |
| 410-37607-3 | MW-17-WG-210427 | Total/NA | Water | 8015B | |
| MB 410-120738/4 | Method Blank | Total/NA | Water | 8015B | |
| LCS 410-120738/5 | Lab Control Sample | Total/NA | Water | 8015B | |
| LCSD 410-120738/6 | Lab Control Sample Dup | Total/NA | Water | 8015B | |

## GC Semi VOA

### Prep Batch: 121283

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37607-2 | MW-16-WG-210427 | Total/NA | Water | 3510C | |
| 410-37607-3 | MW-17-WG-210427 | Total/NA | Water | 3510C | |
| MB 410-121283/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 410-121283/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 410-121283/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |

### Prep Batch: 121284

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37607-2 | MW-16-WG-210427 | Total/NA | Water | 3510C | |
| 410-37607-3 | MW-17-WG-210427 | Total/NA | Water | 3510C | |
| MB 410-121284/1-B | Method Blank | Total/NA | Water | 3510C | |
| LCS 410-121284/2-B | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 410-121284/3-B | Lab Control Sample Dup | Total/NA | Water | 3510C | |

### Analysis Batch: 121710

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37607-2 | MW-16-WG-210427 | Total/NA | Water | 8015B | 121283 |
| 410-37607-3 | MW-17-WG-210427 | Total/NA | Water | 8015B | 121283 |
| MB 410-121283/1-A | Method Blank | Total/NA | Water | 8015B | 121283 |
| LCS 410-121283/2-A | Lab Control Sample | Total/NA | Water | 8015B | 121283 |
| LCSD 410-121283/3-A | Lab Control Sample Dup | Total/NA | Water | 8015B | 121283 |

### Cleanup Batch: 121852

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37607-2 | MW-16-WG-210427 | Total/NA | Water | 3630C | 121284 |
| 410-37607-3 | MW-17-WG-210427 | Total/NA | Water | 3630C | 121284 |
| MB 410-121284/1-B | Method Blank | Total/NA | Water | 3630C | 121284 |
| LCS 410-121284/2-B | Lab Control Sample | Total/NA | Water | 3630C | 121284 |
| LCSD 410-121284/3-B | Lab Control Sample Dup | Total/NA | Water | 3630C | 121284 |

## GC Semi VOA

### Analysis Batch: 122312

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37607-2 | MW-16-WG-210427 | Total/NA | Water | 8015B | 121852 |
| 410-37607-3 | MW-17-WG-210427 | Total/NA | Water | 8015B | 121852 |
| MB 410-121284/1-B | Method Blank | Total/NA | Water | 8015B | 121852 |
| LCS 410-121284/2-B | Lab Control Sample | Total/NA | Water | 8015B | 121852 |
| LCSD 410-121284/3-B | Lab Control Sample Dup | Total/NA | Water | 8015B | 121852 |

### Prep Batch: 123385

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37607-2 - RE | MW-16-WG-210427 | Total/NA | Water | 3510C | |
| 410-37607-3 - RE | MW-17-WG-210427 | Total/NA | Water | 3510C | |
| MB 410-123385/1-B | Method Blank | Total/NA | Water | 3510C | |
| LCS 410-123385/2-B | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 410-123385/3-B | Lab Control Sample Dup | Total/NA | Water | 3510C | |

### Cleanup Batch: 123968

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37607-2 - RE | MW-16-WG-210427 | Total/NA | Water | 3630C | 123385 |
| 410-37607-3 - RE | MW-17-WG-210427 | Total/NA | Water | 3630C | 123385 |
| MB 410-123385/1-B | Method Blank | Total/NA | Water | 3630C | 123385 |
| LCS 410-123385/2-B | Lab Control Sample | Total/NA | Water | 3630C | 123385 |
| LCSD 410-123385/3-B | Lab Control Sample Dup | Total/NA | Water | 3630C | 123385 |

### Analysis Batch: 124371

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37607-2 - RE | MW-16-WG-210427 | Total/NA | Water | 8015B | 123968 |
| 410-37607-3 - RE | MW-17-WG-210427 | Total/NA | Water | 8015B | 123968 |
| MB 410-123385/1-B | Method Blank | Total/NA | Water | 8015B | 123968 |
| LCS 410-123385/2-B | Lab Control Sample | Total/NA | Water | 8015B | 123968 |
| LCSD 410-123385/3-B | Lab Control Sample Dup | Total/NA | Water | 8015B | 123968 |

## HPLC/IC

### Analysis Batch: 120348

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37607-2 | MW-16-WG-210427 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37607-3 | MW-17-WG-210427 | Total/NA | Water | EPA 300.0 R2.1 | |
| MB 410-120348/4 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |
| LCS 410-120348/3 | Lab Control Sample | Total/NA | Water | EPA 300.0 R2.1 | |

### Analysis Batch: 120349

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37607-2 | MW-16-WG-210427 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37607-3 | MW-17-WG-210427 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37607-3 | MW-17-WG-210427 | Total/NA | Water | EPA 300.0 R2.1 | |
| MB 410-120349/4 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |
| LCS 410-120349/3 | Lab Control Sample | Total/NA | Water | EPA 300.0 R2.1 | |

### Analysis Batch: 120868

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37607-2 | MW-16-WG-210427 | Total/NA | Water | EPA 300.0 R2.1 | |
| MB 410-120868/4 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |

## HPLC/IC (Continued)

### Analysis Batch: 120868 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 410-120868/3 | Lab Control Sample | Total/NA | Water | EPA 300.0 R2.1 | |

## Metals

### Prep Batch: 120268

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37607-2 | MW-16-WG-210427 | Total/NA | Water | 200.7 Rev 4.4 | |
| MB 410-120268/1-A | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | |
| LCS 410-120268/2-A | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | |

### Prep Batch: 121022

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37607-3 | MW-17-WG-210427 | Total/NA | Water | 200.7 Rev 4.4 | |
| MB 410-121022/1-A | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | |
| LCS 410-121022/2-A | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | |

### Analysis Batch: 121832

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37607-3 | MW-17-WG-210427 | Total/NA | Water | 200.7 Rev 4.4 | 121022 |
| MB 410-121022/1-A | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | 121022 |
| LCS 410-121022/2-A | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | 121022 |

### Analysis Batch: 121869

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37607-2 | MW-16-WG-210427 | Total/NA | Water | 200.7 Rev 4.4 | 120268 |
| MB 410-120268/1-A | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | 120268 |
| LCS 410-120268/2-A | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | 120268 |

## General Chemistry

### Analysis Batch: 120545

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37607-2 | MW-16-WG-210427 | Total/NA | Water | 410.4 | |
| 410-37607-3 | MW-17-WG-210427 | Total/NA | Water | 410.4 | |
| MB 410-120545/4 | Method Blank | Total/NA | Water | 410.4 | |
| LCS 410-120545/5 | Lab Control Sample | Total/NA | Water | 410.4 | |

### Analysis Batch: 120654

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37607-2 | MW-16-WG-210427 | Total/NA | Water | 2320B-2011 | |
| 410-37607-3 | MW-17-WG-210427 | Total/NA | Water | 2320B-2011 | |
| MB 410-120654/53 | Method Blank | Total/NA | Water | 2320B-2011 | |
| LCS 410-120654/54 | Lab Control Sample | Total/NA | Water | 2320B-2011 | |

### Analysis Batch: 121333

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37607-2 | MW-16-WG-210427 | Total/NA | Water | 5310C-2011 | |
| 410-37607-3 | MW-17-WG-210427 | Total/NA | Water | 5310C-2011 | |
| MB 410-121333/37 | Method Blank | Total/NA | Water | 5310C-2011 | |
| LCS 410-121333/36 | Lab Control Sample | Total/NA | Water | 5310C-2011 | |

# QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37607-1

## General Chemistry

### Analysis Batch: 122157

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37607-2 | MW-16-WG-210427 | Total/NA | Water | 5210 B-2011 | |
| 410-37607-3 | MW-17-WG-210427 | Total/NA | Water | 5210 B-2011 | |
| SCB 410-122157/4 | Method Blank | Total/NA | Water | 5210 B-2011 | |
| USB 410-122157/2 | Method Blank | Total/NA | Water | 5210 B-2011 | |
| LCS 410-122157/27 | Lab Control Sample | Total/NA | Water | 5210 B-2011 | |

## Client Sample ID: QA-WQ-210427

**Lab Sample ID: 410-37607-1**

**Date Collected: 04/27/21 08:30**

**Matrix: Water**

**Date Received: 04/28/21 11:12**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 122425 | 05/05/21 01:52 | ULCP | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 120738 | 04/29/21 21:06 | JJT8 | ELLE |

## Client Sample ID: MW-16-WG-210427

**Lab Sample ID: 410-37607-2**

**Date Collected: 04/27/21 10:53**

**Matrix: Water**

**Date Received: 04/28/21 11:12**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 122425 | 05/05/21 05:34 | ULCP | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 120738 | 04/30/21 00:06 | JJT8 | ELLE |
| Total/NA | Prep | 3510C | | | 121283 | 05/01/21 01:43 | UKQ8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 121710 | 05/04/21 00:53 | UHEW | ELLE |
| Total/NA | Prep | 3510C | | | 121284 | 05/01/21 01:50 | UKQ8 | ELLE |
| Total/NA | Cleanup | 3630C | | | 121852 | 05/03/21 17:47 | QQ3P | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 122312 | 05/05/21 02:02 | UHEW | ELLE |
| Total/NA | Prep | 3510C | RE | | 123385 | 05/06/21 16:07 | DN9W | ELLE |
| Total/NA | Cleanup | 3630C | RE | | 123968 | 05/07/21 22:56 | K2IL | ELLE |
| Total/NA | Analysis | 8015B | RE | 1 | 124371 | 05/10/21 15:49 | UHEW | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 10 | 120868 | 04/30/21 15:00 | W5UX | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 120348 | 04/29/21 12:23 | W5UX | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 120349 | 04/29/21 12:23 | W5UX | ELLE |
| Total/NA | Prep | 200.7 Rev 4.4 | | | 120268 | 04/28/21 19:15 | UJLA | ELLE |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 121869 | 05/03/21 16:38 | UCIG | ELLE |
| Total/NA | Analysis | 2320B-2011 | | 1 | 120654 | 04/29/21 00:19 | DI9Q | ELLE |
| Total/NA | Analysis | 410.4 | | 1 | 120545 | 04/29/21 10:31 | USAE | ELLE |
| Total/NA | Analysis | 5210 B-2011 | | 1 | 122157 | 04/28/21 20:45 | TI24 | ELLE |
| Total/NA | Analysis | 5310C-2011 | | 1 | 121333 | 05/01/21 04:25 | KGQ6 | ELLE |

## Client Sample ID: MW-17-WG-210427

**Lab Sample ID: 410-37607-3**

**Date Collected: 04/27/21 11:30**

**Matrix: Water**

**Date Received: 04/28/21 11:12**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 122425 | 05/05/21 05:56 | ULCP | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 120738 | 04/30/21 00:32 | JJT8 | ELLE |
| Total/NA | Prep | 3510C | | | 121283 | 05/01/21 01:43 | UKQ8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 121710 | 05/04/21 01:16 | UHEW | ELLE |
| Total/NA | Prep | 3510C | | | 121284 | 05/01/21 01:50 | UKQ8 | ELLE |
| Total/NA | Cleanup | 3630C | | | 121852 | 05/03/21 17:47 | QQ3P | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 122312 | 05/05/21 02:24 | UHEW | ELLE |
| Total/NA | Prep | 3510C | RE | | 123385 | 05/06/21 16:07 | DN9W | ELLE |
| Total/NA | Cleanup | 3630C | RE | | 123968 | 05/07/21 22:56 | K2IL | ELLE |
| Total/NA | Analysis | 8015B | RE | 1 | 124371 | 05/10/21 16:12 | UHEW | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 120348 | 04/29/21 10:59 | W5UX | ELLE |

# Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37607-1

**Client Sample ID: MW-17-WG-210427**
**Date Collected: 04/27/21 11:30**
**Date Received: 04/28/21 11:12**

**Lab Sample ID: 410-37607-3**
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 120349 | 04/29/21 10:59 | W5UX | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 20 | 120349 | 04/29/21 11:10 | W5UX | ELLE |
| Total/NA | Prep | 200.7 Rev 4.4 | | | 121022 | 05/03/21 02:41 | UAMX | ELLE |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 121832 | 05/03/21 15:26 | UCIG | ELLE |
| Total/NA | Analysis | 2320B-2011 | | 1 | 120654 | 04/29/21 00:11 | DI9Q | ELLE |
| Total/NA | Analysis | 410.4 | | 1 | 120545 | 04/29/21 10:34 | USAE | ELLE |
| Total/NA | Analysis | 5210 B-2011 | | 1 | 122157 | 04/28/21 20:45 | TI24 | ELLE |
| Total/NA | Analysis | 5310C-2011 | | 1 | 121333 | 05/01/21 05:08 | KGQ6 | ELLE |

**Laboratory References:**

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

# Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37607-1

## Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| California | State | 2792 | 01-31-22 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| 200.7 Rev 4.4 | 200.7 Rev 4.4 | Water | Iron |
| 2320B-2011 | | Water | Total Alkalinity as CaCO3 to pH 4.5 |
| 410.4 | | Water | Chemical Oxygen Demand |
| 5210 B-2011 | | Water | Biochemical Oxygen Demand |
| 5310C-2011 | | Water | Total Organic Carbon |
| 8015B | | Water | C6-C12 (1C) |
| 8015B | 3510C | Water | DRO (C10-C28) (1C) |
| 8260B | | Water | 1,1,1,2-Tetrachloroethane |
| 8260B | | Water | 1,1,1-Trichloroethane |
| 8260B | | Water | 1,1,2,2-Tetrachloroethane |
| 8260B | | Water | 1,1,2-Trichloroethane |
| 8260B | | Water | 1,1-Dichloroethane |
| 8260B | | Water | 1,1-Dichloroethene |
| 8260B | | Water | 1,1-Dichloropropene |
| 8260B | | Water | 1,2,3-Trichlorobenzene |
| 8260B | | Water | 1,2,3-Trichloropropane |
| 8260B | | Water | 1,2,4-Trichlorobenzene |
| 8260B | | Water | 1,2,4-Trimethylbenzene |
| 8260B | | Water | 1,2-Dibromo-3-Chloropropane |
| 8260B | | Water | 1,2-Dibromoethane |
| 8260B | | Water | 1,2-Dichlorobenzene |
| 8260B | | Water | 1,2-Dichloroethane |
| 8260B | | Water | 1,2-Dichloropropane |
| 8260B | | Water | 1,3,5-Trimethylbenzene |
| 8260B | | Water | 1,3-Dichlorobenzene |
| 8260B | | Water | 1,3-Dichloropropane |
| 8260B | | Water | 1,4-Dichlorobenzene |
| 8260B | | Water | 2,2-Dichloropropane |
| 8260B | | Water | 2-Butanone |
| 8260B | | Water | 2-Chloroethyl vinyl ether |
| 8260B | | Water | 2-Chlorotoluene |
| 8260B | | Water | 2-Hexanone |
| 8260B | | Water | 4-Chlorotoluene |
| 8260B | | Water | 4-Methyl-2-pentanone |
| 8260B | | Water | Acetone |
| 8260B | | Water | Benzene |
| 8260B | | Water | Bromobenzene |
| 8260B | | Water | Bromochloromethane |
| 8260B | | Water | Bromodichloromethane |
| 8260B | | Water | Bromoform |
| 8260B | | Water | Bromomethane |
| 8260B | | Water | Carbon disulfide |
| 8260B | | Water | Carbon tetrachloride |
| 8260B | | Water | Chlorobenzene |
| 8260B | | Water | Chloroethane |

## Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| California | State | 2792 | 01-31-22 |
| 8260B | Water | Chloroform | |
| 8260B | Water | Chloromethane | |
| 8260B | Water | cis-1,2-Dichloroethene | |
| 8260B | Water | cis-1,3-Dichloropropene | |
| 8260B | Water | Dibromochloromethane | |
| 8260B | Water | Dibromomethane | |
| 8260B | Water | Dichlorodifluoromethane | |
| 8260B | Water | di-Isopropyl ether | |
| 8260B | Water | Ethanol | |
| 8260B | Water | Ethyl t-butyl ether | |
| 8260B | Water | Ethylbenzene | |
| 8260B | Water | Freon 113 | |
| 8260B | Water | Hexachlorobutadiene | |
| 8260B | Water | Isopropylbenzene | |
| 8260B | Water | m&p-Xylene | |
| 8260B | Water | Methyl tertiary butyl ether | |
| 8260B | Water | Methylene Chloride | |
| 8260B | Water | Naphthalene | |
| 8260B | Water | n-Butylbenzene | |
| 8260B | Water | n-Propylbenzene | |
| 8260B | Water | o-Xylene | |
| 8260B | Water | p-Isopropyltoluene | |
| 8260B | Water | sec-Butylbenzene | |
| 8260B | Water | Styrene | |
| 8260B | Water | t-Amyl methyl ether | |
| 8260B | Water | t-Butyl alcohol | |
| 8260B | Water | tert-Butylbenzene | |
| 8260B | Water | Tetrachloroethene | |
| 8260B | Water | Toluene | |
| 8260B | Water | trans-1,2-Dichloroethene | |
| 8260B | Water | trans-1,3-Dichloropropene | |
| 8260B | Water | Trichloroethene | |
| 8260B | Water | Trichlorofluoromethane | |
| 8260B | Water | Vinyl chloride | |
| EPA 300.0 R2.1 | Water | Chloride | |
| EPA 300.0 R2.1 | Water | Nitrogen, Nitrate | |
| EPA 300.0 R2.1 | Water | Sulfate | |

# Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 410-37607-1
Project/Site: 206145

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | ELLE |
| 8015B | Gasoline Range Organics - (GC) | SW846 | ELLE |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | ELLE |
| EPA 300.0 R2.1 | Anions, Ion Chromatgraphy | EPA | ELLE |
| EPA 300.0 R2.1 | Anions, Ion Chromatography | EPA | ELLE |
| 200.7 Rev 4.4 | Metals (ICP) | EPA | ELLE |
| 2320B-2011 | Alkalinity, Total | SM | ELLE |
| 410.4 | COD | MCAWW | ELLE |
| 5210 B-2011 | BOD, 5-Day | SM | ELLE |
| 5310C-2011 | Total Organic Carbon/Persulfate - Ultrav | SM | ELLE |
| 200.7 Rev 4.4 | Preparation, Total Metals | EPA | ELLE |
| 3510C | Liquid-Liquid Extraction (Separatory Funnel) | SW846 | ELLE |
| 3630C | Silica Gel Cleanup | SW846 | ELLE |
| 5030B | Purge and Trap | SW846 | ELLE |

**Protocol References:**

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

# Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37607-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 410-37607-1 | QA-WQ-210427 | Water | 04/27/21 08:30 | 04/28/21 11:12 | |
| 410-37607-2 | MW-16-WG-210427 | Water | 04/27/21 10:53 | 04/28/21 11:12 | |
| 410-37607-3 | MW-17-WG-210427 | Water | 04/27/21 11:30 | 04/28/21 11:12 | |

# Chevron California Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # _____ 410-37607 Chain of Custody

nental use only _____

SCR #: _____

## Client Information

Facility # 206145 WBS

Site Address: 800 Center Street, Oakland, CA

Chevron PM: Ross LeGrandeur Lead Consultant

Consultant/Office: Arcadis

Consultant Project Mgr.: Ross LeGrandeur

Sampler: Kristina Barry

State where samples were collected: CA

For Compliance: Yes ☐ No ☐

## Matrix

Soil ☐ Sediment ☐ Water ☒ Ground ☐ Potable ☐ Surface ☐ NPDES ☐ Oil ☐ Air ☐

## Preservation Codes

H = HCl T = Thiosulfate
N = $HNO_3$ B = NaOH
S = $H_2SO_4$ P = $H_3PO_4$
F = Field Filtered O = Other

☐ Results in Dry Weight

☐ J value reporting needed

☐ Must meet lowest detection limits possible for 8260 compounds

| Sample Identification | Soil Depth | Collected Date | Collected Time | Grab | Composite | Total Number of Containers | Alkalinity Method (SM2320B) | TPH-GRO 8015B 8260 ☐ | TPH-DRO 8015B without Silica Gel Cleanup | TPH-DRO 8015B with Silica Gel Cleanup | 8260B Full Scan | Nitrate, Sulfate, Chloride Method (300.0) | Chemical Oxygen Demand Method (410.4) | Total Organic Carbon Method (SM5310C) | Biological Oxygen Demend Method (SM5210B) | Iron Method (200.7) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QA | | 4/27/21 | 0830 | | | 2 | | X | | | X | | | | | |
| MW-16 | | ↓ | 1053 | X | | 17 | X | X | X | X | X | X | X | X | X | X |
| MW-17 | | ↓ | 1130 | X | | 17 | X | X | X | X | X | X | X | X | X | X |

## Analyses Requested

Preservation and Filtration Codes

## Remarks

Invoice & Reporting to: Ross.LaGrandeur@arcadis.com

Requesting 10g Cleanup on DRO w/sgc COLUMN samples.

Requesting Chromatograms for TPH-DRO & TPH-GRO range.

**Turnaround Time Requested (TAT)** (please circle)

Standard 5 day 4 day

72 hour 48 hour 24 hour

**Data Package** (circle if required)

Type I - Full Type III Type VI (Raw Data)

**EDD** (circle if required)

EDFFLAT (default) Other: _____

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| KB | 04/27/2021 | 1700 | | | |
| | | | | | |
| | | | | | |
| Relinquished by Commercial Carrier: 8164 9100 4016 UPS ____ FedEx X Other ____ | | | Received by | 4/28/21 | 1112 |

Temperature Upon Receipt _____ °C

Custody Seals Intact? Yes No

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7050 1117

# Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 410-37607-1

**Login Number: 37607**

**List Source: Eurofins Lancaster Laboratories Env**

**List Number: 1**

**Creator: Rivera, Tatiana**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal is intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable (</=6C, not frozen). | True | |
| Cooler Temperature is recorded. | True | |
| WV: Container Temperature is acceptable (</=6C, not frozen). | N/A | |
| WV: Container Temperature is recorded. | N/A | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses. | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | N/A | |
| Is the Field Sampler's name present on COC? | True | |
| Sample Preservation Verified. | N/A | |
| Residual Chlorine Checked. | N/A | |
| Sample custody seals are intact. | N/A | |

eurofins | Environment Testing America

# ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-37209-1
Client Project/Site: 206145

For:
ARCADIS U.S., Inc.
320 Commerce Ave
Suite 200
Irvine, California 92602

Attn: Ross LaGrandeur

*Authorized for release by:*
*5/5/2021 10:48:22 AM*

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at:
www.eurofinsus.com/Env

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Amek Carter
Project Manager
*5/5/2021 10:48:22 AM*

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## Qualifiers

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| *1 | LCS/LCSD RPD 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. |

### HPLC/IC

| Qualifier | Qualifier Description |
|---|---|
| H | Sample was prepped or analyzed beyond the specified holding time |

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| 1C | Result is from the primary column on a dual-column method. |
| 2C | Result is from the confirmation column on a dual-column method. |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

## Job ID: 410-37209-1

### Laboratory: Eurofins Lancaster Laboratories Env, LLC

**Narrative**

**Job Narrative**
**410-37209-1**

**Receipt**
The samples were received on 4/24/2021 10:16 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -0.7°C

**GC/MS VOA**
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**Gasoline Range Organics**
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**Diesel Range Organics**
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**HPLC/IC**
Method 300_ORGFMS: Reanalysis of the following sample was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. MW-5-GW-210423 (410-37209-2)

Method 300_ORGFMS: Reanalysis of the following sample was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. MW-8-GW-210423 (410-37209-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**Metals**
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**General Chemistry**
Method 410.4: The following samples were diluted due to the nature of the sample matrix: MW-8-GW-210423 (410-37209-1) and MW-5-GW-210423 (410-37209-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

# Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37209-1

## Client Sample ID: MW-8-GW-210423 — Lab Sample ID: 410-37209-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | 45 | J *1 | 100 | 45 | ug/L | 1 | | 8015B | Total/NA |
| Nitrogen, Nitrate | 1700 | H | 500 | 250 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Sulfate | 50000 | | 5000 | 1500 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Chloride | 15000 | | 2000 | 1000 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Iron | 43000 | | 200 | 40 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 170000 | | 8000 | 2600 | ug/L | 1 | | 2320B-2011 | Total/NA |
| Chemical Oxygen Demand | 72000 | J | 150000 | 50000 | ug/L | 2 | | 410.4 | Total/NA |
| Total Organic Carbon | 3400 | | 1000 | 500 | ug/L | 1 | | 5310C-2011 | Total/NA |

## Client Sample ID: MW-5-GW-210423 — Lab Sample ID: 410-37209-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | 2200 | H | 500 | 250 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Sulfate | 43000 | | 5000 | 1500 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Chloride | 31000 | | 20000 | 10000 | ug/L | 50 | | EPA 300.0 R2.1 | Total/NA |
| Iron | 93000 | | 200 | 40 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 140000 | | 8000 | 2600 | ug/L | 1 | | 2320B-2011 | Total/NA |
| Chemical Oxygen Demand | 140000 | J | 380000 | 130000 | ug/L | 5 | | 410.4 | Total/NA |
| Biochemical Oxygen Demand | 2100 | | 2000 | 2000 | ug/L | 1 | | 5210 B-2011 | Total/NA |
| Total Organic Carbon | 2200 | | 1000 | 500 | ug/L | 1 | | 5310C-2011 | Total/NA |

## Client Sample ID: QA-WQ-210423 — Lab Sample ID: 410-37209-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37209-1

**Client Sample ID: MW-8-GW-210423**
**Date Collected: 04/23/21 09:50**
**Date Received: 04/24/21 10:16**

**Lab Sample ID: 410-37209-1**
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 04/30/21 18:30 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 04/30/21 18:30 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 04/30/21 18:30 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 04/30/21 18:30 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 04/30/21 18:30 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 04/30/21 18:30 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 04/30/21 18:30 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 04/30/21 18:30 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 04/30/21 18:30 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 04/30/21 18:30 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 04/30/21 18:30 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 04/30/21 18:30 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 04/30/21 18:30 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 04/30/21 18:30 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 04/30/21 18:30 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 04/30/21 18:30 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 04/30/21 18:30 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 04/30/21 18:30 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 04/30/21 18:30 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 04/30/21 18:30 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 04/30/21 18:30 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |

**Client Sample ID: MW-8-GW-210423**
**Date Collected: 04/23/21 09:50**
**Date Received: 04/24/21 10:16**

**Lab Sample ID: 410-37209-1**
**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 04/30/21 18:30 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 04/30/21 18:30 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 04/30/21 18:30 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 04/30/21 18:30 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 04/30/21 18:30 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 04/30/21 18:30 | 1 |
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 04/30/21 18:30 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 04/30/21 18:30 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 04/30/21 18:30 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 04/30/21 18:30 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:30 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 04/30/21 18:30 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 04/30/21 18:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *80 - 120* | | *04/30/21 18:30* | *1* |
| *Dibromofluoromethane (Surr)* | *94* | | *80 - 120* | | *04/30/21 18:30* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* | | *04/30/21 18:30* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | | *04/30/21 18:30* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | ND | | 100 | 17 | ug/L | | | 04/28/21 02:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *91* | | *63 - 135* | | *04/28/21 02:22* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28) (1C)** | **45** | **J *1** | 100 | 45 | ug/L | | 04/29/21 10:20 | 04/30/21 20:43 | 1 |
| DRO (C10-C28) (1C) | ND | *1 | 100 | 45 | ug/L | | 04/29/21 10:20 | 05/04/21 18:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *76* | | *50 - 150* | *04/29/21 10:20* | *04/30/21 20:43* | *1* |
| *o- terphenyl (Surr) (1C)* | *59* | | *46 - 130* | *04/29/21 10:20* | *05/04/21 18:28* | *1* |
| *Capric Acid (Surr) (1C)* | *0.3* | | *0 - 1* | *04/29/21 10:20* | *05/04/21 18:28* | *1* |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatgraphy

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Nitrogen, Nitrate** | **1700** | **H** | 500 | 250 | ug/L | | | 04/29/21 17:38 | 5 |

## Client Sample ID: MW-8-GW-210423

**Lab Sample ID: 410-37209-1**

**Date Collected: 04/23/21 09:50**

**Matrix: Water**

**Date Received: 04/24/21 10:16**

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Sulfate** | **50000** | | 5000 | 1500 | ug/L | | | 04/25/21 02:43 | 5 |
| **Chloride** | **15000** | | 2000 | 1000 | ug/L | | | 04/25/21 02:43 | 5 |

### Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Iron** | **43000** | | 200 | 40 | ug/L | | 04/26/21 14:41 | 04/30/21 17:12 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total Alkalinity as CaCO3 to pH 4.5** | **170000** | | 8000 | 2600 | ug/L | | | 04/27/21 00:11 | 1 |
| **Chemical Oxygen Demand** | **72000** | **J** | 150000 | 50000 | ug/L | | | 04/28/21 10:42 | 2 |
| Biochemical Oxygen Demand | ND | | 2000 | 2000 | ug/L | | | 04/24/21 16:16 | 1 |
| **Total Organic Carbon** | **3400** | | 1000 | 500 | ug/L | | | 04/30/21 21:28 | 1 |

## Client Sample ID: MW-5-GW-210423

**Lab Sample ID: 410-37209-2**

**Date Collected: 04/23/21 09:07**

**Matrix: Water**

**Date Received: 04/24/21 10:16**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 04/30/21 18:53 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 04/30/21 18:53 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 04/30/21 18:53 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 04/30/21 18:53 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 04/30/21 18:53 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 04/30/21 18:53 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 04/30/21 18:53 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 04/30/21 18:53 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 04/30/21 18:53 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 04/30/21 18:53 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 04/30/21 18:53 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 04/30/21 18:53 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |

**Client Sample ID: MW-5-GW-210423**
**Date Collected: 04/23/21 09:07**
**Date Received: 04/24/21 10:16**

**Lab Sample ID: 410-37209-2**
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 04/30/21 18:53 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 04/30/21 18:53 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 04/30/21 18:53 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 04/30/21 18:53 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 04/30/21 18:53 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 04/30/21 18:53 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 04/30/21 18:53 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 04/30/21 18:53 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 04/30/21 18:53 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 04/30/21 18:53 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 04/30/21 18:53 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 04/30/21 18:53 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 04/30/21 18:53 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 04/30/21 18:53 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 04/30/21 18:53 | 1 |
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 04/30/21 18:53 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 04/30/21 18:53 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 04/30/21 18:53 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 04/30/21 18:53 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 18:53 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 04/30/21 18:53 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 04/30/21 18:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *80 - 120* | | *04/30/21 18:53* | *1* |
| *Dibromofluoromethane (Surr)* | *94* | | *80 - 120* | | *04/30/21 18:53* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *80 - 120* | | *04/30/21 18:53* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | | *04/30/21 18:53* | *1* |

## Client Sample ID: MW-5-GW-210423

**Lab Sample ID: 410-37209-2**

**Date Collected: 04/23/21 09:07**

**Matrix: Water**

**Date Received: 04/24/21 10:16**

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | ND | | 100 | 17 | ug/L | | | 04/28/21 02:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *92* | | *63 - 135* | | *04/28/21 02:46* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | ND | *1 | 100 | 46 | ug/L | | 04/29/21 10:20 | 04/30/21 21:05 | 1 |
| DRO (C10-C28) (1C) | ND | *1 | 100 | 46 | ug/L | | 04/29/21 10:20 | 05/04/21 18:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *74* | | *50 - 150* | *04/29/21 10:20* | *04/30/21 21:05* | *1* |
| *o- terphenyl (Surr) (1C)* | *76* | | *46 - 130* | *04/29/21 10:20* | *05/04/21 18:51* | *1* |
| *Capric Acid (Surr) (1C)* | *0.3* | | *0 - 1* | *04/29/21 10:20* | *05/04/21 18:51* | *1* |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatgraphy

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Nitrogen, Nitrate** | **2200** | **H** | 500 | 250 | ug/L | | | 04/29/21 08:19 | 5 |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Sulfate** | **43000** | | 5000 | 1500 | ug/L | | | 04/25/21 03:04 | 5 |
| **Chloride** | **31000** | | 20000 | 10000 | ug/L | | | 04/29/21 08:37 | 50 |

### Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Iron** | **93000** | | 200 | 40 | ug/L | | 04/26/21 14:43 | 04/30/21 17:27 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total Alkalinity as CaCO3 to pH 4.5** | **140000** | | 8000 | 2600 | ug/L | | | 04/26/21 23:52 | 1 |
| **Chemical Oxygen Demand** | **140000** | **J** | 380000 | 130000 | ug/L | | | 04/28/21 10:46 | 5 |
| **Biochemical Oxygen Demand** | **2100** | | 2000 | 2000 | ug/L | | | 04/24/21 15:10 | 1 |
| **Total Organic Carbon** | **2200** | | 1000 | 500 | ug/L | | | 04/30/21 21:42 | 1 |

## Client Sample ID: QA-WQ-210423

**Lab Sample ID: 410-37209-3**

**Date Collected: 04/23/21 06:30**

**Matrix: Water**

**Date Received: 04/24/21 10:16**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 04/30/21 15:10 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 04/30/21 15:10 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 04/30/21 15:10 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 04/30/21 15:10 | 1 |

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37209-1

**Client Sample ID: QA-WQ-210423**
**Date Collected: 04/23/21 06:30**
**Date Received: 04/24/21 10:16**

**Lab Sample ID: 410-37209-3**
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 04/30/21 15:10 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 04/30/21 15:10 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 04/30/21 15:10 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 04/30/21 15:10 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 04/30/21 15:10 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 04/30/21 15:10 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 04/30/21 15:10 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 04/30/21 15:10 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 04/30/21 15:10 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 04/30/21 15:10 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 04/30/21 15:10 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 04/30/21 15:10 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 04/30/21 15:10 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 04/30/21 15:10 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 04/30/21 15:10 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 04/30/21 15:10 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 04/30/21 15:10 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 04/30/21 15:10 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 04/30/21 15:10 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 04/30/21 15:10 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 04/30/21 15:10 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 04/30/21 15:10 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 04/30/21 15:10 | 1 |
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 04/30/21 15:10 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37209-1

**Client Sample ID: QA-WQ-210423**
**Date Collected: 04/23/21 06:30**
**Date Received: 04/24/21 10:16**

**Lab Sample ID: 410-37209-3**
**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 04/30/21 15:10 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 04/30/21 15:10 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 04/30/21 15:10 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 15:10 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 04/30/21 15:10 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 04/30/21 15:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *80 - 120* | | *04/30/21 15:10* | *1* |
| *Dibromofluoromethane (Surr)* | *93* | | *80 - 120* | | *04/30/21 15:10* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *80 - 120* | | *04/30/21 15:10* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | | *04/30/21 15:10* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | ND | | 100 | 17 | ug/L | | | 04/28/21 00:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *93* | | *63 - 135* | | *04/28/21 00:48* | *1* |

# Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37209-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | DBFM | BFB | TOL |
| Lab Sample ID | Client Sample ID | (80-120) | (80-120) | (80-120) | (80-120) |
| 410-37209-1 | MW-8-GW-210423 | 101 | 94 | 94 | 99 |
| 410-37209-2 | MW-5-GW-210423 | 102 | 94 | 95 | 99 |
| 410-37209-3 | QA-WQ-210423 | 101 | 93 | 95 | 100 |
| LCS 410-121064/5 | Lab Control Sample | 101 | 93 | 97 | 100 |
| MB 410-121064/7 | Method Blank | 102 | 94 | 95 | 100 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

## Method: 8015B - Gasoline Range Organics - (GC)

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) |
|---|---|---|
| | | TFT-F1 |
| Lab Sample ID | Client Sample ID | (63-135) |
| 410-37209-1 | MW-8-GW-210423 | 91 |
| 410-37209-2 | MW-5-GW-210423 | 92 |
| 410-37209-3 | QA-WQ-210423 | 93 |
| LCS 410-119693/5 | Lab Control Sample | 93 |
| LCSD 410-119693/6 | Lab Control Sample Dup | 96 |
| MB 410-119693/4 | Method Blank | 86 |

**Surrogate Legend**

TFT-F = a,a,a-Trifluorotoluene (fid)

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) |
|---|---|---|
| | | OTP1 |
| Lab Sample ID | Client Sample ID | (50-150) |
| 410-37209-1 | MW-8-GW-210423 | 76 |
| 410-37209-2 | MW-5-GW-210423 | 74 |
| LCS 410-120401/2-A | Lab Control Sample | 87 |
| LCSD 410-120401/3-A | Lab Control Sample Dup | 77 |
| MB 410-120401/1-A | Method Blank | 70 |

**Surrogate Legend**

OTP = o- terphenyl (Surr)

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| | | OTP1 | NDA1 |
| Lab Sample ID | Client Sample ID | (46-130) | (0-1) |
| 410-37209-1 | MW-8-GW-210423 | 59 | 0.3 |
| 410-37209-2 | MW-5-GW-210423 | 76 | 0.3 |
| LCS 410-120402/2-B | Lab Control Sample | 70 | 0.9 |

# Surrogate Summary

Client: ARCADIS U.S., Inc.
Job ID: 410-37209-1
Project/Site: 206145

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Matrix: Water**
**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OTP1 | NDA1 | | | | | | | | |
| Lab Sample ID | Client Sample ID | (46-130) | (0-1) | | | | | | | | |
| LCSD 410-120402/3-B | Lab Control Sample Dup | 60 | 0.7 | | | | | | | | |
| MB 410-120402/1-B | Method Blank | 46 | 0.3 | | | | | | | | |

**Surrogate Legend**

OTP = o- terphenyl (Surr)
NDA = Capric Acid (Surr)

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 410-121064/7**
**Matrix: Water**
**Analysis Batch: 121064**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 04/30/21 14:11 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 04/30/21 14:11 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 04/30/21 14:11 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 04/30/21 14:11 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 04/30/21 14:11 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 04/30/21 14:11 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 04/30/21 14:11 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 04/30/21 14:11 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 04/30/21 14:11 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 04/30/21 14:11 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 04/30/21 14:11 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 04/30/21 14:11 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 04/30/21 14:11 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 04/30/21 14:11 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 04/30/21 14:11 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 04/30/21 14:11 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 04/30/21 14:11 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 04/30/21 14:11 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 04/30/21 14:11 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 04/30/21 14:11 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 04/30/21 14:11 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 410-121064/7**
**Matrix: Water**
**Analysis Batch: 121064**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 04/30/21 14:11 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 04/30/21 14:11 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 04/30/21 14:11 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 04/30/21 14:11 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 04/30/21 14:11 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 04/30/21 14:11 | 1 |
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 04/30/21 14:11 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 04/30/21 14:11 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 04/30/21 14:11 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 04/30/21 14:11 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 04/30/21 14:11 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 04/30/21 14:11 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 04/30/21 14:11 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *80 - 120* | | *04/30/21 14:11* | *1* |
| *Dibromofluoromethane (Surr)* | *94* | | *80 - 120* | | *04/30/21 14:11* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *80 - 120* | | *04/30/21 14:11* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | | *04/30/21 14:11* | *1* |

**Lab Sample ID: LCS 410-121064/5**
**Matrix: Water**
**Analysis Batch: 121064**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 20.0 | 19.0 | | ug/L | | 95 | 78 - 120 |
| 1,1,1-Trichloroethane | 20.0 | 18.2 | | ug/L | | 91 | 67 - 126 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 22.0 | | ug/L | | 110 | 72 - 120 |
| 1,1,2-Trichloroethane | 20.0 | 20.5 | | ug/L | | 103 | 80 - 120 |
| 1,1-Dichloroethane | 20.0 | 19.6 | | ug/L | | 98 | 80 - 120 |
| 1,1-Dichloroethene | 20.0 | 21.9 | | ug/L | | 110 | 80 - 131 |
| 1,1-Dichloropropene | 20.0 | 19.0 | | ug/L | | 95 | 78 - 120 |
| 1,2,3-Trichlorobenzene | 20.0 | 19.0 | | ug/L | | 95 | 66 - 120 |
| 1,2,3-Trichloropropane | 20.0 | 20.9 | | ug/L | | 105 | 75 - 124 |
| 1,2,4-Trichlorobenzene | 20.0 | 18.6 | | ug/L | | 93 | 63 - 120 |
| 1,2,4-Trimethylbenzene | 20.0 | 20.7 | | ug/L | | 103 | 75 - 120 |
| 1,2-Dibromo-3-Chloropropane | 20.0 | 19.8 | | ug/L | | 99 | 47 - 131 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 410-121064/5**
**Matrix: Water**
**Analysis Batch: 121064**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 20.0 | 19.8 | | ug/L | | 99 | 77 - 120 |
| 1,2-Dichlorobenzene | 20.0 | 20.1 | | ug/L | | 101 | 80 - 120 |
| 1,2-Dichloroethane | 20.0 | 17.2 | | ug/L | | 86 | 73 - 124 |
| 1,2-Dichloropropane | 20.0 | 20.1 | | ug/L | | 101 | 80 - 120 |
| 1,3,5-Trimethylbenzene | 20.0 | 20.7 | | ug/L | | 104 | 75 - 120 |
| 1,3-Dichlorobenzene | 20.0 | 20.3 | | ug/L | | 101 | 80 - 120 |
| 1,3-Dichloropropane | 20.0 | 20.5 | | ug/L | | 103 | 80 - 120 |
| 1,4-Dichlorobenzene | 20.0 | 20.5 | | ug/L | | 103 | 80 - 120 |
| 2,2-Dichloropropane | 20.0 | 17.5 | | ug/L | | 88 | 55 - 142 |
| 2-Butanone | 150 | 146 | | ug/L | | 97 | 59 - 135 |
| 2-Chloroethyl vinyl ether | 20.0 | 18.6 | | ug/L | | 93 | 49 - 124 |
| 2-Chlorotoluene | 20.0 | 20.0 | | ug/L | | 100 | 80 - 120 |
| 2-Hexanone | 100 | 95.3 | | ug/L | | 95 | 56 - 135 |
| 4-Chlorotoluene | 20.0 | 20.7 | | ug/L | | 104 | 80 - 120 |
| 4-Methyl-2-pentanone | 100 | 92.0 | | ug/L | | 92 | 62 - 133 |
| Acetone | 150 | 148 | | ug/L | | 98 | 54 - 157 |
| Benzene | 20.0 | 20.7 | | ug/L | | 104 | 80 - 120 |
| Bromobenzene | 20.0 | 20.0 | | ug/L | | 100 | 80 - 120 |
| Bromochloromethane | 20.0 | 19.2 | | ug/L | | 96 | 80 - 120 |
| Bromodichloromethane | 20.0 | 18.8 | | ug/L | | 94 | 71 - 120 |
| Bromoform | 20.0 | 17.5 | | ug/L | | 88 | 51 - 120 |
| Bromomethane | 20.0 | 22.1 | | ug/L | | 111 | 53 - 128 |
| Carbon disulfide | 20.0 | 22.6 | | ug/L | | 113 | 65 - 128 |
| Carbon tetrachloride | 20.0 | 17.5 | | ug/L | | 87 | 64 - 134 |
| Chlorobenzene | 20.0 | 20.9 | | ug/L | | 104 | 80 - 120 |
| Chloroethane | 20.0 | 20.8 | | ug/L | | 104 | 55 - 123 |
| Chloroform | 20.0 | 19.5 | | ug/L | | 98 | 80 - 120 |
| Chloromethane | 20.0 | 21.0 | | ug/L | | 105 | 56 - 121 |
| cis-1,2-Dichloroethene | 20.0 | 21.0 | | ug/L | | 105 | 80 - 125 |
| cis-1,3-Dichloropropene | 20.0 | 19.6 | | ug/L | | 98 | 75 - 120 |
| Dibromochloromethane | 20.0 | 19.1 | | ug/L | | 95 | 71 - 120 |
| Dibromomethane | 20.0 | 19.1 | | ug/L | | 96 | 80 - 120 |
| Dichlorodifluoromethane | 20.0 | 19.4 | | ug/L | | 97 | 41 - 127 |
| di-Isopropyl ether | 20.0 | 19.1 | | ug/L | | 95 | 70 - 124 |
| Ethanol | 1000 | 1040 | | ug/L | | 104 | 31 - 180 |
| Ethyl t-butyl ether | 20.0 | 19.0 | | ug/L | | 95 | 68 - 121 |
| Ethylbenzene | 20.0 | 20.2 | | ug/L | | 101 | 80 - 120 |
| Freon 113 | 20.0 | 19.8 | | ug/L | | 99 | 73 - 139 |
| Hexachlorobutadiene | 20.0 | 16.9 | | ug/L | | 84 | 63 - 120 |
| Isopropylbenzene | 20.0 | 19.2 | | ug/L | | 96 | 80 - 120 |
| m&p-Xylene | 40.0 | 40.3 | | ug/L | | 101 | 80 - 120 |
| Methyl tertiary butyl ether | 20.0 | 19.3 | | ug/L | | 97 | 69 - 122 |
| Methylene Chloride | 20.0 | 21.8 | | ug/L | | 109 | 80 - 120 |
| Naphthalene | 20.0 | 20.2 | | ug/L | | 101 | 53 - 124 |
| n-Butylbenzene | 20.0 | 19.7 | | ug/L | | 98 | 76 - 120 |
| n-Propylbenzene | 20.0 | 20.8 | | ug/L | | 104 | 79 - 121 |
| o-Xylene | 20.0 | 20.2 | | ug/L | | 101 | 80 - 120 |
| p-Isopropyltoluene | 20.0 | 20.1 | | ug/L | | 100 | 76 - 120 |
| sec-Butylbenzene | 20.0 | 20.3 | | ug/L | | 101 | 77 - 120 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 410-121064/5**
**Matrix: Water**
**Analysis Batch: 121064**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Styrene | | | 20.0 | 20.1 | | ug/L | | 100 | 80 - 120 | | |
| t-Amyl methyl ether | | | 20.0 | 19.3 | | ug/L | | 97 | 66 - 120 | | |
| t-Butyl alcohol | | | 200 | 184 | | ug/L | | 92 | 60 - 130 | | |
| tert-Butylbenzene | | | 20.0 | 19.4 | | ug/L | | 97 | 78 - 120 | | |
| Tetrachloroethene | | | 20.0 | 20.4 | | ug/L | | 102 | 80 - 120 | | |
| Toluene | | | 20.0 | 20.7 | | ug/L | | 104 | 80 - 120 | | |
| trans-1,2-Dichloroethene | | | 20.0 | 21.2 | | ug/L | | 106 | 80 - 126 | | |
| trans-1,3-Dichloropropene | | | 20.0 | 19.9 | | ug/L | | 100 | 67 - 120 | | |
| Trichloroethene | | | 20.0 | 19.8 | | ug/L | | 99 | 80 - 120 | | |
| Trichlorofluoromethane | | | 20.0 | 18.6 | | ug/L | | 93 | 55 - 135 | | |
| Vinyl chloride | | | 20.0 | 21.6 | | ug/L | | 108 | 56 - 120 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *93* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *80 - 120* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: MB 410-119693/4**
**Matrix: Water**
**Analysis Batch: 119693**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | ND | | 100 | 17 | ug/L | | | 04/27/21 22:50 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *86* | | *63 - 135* | | *04/27/21 22:50* | *1* |

**Lab Sample ID: LCS 410-119693/5**
**Matrix: Water**
**Analysis Batch: 119693**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | | | 1100 | 1090 | | ug/L | | 99 | 74 - 120 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *93* | | *63 - 135* |

**Lab Sample ID: LCSD 410-119693/6**
**Matrix: Water**
**Analysis Batch: 119693**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | | | 1100 | 1120 | | ug/L | | 102 | 74 - 120 | 3 | 30 |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: LCSD 410-119693/6**
**Matrix: Water**
**Analysis Batch: 119693**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *96* | | *63 - 135* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 410-120401/1-A**
**Matrix: Water**
**Analysis Batch: 121195**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 120401**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | ND | | 100 | 45 | ug/L | | 04/29/21 10:20 | 04/30/21 19:35 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *70* | | *50 - 150* | *04/29/21 10:20* | *04/30/21 19:35* | *1* |

**Lab Sample ID: LCS 410-120401/2-A**
**Matrix: Water**
**Analysis Batch: 121195**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 120401**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | | | 602 | 414 | | ug/L | | 69 | 20 - 118 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *87* | | *50 - 150* |

**Lab Sample ID: LCSD 410-120401/3-A**
**Matrix: Water**
**Analysis Batch: 121195**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 120401**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | | | 602 | 279 | *1 | ug/L | | 46 | 20 - 118 | 39 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *77* | | *50 - 150* |

**Lab Sample ID: MB 410-120402/1-B**
**Matrix: Water**
**Analysis Batch: 122312**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 120402**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | ND | | 100 | 45 | ug/L | | 04/29/21 10:20 | 05/04/21 17:20 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *46* | | *46 - 130* | *04/29/21 10:20* | *05/04/21 17:20* | *1* |
| *Capric Acid (Surr) (1C)* | *0.3* | | *0 - 1* | *04/29/21 10:20* | *05/04/21 17:20* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: LCS 410-120402/2-B**
**Matrix: Water**
**Analysis Batch: 122312**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 120402**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | | | 602 | 322 | | ug/L | | 53 | 12 - 115 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *70* | | *46 - 130* |
| *Capric Acid (Surr) (1C)* | *0.9* | | *0 - 1* |

**Lab Sample ID: LCSD 410-120402/3-B**
**Matrix: Water**
**Analysis Batch: 122312**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 120402**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | | | 602 | 199 | *1 | ug/L | | 33 | 12 - 115 | 47 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *60* | | *46 - 130* |
| *Capric Acid (Surr) (1C)* | *0.7* | | *0 - 1* |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatgraphy

**Lab Sample ID: MB 410-120124/4**
**Matrix: Water**
**Analysis Batch: 120124**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | ND | | 100 | 50 | ug/L | | | 04/29/21 01:23 | 1 |

**Lab Sample ID: LCS 410-120124/3**
**Matrix: Water**
**Analysis Batch: 120124**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | | | 750 | 731 | | ug/L | | 97 | 90 - 110 | | |

**Lab Sample ID: MB 410-120358/4**
**Matrix: Water**
**Analysis Batch: 120358**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | ND | | 100 | 50 | ug/L | | | 04/29/21 11:23 | 1 |

**Lab Sample ID: LCS 410-120358/3**
**Matrix: Water**
**Analysis Batch: 120358**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | | | 750 | 789 | | ug/L | | 105 | 90 - 110 | | |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatgraphy (Continued)

**Lab Sample ID: 410-37209-1 MS**
**Matrix: Water**
**Analysis Batch: 120358**

**Client Sample ID: MW-8-GW-210423**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | 1700 | H | 2500 | 4440 | | ug/L | | 108 | 90 - 110 |

**Lab Sample ID: 410-37209-1 DU**
**Matrix: Water**
**Analysis Batch: 120358**

**Client Sample ID: MW-8-GW-210423**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | 1700 | H | 1720 | | ug/L | | 1 | 15 |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

**Lab Sample ID: MB 410-118622/4**
**Matrix: Water**
**Analysis Batch: 118622**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 1000 | 300 | ug/L | | | 04/25/21 01:40 | 1 |
| Chloride | ND | | 400 | 200 | ug/L | | | 04/25/21 01:40 | 1 |

**Lab Sample ID: LCS 410-118622/3**
**Matrix: Water**
**Analysis Batch: 118622**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Sulfate | 7500 | 7030 | | ug/L | | 94 | 90 - 110 |
| Chloride | 3000 | 3010 | | ug/L | | 100 | 90 - 110 |

**Lab Sample ID: MB 410-120123/4**
**Matrix: Water**
**Analysis Batch: 120123**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 1000 | 300 | ug/L | | | 04/29/21 01:23 | 1 |
| Chloride | ND | | 400 | 200 | ug/L | | | 04/29/21 01:23 | 1 |

**Lab Sample ID: LCS 410-120123/3**
**Matrix: Water**
**Analysis Batch: 120123**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Sulfate | 7500 | 7750 | | ug/L | | 103 | 90 - 110 |
| Chloride | 3000 | 3100 | | ug/L | | 103 | 90 - 110 |

**Lab Sample ID: MB 410-120359/4**
**Matrix: Water**
**Analysis Batch: 120359**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 1000 | 300 | ug/L | | | 04/29/21 11:23 | 1 |
| Chloride | ND | | 400 | 200 | ug/L | | | 04/29/21 11:23 | 1 |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: LCS 410-120359/3**
**Matrix: Water**
**Analysis Batch: 120359**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Sulfate | 7500 | 7870 | | ug/L | | 105 | 90 - 110 |
| Chloride | 3000 | 3160 | | ug/L | | 105 | 90 - 110 |

## Method: 200.7 Rev 4.4 - Metals (ICP)

**Lab Sample ID: MB 410-119090/1-A**
**Matrix: Water**
**Analysis Batch: 121215**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 119090**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Iron | ND | | 200 | 40 | ug/L | | 04/26/21 14:41 | 04/30/21 16:47 | 1 |

**Lab Sample ID: LCS 410-119090/2-A**
**Matrix: Water**
**Analysis Batch: 121215**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 119090**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Iron | 400 | 428 | | ug/L | | 107 | 85 - 115 |

**Lab Sample ID: MB 410-119092/1-A**
**Matrix: Water**
**Analysis Batch: 121214**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 119092**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Iron | ND | | 200 | 40 | ug/L | | 04/26/21 14:43 | 04/30/21 16:49 | 1 |

**Lab Sample ID: LCS 410-119092/2-A**
**Matrix: Water**
**Analysis Batch: 121214**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 119092**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Iron | 400 | 396 | | ug/L | | 99 | 85 - 115 |

## Method: 2320B-2011 - Alkalinity, Total

**Lab Sample ID: MB 410-119596/67**
**Matrix: Water**
**Analysis Batch: 119596**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | ND | | 8000 | 2600 | ug/L | | | 04/26/21 23:39 | 1 |

**Lab Sample ID: LCS 410-119596/68**
**Matrix: Water**
**Analysis Batch: 119596**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | 189000 | 184000 | | ug/L | | 98 | 82 - 106 |

## Method: 2320B-2011 - Alkalinity, Total (Continued)

**Lab Sample ID: 410-37209-2 MS**
**Matrix: Water**
**Analysis Batch: 119596**

**Client Sample ID: MW-5-GW-210423**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | 140000 | | 189000 | 322000 | | ug/L | | 94 | 82 - 106 | | |

**Lab Sample ID: 410-37209-2 DU**
**Matrix: Water**
**Analysis Batch: 119596**

**Client Sample ID: MW-5-GW-210423**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | 140000 | | | 146000 | | ug/L | | | | 1 | 5 |

## Method: 410.4 - COD

**Lab Sample ID: MB 410-120044/33**
**Matrix: Water**
**Analysis Batch: 120044**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | ND | | 75000 | 25000 | ug/L | | | 04/28/21 10:19 | 1 |

**Lab Sample ID: MB 410-120044/4**
**Matrix: Water**
**Analysis Batch: 120044**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | ND | | 75000 | 25000 | ug/L | | | 04/28/21 08:59 | 1 |

**Lab Sample ID: LCS 410-120044/34**
**Matrix: Water**
**Analysis Batch: 120044**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | | | 500000 | 495000 | | ug/L | | 99 | 94 - 110 | | |

**Lab Sample ID: LCS 410-120044/5**
**Matrix: Water**
**Analysis Batch: 120044**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | | | 500000 | 492000 | | ug/L | | 98 | 94 - 110 | | |

**Lab Sample ID: LCSD 410-120044/6**
**Matrix: Water**
**Analysis Batch: 120044**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | | | 500000 | 487000 | | ug/L | | 97 | 94 - 110 | 2 | 5 |

## Method: 5210 B-2011 - BOD, 5-Day

**Lab Sample ID: SCB 410-120605/4**
**Matrix: Water**
**Analysis Batch: 120605**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | SCB Result | SCB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Biochemical Oxygen Demand | 983 | | 0.0010 | 0.0010 | ug/L | | | 04/24/21 12:19 | 1 |

**Lab Sample ID: USB 410-120605/2**
**Matrix: Water**
**Analysis Batch: 120605**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | USB Result | USB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Biochemical Oxygen Demand | 167 | | 0.0010 | 0.0010 | ug/L | | | 04/24/21 12:19 | 1 |

**Lab Sample ID: LCS 410-120605/27**
**Matrix: Water**
**Analysis Batch: 120605**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Biochemical Oxygen Demand | 198000 | 199000 | | ug/L | | 101 | 85 - 115 |

**Lab Sample ID: LCS 410-120605/5**
**Matrix: Water**
**Analysis Batch: 120605**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Biochemical Oxygen Demand | 198000 | 186000 | | ug/L | | 94 | 85 - 115 |

## Method: 5310C-2011 - Total Organic Carbon/Persulfate - Ultrav

**Lab Sample ID: MB 410-121341/5**
**Matrix: Water**
**Analysis Batch: 121341**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | 1000 | 500 | ug/L | | | 04/30/21 18:43 | 1 |

**Lab Sample ID: LCS 410-121341/4**
**Matrix: Water**
**Analysis Batch: 121341**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 25000 | 25900 | | ug/L | | 104 | 91 - 113 |

## GC/MS VOA

### Analysis Batch: 121064

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37209-1 | MW-8-GW-210423 | Total/NA | Water | 8260B | |
| 410-37209-2 | MW-5-GW-210423 | Total/NA | Water | 8260B | |
| 410-37209-3 | QA-WQ-210423 | Total/NA | Water | 8260B | |
| MB 410-121064/7 | Method Blank | Total/NA | Water | 8260B | |
| LCS 410-121064/5 | Lab Control Sample | Total/NA | Water | 8260B | |

## GC VOA

### Analysis Batch: 119693

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37209-1 | MW-8-GW-210423 | Total/NA | Water | 8015B | |
| 410-37209-2 | MW-5-GW-210423 | Total/NA | Water | 8015B | |
| 410-37209-3 | QA-WQ-210423 | Total/NA | Water | 8015B | |
| MB 410-119693/4 | Method Blank | Total/NA | Water | 8015B | |
| LCS 410-119693/5 | Lab Control Sample | Total/NA | Water | 8015B | |
| LCSD 410-119693/6 | Lab Control Sample Dup | Total/NA | Water | 8015B | |

## GC Semi VOA

### Prep Batch: 120401

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37209-1 | MW-8-GW-210423 | Total/NA | Water | 3510C | |
| 410-37209-2 | MW-5-GW-210423 | Total/NA | Water | 3510C | |
| MB 410-120401/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 410-120401/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 410-120401/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |

### Prep Batch: 120402

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37209-1 | MW-8-GW-210423 | Total/NA | Water | 3510C | |
| 410-37209-2 | MW-5-GW-210423 | Total/NA | Water | 3510C | |
| MB 410-120402/1-B | Method Blank | Total/NA | Water | 3510C | |
| LCS 410-120402/2-B | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 410-120402/3-B | Lab Control Sample Dup | Total/NA | Water | 3510C | |

### Analysis Batch: 121195

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37209-1 | MW-8-GW-210423 | Total/NA | Water | 8015B | 120401 |
| 410-37209-2 | MW-5-GW-210423 | Total/NA | Water | 8015B | 120401 |
| MB 410-120401/1-A | Method Blank | Total/NA | Water | 8015B | 120401 |
| LCS 410-120401/2-A | Lab Control Sample | Total/NA | Water | 8015B | 120401 |
| LCSD 410-120401/3-A | Lab Control Sample Dup | Total/NA | Water | 8015B | 120401 |

### Cleanup Batch: 121848

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37209-1 | MW-8-GW-210423 | Total/NA | Water | 3630C | 120402 |
| 410-37209-2 | MW-5-GW-210423 | Total/NA | Water | 3630C | 120402 |
| MB 410-120402/1-B | Method Blank | Total/NA | Water | 3630C | 120402 |
| LCS 410-120402/2-B | Lab Control Sample | Total/NA | Water | 3630C | 120402 |
| LCSD 410-120402/3-B | Lab Control Sample Dup | Total/NA | Water | 3630C | 120402 |

## GC Semi VOA

### Analysis Batch: 122312

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37209-1 | MW-8-GW-210423 | Total/NA | Water | 8015B | 121848 |
| 410-37209-2 | MW-5-GW-210423 | Total/NA | Water | 8015B | 121848 |
| MB 410-120402/1-B | Method Blank | Total/NA | Water | 8015B | 121848 |
| LCS 410-120402/2-B | Lab Control Sample | Total/NA | Water | 8015B | 121848 |
| LCSD 410-120402/3-B | Lab Control Sample Dup | Total/NA | Water | 8015B | 121848 |

## HPLC/IC

### Analysis Batch: 118622

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37209-1 | MW-8-GW-210423 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37209-2 | MW-5-GW-210423 | Total/NA | Water | EPA 300.0 R2.1 | |
| MB 410-118622/4 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |
| LCS 410-118622/3 | Lab Control Sample | Total/NA | Water | EPA 300.0 R2.1 | |

### Analysis Batch: 120123

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37209-2 | MW-5-GW-210423 | Total/NA | Water | EPA 300.0 R2.1 | |
| MB 410-120123/4 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |
| LCS 410-120123/3 | Lab Control Sample | Total/NA | Water | EPA 300.0 R2.1 | |

### Analysis Batch: 120124

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37209-2 | MW-5-GW-210423 | Total/NA | Water | EPA 300.0 R2.1 | |
| MB 410-120124/4 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |
| LCS 410-120124/3 | Lab Control Sample | Total/NA | Water | EPA 300.0 R2.1 | |

### Analysis Batch: 120358

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37209-1 | MW-8-GW-210423 | Total/NA | Water | EPA 300.0 R2.1 | |
| MB 410-120358/4 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |
| LCS 410-120358/3 | Lab Control Sample | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37209-1 MS | MW-8-GW-210423 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37209-1 DU | MW-8-GW-210423 | Total/NA | Water | EPA 300.0 R2.1 | |

### Analysis Batch: 120359

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 410-120359/4 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |
| LCS 410-120359/3 | Lab Control Sample | Total/NA | Water | EPA 300.0 R2.1 | |

## Metals

### Prep Batch: 119090

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37209-1 | MW-8-GW-210423 | Total/NA | Water | 200.7 Rev 4.4 | |
| MB 410-119090/1-A | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | |
| LCS 410-119090/2-A | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | |

### Prep Batch: 119092

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37209-2 | MW-5-GW-210423 | Total/NA | Water | 200.7 Rev 4.4 | |
| MB 410-119092/1-A | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | |

## Metals (Continued)

### Prep Batch: 119092 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 410-119092/2-A | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | |

### Analysis Batch: 121214

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37209-2 | MW-5-GW-210423 | Total/NA | Water | 200.7 Rev 4.4 | 119092 |
| MB 410-119092/1-A | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | 119092 |
| LCS 410-119092/2-A | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | 119092 |

### Analysis Batch: 121215

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37209-1 | MW-8-GW-210423 | Total/NA | Water | 200.7 Rev 4.4 | 119090 |
| MB 410-119090/1-A | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | 119090 |
| LCS 410-119090/2-A | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | 119090 |

## General Chemistry

### Analysis Batch: 119596

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37209-1 | MW-8-GW-210423 | Total/NA | Water | 2320B-2011 | |
| 410-37209-2 | MW-5-GW-210423 | Total/NA | Water | 2320B-2011 | |
| MB 410-119596/67 | Method Blank | Total/NA | Water | 2320B-2011 | |
| LCS 410-119596/68 | Lab Control Sample | Total/NA | Water | 2320B-2011 | |
| 410-37209-2 MS | MW-5-GW-210423 | Total/NA | Water | 2320B-2011 | |
| 410-37209-2 DU | MW-5-GW-210423 | Total/NA | Water | 2320B-2011 | |

### Analysis Batch: 120044

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37209-1 | MW-8-GW-210423 | Total/NA | Water | 410.4 | |
| 410-37209-2 | MW-5-GW-210423 | Total/NA | Water | 410.4 | |
| MB 410-120044/33 | Method Blank | Total/NA | Water | 410.4 | |
| MB 410-120044/4 | Method Blank | Total/NA | Water | 410.4 | |
| LCS 410-120044/34 | Lab Control Sample | Total/NA | Water | 410.4 | |
| LCS 410-120044/5 | Lab Control Sample | Total/NA | Water | 410.4 | |
| LCSD 410-120044/6 | Lab Control Sample Dup | Total/NA | Water | 410.4 | |

### Analysis Batch: 120605

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37209-1 | MW-8-GW-210423 | Total/NA | Water | 5210 B-2011 | |
| 410-37209-2 | MW-5-GW-210423 | Total/NA | Water | 5210 B-2011 | |
| SCB 410-120605/4 | Method Blank | Total/NA | Water | 5210 B-2011 | |
| USB 410-120605/2 | Method Blank | Total/NA | Water | 5210 B-2011 | |
| LCS 410-120605/27 | Lab Control Sample | Total/NA | Water | 5210 B-2011 | |
| LCS 410-120605/5 | Lab Control Sample | Total/NA | Water | 5210 B-2011 | |

### Analysis Batch: 121341

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37209-1 | MW-8-GW-210423 | Total/NA | Water | 5310C-2011 | |
| 410-37209-2 | MW-5-GW-210423 | Total/NA | Water | 5310C-2011 | |
| MB 410-121341/5 | Method Blank | Total/NA | Water | 5310C-2011 | |
| LCS 410-121341/4 | Lab Control Sample | Total/NA | Water | 5310C-2011 | |

# Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37209-1

## Client Sample ID: MW-8-GW-210423

**Lab Sample ID: 410-37209-1**

**Date Collected: 04/23/21 09:50**

**Matrix: Water**

**Date Received: 04/24/21 10:16**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 121064 | 04/30/21 18:30 | USEJ | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 119693 | 04/28/21 02:22 | UMDJ | ELLE |
| Total/NA | Prep | 3510C | | | 120401 | 04/29/21 10:20 | R9CT | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 121195 | 04/30/21 20:43 | UHEW | ELLE |
| Total/NA | Prep | 3510C | | | 120402 | 04/29/21 10:20 | R9CT | ELLE |
| Total/NA | Cleanup | 3630C | | | 121848 | 05/03/21 17:47 | QQ3P | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 122312 | 05/04/21 18:28 | UHEW | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 120358 | 04/29/21 17:38 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 118622 | 04/25/21 02:43 | W5UX | ELLE |
| Total/NA | Prep | 200.7 Rev 4.4 | | | 119090 | 04/26/21 14:41 | UJLA | ELLE |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 121215 | 04/30/21 17:12 | MDP5 | ELLE |
| Total/NA | Analysis | 2320B-2011 | | 1 | 119596 | 04/27/21 00:11 | DI9Q | ELLE |
| Total/NA | Analysis | 410.4 | | 2 | 120044 | 04/28/21 10:42 | USAE | ELLE |
| Total/NA | Analysis | 5210 B-2011 | | 1 | 120605 | 04/24/21 16:16 | F8TI | ELLE |
| Total/NA | Analysis | 5310C-2011 | | 1 | 121341 | 04/30/21 21:28 | KGQ6 | ELLE |

## Client Sample ID: MW-5-GW-210423

**Lab Sample ID: 410-37209-2**

**Date Collected: 04/23/21 09:07**

**Matrix: Water**

**Date Received: 04/24/21 10:16**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 121064 | 04/30/21 18:53 | USEJ | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 119693 | 04/28/21 02:46 | UMDJ | ELLE |
| Total/NA | Prep | 3510C | | | 120401 | 04/29/21 10:20 | R9CT | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 121195 | 04/30/21 21:05 | UHEW | ELLE |
| Total/NA | Prep | 3510C | | | 120402 | 04/29/21 10:20 | R9CT | ELLE |
| Total/NA | Cleanup | 3630C | | | 121848 | 05/03/21 17:47 | QQ3P | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 122312 | 05/04/21 18:51 | UHEW | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 118622 | 04/25/21 03:04 | W5UX | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 120124 | 04/29/21 08:19 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 50 | 120123 | 04/29/21 08:37 | GJ35 | ELLE |
| Total/NA | Prep | 200.7 Rev 4.4 | | | 119092 | 04/26/21 14:43 | UJLA | ELLE |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 121214 | 04/30/21 17:27 | MDP5 | ELLE |
| Total/NA | Analysis | 2320B-2011 | | 1 | 119596 | 04/26/21 23:52 | DI9Q | ELLE |
| Total/NA | Analysis | 410.4 | | 5 | 120044 | 04/28/21 10:46 | USAE | ELLE |
| Total/NA | Analysis | 5210 B-2011 | | 1 | 120605 | 04/24/21 15:10 | F8TI | ELLE |
| Total/NA | Analysis | 5310C-2011 | | 1 | 121341 | 04/30/21 21:42 | KGQ6 | ELLE |

# Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37209-1

**Client Sample ID: QA-WQ-210423**
**Date Collected: 04/23/21 06:30**
**Date Received: 04/24/21 10:16**

**Lab Sample ID: 410-37209-3**
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 121064 | 04/30/21 15:10 | USEJ | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 119693 | 04/28/21 00:48 | UMDJ | ELLE |

**Laboratory References:**

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

# Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37209-1

## Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| California | State | 2792 | 01-31-22 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| 200.7 Rev 4.4 | 200.7 Rev 4.4 | Water | Iron |
| 2320B-2011 | | Water | Total Alkalinity as CaCO3 to pH 4.5 |
| 410.4 | | Water | Chemical Oxygen Demand |
| 5210 B-2011 | | Water | Biochemical Oxygen Demand |
| 5310C-2011 | | Water | Total Organic Carbon |
| 8015B | | Water | C6-C12 (1C) |
| 8015B | 3510C | Water | DRO (C10-C28) (1C) |
| 8260B | | Water | 1,1,1,2-Tetrachloroethane |
| 8260B | | Water | 1,1,1-Trichloroethane |
| 8260B | | Water | 1,1,2,2-Tetrachloroethane |
| 8260B | | Water | 1,1,2-Trichloroethane |
| 8260B | | Water | 1,1-Dichloroethane |
| 8260B | | Water | 1,1-Dichloroethene |
| 8260B | | Water | 1,1-Dichloropropene |
| 8260B | | Water | 1,2,3-Trichlorobenzene |
| 8260B | | Water | 1,2,3-Trichloropropane |
| 8260B | | Water | 1,2,4-Trichlorobenzene |
| 8260B | | Water | 1,2,4-Trimethylbenzene |
| 8260B | | Water | 1,2-Dibromo-3-Chloropropane |
| 8260B | | Water | 1,2-Dibromoethane |
| 8260B | | Water | 1,2-Dichlorobenzene |
| 8260B | | Water | 1,2-Dichloroethane |
| 8260B | | Water | 1,2-Dichloropropane |
| 8260B | | Water | 1,3,5-Trimethylbenzene |
| 8260B | | Water | 1,3-Dichlorobenzene |
| 8260B | | Water | 1,3-Dichloropropane |
| 8260B | | Water | 1,4-Dichlorobenzene |
| 8260B | | Water | 2,2-Dichloropropane |
| 8260B | | Water | 2-Butanone |
| 8260B | | Water | 2-Chloroethyl vinyl ether |
| 8260B | | Water | 2-Chlorotoluene |
| 8260B | | Water | 2-Hexanone |
| 8260B | | Water | 4-Chlorotoluene |
| 8260B | | Water | 4-Methyl-2-pentanone |
| 8260B | | Water | Acetone |
| 8260B | | Water | Benzene |
| 8260B | | Water | Bromobenzene |
| 8260B | | Water | Bromochloromethane |
| 8260B | | Water | Bromodichloromethane |
| 8260B | | Water | Bromoform |
| 8260B | | Water | Bromomethane |
| 8260B | | Water | Carbon disulfide |
| 8260B | | Water | Carbon tetrachloride |
| 8260B | | Water | Chlorobenzene |
| 8260B | | Water | Chloroethane |

## Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| California | State | 2792 | 01-31-22 |
| 8260B | Water | Chloroform | |
| 8260B | Water | Chloromethane | |
| 8260B | Water | cis-1,2-Dichloroethene | |
| 8260B | Water | cis-1,3-Dichloropropene | |
| 8260B | Water | Dibromochloromethane | |
| 8260B | Water | Dibromomethane | |
| 8260B | Water | Dichlorodifluoromethane | |
| 8260B | Water | di-Isopropyl ether | |
| 8260B | Water | Ethanol | |
| 8260B | Water | Ethyl t-butyl ether | |
| 8260B | Water | Ethylbenzene | |
| 8260B | Water | Freon 113 | |
| 8260B | Water | Hexachlorobutadiene | |
| 8260B | Water | Isopropylbenzene | |
| 8260B | Water | m&p-Xylene | |
| 8260B | Water | Methyl tertiary butyl ether | |
| 8260B | Water | Methylene Chloride | |
| 8260B | Water | Naphthalene | |
| 8260B | Water | n-Butylbenzene | |
| 8260B | Water | n-Propylbenzene | |
| 8260B | Water | o-Xylene | |
| 8260B | Water | p-Isopropyltoluene | |
| 8260B | Water | sec-Butylbenzene | |
| 8260B | Water | Styrene | |
| 8260B | Water | t-Amyl methyl ether | |
| 8260B | Water | t-Butyl alcohol | |
| 8260B | Water | tert-Butylbenzene | |
| 8260B | Water | Tetrachloroethene | |
| 8260B | Water | Toluene | |
| 8260B | Water | trans-1,2-Dichloroethene | |
| 8260B | Water | trans-1,3-Dichloropropene | |
| 8260B | Water | Trichloroethene | |
| 8260B | Water | Trichlorofluoromethane | |
| 8260B | Water | Vinyl chloride | |
| EPA 300.0 R2.1 | Water | Chloride | |
| EPA 300.0 R2.1 | Water | Nitrogen, Nitrate | |
| EPA 300.0 R2.1 | Water | Sulfate | |

# Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 410-37209-1
Project/Site: 206145

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | ELLE |
| 8015B | Gasoline Range Organics - (GC) | SW846 | ELLE |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | ELLE |
| EPA 300.0 R2.1 | Anions, Ion Chromatgraphy | EPA | ELLE |
| EPA 300.0 R2.1 | Anions, Ion Chromatography | EPA | ELLE |
| 200.7 Rev 4.4 | Metals (ICP) | EPA | ELLE |
| 2320B-2011 | Alkalinity, Total | SM | ELLE |
| 410.4 | COD | MCAWW | ELLE |
| 5210 B-2011 | BOD, 5-Day | SM | ELLE |
| 5310C-2011 | Total Organic Carbon/Persulfate - Ultrav | SM | ELLE |
| 200.7 Rev 4.4 | Preparation, Total Metals | EPA | ELLE |
| 3510C | Liquid-Liquid Extraction (Separatory Funnel) | SW846 | ELLE |
| 3630C | Silica Gel Cleanup | SW846 | ELLE |
| 5030B | Purge and Trap | SW846 | ELLE |

**Protocol References:**

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

# Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37209-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 410-37209-1 | MW-8-GW-210423 | Water | 04/23/21 09:50 | 04/24/21 10:16 | |
| 410-37209-2 | MW-5-GW-210423 | Water | 04/23/21 09:07 | 04/24/21 10:16 | |
| 410-37209-3 | QA-WQ-210423 | Water | 04/23/21 06:30 | 04/24/21 10:16 | |

# Chevron Californi... Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # _____ 410-37209 Chain of Custody

...vironmental use only
...le # _____

SCR #: _____

## Client Information

Facility # 206145 WBS

Site Address: 800 Center Street, Oakland, CA

Chevron PM: Ross LeGrandeur Lead Consultant

Consultant/Office: Arcadis

Consultant Project Mgr.: Ross LeGrandeur

Sampler: Tomas Moore

State where samples were collected: CA

For Compliance: Yes ☐ No ☐

## Matrix

Soil ☐ Sediment ☐ Water ☒ Ground ☐ Potable ☐ Surface ☐ NPDES ☐ Oil ☐ Air ☐

## Preservation Codes

H = HCl T = Thiosulfate
N = $HNO_3$ B = NaOH
S = $H_2SO_4$ P = $H_3PO_4$
F = Field Filtered O = Other

☐ Results in Dry Weight

☐ J value reporting needed

☐ Must meet lowest detection limits possible for 8260 compounds

| Sample Identification | Soil Depth | Collected Date | Collected Time | Grab | Composite | Total Number of Containers | Alkalinity (SM2320B) | TPH-GRO 8015B 8260 ☒ | TPH-DRO 8015B without Silica Gel Cleanup | TPH-DRO 8015B with Silica Gel Cleanup | 8260B Full Scan | Nitrate, Sulfate, Chloride Method (300.0) | Chemical Oxygen Demand Method (410.4) | Total Organic Carbon Method (SM5310C) | Biological Oxygen Demend Method (SM5210B) | Iron Method (200.7) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-8 | | 4-23-21 | 0950 | X | | 7 | X | X | X | X | X | X | X | X | X | X |
| MW-5 | | 4-23-21 | 0907 | X | | 7 | X | X | X | X | X | X | X | X | X | X |
| QA | | 4-23-21 | 0830 | | | 2 | | X | | | X | | | | | |

## Remarks

Invoice & Reporting to: Ross.LaGrandeur@arcadis.com

Requesting 10g Cleanup on DRO w/sgc COLUMN samples.

Requesting Chromatograms for TPH-DRO & TPH-GRO range.

**Turnaround Time Requested (TAT)** (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

**Data Package** (circle if required)

Type I - Full | Type III | Type VI (Raw Data)

**EDD** (circle if required)

EDFFLAT (default) | Other: _____

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| | 4/23/21 | 1500 | | | |
| | | | | | |
| | | | | | |

Relinquished by Commercial Carrier: 8061 4707 8250

UPS ____ FedEx X Other ____

Received by: _____ Date: 4/24/21 Time: 1016

Temperature Upon Receipt _____ °C

Custody Seals Intact? Yes No

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7050 1117

JR



5/5/2021

# Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 410-37209-1

**Login Number: 37209**

**List Source: Eurofins Lancaster Laboratories Env**

**List Number: 1**

**Creator: Rivera-Santa, Julissa**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal is intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable (</=6C, not frozen). | True | |
| Cooler Temperature is recorded. | True | |
| WV: Container Temperature is acceptable (</=6C, not frozen). | N/A | |
| WV: Container Temperature is recorded. | N/A | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses. | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | N/A | |
| Is the Field Sampler's name present on COC? | True | |
| Sample Preservation Verified. | N/A | |
| Residual Chlorine Checked. | N/A | |
| Sample custody seals are intact. | True | |

eurofins | Environment Testing America

# ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-37390-1
Client Project/Site: 206145
Revision: 1

For:
ARCADIS U.S., Inc.
320 Commerce Ave
Suite 200
Irvine, California 92602

Attn: Ross LaGrandeur

*Authorized for release by:*
*5/11/2021 5:59:24 PM*

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at:
www.eurofinsus.com/Env

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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Amek Carter
Project Manager
*5/11/2021 5:59:25 PM*

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## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| S1- | Surrogate recovery exceeds control limits, low biased. |

### HPLC/IC

| Qualifier | Qualifier Description |
|---|---|
| E | Result exceeded calibration range. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| H | Sample was prepped or analyzed beyond the specified holding time |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| 1C | Result is from the primary column on a dual-column method. |
| 2C | Result is from the confirmation column on a dual-column method. |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |

## Glossary (Continued)

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

## Job ID: 410-37390-1

### Laboratory: Eurofins Lancaster Laboratories Env, LLC

**Narrative**

**Job Narrative**
**410-37390-1**

**Revision**
The report being provided is a revision of the original report sent on 5/11/2021. The report (revision 1) is being revised due to: Add Si Gel to TPH-DRO naming.

**Receipt**
The samples were received on 4/27/2021 11:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.0°C, 2.5°C and 4.5°C

**GC/MS VOA**
Method 8260B: The method requirement for no headspace was not met. The following volatile samples were analyzed with headspace in the sample container(s): MW-1A-GW-210426 (410-37390-1) and MW-3-GW-210426 (410-37390-3). The sample container was received with headspace.

Method 8260B: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: MW-4-GW-210426 (410-37390-4).

Method 8260B: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: MW-6-GW-210426 (410-37390-5), MW-7-GW-210426 (410-37390-6), MW-9-GW-210426 (410-37390-7), MW-10-GW-210426 (410-37390-8), MW-11-GW-210426 (410-37390-9), MW-12-GW-210426 (410-37390-10), MW-13-GW-210426 (410-37390-11), QA-WQ-210426 (410-37390-12), MW-14-GW-210426 (410-37390-13) and MW-15-GW-210426 (410-37390-14). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**Gasoline Range Organics**
Method 8015B_GRO: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container(s): QA-WQ-210426 (410-37390-12). The sample container was received with headspace.

Method 8015B_GRO: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container(s): MW-3-GW-210426 (410-37390-3). The sample container was received with headspace.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**Diesel Range Organics**
Method 8015B_DRO: Surrogate recovery for the following samples were outside control limits: MW-1A-GW-210426 (410-37390-1), MW-6-GW-210426 (410-37390-5), MW-10-GW-210426 (410-37390-8) and MW-13-GW-210426 (410-37390-11). Re-extraction and/or re-analysis was performed outside of holding time with acceptable results. Since holding time expired prior to re-analysis, results are reported from the first trial.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**HPLC/IC**
Method 300_ORGFMS: Reanalysis of the following samples were performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. MW-1A-GW-210426 (410-37390-1), MW-2-GW-210426 (410-37390-2), MW-3-GW-210426 (410-37390-3), MW-4-GW-210426 (410-37390-4), MW-6-GW-210426 (410-37390-5), MW-7-GW-210426 (410-37390-6), MW-11-GW-210426 (410-37390-9), MW-12-GW-210426 (410-37390-10) and MW-15-GW-210426 (410-37390-14)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

## Job ID: 410-37390-1 (Continued)

### Laboratory: Eurofins Lancaster Laboratories Env, LLC (Conti

**Metals**
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**General Chemistry**
Method 410.4: Due to the matrix, the initial volumes used for the following samples deviated from the standard procedure: MW-1A-GW-210426 (410-37390-1), MW-6-GW-210426 (410-37390-5), MW-7-GW-210426 (410-37390-6), MW-9-GW-210426 (410-37390-7) and MW-13-GW-210426 (410-37390-11). The reporting limits (RLs) have been adjusted proportionately.

Method SM5210B_Calc: The results increased with increasing dilutions for the following sample: MW-3-GW-210426 (410-37390-3). This indicates a potentially toxic substance is being diluted out. The concentration may be biased low.

Method SM5210B_Calc: All the dilutions failed to deplete the method-required 2 mg/L for the following samples: MW-1A-GW-210426 (410-37390-1), MW-2-GW-210426 (410-37390-2) and MW-7-GW-210426 (410-37390-6). Only a "less than" result could be calculated from the least dilute preparation.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

# Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

## Client Sample ID: MW-1A-GW-210426 — Lab Sample ID: 410-37390-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.24 | J | 1.0 | 0.20 | ug/L | 1 | | 8260B | Total/NA |
| Isopropylbenzene | 0.49 | J | 5.0 | 0.30 | ug/L | 1 | | 8260B | Total/NA |
| n-Propylbenzene | 0.62 | J | 5.0 | 0.20 | ug/L | 1 | | 8260B | Total/NA |
| C6-C12 (1C) | 250 | | 100 | 17 | ug/L | 1 | | 8015B | Total/NA |
| DRO (C10-C28) (1C) | 1400 | | 100 | 46 | ug/L | 1 | | 8015B | Total/NA |
| DRO (C10-C28) with Silica Gel clean up (1C) | 270 | | 100 | 46 | ug/L | 1 | | 8015B | Total/NA |
| Nitrogen, Nitrate | 1900 | H | 500 | 250 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Sulfate | 200000 | | 50000 | 15000 | ug/L | 50 | | EPA 300.0 R2.1 | Total/NA |
| Chloride | 20000 | | 2000 | 1000 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Iron | 89000 | | 200 | 40 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 810000 | | 8000 | 2600 | ug/L | 1 | | 2320B-2011 | Total/NA |
| Chemical Oxygen Demand | 290000 | J | 380000 | 130000 | ug/L | 5 | | 410.4 | Total/NA |
| Total Organic Carbon | 21000 | | 1000 | 500 | ug/L | 1 | | 5310C-2011 | Total/NA |

## Client Sample ID: MW-2-GW-210426 — Lab Sample ID: 410-37390-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | 830 | | 100 | 45 | ug/L | 1 | | 8015B | Total/NA |
| Sulfate | 310000 | | 50000 | 15000 | ug/L | 50 | | EPA 300.0 R2.1 | Total/NA |
| Chloride | 18000 | | 2000 | 1000 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Iron | 55000 | | 200 | 40 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 350000 | | 8000 | 2600 | ug/L | 1 | | 2320B-2011 | Total/NA |
| Chemical Oxygen Demand | 210000 | | 150000 | 50000 | ug/L | 2 | | 410.4 | Total/NA |
| Total Organic Carbon | 21000 | | 1000 | 500 | ug/L | 1 | | 5310C-2011 | Total/NA |

## Client Sample ID: MW-3-GW-210426 — Lab Sample ID: 410-37390-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 3.3 | J | 20 | 0.80 | ug/L | 1 | | 8260B | Total/NA |
| Benzene | 2.2 | | 1.0 | 0.20 | ug/L | 1 | | 8260B | Total/NA |
| Ethylbenzene | 0.35 | J | 1.0 | 0.20 | ug/L | 1 | | 8260B | Total/NA |
| Isopropylbenzene | 1.2 | J | 5.0 | 0.30 | ug/L | 1 | | 8260B | Total/NA |
| m&p-Xylene | 0.73 | J | 2.0 | 0.50 | ug/L | 1 | | 8260B | Total/NA |
| n-Butylbenzene | 1.8 | J | 5.0 | 0.90 | ug/L | 1 | | 8260B | Total/NA |
| n-Propylbenzene | 0.28 | J | 5.0 | 0.20 | ug/L | 1 | | 8260B | Total/NA |
| sec-Butylbenzene | 5.8 | | 5.0 | 0.20 | ug/L | 1 | | 8260B | Total/NA |
| tert-Butylbenzene | 2.5 | J | 5.0 | 0.20 | ug/L | 1 | | 8260B | Total/NA |
| Toluene | 0.59 | J | 1.0 | 0.20 | ug/L | 1 | | 8260B | Total/NA |
| C6-C12 (1C) | 1500 | | 100 | 17 | ug/L | 1 | | 8015B | Total/NA |
| DRO (C10-C28) (1C) | 1500 | | 100 | 45 | ug/L | 1 | | 8015B | Total/NA |
| DRO (C10-C28) with Silica Gel clean up (1C) | 170 | | 100 | 45 | ug/L | 1 | | 8015B | Total/NA |
| Nitrogen, Nitrate | 1500 | H | 500 | 250 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Sulfate | 100000 | | 50000 | 15000 | ug/L | 50 | | EPA 300.0 R2.1 | Total/NA |
| Chloride | 28000 | | 2000 | 1000 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Iron | 47000 | | 200 | 40 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 1000000 | | 8000 | 2600 | ug/L | 1 | | 2320B-2011 | Total/NA |
| Chemical Oxygen Demand | 200000 | | 150000 | 50000 | ug/L | 2 | | 410.4 | Total/NA |
| Biochemical Oxygen Demand | 9700 | | 1500 | 1500 | ug/L | 1 | | 5210 B-2011 | Total/NA |
| Total Organic Carbon | 33000 | | 1000 | 500 | ug/L | 1 | | 5310C-2011 | Total/NA |

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

## Client Sample ID: MW-4-GW-210426 — Lab Sample ID: 410-37390-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 26 | | 5.0 | 2.0 | ug/L | 1 | | 8260B | Total/NA |
| 1,2-Dichloropropane | 2.0 | | 1.0 | 0.20 | ug/L | 1 | | 8260B | Total/NA |
| sec-Butylbenzene | 0.31 | J | 5.0 | 0.20 | ug/L | 1 | | 8260B | Total/NA |
| t-Butyl alcohol | 48 | | 25 | 10 | ug/L | 1 | | 8260B | Total/NA |
| tert-Butylbenzene | 0.82 | J | 5.0 | 0.20 | ug/L | 1 | | 8260B | Total/NA |
| C6-C12 (1C) | 220 | | 100 | 17 | ug/L | 1 | | 8015B | Total/NA |
| DRO (C10-C28) (1C) | 1500 | | 100 | 45 | ug/L | 1 | | 8015B | Total/NA |
| Sulfate | 110000 | | 50000 | 15000 | ug/L | 50 | | EPA 300.0 R2.1 | Total/NA |
| Chloride | 18000 | | 2000 | 1000 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Iron | 77000 | | 200 | 40 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 580000 | | 8000 | 2600 | ug/L | 1 | | 2320B-2011 | Total/NA |
| Chemical Oxygen Demand | 230000 | | 150000 | 50000 | ug/L | 2 | | 410.4 | Total/NA |
| Biochemical Oxygen Demand | 2000 | | 1500 | 1500 | ug/L | 1 | | 5210 B-2011 | Total/NA |
| Total Organic Carbon | 15000 | | 1000 | 500 | ug/L | 1 | | 5310C-2011 | Total/NA |

## Client Sample ID: MW-6-GW-210426 — Lab Sample ID: 410-37390-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 48000 | | 5000 | 1500 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Chloride | 44000 | | 20000 | 10000 | ug/L | 50 | | EPA 300.0 R2.1 | Total/NA |
| Iron | 43000 | | 200 | 40 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 320000 | | 8000 | 2600 | ug/L | 1 | | 2320B-2011 | Total/NA |
| Chemical Oxygen Demand | 210000 | J | 380000 | 130000 | ug/L | 5 | | 410.4 | Total/NA |
| Total Organic Carbon | 9800 | | 1000 | 500 | ug/L | 1 | | 5310C-2011 | Total/NA |

## Client Sample ID: MW-7-GW-210426 — Lab Sample ID: 410-37390-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | 0.73 | J | 1.0 | 0.20 | ug/L | 1 | | 8260B | Total/NA |
| DRO (C10-C28) (1C) | 46 | J | 100 | 46 | ug/L | 1 | | 8015B | Total/NA |
| Nitrogen, Nitrate | 450 | J H | 500 | 250 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Sulfate | 57000 | | 5000 | 1500 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Chloride | 41000 | | 20000 | 10000 | ug/L | 50 | | EPA 300.0 R2.1 | Total/NA |
| Iron | 130000 | | 200 | 40 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 230000 | | 8000 | 2600 | ug/L | 1 | | 2320B-2011 | Total/NA |
| Chemical Oxygen Demand | 650000 | J | 750000 | 250000 | ug/L | 10 | | 410.4 | Total/NA |
| Total Organic Carbon | 11000 | | 1000 | 500 | ug/L | 1 | | 5310C-2011 | Total/NA |

## Client Sample ID: MW-9-GW-210426 — Lab Sample ID: 410-37390-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | 19000 | | 5000 | 2500 | ug/L | 50 | | EPA 300.0 R2.1 | Total/NA |
| Sulfate | 95000 | | 50000 | 15000 | ug/L | 50 | | EPA 300.0 R2.1 | Total/NA |
| Chloride | 47000 | | 20000 | 10000 | ug/L | 50 | | EPA 300.0 R2.1 | Total/NA |
| Iron | 24000 | | 200 | 40 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 120000 | | 8000 | 2600 | ug/L | 1 | | 2320B-2011 | Total/NA |
| Chemical Oxygen Demand | 59000 | J | 150000 | 50000 | ug/L | 2 | | 410.4 | Total/NA |
| Total Organic Carbon | 1600 | | 1000 | 500 | ug/L | 1 | | 5310C-2011 | Total/NA |

## Client Sample ID: MW-10-GW-210426 — Lab Sample ID: 410-37390-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | 340 | | 100 | 45 | ug/L | 1 | | 8015B | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: MW-10-GW-210426 (Continued) — Lab Sample ID: 410-37390-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) with Silica Gel clean up (1C) | 140 | | 100 | 45 | ug/L | 1 | | 8015B | Total/NA |
| Nitrogen, Nitrate | 580 | | 500 | 250 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Sulfate | 73000 | | 5000 | 1500 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Chloride | 68000 | | 20000 | 10000 | ug/L | 50 | | EPA 300.0 R2.1 | Total/NA |
| Iron | 20000 | | 200 | 40 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 240000 | | 8000 | 2600 | ug/L | 1 | | 2320B-2011 | Total/NA |
| Total Organic Carbon | 1900 | | 1000 | 500 | ug/L | 1 | | 5310C-2011 | Total/NA |

## Client Sample ID: MW-11-GW-210426 — Lab Sample ID: 410-37390-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | 230 | | 100 | 46 | ug/L | 1 | | 8015B | Total/NA |
| DRO (C10-C28) with Silica Gel clean up (1C) | 98 | J | 100 | 46 | ug/L | 1 | | 8015B | Total/NA |
| Nitrogen, Nitrate | 20000 | H | 5000 | 2500 | ug/L | 50 | | EPA 300.0 R2.1 | Total/NA |
| Sulfate | 68000 | | 5000 | 1500 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Chloride | 30000 | | 20000 | 10000 | ug/L | 50 | | EPA 300.0 R2.1 | Total/NA |
| Iron | 1900 | | 200 | 40 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 88000 | | 8000 | 2600 | ug/L | 1 | | 2320B-2011 | Total/NA |
| Biochemical Oxygen Demand | 7200 | | 1500 | 1500 | ug/L | 1 | | 5210 B-2011 | Total/NA |
| Total Organic Carbon | 1800 | | 1000 | 500 | ug/L | 1 | | 5310C-2011 | Total/NA |

## Client Sample ID: MW-12-GW-210426 — Lab Sample ID: 410-37390-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | 160 | | 100 | 46 | ug/L | 1 | | 8015B | Total/NA |
| Sulfate | 78000 | | 50000 | 15000 | ug/L | 50 | | EPA 300.0 R2.1 | Total/NA |
| Chloride | 55000 | | 20000 | 10000 | ug/L | 50 | | EPA 300.0 R2.1 | Total/NA |
| Iron | 2100 | | 200 | 40 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 240000 | | 8000 | 2600 | ug/L | 1 | | 2320B-2011 | Total/NA |
| Biochemical Oxygen Demand | 15000 | | 1500 | 1500 | ug/L | 1 | | 5210 B-2011 | Total/NA |
| Total Organic Carbon | 2300 | | 1000 | 500 | ug/L | 1 | | 5310C-2011 | Total/NA |

## Client Sample ID: MW-13-GW-210426 — Lab Sample ID: 410-37390-11

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | 64 | J | 100 | 46 | ug/L | 1 | | 8015B | Total/NA |
| Nitrogen, Nitrate | 28000 | | 5000 | 2500 | ug/L | 50 | | EPA 300.0 R2.1 | Total/NA |
| Sulfate | 68000 | F1 | 5000 | 1500 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Chloride | 35000 | | 20000 | 10000 | ug/L | 50 | | EPA 300.0 R2.1 | Total/NA |
| Iron | 30000 | | 200 | 40 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 90000 | | 8000 | 2600 | ug/L | 1 | | 2320B-2011 | Total/NA |
| Chemical Oxygen Demand | 66000 | J | 150000 | 50000 | ug/L | 2 | | 410.4 | Total/NA |
| Total Organic Carbon | 1600 | | 1000 | 500 | ug/L | 1 | | 5310C-2011 | Total/NA |

## Client Sample ID: QA-WQ-210426 — Lab Sample ID: 410-37390-12

No Detections.

## Client Sample ID: MW-14-GW-210426 — Lab Sample ID: 410-37390-13

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | 230 | | 100 | 46 | ug/L | 1 | | 8015B | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: MW-14-GW-210426 (Continued) — Lab Sample ID: 410-37390-13

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) with Silica Gel clean up (1C) | 77 | J | 100 | 46 | ug/L | 1 | | 8015B | Total/NA |
| Sulfate | 73000 | | 5000 | 1500 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Chloride | 59000 | | 20000 | 10000 | ug/L | 50 | | EPA 300.0 R2.1 | Total/NA |
| Iron | 3400 | | 200 | 40 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 250000 | | 8000 | 2600 | ug/L | 1 | | 2320B-2011 | Total/NA |
| Biochemical Oxygen Demand | 8100 | | 1500 | 1500 | ug/L | 1 | | 5210 B-2011 | Total/NA |
| Total Organic Carbon | 3200 | | 1000 | 500 | ug/L | 1 | | 5310C-2011 | Total/NA |

## Client Sample ID: MW-15-GW-210426 — Lab Sample ID: 410-37390-14

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 0.25 | J | 1.0 | 0.20 | ug/L | 1 | | 8260B | Total/NA |
| Nitrogen, Nitrate | 13000 | H | 5000 | 2500 | ug/L | 50 | | EPA 300.0 R2.1 | Total/NA |
| Sulfate | 38000 | | 5000 | 1500 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Chloride | 28000 | | 2000 | 1000 | ug/L | 5 | | EPA 300.0 R2.1 | Total/NA |
| Iron | 3800 | | 200 | 40 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 79000 | | 8000 | 2600 | ug/L | 1 | | 2320B-2011 | Total/NA |
| Total Organic Carbon | 960 | J | 1000 | 500 | ug/L | 1 | | 5310C-2011 | Total/NA |

This Detection Summary does not include radiochemical test results.

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

**Client Sample ID: MW-1A-GW-210426**
**Date Collected: 04/26/21 06:40**
**Date Received: 04/27/21 11:05**

**Lab Sample ID: 410-37390-1**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 05:25 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 05/04/21 05:25 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 05:25 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 05:25 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 05/04/21 05:25 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 05:25 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 05:25 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 05/04/21 05:25 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 05/04/21 05:25 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 05/04/21 05:25 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 05/04/21 05:25 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 05/04/21 05:25 | 1 |
| **Benzene** | **0.24** | **J** | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 05:25 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 05:25 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 05/04/21 05:25 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 05:25 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 05:25 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 05:25 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 05:25 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 05:25 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 05/04/21 05:25 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |

**Client Sample ID: MW-1A-GW-210426**
**Date Collected: 04/26/21 06:40**
**Date Received: 04/27/21 11:05**

**Lab Sample ID: 410-37390-1**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 05/04/21 05:25 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 05:25 | 1 |
| **Isopropylbenzene** | **0.49** | **J** | 5.0 | 0.30 | ug/L | | | 05/04/21 05:25 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 05/04/21 05:25 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 05/04/21 05:25 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 05/04/21 05:25 | 1 |
| **n-Propylbenzene** | **0.62** | **J** | 5.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 05:25 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 05:25 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 05/04/21 05:25 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 05:25 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:25 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 05:25 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 05:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *80 - 120* | | *05/04/21 05:25* | *1* |
| *Dibromofluoromethane (Surr)* | *92* | | *80 - 120* | | *05/04/21 05:25* | *1* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *80 - 120* | | *05/04/21 05:25* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | | *05/04/21 05:25* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C6-C12 (1C)** | **250** | | 100 | 17 | ug/L | | | 04/27/21 22:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *88* | | *63 - 135* | | *04/27/21 22:11* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28) (1C)** | **1400** | | 100 | 46 | ug/L | | 05/01/21 01:43 | 05/03/21 18:05 | 1 |
| **DRO (C10-C28) with Silica Gel clean up (1C)** | **270** | | 100 | 46 | ug/L | | 05/01/21 01:50 | 05/04/21 21:07 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *52* | | *50 - 150* | *05/01/21 01:43* | *05/03/21 18:05* | *1* |
| *o- terphenyl (Surr) (1C)* | *41* | *S1-* | *46 - 130* | *05/01/21 01:50* | *05/04/21 21:07* | *1* |
| *Capric Acid (Surr) (1C)* | *0.3* | | *0 - 1* | *05/01/21 01:50* | *05/04/21 21:07* | *1* |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatgraphy

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Nitrogen, Nitrate** | **1900** | **H** | 500 | 250 | ug/L | | | 04/29/21 05:42 | 5 |

## Client Sample ID: MW-1A-GW-210426

**Lab Sample ID: 410-37390-1**

**Date Collected: 04/26/21 06:40**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 200000 | | 50000 | 15000 | ug/L | | | 04/28/21 08:05 | 50 |
| Chloride | 20000 | | 2000 | 1000 | ug/L | | | 04/28/21 05:27 | 5 |

### Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Iron | 89000 | | 200 | 40 | ug/L | | 04/27/21 22:32 | 05/04/21 17:38 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | 810000 | | 8000 | 2600 | ug/L | | | 04/28/21 22:14 | 1 |
| Chemical Oxygen Demand | 290000 | J | 380000 | 130000 | ug/L | | | 04/28/21 14:18 | 5 |
| Biochemical Oxygen Demand | ND | | 1000 | 1000 | ug/L | | | 04/27/21 17:50 | 1 |
| Total Organic Carbon | 21000 | | 1000 | 500 | ug/L | | | 05/01/21 01:27 | 1 |

## Client Sample ID: MW-2-GW-210426

**Lab Sample ID: 410-37390-2**

**Date Collected: 04/26/21 07:55**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 05:48 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 05/04/21 05:48 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 05:48 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 05:48 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 05/04/21 05:48 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 05:48 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 05:48 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 05/04/21 05:48 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 05/04/21 05:48 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 05/04/21 05:48 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 05/04/21 05:48 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 05/04/21 05:48 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

**Client Sample ID: MW-2-GW-210426**
**Date Collected: 04/26/21 07:55**
**Date Received: 04/27/21 11:05**

**Lab Sample ID: 410-37390-2**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 05:48 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 05:48 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 05/04/21 05:48 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 05:48 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 05:48 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 05:48 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 05:48 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 05:48 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 05/04/21 05:48 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 05/04/21 05:48 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 05:48 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 05:48 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 05/04/21 05:48 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 05/04/21 05:48 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 05/04/21 05:48 | 1 |
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 05:48 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 05:48 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 05/04/21 05:48 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 05:48 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 05:48 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 05:48 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 05:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *80 - 120* | | *05/04/21 05:48* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *80 - 120* | | *05/04/21 05:48* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *80 - 120* | | *05/04/21 05:48* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | | *05/04/21 05:48* | *1* |

## Client Sample ID: MW-2-GW-210426

**Lab Sample ID: 410-37390-2**

**Date Collected: 04/26/21 07:55**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | ND | | 100 | 17 | ug/L | | | 04/27/21 22:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *92* | | *63 - 135* | | *04/27/21 22:36* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28) (1C)** | **830** | | 100 | 45 | ug/L | | 05/01/21 01:43 | 05/03/21 18:28 | 1 |
| DRO (C10-C28) with Silica Gel clean up (1C) | ND | | 100 | 45 | ug/L | | 05/01/21 01:50 | 05/04/21 21:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *62* | | *50 - 150* | *05/01/21 01:43* | *05/03/21 18:28* | *1* |
| *o- terphenyl (Surr) (1C)* | *60* | | *46 - 130* | *05/01/21 01:50* | *05/04/21 21:29* | *1* |
| *Capric Acid (Surr) (1C)* | *0.3* | | *0 - 1* | *05/01/21 01:50* | *05/04/21 21:29* | *1* |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatgraphy

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | ND | H | 500 | 250 | ug/L | | | 04/29/21 06:14 | 5 |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Sulfate** | **310000** | | 50000 | 15000 | ug/L | | | 04/28/21 08:58 | 50 |
| **Chloride** | **18000** | | 2000 | 1000 | ug/L | | | 04/28/21 05:58 | 5 |

### Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Iron** | **55000** | | 200 | 40 | ug/L | | 04/27/21 22:32 | 05/04/21 17:45 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total Alkalinity as CaCO3 to pH 4.5** | **350000** | | 8000 | 2600 | ug/L | | | 04/28/21 22:40 | 1 |
| **Chemical Oxygen Demand** | **210000** | | 150000 | 50000 | ug/L | | | 04/28/21 14:20 | 2 |
| Biochemical Oxygen Demand | ND | | 1000 | 1000 | ug/L | | | 04/27/21 17:50 | 1 |
| **Total Organic Carbon** | **21000** | | 1000 | 500 | ug/L | | | 04/30/21 22:24 | 1 |

## Client Sample ID: MW-3-GW-210426

**Lab Sample ID: 410-37390-3**

**Date Collected: 04/26/21 07:20**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 06:10 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 05/04/21 06:10 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 06:10 | 1 |

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

**Client Sample ID: MW-3-GW-210426**
**Date Collected: 04/26/21 07:20**
**Date Received: 04/27/21 11:05**

**Lab Sample ID: 410-37390-3**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 06:10 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 05/04/21 06:10 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 06:10 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 06:10 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 05/04/21 06:10 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 05/04/21 06:10 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 05/04/21 06:10 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 05/04/21 06:10 | 1 |
| **Acetone** | **3.3** | **J** | 20 | 0.80 | ug/L | | | 05/04/21 06:10 | 1 |
| **Benzene** | **2.2** | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 06:10 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 06:10 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 05/04/21 06:10 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 06:10 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 06:10 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 06:10 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 06:10 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 06:10 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 05/04/21 06:10 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| **Ethylbenzene** | **0.35** | **J** | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 05/04/21 06:10 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 06:10 | 1 |
| **Isopropylbenzene** | **1.2** | **J** | 5.0 | 0.30 | ug/L | | | 05/04/21 06:10 | 1 |
| **m&p-Xylene** | **0.73** | **J** | 2.0 | 0.50 | ug/L | | | 05/04/21 06:10 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 05/04/21 06:10 | 1 |
| **n-Butylbenzene** | **1.8** | **J** | 5.0 | 0.90 | ug/L | | | 05/04/21 06:10 | 1 |
| **n-Propylbenzene** | **0.28** | **J** | 5.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 06:10 | 1 |

## Client Sample ID: MW-3-GW-210426

**Date Collected: 04/26/21 07:20**
**Date Received: 04/27/21 11:05**

## Lab Sample ID: 410-37390-3

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| **sec-Butylbenzene** | **5.8** | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 06:10 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 05/04/21 06:10 | 1 |
| **tert-Butylbenzene** | **2.5** | **J** | 5.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| **Toluene** | **0.59** | **J** | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 06:10 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:10 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 06:10 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 06:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *80 - 120* | | *05/04/21 06:10* | *1* |
| *Dibromofluoromethane (Surr)* | *95* | | *80 - 120* | | *05/04/21 06:10* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *80 - 120* | | *05/04/21 06:10* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | | *05/04/21 06:10* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C6-C12 (1C)** | **1500** | | 100 | 17 | ug/L | | | 04/28/21 23:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *134* | | *63 - 135* | | *04/28/21 23:26* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28) (1C)** | **1500** | | 100 | 45 | ug/L | | 05/01/21 01:43 | 05/03/21 18:51 | 1 |
| **DRO (C10-C28) with Silica Gel clean up (1C)** | **170** | | 100 | 45 | ug/L | | 05/01/21 01:50 | 05/04/21 21:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *73* | | *50 - 150* | *05/01/21 01:43* | *05/03/21 18:51* | *1* |
| *o- terphenyl (Surr) (1C)* | *53* | | *46 - 130* | *05/01/21 01:50* | *05/04/21 21:52* | *1* |
| *Capric Acid (Surr) (1C)* | *0.3* | | *0 - 1* | *05/01/21 01:50* | *05/04/21 21:52* | *1* |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatgraphy

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Nitrogen, Nitrate** | **1500** | **H** | 500 | 250 | ug/L | | | 04/29/21 06:03 | 5 |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Sulfate** | **100000** | | 50000 | 15000 | ug/L | | | 04/28/21 08:47 | 50 |
| **Chloride** | **28000** | | 2000 | 1000 | ug/L | | | 04/28/21 05:48 | 5 |

### Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Iron** | **47000** | | 200 | 40 | ug/L | | 04/27/21 22:32 | 05/04/21 17:23 | 1 |

## Client Sample ID: MW-3-GW-210426

**Lab Sample ID: 410-37390-3**

**Date Collected: 04/26/21 07:20**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total Alkalinity as CaCO3 to pH 4.5** | **1000000** | | 8000 | 2600 | ug/L | | | 04/28/21 17:47 | 1 |
| **Chemical Oxygen Demand** | **200000** | | 150000 | 50000 | ug/L | | | 04/28/21 14:23 | 2 |
| **Biochemical Oxygen Demand** | **9700** | | 1500 | 1500 | ug/L | | | 04/27/21 18:29 | 1 |
| **Total Organic Carbon** | **33000** | | 1000 | 500 | ug/L | | | 05/01/21 03:19 | 1 |

## Client Sample ID: MW-4-GW-210426

**Lab Sample ID: 410-37390-4**

**Date Collected: 04/26/21 07:07**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 06:32 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 05/04/21 06:32 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 06:32 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 06:32 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 05/04/21 06:32 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| **1,2-Dichloroethane** | **26** | | 5.0 | 2.0 | ug/L | | | 05/04/21 06:32 | 1 |
| **1,2-Dichloropropane** | **2.0** | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 06:32 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 05/04/21 06:32 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 05/04/21 06:32 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 05/04/21 06:32 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 05/04/21 06:32 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 05/04/21 06:32 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 06:32 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 06:32 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 05/04/21 06:32 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 06:32 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 06:32 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

**Client Sample ID: MW-4-GW-210426**
**Date Collected: 04/26/21 07:07**
**Date Received: 04/27/21 11:05**

**Lab Sample ID: 410-37390-4**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 06:32 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 06:32 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 06:32 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 05/04/21 06:32 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 05/04/21 06:32 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 06:32 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 06:32 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 05/04/21 06:32 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 05/04/21 06:32 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 05/04/21 06:32 | 1 |
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 06:32 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| **sec-Butylbenzene** | **0.31** | **J** | 5.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 06:32 | 1 |
| **t-Butyl alcohol** | **48** | | 25 | 10 | ug/L | | | 05/04/21 06:32 | 1 |
| **tert-Butylbenzene** | **0.82** | **J** | 5.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 06:32 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 06:32 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 06:32 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 06:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *80 - 120* | | *05/04/21 06:32* | *1* |
| *Dibromofluoromethane (Surr)* | *95* | | *80 - 120* | | *05/04/21 06:32* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *80 - 120* | | *05/04/21 06:32* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | | *05/04/21 06:32* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C6-C12 (1C)** | **220** | | 100 | 17 | ug/L | | | 04/27/21 23:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *92* | | *63 - 135* | | *04/27/21 23:02* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28) (1C)** | **1500** | | 100 | 45 | ug/L | | 05/01/21 01:43 | 05/03/21 19:13 | 1 |

## Client Sample ID: MW-4-GW-210426

**Lab Sample ID: 410-37390-4**

**Date Collected: 04/26/21 07:07**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) with Silica Gel clean up (1C) | ND | | 100 | 45 | ug/L | | 05/01/21 01:50 | 05/04/21 22:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *64* | | *50 - 150* | *05/01/21 01:43* | *05/03/21 19:13* | *1* |
| *o- terphenyl (Surr) (1C)* | *51* | | *46 - 130* | *05/01/21 01:50* | *05/04/21 22:15* | *1* |
| *Capric Acid (Surr) (1C)* | *0.3* | | *0 - 1* | *05/01/21 01:50* | *05/04/21 22:15* | *1* |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatgraphy

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | ND | H | 500 | 250 | ug/L | | | 04/29/21 05:53 | 5 |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Sulfate** | **110000** | | 50000 | 15000 | ug/L | | | 04/28/21 08:26 | 50 |
| **Chloride** | **18000** | | 2000 | 1000 | ug/L | | | 04/28/21 05:37 | 5 |

### Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Iron** | **77000** | | 200 | 40 | ug/L | | 04/27/21 22:32 | 05/04/21 17:06 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total Alkalinity as CaCO3 to pH 4.5** | **580000** | | 8000 | 2600 | ug/L | | | 04/28/21 19:28 | 1 |
| **Chemical Oxygen Demand** | **230000** | | 150000 | 50000 | ug/L | | | 04/28/21 14:26 | 2 |
| **Biochemical Oxygen Demand** | **2000** | | 1500 | 1500 | ug/L | | | 04/27/21 18:29 | 1 |
| **Total Organic Carbon** | **15000** | | 1000 | 500 | ug/L | | | 05/01/21 03:33 | 1 |

## Client Sample ID: MW-6-GW-210426

**Lab Sample ID: 410-37390-5**

**Date Collected: 04/26/21 06:26**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 14:18 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 05/04/21 14:18 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 14:18 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 14:18 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 05/04/21 14:18 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 14:18 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 14:18 | 1 |

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

**Client Sample ID: MW-6-GW-210426**
**Date Collected: 04/26/21 06:26**
**Date Received: 04/27/21 11:05**

**Lab Sample ID: 410-37390-5**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 05/04/21 14:18 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 05/04/21 14:18 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 05/04/21 14:18 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 05/04/21 14:18 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 05/04/21 14:18 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 14:18 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 14:18 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 05/04/21 14:18 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 14:18 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 14:18 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 14:18 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 14:18 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 14:18 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 05/04/21 14:18 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 05/04/21 14:18 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 14:18 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 14:18 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 05/04/21 14:18 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 05/04/21 14:18 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 05/04/21 14:18 | 1 |
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 14:18 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 14:18 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 05/04/21 14:18 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |

## Client Sample ID: MW-6-GW-210426

**Date Collected: 04/26/21 06:26**
**Date Received: 04/27/21 11:05**

## Lab Sample ID: 410-37390-5

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 14:18 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:18 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 14:18 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 14:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *80 - 120* | | *05/04/21 14:18* | *1* |
| *Dibromofluoromethane (Surr)* | *91* | | *80 - 120* | | *05/04/21 14:18* | *1* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *80 - 120* | | *05/04/21 14:18* | *1* |
| *Toluene-d8 (Surr)* | *103* | | *80 - 120* | | *05/04/21 14:18* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | ND | | 100 | 17 | ug/L | | | 04/27/21 23:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *92* | | *63 - 135* | | *04/27/21 23:28* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | ND | | 100 | 45 | ug/L | | 05/01/21 01:43 | 05/03/21 19:36 | 1 |
| DRO (C10-C28) with Silica Gel clean up (1C) | ND | | 100 | 45 | ug/L | | 05/01/21 01:50 | 05/04/21 22:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *55* | | *50 - 150* | *05/01/21 01:43* | *05/03/21 19:36* | *1* |
| *o- terphenyl (Surr) (1C)* | *33* | *S1-* | *46 - 130* | *05/01/21 01:50* | *05/04/21 22:37* | *1* |
| *Capric Acid (Surr) (1C)* | *0.3* | | *0 - 1* | *05/01/21 01:50* | *05/04/21 22:37* | *1* |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatgraphy

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | ND | H F1 | 500 | 250 | ug/L | | | 04/29/21 05:11 | 5 |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Sulfate** | **48000** | | 5000 | 1500 | ug/L | | | 04/28/21 04:55 | 5 |
| **Chloride** | **44000** | | 20000 | 10000 | ug/L | | | 04/28/21 07:54 | 50 |

### Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Iron** | **43000** | | 200 | 40 | ug/L | | 04/28/21 01:54 | 05/04/21 14:44 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total Alkalinity as CaCO3 to pH 4.5** | **320000** | | 8000 | 2600 | ug/L | | | 04/28/21 23:09 | 1 |
| **Chemical Oxygen Demand** | **210000** | **J** | 380000 | 130000 | ug/L | | | 04/28/21 14:29 | 5 |
| Biochemical Oxygen Demand | ND | | 1500 | 1500 | ug/L | | | 04/27/21 18:29 | 1 |
| **Total Organic Carbon** | **9800** | | 1000 | 500 | ug/L | | | 05/01/21 03:47 | 1 |

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

**Client Sample ID: MW-7-GW-210426**
**Date Collected: 04/26/21 08:35**
**Date Received: 04/27/21 11:05**

**Lab Sample ID: 410-37390-6**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 14:41 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 05/04/21 14:41 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 14:41 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 14:41 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 05/04/21 14:41 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 14:41 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 14:41 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 05/04/21 14:41 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 05/04/21 14:41 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 05/04/21 14:41 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 05/04/21 14:41 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 05/04/21 14:41 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 14:41 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 14:41 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 05/04/21 14:41 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 14:41 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 14:41 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 14:41 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 14:41 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 14:41 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 05/04/21 14:41 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |

**Client Sample ID: MW-7-GW-210426**
**Date Collected: 04/26/21 08:35**
**Date Received: 04/27/21 11:05**

**Lab Sample ID: 410-37390-6**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 05/04/21 14:41 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 14:41 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 14:41 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 05/04/21 14:41 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 05/04/21 14:41 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 05/04/21 14:41 | 1 |
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 14:41 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 14:41 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 05/04/21 14:41 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| **Toluene** | **0.73** | **J** | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 14:41 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 14:41 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 14:41 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 14:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *80 - 120* | | *05/04/21 14:41* | *1* |
| *Dibromofluoromethane (Surr)* | *92* | | *80 - 120* | | *05/04/21 14:41* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* | | *05/04/21 14:41* | *1* |
| *Toluene-d8 (Surr)* | *103* | | *80 - 120* | | *05/04/21 14:41* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | ND | | 100 | 17 | ug/L | | | 04/27/21 23:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *93* | | *63 - 135* | | *04/27/21 23:53* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28) (1C)** | **46** | **J** | 100 | 46 | ug/L | | 05/01/21 01:43 | 05/03/21 21:52 | 1 |
| DRO (C10-C28) with Silica Gel clean up (1C) | ND | | 100 | 46 | ug/L | | 05/01/21 01:50 | 05/04/21 23:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *57* | | *50 - 150* | *05/01/21 01:43* | *05/03/21 21:52* | *1* |
| *o- terphenyl (Surr) (1C)* | *51* | | *46 - 130* | *05/01/21 01:50* | *05/04/21 23:00* | *1* |
| *Capric Acid (Surr) (1C)* | *0.3* | | *0 - 1* | *05/01/21 01:50* | *05/04/21 23:00* | *1* |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatgraphy

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Nitrogen, Nitrate** | **450** | **J H** | 500 | 250 | ug/L | | | 04/29/21 06:24 | 5 |

## Client Sample ID: MW-7-GW-210426

**Lab Sample ID: 410-37390-6**

**Date Collected: 04/26/21 08:35**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Sulfate** | **57000** | | 5000 | 1500 | ug/L | | | 04/28/21 06:09 | 5 |
| **Chloride** | **41000** | | 20000 | 10000 | ug/L | | | 04/28/21 09:08 | 50 |

### Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Iron** | **130000** | | 200 | 40 | ug/L | | 04/27/21 22:32 | 05/04/21 17:54 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total Alkalinity as CaCO3 to pH 4.5** | **230000** | | 8000 | 2600 | ug/L | | | 04/28/21 23:03 | 1 |
| **Chemical Oxygen Demand** | **650000** | **J** | 750000 | 250000 | ug/L | | | 04/28/21 14:31 | 10 |
| Biochemical Oxygen Demand | ND | | 1000 | 1000 | ug/L | | | 04/27/21 18:29 | 1 |
| **Total Organic Carbon** | **11000** | | 1000 | 500 | ug/L | | | 05/01/21 04:01 | 1 |

## Client Sample ID: MW-9-GW-210426

**Lab Sample ID: 410-37390-7**

**Date Collected: 04/26/21 11:13**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 15:03 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 05/04/21 15:03 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 15:03 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 15:03 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 05/04/21 15:03 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 15:03 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 15:03 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 05/04/21 15:03 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 05/04/21 15:03 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 05/04/21 15:03 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 05/04/21 15:03 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 05/04/21 15:03 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

**Client Sample ID: MW-9-GW-210426**
**Date Collected: 04/26/21 11:13**
**Date Received: 04/27/21 11:05**

**Lab Sample ID: 410-37390-7**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 15:03 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 15:03 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 05/04/21 15:03 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 15:03 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 15:03 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 15:03 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 15:03 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 15:03 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 05/04/21 15:03 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 05/04/21 15:03 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 15:03 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 15:03 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 05/04/21 15:03 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 05/04/21 15:03 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 05/04/21 15:03 | 1 |
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 15:03 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 15:03 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 05/04/21 15:03 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 15:03 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:03 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 15:03 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 15:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *80 - 120* | | *05/04/21 15:03* | *1* |
| *Dibromofluoromethane (Surr)* | *91* | | *80 - 120* | | *05/04/21 15:03* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *80 - 120* | | *05/04/21 15:03* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* | | *05/04/21 15:03* | *1* |

## Client Sample ID: MW-9-GW-210426

**Lab Sample ID: 410-37390-7**

**Date Collected: 04/26/21 11:13**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | ND | | 100 | 17 | ug/L | | | 04/28/21 00:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *91* | | *63 - 135* | | *04/28/21 00:19* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | ND | | 100 | 46 | ug/L | | 05/01/21 01:43 | 05/03/21 22:15 | 1 |
| DRO (C10-C28) with Silica Gel clean up (1C) | ND | | 100 | 46 | ug/L | | 05/01/21 01:50 | 05/04/21 23:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *69* | | *50 - 150* | *05/01/21 01:43* | *05/03/21 22:15* | *1* |
| *o- terphenyl (Surr) (1C)* | *57* | | *46 - 130* | *05/01/21 01:50* | *05/04/21 23:23* | *1* |
| *Capric Acid (Surr) (1C)* | *0.3* | | *0 - 1* | *05/01/21 01:50* | *05/04/21 23:23* | *1* |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatgraphy

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Nitrogen, Nitrate** | **19000** | | 5000 | 2500 | ug/L | | | 04/28/21 09:45 | 50 |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Sulfate** | **95000** | | 50000 | 15000 | ug/L | | | 04/28/21 09:45 | 50 |
| **Chloride** | **47000** | | 20000 | 10000 | ug/L | | | 04/28/21 09:45 | 50 |

### Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Iron** | **24000** | | 200 | 40 | ug/L | | 04/27/21 22:32 | 05/04/21 17:51 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total Alkalinity as CaCO3 to pH 4.5** | **120000** | | 8000 | 2600 | ug/L | | | 04/28/21 23:23 | 1 |
| **Chemical Oxygen Demand** | **59000** | **J** | 150000 | 50000 | ug/L | | | 04/28/21 14:35 | 2 |
| Biochemical Oxygen Demand | ND | | 1500 | 1500 | ug/L | | | 04/27/21 19:10 | 1 |
| **Total Organic Carbon** | **1600** | | 1000 | 500 | ug/L | | | 05/01/21 02:37 | 1 |

## Client Sample ID: MW-10-GW-210426

**Lab Sample ID: 410-37390-8**

**Date Collected: 04/26/21 12:23**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 15:25 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 05/04/21 15:25 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 15:25 | 1 |

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

**Client Sample ID: MW-10-GW-210426**
**Date Collected: 04/26/21 12:23**
**Date Received: 04/27/21 11:05**

**Lab Sample ID: 410-37390-8**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 15:25 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 05/04/21 15:25 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 15:25 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 15:25 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 05/04/21 15:25 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 05/04/21 15:25 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 05/04/21 15:25 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 05/04/21 15:25 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 05/04/21 15:25 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 15:25 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 15:25 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 05/04/21 15:25 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 15:25 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 15:25 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 15:25 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 15:25 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 15:25 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 05/04/21 15:25 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 05/04/21 15:25 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 15:25 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 15:25 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 05/04/21 15:25 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 05/04/21 15:25 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 05/04/21 15:25 | 1 |
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 15:25 | 1 |

**Client Sample ID: MW-10-GW-210426**
**Date Collected: 04/26/21 12:23**
**Date Received: 04/27/21 11:05**

**Lab Sample ID: 410-37390-8**
**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 15:25 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 05/04/21 15:25 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 15:25 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:25 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 15:25 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 15:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *80 - 120* | | *05/04/21 15:25* | *1* |
| *Dibromofluoromethane (Surr)* | *91* | | *80 - 120* | | *05/04/21 15:25* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* | | *05/04/21 15:25* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | | *05/04/21 15:25* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | ND | | 100 | 17 | ug/L | | | 04/28/21 00:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *92* | | *63 - 135* | | *04/28/21 00:45* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28) (1C)** | **340** | | 100 | 45 | ug/L | | 05/01/21 01:43 | 05/03/21 22:38 | 1 |
| **DRO (C10-C28) with Silica Gel clean up (1C)** | **140** | | 100 | 45 | ug/L | | 05/01/21 01:50 | 05/04/21 23:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *60* | | *50 - 150* | *05/01/21 01:43* | *05/03/21 22:38* | *1* |
| *o- terphenyl (Surr) (1C)* | *44* | *S1-* | *46 - 130* | *05/01/21 01:50* | *05/04/21 23:46* | *1* |
| *Capric Acid (Surr) (1C)* | *0.3* | | *0 - 1* | *05/01/21 01:50* | *05/04/21 23:46* | *1* |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatgraphy

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Nitrogen, Nitrate** | **580** | | 500 | 250 | ug/L | | | 04/28/21 08:11 | 5 |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Sulfate** | **73000** | | 5000 | 1500 | ug/L | | | 04/28/21 08:11 | 5 |
| **Chloride** | **68000** | | 20000 | 10000 | ug/L | | | 04/28/21 11:18 | 50 |

### Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Iron** | **20000** | | 200 | 40 | ug/L | | 04/27/21 22:32 | 05/04/21 17:48 | 1 |

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

## Client Sample ID: MW-10-GW-210426

**Lab Sample ID: 410-37390-8**

**Date Collected: 04/26/21 12:23**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total Alkalinity as CaCO3 to pH 4.5** | **240000** | | 8000 | 2600 | ug/L | | | 04/28/21 23:16 | 1 |
| Chemical Oxygen Demand | ND | | 75000 | 25000 | ug/L | | | 04/28/21 14:38 | 1 |
| Biochemical Oxygen Demand | ND | | 1500 | 1500 | ug/L | | | 04/27/21 19:10 | 1 |
| **Total Organic Carbon** | **1900** | | 1000 | 500 | ug/L | | | 05/01/21 04:15 | 1 |

## Client Sample ID: MW-11-GW-210426

**Lab Sample ID: 410-37390-9**

**Date Collected: 04/26/21 09:43**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 15:47 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 05/04/21 15:47 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 15:47 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 15:47 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 05/04/21 15:47 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 15:47 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 15:47 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 05/04/21 15:47 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 05/04/21 15:47 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 05/04/21 15:47 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 05/04/21 15:47 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 05/04/21 15:47 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 15:47 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 15:47 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 05/04/21 15:47 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 15:47 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 15:47 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |

**Client Sample ID: MW-11-GW-210426**
**Date Collected: 04/26/21 09:43**
**Date Received: 04/27/21 11:05**

**Lab Sample ID: 410-37390-9**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 15:47 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 15:47 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 15:47 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 05/04/21 15:47 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 05/04/21 15:47 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 15:47 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 15:47 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 05/04/21 15:47 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 05/04/21 15:47 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 05/04/21 15:47 | 1 |
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 15:47 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 15:47 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 05/04/21 15:47 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 15:47 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 15:47 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 15:47 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 15:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *80 - 120* | | *05/04/21 15:47* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *80 - 120* | | *05/04/21 15:47* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* | | *05/04/21 15:47* | *1* |
| *Toluene-d8 (Surr)* | *106* | | *80 - 120* | | *05/04/21 15:47* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | ND | | 100 | 17 | ug/L | | | 04/28/21 01:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *92* | | *63 - 135* | | *04/28/21 01:10* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28) (1C)** | **230** | | 100 | 46 | ug/L | | 05/01/21 01:43 | 05/03/21 23:00 | 1 |

## Client Sample ID: MW-11-GW-210426

**Lab Sample ID: 410-37390-9**

**Date Collected: 04/26/21 09:43**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) with Silica Gel clean up (1C) | 98 | J | 100 | 46 | ug/L | | 05/01/21 01:50 | 05/05/21 00:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *74* | | *50 - 150* | *05/01/21 01:43* | *05/03/21 23:00* | *1* |
| *o- terphenyl (Surr) (1C)* | *55* | | *46 - 130* | *05/01/21 01:50* | *05/05/21 00:08* | *1* |
| *Capric Acid (Surr) (1C)* | *0.3* | | *0 - 1* | *05/01/21 01:50* | *05/05/21 00:08* | *1* |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatgraphy

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | 20000 | H | 5000 | 2500 | ug/L | | | 04/29/21 07:28 | 50 |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 68000 | | 5000 | 1500 | ug/L | | | 04/28/21 07:23 | 5 |
| Chloride | 30000 | | 20000 | 10000 | ug/L | | | 04/28/21 10:43 | 50 |

### Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Iron | 1900 | | 200 | 40 | ug/L | | 04/28/21 01:54 | 05/04/21 14:32 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | 88000 | | 8000 | 2600 | ug/L | | | 04/28/21 23:35 | 1 |
| Chemical Oxygen Demand | ND | | 75000 | 25000 | ug/L | | | 04/28/21 14:47 | 1 |
| Biochemical Oxygen Demand | 7200 | | 1500 | 1500 | ug/L | | | 04/27/21 19:10 | 1 |
| Total Organic Carbon | 1800 | | 1000 | 500 | ug/L | | | 05/01/21 04:57 | 1 |

## Client Sample ID: MW-12-GW-210426

**Lab Sample ID: 410-37390-10**

**Date Collected: 04/26/21 08:52**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 16:10 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 05/04/21 16:10 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 16:10 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 16:10 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 05/04/21 16:10 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 16:10 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 16:10 | 1 |

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

**Client Sample ID: MW-12-GW-210426**
**Date Collected: 04/26/21 08:52**
**Date Received: 04/27/21 11:05**

**Lab Sample ID: 410-37390-10**
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 05/04/21 16:10 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 05/04/21 16:10 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 05/04/21 16:10 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 05/04/21 16:10 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 05/04/21 16:10 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 16:10 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 16:10 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 05/04/21 16:10 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 16:10 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 16:10 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 16:10 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 16:10 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 16:10 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 05/04/21 16:10 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 05/04/21 16:10 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 16:10 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 16:10 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 05/04/21 16:10 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 05/04/21 16:10 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 05/04/21 16:10 | 1 |
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 16:10 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 16:10 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 05/04/21 16:10 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

## Client Sample ID: MW-12-GW-210426

**Date Collected: 04/26/21 08:52**
**Date Received: 04/27/21 11:05**

## Lab Sample ID: 410-37390-10

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 16:10 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:10 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 16:10 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 16:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *80 - 120* | | *05/04/21 16:10* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *80 - 120* | | *05/04/21 16:10* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* | | *05/04/21 16:10* | *1* |
| *Toluene-d8 (Surr)* | *105* | | *80 - 120* | | *05/04/21 16:10* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | ND | | 100 | 17 | ug/L | | | 04/28/21 01:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *92* | | *63 - 135* | | *04/28/21 01:36* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28) (1C)** | **160** | | 100 | 46 | ug/L | | 05/01/21 01:43 | 05/03/21 23:23 | 1 |
| DRO (C10-C28) with Silica Gel clean up (1C) | ND | | 100 | 46 | ug/L | | 05/01/21 01:50 | 05/05/21 00:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *70* | | *50 - 150* | *05/01/21 01:43* | *05/03/21 23:23* | *1* |
| *o- terphenyl (Surr) (1C)* | *49* | | *46 - 130* | *05/01/21 01:50* | *05/05/21 00:31* | *1* |
| *Capric Acid (Surr) (1C)* | *0.3* | | *0 - 1* | *05/01/21 01:50* | *05/05/21 00:31* | *1* |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatgraphy

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | ND | H | 500 | 250 | ug/L | | | 04/29/21 06:56 | 5 |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Sulfate** | **78000** | | 50000 | 15000 | ug/L | | | 04/28/21 09:29 | 50 |
| **Chloride** | **55000** | | 20000 | 10000 | ug/L | | | 04/28/21 09:29 | 50 |

### Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Iron** | **2100** | | 200 | 40 | ug/L | | 04/28/21 01:54 | 05/04/21 14:53 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total Alkalinity as CaCO3 to pH 4.5** | **240000** | | 8000 | 2600 | ug/L | | | 04/28/21 23:42 | 1 |
| Chemical Oxygen Demand | ND | | 75000 | 25000 | ug/L | | | 04/28/21 14:50 | 1 |
| **Biochemical Oxygen Demand** | **15000** | | 1500 | 1500 | ug/L | | | 04/27/21 18:29 | 1 |
| **Total Organic Carbon** | **2300** | | 1000 | 500 | ug/L | | | 05/01/21 05:11 | 1 |

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

**Client Sample ID: MW-13-GW-210426**
**Date Collected: 04/26/21 13:00**
**Date Received: 04/27/21 11:05**

**Lab Sample ID: 410-37390-11**
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 16:32 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 05/04/21 16:32 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 16:32 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 16:32 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 05/04/21 16:32 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 16:32 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 16:32 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 05/04/21 16:32 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 05/04/21 16:32 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 05/04/21 16:32 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 05/04/21 16:32 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 05/04/21 16:32 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 16:32 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 16:32 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 05/04/21 16:32 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 16:32 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 16:32 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 16:32 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 16:32 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 16:32 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 05/04/21 16:32 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

## Client Sample ID: MW-13-GW-210426

**Date Collected: 04/26/21 13:00**
**Date Received: 04/27/21 11:05**

## Lab Sample ID: 410-37390-11

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 05/04/21 16:32 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 16:32 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 16:32 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 05/04/21 16:32 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 05/04/21 16:32 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 05/04/21 16:32 | 1 |
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 16:32 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 16:32 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 05/04/21 16:32 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 16:32 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:32 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 16:32 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 16:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *80 - 120* | | *05/04/21 16:32* | *1* |
| *Dibromofluoromethane (Surr)* | *91* | | *80 - 120* | | *05/04/21 16:32* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* | | *05/04/21 16:32* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* | | *05/04/21 16:32* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | ND | | 100 | 17 | ug/L | | | 04/28/21 02:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *93* | | *63 - 135* | | *04/28/21 02:27* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28) (1C)** | **64** | **J** | 100 | 46 | ug/L | | 05/01/21 01:43 | 05/03/21 23:45 | 1 |
| DRO (C10-C28) with Silica Gel clean up (1C) | ND | | 100 | 46 | ug/L | | 05/01/21 01:50 | 05/05/21 00:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *74* | | *50 - 150* | *05/01/21 01:43* | *05/03/21 23:45* | *1* |
| *o- terphenyl (Surr) (1C)* | *38* | *S1-* | *46 - 130* | *05/01/21 01:50* | *05/05/21 00:54* | *1* |
| *Capric Acid (Surr) (1C)* | *0.3* | | *0 - 1* | *05/01/21 01:50* | *05/05/21 00:54* | *1* |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatgraphy

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Nitrogen, Nitrate** | **28000** | | 5000 | 2500 | ug/L | | | 04/28/21 10:00 | 50 |

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

## Client Sample ID: MW-13-GW-210426

**Lab Sample ID: 410-37390-11**

**Date Collected: 04/26/21 13:00**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Sulfate** | **68000** | **F1** | 5000 | 1500 | ug/L | | | 04/28/21 05:47 | 5 |
| **Chloride** | **35000** | | 20000 | 10000 | ug/L | | | 04/28/21 10:00 | 50 |

### Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Iron** | **30000** | | 200 | 40 | ug/L | | 04/27/21 22:32 | 05/04/21 17:26 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total Alkalinity as CaCO3 to pH 4.5** | **90000** | | 8000 | 2600 | ug/L | | | 04/28/21 23:54 | 1 |
| **Chemical Oxygen Demand** | **66000** | **J** | 150000 | 50000 | ug/L | | | 04/28/21 14:53 | 2 |
| Biochemical Oxygen Demand | ND | | 2000 | 2000 | ug/L | | | 04/28/21 12:27 | 1 |
| **Total Organic Carbon** | **1600** | | 1000 | 500 | ug/L | | | 05/01/21 05:25 | 1 |

## Client Sample ID: QA-WQ-210426

**Lab Sample ID: 410-37390-12**

**Date Collected: 04/26/21 06:00**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 12:49 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 05/04/21 12:49 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 12:49 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 12:49 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 05/04/21 12:49 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 12:49 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 12:49 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 05/04/21 12:49 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 05/04/21 12:49 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 05/04/21 12:49 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 05/04/21 12:49 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 05/04/21 12:49 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

**Client Sample ID: QA-WQ-210426**
**Date Collected: 04/26/21 06:00**
**Date Received: 04/27/21 11:05**

**Lab Sample ID: 410-37390-12**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 12:49 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 12:49 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 05/04/21 12:49 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 12:49 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 12:49 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 12:49 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 12:49 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 12:49 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 05/04/21 12:49 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 05/04/21 12:49 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 12:49 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 12:49 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 05/04/21 12:49 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 05/04/21 12:49 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 05/04/21 12:49 | 1 |
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 12:49 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 12:49 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 05/04/21 12:49 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 12:49 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:49 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 12:49 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 12:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *80 - 120* | | *05/04/21 12:49* | *1* |
| *Dibromofluoromethane (Surr)* | *91* | | *80 - 120* | | *05/04/21 12:49* | *1* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *80 - 120* | | *05/04/21 12:49* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* | | *05/04/21 12:49* | *1* |

## Client Sample ID: QA-WQ-210426

**Lab Sample ID: 410-37390-12**

**Date Collected: 04/26/21 06:00**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | ND | | 100 | 17 | ug/L | | | 04/27/21 21:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *92* | | *63 - 135* | | *04/27/21 21:45* | *1* |

## Client Sample ID: MW-14-GW-210426

**Lab Sample ID: 410-37390-13**

**Date Collected: 04/26/21 13:47**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 16:54 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 05/04/21 16:54 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 16:54 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 16:54 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 05/04/21 16:54 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 16:54 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 16:54 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 05/04/21 16:54 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 05/04/21 16:54 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 05/04/21 16:54 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 05/04/21 16:54 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 05/04/21 16:54 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 16:54 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 16:54 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 05/04/21 16:54 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 16:54 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 16:54 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |

**Client Sample ID: MW-14-GW-210426**
**Date Collected: 04/26/21 13:47**
**Date Received: 04/27/21 11:05**

**Lab Sample ID: 410-37390-13**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 16:54 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 16:54 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 16:54 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 05/04/21 16:54 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 05/04/21 16:54 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 16:54 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 16:54 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 05/04/21 16:54 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 05/04/21 16:54 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 05/04/21 16:54 | 1 |
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 16:54 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 16:54 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 05/04/21 16:54 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 16:54 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 16:54 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 16:54 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 16:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *80 - 120* | | *05/04/21 16:54* | *1* |
| *Dibromofluoromethane (Surr)* | *91* | | *80 - 120* | | *05/04/21 16:54* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* | | *05/04/21 16:54* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* | | *05/04/21 16:54* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | ND | | 100 | 17 | ug/L | | | 04/28/21 02:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *92* | | *63 - 135* | | *04/28/21 02:53* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28) (1C)** | **230** | | 100 | 46 | ug/L | | 05/01/21 01:43 | 05/04/21 00:08 | 1 |

## Client Sample ID: MW-14-GW-210426

**Lab Sample ID: 410-37390-13**

**Date Collected: 04/26/21 13:47**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) with Silica Gel clean up (1C) | 77 | J | 100 | 46 | ug/L | | 05/01/21 01:50 | 05/05/21 01:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *80* | | *50 - 150* | *05/01/21 01:43* | *05/04/21 00:08* | *1* |
| *o- terphenyl (Surr) (1C)* | *55* | | *46 - 130* | *05/01/21 01:50* | *05/05/21 01:16* | *1* |
| *Capric Acid (Surr) (1C)* | *0.3* | | *0 - 1* | *05/01/21 01:50* | *05/05/21 01:16* | *1* |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatgraphy

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | ND | | 500 | 250 | ug/L | | | 04/28/21 07:17 | 5 |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 73000 | | 5000 | 1500 | ug/L | | | 04/28/21 07:17 | 5 |
| Chloride | 59000 | | 20000 | 10000 | ug/L | | | 04/29/21 05:33 | 50 |

### Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Iron | 3400 | | 200 | 40 | ug/L | | 04/28/21 01:54 | 05/04/21 14:47 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | 250000 | | 8000 | 2600 | ug/L | | | 04/28/21 23:48 | 1 |
| Chemical Oxygen Demand | ND | | 75000 | 25000 | ug/L | | | 04/28/21 14:56 | 1 |
| Biochemical Oxygen Demand | 8100 | | 1500 | 1500 | ug/L | | | 04/28/21 12:27 | 1 |
| Total Organic Carbon | 3200 | | 1000 | 500 | ug/L | | | 05/01/21 05:39 | 1 |

## Client Sample ID: MW-15-GW-210426

**Lab Sample ID: 410-37390-14**

**Date Collected: 04/26/21 09:20**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 17:17 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 05/04/21 17:17 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 17:17 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 17:17 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 05/04/21 17:17 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 17:17 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 17:17 | 1 |

**Client Sample ID: MW-15-GW-210426**
**Date Collected: 04/26/21 09:20**
**Date Received: 04/27/21 11:05**

**Lab Sample ID: 410-37390-14**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 05/04/21 17:17 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 05/04/21 17:17 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 05/04/21 17:17 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 05/04/21 17:17 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 05/04/21 17:17 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 17:17 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 17:17 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 05/04/21 17:17 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 17:17 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 17:17 | 1 |
| **Chloroform** | **0.25** | **J** | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 17:17 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 17:17 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 17:17 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 05/04/21 17:17 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 05/04/21 17:17 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 17:17 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 17:17 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 05/04/21 17:17 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 05/04/21 17:17 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 05/04/21 17:17 | 1 |
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 17:17 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 17:17 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 05/04/21 17:17 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |

**Client Sample ID: MW-15-GW-210426**
**Date Collected: 04/26/21 09:20**
**Date Received: 04/27/21 11:05**

**Lab Sample ID: 410-37390-14**
**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 17:17 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 17:17 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 17:17 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 17:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *80 - 120* | | *05/04/21 17:17* | *1* |
| *Dibromofluoromethane (Surr)* | *90* | | *80 - 120* | | *05/04/21 17:17* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *80 - 120* | | *05/04/21 17:17* | *1* |
| *Toluene-d8 (Surr)* | *103* | | *80 - 120* | | *05/04/21 17:17* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | ND | | 100 | 17 | ug/L | | | 04/28/21 03:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *92* | | *63 - 135* | | *04/28/21 03:19* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | ND | | 100 | 46 | ug/L | | 05/01/21 01:43 | 05/04/21 00:30 | 1 |
| DRO (C10-C28) with Silica Gel clean up (1C) | ND | | 100 | 46 | ug/L | | 05/01/21 01:50 | 05/05/21 01:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *69* | | *50 - 150* | *05/01/21 01:43* | *05/04/21 00:30* | *1* |
| *o- terphenyl (Surr) (1C)* | *49* | | *46 - 130* | *05/01/21 01:50* | *05/05/21 01:39* | *1* |
| *Capric Acid (Surr) (1C)* | *0.3* | | *0 - 1* | *05/01/21 01:50* | *05/05/21 01:39* | *1* |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatgraphy

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Nitrogen, Nitrate** | **13000** | **H** | 5000 | 2500 | ug/L | | | 04/29/21 07:17 | 50 |

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Sulfate** | **38000** | | 5000 | 1500 | ug/L | | | 04/28/21 06:51 | 5 |
| **Chloride** | **28000** | | 2000 | 1000 | ug/L | | | 04/28/21 06:51 | 5 |

### Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Iron** | **3800** | | 200 | 40 | ug/L | | 04/28/21 01:54 | 05/04/21 14:41 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total Alkalinity as CaCO3 to pH 4.5** | **79000** | | 8000 | 2600 | ug/L | | | 04/28/21 23:29 | 1 |
| Chemical Oxygen Demand | ND | | 75000 | 25000 | ug/L | | | 04/28/21 14:59 | 1 |
| Biochemical Oxygen Demand | ND | | 1500 | 1500 | ug/L | | | 04/27/21 19:10 | 1 |
| **Total Organic Carbon** | **960** | **J** | 1000 | 500 | ug/L | | | 05/01/21 05:53 | 1 |

# Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | DBFM | BFB | TOL |
| Lab Sample ID | Client Sample ID | (80-120) | (80-120) | (80-120) | (80-120) |
| 410-37390-1 | MW-1A-GW-210426 | 97 | 92 | 99 | 99 |
| 410-37390-2 | MW-2-GW-210426 | 101 | 96 | 95 | 99 |
| 410-37390-3 | MW-3-GW-210426 | 102 | 95 | 95 | 99 |
| 410-37390-4 | MW-4-GW-210426 | 101 | 95 | 98 | 100 |
| 410-37390-5 | MW-6-GW-210426 | 100 | 91 | 96 | 103 |
| 410-37390-6 | MW-7-GW-210426 | 98 | 92 | 94 | 103 |
| 410-37390-7 | MW-9-GW-210426 | 102 | 91 | 95 | 102 |
| 410-37390-8 | MW-10-GW-210426 | 99 | 91 | 94 | 101 |
| 410-37390-9 | MW-11-GW-210426 | 101 | 97 | 94 | 106 |
| 410-37390-10 | MW-12-GW-210426 | 103 | 96 | 94 | 105 |
| 410-37390-11 | MW-13-GW-210426 | 102 | 91 | 94 | 102 |
| 410-37390-12 | QA-WQ-210426 | 100 | 91 | 93 | 102 |
| 410-37390-13 | MW-14-GW-210426 | 101 | 91 | 94 | 102 |
| 410-37390-14 | MW-15-GW-210426 | 100 | 90 | 95 | 103 |
| LCS 410-121940/4 | Lab Control Sample | 100 | 99 | 97 | 98 |
| LCS 410-122159/4 | Lab Control Sample | 102 | 94 | 98 | 105 |
| LCSD 410-121940/5 | Lab Control Sample Dup | 100 | 94 | 97 | 100 |
| LCSD 410-122159/5 | Lab Control Sample Dup | 99 | 95 | 96 | 106 |
| MB 410-121940/7 | Method Blank | 100 | 93 | 97 | 99 |
| MB 410-122159/7 | Method Blank | 102 | 95 | 94 | 103 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

## Method: 8015B - Gasoline Range Organics - (GC)

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) |
|---|---|---|
| | | TFT-F1 |
| Lab Sample ID | Client Sample ID | (63-135) |
| 410-37390-1 | MW-1A-GW-210426 | 88 |
| 410-37390-2 | MW-2-GW-210426 | 92 |
| 410-37390-3 | MW-3-GW-210426 | 134 |
| 410-37390-4 | MW-4-GW-210426 | 92 |
| 410-37390-5 | MW-6-GW-210426 | 92 |
| 410-37390-6 | MW-7-GW-210426 | 93 |
| 410-37390-7 | MW-9-GW-210426 | 91 |
| 410-37390-8 | MW-10-GW-210426 | 92 |
| 410-37390-9 | MW-11-GW-210426 | 92 |
| 410-37390-10 | MW-12-GW-210426 | 92 |
| 410-37390-11 | MW-13-GW-210426 | 93 |
| 410-37390-12 | QA-WQ-210426 | 92 |
| 410-37390-13 | MW-14-GW-210426 | 92 |
| 410-37390-14 | MW-15-GW-210426 | 92 |
| LCS 410-119696/5 | Lab Control Sample | 84 |
| LCS 410-120197/5 | Lab Control Sample | 93 |
| LCSD 410-119696/6 | Lab Control Sample Dup | 83 |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Matrix: Water** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) |
|---|---|---|
| | | TFT-F1 |
| Lab Sample ID | Client Sample ID | (63-135) |
| LCSD 410-120197/6 | Lab Control Sample Dup | 94 |
| MB 410-119696/4 | Method Blank | 94 |
| MB 410-120197/4 | Method Blank | 92 |

**Surrogate Legend**

TFT-F = a,a,a-Trifluorotoluene (fid)

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Matrix: Water** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) |
|---|---|---|
| | | OTP1 |
| Lab Sample ID | Client Sample ID | (50-150) |
| 410-37390-1 | MW-1A-GW-210426 | 52 |
| 410-37390-2 | MW-2-GW-210426 | 62 |
| 410-37390-3 | MW-3-GW-210426 | 73 |
| 410-37390-4 | MW-4-GW-210426 | 64 |
| 410-37390-5 | MW-6-GW-210426 | 55 |
| 410-37390-6 | MW-7-GW-210426 | 57 |
| 410-37390-7 | MW-9-GW-210426 | 69 |
| 410-37390-8 | MW-10-GW-210426 | 60 |
| 410-37390-9 | MW-11-GW-210426 | 74 |
| 410-37390-10 | MW-12-GW-210426 | 70 |
| 410-37390-11 | MW-13-GW-210426 | 74 |
| 410-37390-13 | MW-14-GW-210426 | 80 |
| 410-37390-14 | MW-15-GW-210426 | 69 |
| LCS 410-121283/2-A | Lab Control Sample | 76 |
| LCSD 410-121283/3-A | Lab Control Sample Dup | 80 |
| MB 410-121283/1-A | Method Blank | 70 |

**Surrogate Legend**

OTP = o- terphenyl (Surr)

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Matrix: Water** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| | | OTP1 | NDA1 |
| Lab Sample ID | Client Sample ID | (46-130) | (0-1) |
| 410-37390-1 | MW-1A-GW-210426 | 41 S1- | 0.3 |
| 410-37390-2 | MW-2-GW-210426 | 60 | 0.3 |
| 410-37390-3 | MW-3-GW-210426 | 53 | 0.3 |
| 410-37390-4 | MW-4-GW-210426 | 51 | 0.3 |
| 410-37390-5 | MW-6-GW-210426 | 33 S1- | 0.3 |
| 410-37390-6 | MW-7-GW-210426 | 51 | 0.3 |
| 410-37390-7 | MW-9-GW-210426 | 57 | 0.3 |
| 410-37390-8 | MW-10-GW-210426 | 44 S1- | 0.3 |
| 410-37390-9 | MW-11-GW-210426 | 55 | 0.3 |
| 410-37390-10 | MW-12-GW-210426 | 49 | 0.3 |
| 410-37390-11 | MW-13-GW-210426 | 38 S1- | 0.3 |
| 410-37390-13 | MW-14-GW-210426 | 55 | 0.3 |
| 410-37390-14 | MW-15-GW-210426 | 49 | 0.3 |

# Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Matrix: Water**

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID | Client Sample ID | OTP1 (46-130) | NDA1 (0-1) | | | | | | | | |
| LCS 410-121284/2-B | Lab Control Sample | 60 | 0.8 | | | | | | | | |
| LCSD 410-121284/3-B | Lab Control Sample Dup | 58 | 0.8 | | | | | | | | |
| MB 410-121284/1-B | Method Blank | 64 | 0.3 | | | | | | | | |

**Surrogate Legend**

OTP = o- terphenyl (Surr)
NDA = Capric Acid (Surr)

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 410-121940/7**
**Matrix: Water**
**Analysis Batch: 121940**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 00:09 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 05/04/21 00:09 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 00:09 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 00:09 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 05/04/21 00:09 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 00:09 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 00:09 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 05/04/21 00:09 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 05/04/21 00:09 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 05/04/21 00:09 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 05/04/21 00:09 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 05/04/21 00:09 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 00:09 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 00:09 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 05/04/21 00:09 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 00:09 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 00:09 | 1 |
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 00:09 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 00:09 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 00:09 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 05/04/21 00:09 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 410-121940/7**
**Matrix: Water**
**Analysis Batch: 121940**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 05/04/21 00:09 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 00:09 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 00:09 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 05/04/21 00:09 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 05/04/21 00:09 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 05/04/21 00:09 | 1 |
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 00:09 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 00:09 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 05/04/21 00:09 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 00:09 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 00:09 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 00:09 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 00:09 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *80 - 120* | | *05/04/21 00:09* | *1* |
| *Dibromofluoromethane (Surr)* | *93* | | *80 - 120* | | *05/04/21 00:09* | *1* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *80 - 120* | | *05/04/21 00:09* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | | *05/04/21 00:09* | *1* |

**Lab Sample ID: LCS 410-121940/4**
**Matrix: Water**
**Analysis Batch: 121940**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 20.0 | 17.6 | | ug/L | | 88 | 78 - 120 |
| 1,1,1-Trichloroethane | 20.0 | 17.4 | | ug/L | | 87 | 67 - 126 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 20.0 | | ug/L | | 100 | 72 - 120 |
| 1,1,2-Trichloroethane | 20.0 | 18.9 | | ug/L | | 94 | 80 - 120 |
| 1,1-Dichloroethane | 20.0 | 17.4 | | ug/L | | 87 | 80 - 120 |
| 1,1-Dichloroethene | 20.0 | 20.6 | | ug/L | | 103 | 80 - 131 |
| 1,1-Dichloropropene | 20.0 | 17.5 | | ug/L | | 87 | 78 - 120 |
| 1,2,3-Trichlorobenzene | 20.0 | 18.3 | | ug/L | | 91 | 66 - 120 |
| 1,2,3-Trichloropropane | 20.0 | 19.6 | | ug/L | | 98 | 75 - 124 |
| 1,2,4-Trichlorobenzene | 20.0 | 18.0 | | ug/L | | 90 | 63 - 120 |
| 1,2,4-Trimethylbenzene | 20.0 | 18.8 | | ug/L | | 94 | 75 - 120 |
| 1,2-Dibromo-3-Chloropropane | 20.0 | 18.7 | | ug/L | | 94 | 47 - 131 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 410-121940/4**
**Matrix: Water**
**Analysis Batch: 121940**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 20.0 | 18.5 | | ug/L | | 92 | 77 - 120 |
| 1,2-Dichlorobenzene | 20.0 | 18.6 | | ug/L | | 93 | 80 - 120 |
| 1,2-Dichloroethane | 20.0 | 16.5 | | ug/L | | 83 | 73 - 124 |
| 1,2-Dichloropropane | 20.0 | 18.0 | | ug/L | | 90 | 80 - 120 |
| 1,3,5-Trimethylbenzene | 20.0 | 18.8 | | ug/L | | 94 | 75 - 120 |
| 1,3-Dichlorobenzene | 20.0 | 18.8 | | ug/L | | 94 | 80 - 120 |
| 1,3-Dichloropropane | 20.0 | 18.3 | | ug/L | | 92 | 80 - 120 |
| 1,4-Dichlorobenzene | 20.0 | 18.8 | | ug/L | | 94 | 80 - 120 |
| 2,2-Dichloropropane | 20.0 | 16.8 | | ug/L | | 84 | 55 - 142 |
| 2-Butanone | 150 | 136 | | ug/L | | 91 | 59 - 135 |
| 2-Chloroethyl vinyl ether | 20.0 | 16.4 | | ug/L | | 82 | 49 - 124 |
| 2-Chlorotoluene | 20.0 | 18.8 | | ug/L | | 94 | 80 - 120 |
| 2-Hexanone | 100 | 88.4 | | ug/L | | 88 | 56 - 135 |
| 4-Chlorotoluene | 20.0 | 18.8 | | ug/L | | 94 | 80 - 120 |
| 4-Methyl-2-pentanone | 100 | 88.7 | | ug/L | | 89 | 62 - 133 |
| Acetone | 150 | 146 | | ug/L | | 97 | 54 - 157 |
| Benzene | 20.0 | 18.6 | | ug/L | | 93 | 80 - 120 |
| Bromobenzene | 20.0 | 18.8 | | ug/L | | 94 | 80 - 120 |
| Bromochloromethane | 20.0 | 18.1 | | ug/L | | 90 | 80 - 120 |
| Bromodichloromethane | 20.0 | 17.7 | | ug/L | | 89 | 71 - 120 |
| Bromoform | 20.0 | 17.2 | | ug/L | | 86 | 51 - 120 |
| Bromomethane | 20.0 | 18.4 | | ug/L | | 92 | 53 - 128 |
| Carbon disulfide | 20.0 | 20.3 | | ug/L | | 102 | 65 - 128 |
| Carbon tetrachloride | 20.0 | 17.4 | | ug/L | | 87 | 64 - 134 |
| Chlorobenzene | 20.0 | 18.6 | | ug/L | | 93 | 80 - 120 |
| Chloroethane | 20.0 | 17.5 | | ug/L | | 87 | 55 - 123 |
| Chloroform | 20.0 | 18.0 | | ug/L | | 90 | 80 - 120 |
| Chloromethane | 20.0 | 16.1 | | ug/L | | 80 | 56 - 121 |
| cis-1,2-Dichloroethene | 20.0 | 19.2 | | ug/L | | 96 | 80 - 125 |
| cis-1,3-Dichloropropene | 20.0 | 18.3 | | ug/L | | 91 | 75 - 120 |
| Dibromochloromethane | 20.0 | 18.0 | | ug/L | | 90 | 71 - 120 |
| Dibromomethane | 20.0 | 18.1 | | ug/L | | 91 | 80 - 120 |
| Dichlorodifluoromethane | 20.0 | 15.2 | | ug/L | | 76 | 41 - 127 |
| di-Isopropyl ether | 20.0 | 17.2 | | ug/L | | 86 | 70 - 124 |
| Ethanol | 1000 | 955 | | ug/L | | 95 | 31 - 180 |
| Ethyl t-butyl ether | 20.0 | 18.0 | | ug/L | | 90 | 68 - 121 |
| Ethylbenzene | 20.0 | 17.9 | | ug/L | | 90 | 80 - 120 |
| Freon 113 | 20.0 | 19.6 | | ug/L | | 98 | 73 - 139 |
| Hexachlorobutadiene | 20.0 | 16.1 | | ug/L | | 81 | 63 - 120 |
| Isopropylbenzene | 20.0 | 17.5 | | ug/L | | 88 | 80 - 120 |
| m&p-Xylene | 40.0 | 36.5 | | ug/L | | 91 | 80 - 120 |
| Methyl tertiary butyl ether | 20.0 | 18.6 | | ug/L | | 93 | 69 - 122 |
| Methylene Chloride | 20.0 | 20.0 | | ug/L | | 100 | 80 - 120 |
| Naphthalene | 20.0 | 19.8 | | ug/L | | 99 | 53 - 124 |
| n-Butylbenzene | 20.0 | 17.9 | | ug/L | | 89 | 76 - 120 |
| n-Propylbenzene | 20.0 | 18.7 | | ug/L | | 93 | 79 - 121 |
| o-Xylene | 20.0 | 18.2 | | ug/L | | 91 | 80 - 120 |
| p-Isopropyltoluene | 20.0 | 18.5 | | ug/L | | 93 | 76 - 120 |
| sec-Butylbenzene | 20.0 | 18.3 | | ug/L | | 92 | 77 - 120 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 410-121940/4**
**Matrix: Water**
**Analysis Batch: 121940**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Styrene | 20.0 | 18.0 | | ug/L | | 90 | 80 - 120 |
| t-Amyl methyl ether | 20.0 | 18.3 | | ug/L | | 92 | 66 - 120 |
| t-Butyl alcohol | 200 | 162 | | ug/L | | 81 | 60 - 130 |
| tert-Butylbenzene | 20.0 | 17.3 | | ug/L | | 87 | 78 - 120 |
| Tetrachloroethene | 20.0 | 17.5 | | ug/L | | 87 | 80 - 120 |
| Toluene | 20.0 | 18.4 | | ug/L | | 92 | 80 - 120 |
| trans-1,2-Dichloroethene | 20.0 | 19.2 | | ug/L | | 96 | 80 - 126 |
| trans-1,3-Dichloropropene | 20.0 | 18.4 | | ug/L | | 92 | 67 - 120 |
| Trichloroethene | 20.0 | 18.4 | | ug/L | | 92 | 80 - 120 |
| Trichlorofluoromethane | 20.0 | 16.4 | | ug/L | | 82 | 55 - 135 |
| Vinyl chloride | 20.0 | 17.8 | | ug/L | | 89 | 56 - 120 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *99* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *80 - 120* |
| *Toluene-d8 (Surr)* | *98* | | *80 - 120* |

**Lab Sample ID: LCSD 410-121940/5**
**Matrix: Water**
**Analysis Batch: 121940**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 20.0 | 17.4 | | ug/L | | 87 | 78 - 120 | 1 | 30 |
| 1,1,1-Trichloroethane | 20.0 | 16.7 | | ug/L | | 83 | 67 - 126 | 4 | 30 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 21.6 | | ug/L | | 108 | 72 - 120 | 7 | 30 |
| 1,1,2-Trichloroethane | 20.0 | 19.5 | | ug/L | | 98 | 80 - 120 | 3 | 30 |
| 1,1-Dichloroethane | 20.0 | 18.0 | | ug/L | | 90 | 80 - 120 | 4 | 30 |
| 1,1-Dichloroethene | 20.0 | 20.7 | | ug/L | | 103 | 80 - 131 | 1 | 30 |
| 1,1-Dichloropropene | 20.0 | 17.7 | | ug/L | | 88 | 78 - 120 | 1 | 30 |
| 1,2,3-Trichlorobenzene | 20.0 | 18.0 | | ug/L | | 90 | 66 - 120 | 1 | 30 |
| 1,2,3-Trichloropropane | 20.0 | 20.2 | | ug/L | | 101 | 75 - 124 | 3 | 30 |
| 1,2,4-Trichlorobenzene | 20.0 | 17.5 | | ug/L | | 87 | 63 - 120 | 3 | 30 |
| 1,2,4-Trimethylbenzene | 20.0 | 19.7 | | ug/L | | 98 | 75 - 120 | 5 | 30 |
| 1,2-Dibromo-3-Chloropropane | 20.0 | 19.5 | | ug/L | | 98 | 47 - 131 | 4 | 30 |
| 1,2-Dibromoethane | 20.0 | 18.5 | | ug/L | | 93 | 77 - 120 | 0 | 30 |
| 1,2-Dichlorobenzene | 20.0 | 19.1 | | ug/L | | 95 | 80 - 120 | 2 | 30 |
| 1,2-Dichloroethane | 20.0 | 16.7 | | ug/L | | 84 | 73 - 124 | 1 | 30 |
| 1,2-Dichloropropane | 20.0 | 18.4 | | ug/L | | 92 | 80 - 120 | 2 | 30 |
| 1,3,5-Trimethylbenzene | 20.0 | 19.6 | | ug/L | | 98 | 75 - 120 | 4 | 30 |
| 1,3-Dichlorobenzene | 20.0 | 18.7 | | ug/L | | 93 | 80 - 120 | 1 | 30 |
| 1,3-Dichloropropane | 20.0 | 19.0 | | ug/L | | 95 | 80 - 120 | 4 | 30 |
| 1,4-Dichlorobenzene | 20.0 | 18.7 | | ug/L | | 94 | 80 - 120 | 1 | 30 |
| 2,2-Dichloropropane | 20.0 | 16.5 | | ug/L | | 82 | 55 - 142 | 2 | 30 |
| 2-Butanone | 150 | 145 | | ug/L | | 97 | 59 - 135 | 6 | 30 |
| 2-Chloroethyl vinyl ether | 20.0 | 17.4 | | ug/L | | 87 | 49 - 124 | 6 | 30 |
| 2-Chlorotoluene | 20.0 | 18.9 | | ug/L | | 94 | 80 - 120 | 1 | 30 |
| 2-Hexanone | 100 | 94.1 | | ug/L | | 94 | 56 - 135 | 6 | 30 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 410-121940/5**
**Matrix: Water**
**Analysis Batch: 121940**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 4-Chlorotoluene | 20.0 | 18.6 | | ug/L | | 93 | 80 - 120 | 1 | 30 |
| 4-Methyl-2-pentanone | 100 | 90.9 | | ug/L | | 91 | 62 - 133 | 2 | 30 |
| Acetone | 150 | 143 | | ug/L | | 96 | 54 - 157 | 2 | 30 |
| Benzene | 20.0 | 19.1 | | ug/L | | 95 | 80 - 120 | 3 | 30 |
| Bromobenzene | 20.0 | 18.8 | | ug/L | | 94 | 80 - 120 | 0 | 30 |
| Bromochloromethane | 20.0 | 17.3 | | ug/L | | 86 | 80 - 120 | 4 | 30 |
| Bromodichloromethane | 20.0 | 17.6 | | ug/L | | 88 | 71 - 120 | 1 | 30 |
| Bromoform | 20.0 | 16.7 | | ug/L | | 84 | 51 - 120 | 3 | 30 |
| Bromomethane | 20.0 | 18.9 | | ug/L | | 95 | 53 - 128 | 3 | 30 |
| Carbon disulfide | 20.0 | 20.7 | | ug/L | | 104 | 65 - 128 | 2 | 30 |
| Carbon tetrachloride | 20.0 | 16.5 | | ug/L | | 83 | 64 - 134 | 5 | 30 |
| Chlorobenzene | 20.0 | 18.7 | | ug/L | | 93 | 80 - 120 | 1 | 30 |
| Chloroethane | 20.0 | 18.3 | | ug/L | | 92 | 55 - 123 | 5 | 30 |
| Chloroform | 20.0 | 17.9 | | ug/L | | 89 | 80 - 120 | 1 | 30 |
| Chloromethane | 20.0 | 16.9 | | ug/L | | 84 | 56 - 121 | 5 | 30 |
| cis-1,2-Dichloroethene | 20.0 | 19.2 | | ug/L | | 96 | 80 - 125 | 0 | 30 |
| cis-1,3-Dichloropropene | 20.0 | 18.6 | | ug/L | | 93 | 75 - 120 | 2 | 30 |
| Dibromochloromethane | 20.0 | 17.8 | | ug/L | | 89 | 71 - 120 | 1 | 30 |
| Dibromomethane | 20.0 | 18.1 | | ug/L | | 91 | 80 - 120 | 0 | 30 |
| Dichlorodifluoromethane | 20.0 | 15.7 | | ug/L | | 78 | 41 - 127 | 3 | 30 |
| di-Isopropyl ether | 20.0 | 17.9 | | ug/L | | 89 | 70 - 124 | 4 | 30 |
| Ethanol | 1000 | 1030 | | ug/L | | 103 | 31 - 180 | 7 | 30 |
| Ethyl t-butyl ether | 20.0 | 18.4 | | ug/L | | 92 | 68 - 121 | 2 | 30 |
| Ethylbenzene | 20.0 | 18.6 | | ug/L | | 93 | 80 - 120 | 3 | 30 |
| Freon 113 | 20.0 | 19.1 | | ug/L | | 96 | 73 - 139 | 2 | 30 |
| Hexachlorobutadiene | 20.0 | 15.6 | | ug/L | | 78 | 63 - 120 | 3 | 30 |
| Isopropylbenzene | 20.0 | 17.9 | | ug/L | | 89 | 80 - 120 | 2 | 30 |
| m&p-Xylene | 40.0 | 37.0 | | ug/L | | 93 | 80 - 120 | 2 | 30 |
| Methyl tertiary butyl ether | 20.0 | 18.8 | | ug/L | | 94 | 69 - 122 | 1 | 30 |
| Methylene Chloride | 20.0 | 19.9 | | ug/L | | 100 | 80 - 120 | 1 | 30 |
| Naphthalene | 20.0 | 19.8 | | ug/L | | 99 | 53 - 124 | 0 | 30 |
| n-Butylbenzene | 20.0 | 18.6 | | ug/L | | 93 | 76 - 120 | 4 | 30 |
| n-Propylbenzene | 20.0 | 19.4 | | ug/L | | 97 | 79 - 121 | 4 | 30 |
| o-Xylene | 20.0 | 18.4 | | ug/L | | 92 | 80 - 120 | 1 | 30 |
| p-Isopropyltoluene | 20.0 | 19.3 | | ug/L | | 96 | 76 - 120 | 4 | 30 |
| sec-Butylbenzene | 20.0 | 19.2 | | ug/L | | 96 | 77 - 120 | 5 | 30 |
| Styrene | 20.0 | 18.3 | | ug/L | | 92 | 80 - 120 | 2 | 30 |
| t-Amyl methyl ether | 20.0 | 18.6 | | ug/L | | 93 | 66 - 120 | 1 | 30 |
| t-Butyl alcohol | 200 | 184 | | ug/L | | 92 | 60 - 130 | 13 | 30 |
| tert-Butylbenzene | 20.0 | 18.3 | | ug/L | | 91 | 78 - 120 | 5 | 30 |
| Tetrachloroethene | 20.0 | 17.0 | | ug/L | | 85 | 80 - 120 | 3 | 30 |
| Toluene | 20.0 | 19.0 | | ug/L | | 95 | 80 - 120 | 3 | 30 |
| trans-1,2-Dichloroethene | 20.0 | 19.2 | | ug/L | | 96 | 80 - 126 | 0 | 30 |
| trans-1,3-Dichloropropene | 20.0 | 19.0 | | ug/L | | 95 | 67 - 120 | 3 | 30 |
| Trichloroethene | 20.0 | 18.1 | | ug/L | | 91 | 80 - 120 | 1 | 30 |
| Trichlorofluoromethane | 20.0 | 15.8 | | ug/L | | 79 | 55 - 135 | 4 | 30 |
| Vinyl chloride | 20.0 | 18.3 | | ug/L | | 91 | 56 - 120 | 3 | 30 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 410-121940/5**
**Matrix: Water**
**Analysis Batch: 121940**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *94* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *80 - 120* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* |

**Lab Sample ID: MB 410-122159/7**
**Matrix: Water**
**Analysis Batch: 122159**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 12:05 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 3.0 | ug/L | | | 05/04/21 12:05 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 12:05 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 12:05 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 1.0 | ug/L | | | 05/04/21 12:05 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 12:05 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 12:05 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| 2-Butanone | ND | | 10 | 1.0 | ug/L | | | 05/04/21 12:05 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 10 | 0.40 | ug/L | | | 05/04/21 12:05 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| 2-Hexanone | ND | | 10 | 3.0 | ug/L | | | 05/04/21 12:05 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 0.50 | ug/L | | | 05/04/21 12:05 | 1 |
| Acetone | ND | | 20 | 0.80 | ug/L | | | 05/04/21 12:05 | 1 |
| Benzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| Bromobenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| Bromochloromethane | ND | | 5.0 | 0.40 | ug/L | | | 05/04/21 12:05 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| Bromoform | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 12:05 | 1 |
| Bromomethane | ND | | 1.0 | 0.50 | ug/L | | | 05/04/21 12:05 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 12:05 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| Chloroethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 12:05 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 410-122159/7**
**Matrix: Water**
**Analysis Batch: 122159**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| Chloromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 12:05 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 12:05 | 1 |
| Dibromomethane | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 12:05 | 1 |
| di-Isopropyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| Ethanol | ND | | 500 | 140 | ug/L | | | 05/04/21 12:05 | 1 |
| Ethyl t-butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| Freon 113 | ND | | 10 | 2.0 | ug/L | | | 05/04/21 12:05 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 2.0 | ug/L | | | 05/04/21 12:05 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 05/04/21 12:05 | 1 |
| m&p-Xylene | ND | | 2.0 | 0.50 | ug/L | | | 05/04/21 12:05 | 1 |
| Methyl tertiary butyl ether | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| Naphthalene | ND | | 10 | 4.0 | ug/L | | | 05/04/21 12:05 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.90 | ug/L | | | 05/04/21 12:05 | 1 |
| n-Propylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| o-Xylene | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 12:05 | 1 |
| p-Isopropyltoluene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| Styrene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| t-Amyl methyl ether | ND | | 1.0 | 0.30 | ug/L | | | 05/04/21 12:05 | 1 |
| t-Butyl alcohol | ND | | 25 | 10 | ug/L | | | 05/04/21 12:05 | 1 |
| tert-Butylbenzene | ND | | 5.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 12:05 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 05/04/21 12:05 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 12:05 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.40 | ug/L | | | 05/04/21 12:05 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *80 - 120* | | *05/04/21 12:05* | *1* |
| *Dibromofluoromethane (Surr)* | *95* | | *80 - 120* | | *05/04/21 12:05* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* | | *05/04/21 12:05* | *1* |
| *Toluene-d8 (Surr)* | *103* | | *80 - 120* | | *05/04/21 12:05* | *1* |

**Lab Sample ID: LCS 410-122159/4**
**Matrix: Water**
**Analysis Batch: 122159**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 20.0 | 19.3 | | ug/L | | 97 | 78 - 120 |
| 1,1,1-Trichloroethane | 20.0 | 17.3 | | ug/L | | 86 | 67 - 126 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 410-122159/4**
**Matrix: Water**
**Analysis Batch: 122159**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 20.0 | 20.8 | | ug/L | | 104 | 72 - 120 |
| 1,1,2-Trichloroethane | 20.0 | 20.0 | | ug/L | | 100 | 80 - 120 |
| 1,1-Dichloroethane | 20.0 | 17.7 | | ug/L | | 89 | 80 - 120 |
| 1,1-Dichloroethene | 20.0 | 20.3 | | ug/L | | 102 | 80 - 131 |
| 1,1-Dichloropropene | 20.0 | 17.8 | | ug/L | | 89 | 78 - 120 |
| 1,2,3-Trichlorobenzene | 20.0 | 18.4 | | ug/L | | 92 | 66 - 120 |
| 1,2,3-Trichloropropane | 20.0 | 20.5 | | ug/L | | 102 | 75 - 124 |
| 1,2,4-Trichlorobenzene | 20.0 | 18.0 | | ug/L | | 90 | 63 - 120 |
| 1,2,4-Trimethylbenzene | 20.0 | 19.5 | | ug/L | | 98 | 75 - 120 |
| 1,2-Dibromo-3-Chloropropane | 20.0 | 19.0 | | ug/L | | 95 | 47 - 131 |
| 1,2-Dibromoethane | 20.0 | 19.3 | | ug/L | | 97 | 77 - 120 |
| 1,2-Dichlorobenzene | 20.0 | 19.5 | | ug/L | | 97 | 80 - 120 |
| 1,2-Dichloroethane | 20.0 | 17.0 | | ug/L | | 85 | 73 - 124 |
| 1,2-Dichloropropane | 20.0 | 17.9 | | ug/L | | 90 | 80 - 120 |
| 1,3,5-Trimethylbenzene | 20.0 | 19.7 | | ug/L | | 99 | 75 - 120 |
| 1,3-Dichlorobenzene | 20.0 | 19.9 | | ug/L | | 99 | 80 - 120 |
| 1,3-Dichloropropane | 20.0 | 19.7 | | ug/L | | 99 | 80 - 120 |
| 1,4-Dichlorobenzene | 20.0 | 19.9 | | ug/L | | 100 | 80 - 120 |
| 2,2-Dichloropropane | 20.0 | 16.4 | | ug/L | | 82 | 55 - 142 |
| 2-Butanone | 150 | 138 | | ug/L | | 92 | 59 - 135 |
| 2-Chloroethyl vinyl ether | 20.0 | 17.1 | | ug/L | | 85 | 49 - 124 |
| 2-Chlorotoluene | 20.0 | 19.5 | | ug/L | | 98 | 80 - 120 |
| 2-Hexanone | 100 | 96.0 | | ug/L | | 96 | 56 - 135 |
| 4-Chlorotoluene | 20.0 | 19.5 | | ug/L | | 98 | 80 - 120 |
| 4-Methyl-2-pentanone | 100 | 88.0 | | ug/L | | 88 | 62 - 133 |
| Acetone | 150 | 139 | | ug/L | | 93 | 54 - 157 |
| Benzene | 20.0 | 18.6 | | ug/L | | 93 | 80 - 120 |
| Bromobenzene | 20.0 | 18.8 | | ug/L | | 94 | 80 - 120 |
| Bromochloromethane | 20.0 | 17.4 | | ug/L | | 87 | 80 - 120 |
| Bromodichloromethane | 20.0 | 17.6 | | ug/L | | 88 | 71 - 120 |
| Bromoform | 20.0 | 17.2 | | ug/L | | 86 | 51 - 120 |
| Bromomethane | 20.0 | 18.9 | | ug/L | | 94 | 53 - 128 |
| Carbon disulfide | 20.0 | 20.5 | | ug/L | | 102 | 65 - 128 |
| Carbon tetrachloride | 20.0 | 17.4 | | ug/L | | 87 | 64 - 134 |
| Chlorobenzene | 20.0 | 19.7 | | ug/L | | 98 | 80 - 120 |
| Chloroethane | 20.0 | 18.3 | | ug/L | | 91 | 55 - 123 |
| Chloroform | 20.0 | 17.8 | | ug/L | | 89 | 80 - 120 |
| Chloromethane | 20.0 | 17.1 | | ug/L | | 85 | 56 - 121 |
| cis-1,2-Dichloroethene | 20.0 | 19.0 | | ug/L | | 95 | 80 - 125 |
| cis-1,3-Dichloropropene | 20.0 | 18.0 | | ug/L | | 90 | 75 - 120 |
| Dibromochloromethane | 20.0 | 18.6 | | ug/L | | 93 | 71 - 120 |
| Dibromomethane | 20.0 | 18.0 | | ug/L | | 90 | 80 - 120 |
| Dichlorodifluoromethane | 20.0 | 15.3 | | ug/L | | 76 | 41 - 127 |
| di-Isopropyl ether | 20.0 | 17.0 | | ug/L | | 85 | 70 - 124 |
| Ethanol | 1000 | 1090 | | ug/L | | 109 | 31 - 180 |
| Ethyl t-butyl ether | 20.0 | 17.6 | | ug/L | | 88 | 68 - 121 |
| Ethylbenzene | 20.0 | 19.9 | | ug/L | | 99 | 80 - 120 |
| Freon 113 | 20.0 | 19.1 | | ug/L | | 95 | 73 - 139 |
| Hexachlorobutadiene | 20.0 | 16.7 | | ug/L | | 83 | 63 - 120 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 410-122159/4**
**Matrix: Water**
**Analysis Batch: 122159**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 20.0 | 18.7 | | ug/L | | 94 | 80 - 120 |
| m&p-Xylene | 40.0 | 39.2 | | ug/L | | 98 | 80 - 120 |
| Methyl tertiary butyl ether | 20.0 | 18.1 | | ug/L | | 90 | 69 - 122 |
| Methylene Chloride | 20.0 | 19.5 | | ug/L | | 98 | 80 - 120 |
| Naphthalene | 20.0 | 19.9 | | ug/L | | 100 | 53 - 124 |
| n-Butylbenzene | 20.0 | 19.5 | | ug/L | | 97 | 76 - 120 |
| n-Propylbenzene | 20.0 | 19.7 | | ug/L | | 99 | 79 - 121 |
| o-Xylene | 20.0 | 19.5 | | ug/L | | 98 | 80 - 120 |
| p-Isopropyltoluene | 20.0 | 20.3 | | ug/L | | 102 | 76 - 120 |
| sec-Butylbenzene | 20.0 | 19.6 | | ug/L | | 98 | 77 - 120 |
| Styrene | 20.0 | 19.3 | | ug/L | | 97 | 80 - 120 |
| t-Amyl methyl ether | 20.0 | 17.9 | | ug/L | | 90 | 66 - 120 |
| t-Butyl alcohol | 200 | 195 | | ug/L | | 97 | 60 - 130 |
| tert-Butylbenzene | 20.0 | 18.1 | | ug/L | | 90 | 78 - 120 |
| Tetrachloroethene | 20.0 | 18.8 | | ug/L | | 94 | 80 - 120 |
| Toluene | 20.0 | 20.1 | | ug/L | | 101 | 80 - 120 |
| trans-1,2-Dichloroethene | 20.0 | 19.0 | | ug/L | | 95 | 80 - 126 |
| trans-1,3-Dichloropropene | 20.0 | 19.6 | | ug/L | | 98 | 67 - 120 |
| Trichloroethene | 20.0 | 18.1 | | ug/L | | 91 | 80 - 120 |
| Trichlorofluoromethane | 20.0 | 16.5 | | ug/L | | 82 | 55 - 135 |
| Vinyl chloride | 20.0 | 18.4 | | ug/L | | 92 | 56 - 120 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *94* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *80 - 120* |
| *Toluene-d8 (Surr)* | *105* | | *80 - 120* |

**Lab Sample ID: LCSD 410-122159/5**
**Matrix: Water**
**Analysis Batch: 122159**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 20.0 | 19.9 | | ug/L | | 99 | 78 - 120 | 3 | 30 |
| 1,1,1-Trichloroethane | 20.0 | 18.1 | | ug/L | | 90 | 67 - 126 | 4 | 30 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 22.9 | | ug/L | | 115 | 72 - 120 | 9 | 30 |
| 1,1,2-Trichloroethane | 20.0 | 20.5 | | ug/L | | 103 | 80 - 120 | 3 | 30 |
| 1,1-Dichloroethane | 20.0 | 18.4 | | ug/L | | 92 | 80 - 120 | 4 | 30 |
| 1,1-Dichloroethene | 20.0 | 21.5 | | ug/L | | 107 | 80 - 131 | 6 | 30 |
| 1,1-Dichloropropene | 20.0 | 18.6 | | ug/L | | 93 | 78 - 120 | 5 | 30 |
| 1,2,3-Trichlorobenzene | 20.0 | 19.6 | | ug/L | | 98 | 66 - 120 | 7 | 30 |
| 1,2,3-Trichloropropane | 20.0 | 21.9 | | ug/L | | 109 | 75 - 124 | 7 | 30 |
| 1,2,4-Trichlorobenzene | 20.0 | 20.2 | | ug/L | | 101 | 63 - 120 | 12 | 30 |
| 1,2,4-Trimethylbenzene | 20.0 | 21.8 | | ug/L | | 109 | 75 - 120 | 11 | 30 |
| 1,2-Dibromo-3-Chloropropane | 20.0 | 20.5 | | ug/L | | 103 | 47 - 131 | 8 | 30 |
| 1,2-Dibromoethane | 20.0 | 20.0 | | ug/L | | 100 | 77 - 120 | 3 | 30 |
| 1,2-Dichlorobenzene | 20.0 | 20.8 | | ug/L | | 104 | 80 - 120 | 7 | 30 |
| 1,2-Dichloroethane | 20.0 | 17.0 | | ug/L | | 85 | 73 - 124 | 0 | 30 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 410-122159/5**
**Matrix: Water**
**Analysis Batch: 122159**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 20.0 | 18.6 | | ug/L | | 93 | 80 - 120 | 4 | 30 |
| 1,3,5-Trimethylbenzene | 20.0 | 21.9 | | ug/L | | 109 | 75 - 120 | 11 | 30 |
| 1,3-Dichlorobenzene | 20.0 | 20.7 | | ug/L | | 104 | 80 - 120 | 4 | 30 |
| 1,3-Dichloropropane | 20.0 | 20.4 | | ug/L | | 102 | 80 - 120 | 3 | 30 |
| 1,4-Dichlorobenzene | 20.0 | 20.5 | | ug/L | | 103 | 80 - 120 | 3 | 30 |
| 2,2-Dichloropropane | 20.0 | 17.3 | | ug/L | | 86 | 55 - 142 | 5 | 30 |
| 2-Butanone | 150 | 141 | | ug/L | | 94 | 59 - 135 | 2 | 30 |
| 2-Chloroethyl vinyl ether | 20.0 | 17.5 | | ug/L | | 88 | 49 - 124 | 2 | 30 |
| 2-Chlorotoluene | 20.0 | 21.1 | | ug/L | | 105 | 80 - 120 | 8 | 30 |
| 2-Hexanone | 100 | 98.2 | | ug/L | | 98 | 56 - 135 | 2 | 30 |
| 4-Chlorotoluene | 20.0 | 21.2 | | ug/L | | 106 | 80 - 120 | 9 | 30 |
| 4-Methyl-2-pentanone | 100 | 88.3 | | ug/L | | 88 | 62 - 133 | 0 | 30 |
| Acetone | 150 | 144 | | ug/L | | 96 | 54 - 157 | 3 | 30 |
| Benzene | 20.0 | 19.3 | | ug/L | | 96 | 80 - 120 | 3 | 30 |
| Bromobenzene | 20.0 | 20.4 | | ug/L | | 102 | 80 - 120 | 8 | 30 |
| Bromochloromethane | 20.0 | 18.1 | | ug/L | | 91 | 80 - 120 | 4 | 30 |
| Bromodichloromethane | 20.0 | 17.8 | | ug/L | | 89 | 71 - 120 | 1 | 30 |
| Bromoform | 20.0 | 18.0 | | ug/L | | 90 | 51 - 120 | 5 | 30 |
| Bromomethane | 20.0 | 19.7 | | ug/L | | 98 | 53 - 128 | 4 | 30 |
| Carbon disulfide | 20.0 | 20.9 | | ug/L | | 104 | 65 - 128 | 2 | 30 |
| Carbon tetrachloride | 20.0 | 17.7 | | ug/L | | 89 | 64 - 134 | 2 | 30 |
| Chlorobenzene | 20.0 | 20.5 | | ug/L | | 102 | 80 - 120 | 4 | 30 |
| Chloroethane | 20.0 | 18.8 | | ug/L | | 94 | 55 - 123 | 3 | 30 |
| Chloroform | 20.0 | 18.6 | | ug/L | | 93 | 80 - 120 | 4 | 30 |
| Chloromethane | 20.0 | 18.1 | | ug/L | | 91 | 56 - 121 | 6 | 30 |
| cis-1,2-Dichloroethene | 20.0 | 19.7 | | ug/L | | 99 | 80 - 125 | 4 | 30 |
| cis-1,3-Dichloropropene | 20.0 | 18.5 | | ug/L | | 93 | 75 - 120 | 3 | 30 |
| Dibromochloromethane | 20.0 | 18.8 | | ug/L | | 94 | 71 - 120 | 1 | 30 |
| Dibromomethane | 20.0 | 18.2 | | ug/L | | 91 | 80 - 120 | 1 | 30 |
| Dichlorodifluoromethane | 20.0 | 16.2 | | ug/L | | 81 | 41 - 127 | 6 | 30 |
| di-Isopropyl ether | 20.0 | 17.4 | | ug/L | | 87 | 70 - 124 | 2 | 30 |
| Ethanol | 1000 | 1090 | | ug/L | | 109 | 31 - 180 | 0 | 30 |
| Ethyl t-butyl ether | 20.0 | 17.9 | | ug/L | | 90 | 68 - 121 | 2 | 30 |
| Ethylbenzene | 20.0 | 20.8 | | ug/L | | 104 | 80 - 120 | 5 | 30 |
| Freon 113 | 20.0 | 20.2 | | ug/L | | 101 | 73 - 139 | 6 | 30 |
| Hexachlorobutadiene | 20.0 | 17.9 | | ug/L | | 89 | 63 - 120 | 7 | 30 |
| Isopropylbenzene | 20.0 | 19.4 | | ug/L | | 97 | 80 - 120 | 4 | 30 |
| m&p-Xylene | 40.0 | 41.6 | | ug/L | | 104 | 80 - 120 | 6 | 30 |
| Methyl tertiary butyl ether | 20.0 | 18.4 | | ug/L | | 92 | 69 - 122 | 2 | 30 |
| Methylene Chloride | 20.0 | 20.2 | | ug/L | | 101 | 80 - 120 | 4 | 30 |
| Naphthalene | 20.0 | 21.7 | | ug/L | | 109 | 53 - 124 | 9 | 30 |
| n-Butylbenzene | 20.0 | 21.7 | | ug/L | | 108 | 76 - 120 | 11 | 30 |
| n-Propylbenzene | 20.0 | 22.5 | | ug/L | | 112 | 79 - 121 | 13 | 30 |
| o-Xylene | 20.0 | 20.5 | | ug/L | | 103 | 80 - 120 | 5 | 30 |
| p-Isopropyltoluene | 20.0 | 21.5 | | ug/L | | 108 | 76 - 120 | 6 | 30 |
| sec-Butylbenzene | 20.0 | 22.0 | | ug/L | | 110 | 77 - 120 | 11 | 30 |
| Styrene | 20.0 | 20.3 | | ug/L | | 101 | 80 - 120 | 5 | 30 |
| t-Amyl methyl ether | 20.0 | 18.1 | | ug/L | | 91 | 66 - 120 | 1 | 30 |
| t-Butyl alcohol | 200 | 191 | | ug/L | | 96 | 60 - 130 | 2 | 30 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 410-122159/5**
**Matrix: Water**
**Analysis Batch: 122159**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| tert-Butylbenzene | | | 20.0 | 20.5 | | ug/L | | 102 | 78 - 120 | 12 | 30 |
| Tetrachloroethene | | | 20.0 | 20.3 | | ug/L | | 102 | 80 - 120 | 8 | 30 |
| Toluene | | | 20.0 | 21.0 | | ug/L | | 105 | 80 - 120 | 4 | 30 |
| trans-1,2-Dichloroethene | | | 20.0 | 20.1 | | ug/L | | 100 | 80 - 126 | 5 | 30 |
| trans-1,3-Dichloropropene | | | 20.0 | 20.2 | | ug/L | | 101 | 67 - 120 | 3 | 30 |
| Trichloroethene | | | 20.0 | 18.8 | | ug/L | | 94 | 80 - 120 | 4 | 30 |
| Trichlorofluoromethane | | | 20.0 | 17.6 | | ug/L | | 88 | 55 - 135 | 7 | 30 |
| Vinyl chloride | | | 20.0 | 19.4 | | ug/L | | 97 | 56 - 120 | 5 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *95* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *80 - 120* |
| *Toluene-d8 (Surr)* | *106* | | *80 - 120* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: MB 410-119696/4**
**Matrix: Water**
**Analysis Batch: 119696**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | ND | | 100 | 17 | ug/L | | | 04/27/21 20:28 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *94* | | *63 - 135* | | *04/27/21 20:28* | *1* |

**Lab Sample ID: LCS 410-119696/5**
**Matrix: Water**
**Analysis Batch: 119696**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | | | 1100 | 1120 | | ug/L | | 102 | 74 - 120 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *84* | | *63 - 135* |

**Lab Sample ID: LCSD 410-119696/6**
**Matrix: Water**
**Analysis Batch: 119696**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | | | 1100 | 1090 | | ug/L | | 99 | 74 - 120 | 3 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *83* | | *63 - 135* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: MB 410-120197/4**
**Matrix: Water**
**Analysis Batch: 120197**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | ND | | 100 | 17 | ug/L | | | 04/28/21 18:43 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *92* | | *63 - 135* | | *04/28/21 18:43* | *1* |

**Lab Sample ID: LCS 410-120197/5**
**Matrix: Water**
**Analysis Batch: 120197**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | | | 1100 | 1130 | | ug/L | | 102 | 74 - 120 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *93* | | *63 - 135* |

**Lab Sample ID: LCSD 410-120197/6**
**Matrix: Water**
**Analysis Batch: 120197**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C6-C12 (1C) | | | 1100 | 1100 | | ug/L | | 100 | 74 - 120 | 2 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid) (1C)* | *94* | | *63 - 135* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 410-121283/1-A**
**Matrix: Water**
**Analysis Batch: 121710**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 121283**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | ND | | 100 | 45 | ug/L | | 05/01/21 01:43 | 05/03/21 16:57 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *70* | | *50 - 150* | *05/01/21 01:43* | *05/03/21 16:57* | *1* |

**Lab Sample ID: LCS 410-121283/2-A**
**Matrix: Water**
**Analysis Batch: 121710**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 121283**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | | | 602 | 352 | | ug/L | | 58 | 20 - 118 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *76* | | *50 - 150* |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: LCSD 410-121283/3-A**
**Matrix: Water**
**Analysis Batch: 121710**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 121283**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) (1C) | | | 602 | 392 | | ug/L | | 65 | 20 - 118 | 11 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *80* | | *50 - 150* |

**Lab Sample ID: MB 410-121284/1-B**
**Matrix: Water**
**Analysis Batch: 122312**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 121284**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) with Silica Gel clean up (1C) | ND | | 100 | 45 | ug/L | | 05/01/21 01:50 | 05/04/21 19:59 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *64* | | *46 - 130* | *05/01/21 01:50* | *05/04/21 19:59* | *1* |
| *Capric Acid (Surr) (1C)* | *0.3* | | *0 - 1* | *05/01/21 01:50* | *05/04/21 19:59* | *1* |

**Lab Sample ID: LCS 410-121284/2-B**
**Matrix: Water**
**Analysis Batch: 122312**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 121284**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) with Silica Gel clean up (1C) | | | 602 | 291 | | ug/L | | 48 | 12 - 115 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *60* | | *46 - 130* |
| *Capric Acid (Surr) (1C)* | *0.8* | | *0 - 1* |

**Lab Sample ID: LCSD 410-121284/3-B**
**Matrix: Water**
**Analysis Batch: 122312**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 121284**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) with Silica Gel clean up (1C) | | | 602 | 305 | | ug/L | | 51 | 12 - 115 | 5 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *o- terphenyl (Surr) (1C)* | *58* | | *46 - 130* |
| *Capric Acid (Surr) (1C)* | *0.8* | | *0 - 1* |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatgraphy

**Lab Sample ID: MB 410-119861/4**
**Matrix: Water**
**Analysis Batch: 119861**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | ND | | 100 | 50 | ug/L | | | 04/28/21 04:47 | 1 |

**Lab Sample ID: LCS 410-119861/3**
**Matrix: Water**
**Analysis Batch: 119861**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | 750 | 793 | | ug/L | | 106 | 90 - 110 |

**Lab Sample ID: MB 410-119863/4**
**Matrix: Water**
**Analysis Batch: 119863**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | ND | | 100 | 50 | ug/L | | | 04/28/21 04:59 | 1 |

**Lab Sample ID: LCS 410-119863/3**
**Matrix: Water**
**Analysis Batch: 119863**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | 750 | 726 | | ug/L | | 97 | 90 - 110 |

**Lab Sample ID: MB 410-120067/4**
**Matrix: Water**
**Analysis Batch: 120067**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | ND | | 100 | 50 | ug/L | | | 04/29/21 05:00 | 1 |

**Lab Sample ID: LCS 410-120067/3**
**Matrix: Water**
**Analysis Batch: 120067**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | 750 | 709 | | ug/L | | 95 | 90 - 110 |

**Lab Sample ID: 410-37390-5 MS**
**Matrix: Water**
**Analysis Batch: 120067**

**Client Sample ID: MW-6-GW-210426**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | ND | H F1 | 2500 | 3510 | F1 | ug/L | | 140 | 90 - 110 |

**Lab Sample ID: 410-37390-5 DU**
**Matrix: Water**
**Analysis Batch: 120067**

**Client Sample ID: MW-6-GW-210426**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | ND | H F1 | ND | | ug/L | | NC | 15 |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

**Lab Sample ID: MB 410-119858/4**
**Matrix: Water**
**Analysis Batch: 119858**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 1000 | 300 | ug/L | | | 04/28/21 04:44 | 1 |
| Chloride | ND | | 400 | 200 | ug/L | | | 04/28/21 04:44 | 1 |

**Lab Sample ID: LCS 410-119858/3**
**Matrix: Water**
**Analysis Batch: 119858**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Sulfate | 7500 | 7110 | | ug/L | | 95 | 90 - 110 |
| Chloride | 3000 | 2830 | | ug/L | | 94 | 90 - 110 |

**Lab Sample ID: 410-37390-5 DU**
**Matrix: Water**
**Analysis Batch: 119858**

**Client Sample ID: MW-6-GW-210426**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Sulfate | 48000 | | 48300 | | ug/L | | 0 | 15 |

**Lab Sample ID: MB 410-119860/4**
**Matrix: Water**
**Analysis Batch: 119860**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 1000 | 300 | ug/L | | | 04/28/21 04:47 | 1 |
| Chloride | ND | | 400 | 200 | ug/L | | | 04/28/21 04:47 | 1 |

**Lab Sample ID: LCS 410-119860/3**
**Matrix: Water**
**Analysis Batch: 119860**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Sulfate | 7500 | 7990 | | ug/L | | 106 | 90 - 110 |
| Chloride | 3000 | 3140 | | ug/L | | 105 | 90 - 110 |

**Lab Sample ID: MB 410-119862/4**
**Matrix: Water**
**Analysis Batch: 119862**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 1000 | 300 | ug/L | | | 04/28/21 04:59 | 1 |
| Chloride | ND | | 400 | 200 | ug/L | | | 04/28/21 04:59 | 1 |

**Lab Sample ID: LCS 410-119862/3**
**Matrix: Water**
**Analysis Batch: 119862**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Sulfate | 7500 | 7720 | | ug/L | | 103 | 90 - 110 |
| Chloride | 3000 | 3060 | | ug/L | | 102 | 90 - 110 |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 410-37390-11 MS**
**Matrix: Water**
**Analysis Batch: 119862**

**Client Sample ID: MW-13-GW-210426**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 68000 | F1 | 25000 | 102000 | E F1 | ug/L | | 135 | 90 - 110 | | |

**Lab Sample ID: 410-37390-11 DU**
**Matrix: Water**
**Analysis Batch: 119862**

**Client Sample ID: MW-13-GW-210426**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 68000 | F1 | | 68600 | | ug/L | | | | 0.3 | 15 |

**Lab Sample ID: MB 410-120107/4**
**Matrix: Water**
**Analysis Batch: 120107**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 1000 | 300 | ug/L | | | 04/29/21 02:30 | 1 |
| Chloride | ND | | 400 | 200 | ug/L | | | 04/29/21 02:30 | 1 |

**Lab Sample ID: LCS 410-120107/3**
**Matrix: Water**
**Analysis Batch: 120107**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | | 7500 | 7530 | | ug/L | | 100 | 90 - 110 | | |
| Chloride | | | 3000 | 3040 | | ug/L | | 101 | 90 - 110 | | |

## Method: 200.7 Rev 4.4 - Metals (ICP)

**Lab Sample ID: MB 410-119811/1-A**
**Matrix: Water**
**Analysis Batch: 122405**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 119811**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Iron | ND | | 200 | 40 | ug/L | | 04/27/21 22:32 | 05/04/21 17:00 | 1 |

**Lab Sample ID: LCS 410-119811/2-A**
**Matrix: Water**
**Analysis Batch: 122405**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 119811**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Iron | | | 400 | 394 | | ug/L | | 98 | 85 - 115 | | |

**Lab Sample ID: 410-37390-4 MS**
**Matrix: Water**
**Analysis Batch: 122405**

**Client Sample ID: MW-4-GW-210426**
**Prep Type: Total/NA**
**Prep Batch: 119811**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Iron | 77000 | | 400 | 77800 | 4 | ug/L | | 243 | 70 - 130 | | |

## Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

**Lab Sample ID: 410-37390-4 DU**
**Matrix: Water**
**Analysis Batch: 122405**

**Client Sample ID: MW-4-GW-210426**
**Prep Type: Total/NA**
**Prep Batch: 119811**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Iron | 77000 | | | 75100 | | ug/L | | | | 2 | 20 |

**Lab Sample ID: MB 410-119832/1-A**
**Matrix: Water**
**Analysis Batch: 122324**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 119832**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Iron | ND | | 200 | 40 | ug/L | | 04/28/21 01:54 | 05/04/21 14:03 | 1 |

**Lab Sample ID: LCS 410-119832/2-A**
**Matrix: Water**
**Analysis Batch: 122324**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 119832**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Iron | | | 400 | 394 | | ug/L | | 99 | 85 - 115 | | |

**Lab Sample ID: LCSD 410-119832/3-A**
**Matrix: Water**
**Analysis Batch: 122324**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 119832**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Iron | | | 400 | 377 | | ug/L | | 94 | 85 - 115 | 5 | 20 |

## Method: 2320B-2011 - Alkalinity, Total

**Lab Sample ID: MB 410-120654/13**
**Matrix: Water**
**Analysis Batch: 120654**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | ND | | 8000 | 2600 | ug/L | | | 04/28/21 17:30 | 1 |

**Lab Sample ID: MB 410-120654/22**
**Matrix: Water**
**Analysis Batch: 120654**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | ND | | 8000 | 2600 | ug/L | | | 04/28/21 18:41 | 1 |

**Lab Sample ID: MB 410-120654/53**
**Matrix: Water**
**Analysis Batch: 120654**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | ND | | 8000 | 2600 | ug/L | | | 04/28/21 21:57 | 1 |

## Method: 2320B-2011 - Alkalinity, Total (Continued)

**Lab Sample ID: LCS 410-120654/14**
**Matrix: Water**
**Analysis Batch: 120654**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | 189000 | 185000 | | ug/L | | 98 | 82 - 106 |

**Lab Sample ID: LCS 410-120654/25**
**Matrix: Water**
**Analysis Batch: 120654**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | 189000 | 183000 | | ug/L | | 97 | 82 - 106 |

**Lab Sample ID: LCS 410-120654/54**
**Matrix: Water**
**Analysis Batch: 120654**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | 189000 | 185000 | | ug/L | | 98 | 82 - 106 |

**Lab Sample ID: 410-37390-1 MS**
**Matrix: Water**
**Analysis Batch: 120654**

**Client Sample ID: MW-1A-GW-210426**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | 810000 | | 189000 | 819000 | 4 | ug/L | | 6 | 82 - 106 |

**Lab Sample ID: 410-37390-3 MS**
**Matrix: Water**
**Analysis Batch: 120654**

**Client Sample ID: MW-3-GW-210426**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | 1000000 | | 189000 | 1180000 | 4 | ug/L | | 86 | 82 - 106 |

**Lab Sample ID: 410-37390-1 DU**
**Matrix: Water**
**Analysis Batch: 120654**

**Client Sample ID: MW-1A-GW-210426**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | 810000 | | 810000 | | ug/L | | 0.3 | 5 |

**Lab Sample ID: 410-37390-2 DU**
**Matrix: Water**
**Analysis Batch: 120654**

**Client Sample ID: MW-2-GW-210426**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | 350000 | | 354000 | | ug/L | | 0.09 | 5 |

## Method: 2320B-2011 - Alkalinity, Total (Continued)

**Lab Sample ID: 410-37390-3 DU**
**Matrix: Water**
**Analysis Batch: 120654**

**Client Sample ID: MW-3-GW-210426**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | 1000000 | | | 1010000 | | ug/L | | | | 0.1 | 5 |

**Lab Sample ID: 410-37390-4 DU**
**Matrix: Water**
**Analysis Batch: 120654**

**Client Sample ID: MW-4-GW-210426**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Alkalinity as CaCO3 to pH 4.5 | 580000 | | | 580000 | | ug/L | | | | 0.2 | 5 |

## Method: 410.4 - COD

**Lab Sample ID: MB 410-120354/4**
**Matrix: Water**
**Analysis Batch: 120354**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | ND | | 75000 | 25000 | ug/L | | | 04/28/21 14:12 | 1 |

**Lab Sample ID: LCS 410-120354/5**
**Matrix: Water**
**Analysis Batch: 120354**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | | | 500000 | 493000 | | ug/L | | 99 | 94 - 110 | | |

## Method: 5210 B-2011 - BOD, 5-Day

**Lab Sample ID: SCB 410-121437/4**
**Matrix: Water**
**Analysis Batch: 121437**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | SCB Result | SCB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Biochemical Oxygen Demand | 911 | | 0.0010 | 0.0010 | ug/L | | | 04/27/21 15:44 | 1 |

**Lab Sample ID: USB 410-121437/2**
**Matrix: Water**
**Analysis Batch: 121437**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | USB Result | USB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Biochemical Oxygen Demand | ND | | 0.0010 | 0.0010 | ug/L | | | 04/27/21 15:44 | 1 |

**Lab Sample ID: LCS 410-121437/5**
**Matrix: Water**
**Analysis Batch: 121437**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Biochemical Oxygen Demand | | | 198000 | 185000 | | ug/L | | 93 | 85 - 115 | | |

## Method: 5210 B-2011 - BOD, 5-Day (Continued)

**Lab Sample ID: SCB 410-122157/4**
**Matrix: Water**
**Analysis Batch: 122157**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | SCB Result | SCB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Biochemical Oxygen Demand | 914 | | 0.0010 | 0.0010 | ug/L | | | 04/28/21 12:27 | 1 |

**Lab Sample ID: USB 410-122157/2**
**Matrix: Water**
**Analysis Batch: 122157**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | USB Result | USB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Biochemical Oxygen Demand | 53.3 | | 0.0010 | 0.0010 | ug/L | | | 04/28/21 12:27 | 1 |

**Lab Sample ID: LCS 410-122157/5**
**Matrix: Water**
**Analysis Batch: 122157**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Biochemical Oxygen Demand | | | 198000 | 176000 | | ug/L | | 89 | 85 - 115 | | |

## Method: 5310C-2011 - Total Organic Carbon/Persulfate - Ultrav

**Lab Sample ID: MB 410-121341/5**
**Matrix: Water**
**Analysis Batch: 121341**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | 1000 | 500 | ug/L | | | 04/30/21 18:43 | 1 |

**Lab Sample ID: LCS 410-121341/37**
**Matrix: Water**
**Analysis Batch: 121341**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | | | 25000 | 26300 | | ug/L | | 105 | 91 - 113 | | |

**Lab Sample ID: LCS 410-121341/4**
**Matrix: Water**
**Analysis Batch: 121341**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | | | 25000 | 25900 | | ug/L | | 104 | 91 - 113 | | |

**Lab Sample ID: 410-37390-2 MS**
**Matrix: Water**
**Analysis Batch: 121341**

**Client Sample ID: MW-2-GW-210426**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 21000 | | 10000 | 30000 | | ug/L | | 95 | 91 - 113 | | |

## Method: 5310C-2011 - Total Organic Carbon/Persulfate - Ultrav (Continued)

**Lab Sample ID: 410-37390-7 MS**
**Matrix: Water**
**Analysis Batch: 121341**

**Client Sample ID: MW-9-GW-210426**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 1600 | | 10000 | 11700 | | ug/L | | 100 | 91 - 113 | | |

**Lab Sample ID: 410-37390-14 MS**
**Matrix: Water**
**Analysis Batch: 121341**

**Client Sample ID: MW-15-GW-210426**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 960 | J | 10000 | 11500 | | ug/L | | 105 | 91 - 113 | | |

**Lab Sample ID: 410-37390-2 DU**
**Matrix: Water**
**Analysis Batch: 121341**

**Client Sample ID: MW-2-GW-210426**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 21000 | | | 20800 | | ug/L | | | | 1 | 3 |

**Lab Sample ID: 410-37390-7 DU**
**Matrix: Water**
**Analysis Batch: 121341**

**Client Sample ID: MW-9-GW-210426**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 1600 | | | 1640 | | ug/L | | | | 0.06 | 3 |

**Lab Sample ID: 410-37390-14 DU**
**Matrix: Water**
**Analysis Batch: 121341**

**Client Sample ID: MW-15-GW-210426**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 960 | J | | 932 | J | ug/L | | | | 3 | 3 |

## GC/MS VOA

### Analysis Batch: 121940

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-1 | MW-1A-GW-210426 | Total/NA | Water | 8260B | |
| 410-37390-2 | MW-2-GW-210426 | Total/NA | Water | 8260B | |
| 410-37390-3 | MW-3-GW-210426 | Total/NA | Water | 8260B | |
| 410-37390-4 | MW-4-GW-210426 | Total/NA | Water | 8260B | |
| MB 410-121940/7 | Method Blank | Total/NA | Water | 8260B | |
| LCS 410-121940/4 | Lab Control Sample | Total/NA | Water | 8260B | |
| LCSD 410-121940/5 | Lab Control Sample Dup | Total/NA | Water | 8260B | |

### Analysis Batch: 122159

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-5 | MW-6-GW-210426 | Total/NA | Water | 8260B | |
| 410-37390-6 | MW-7-GW-210426 | Total/NA | Water | 8260B | |
| 410-37390-7 | MW-9-GW-210426 | Total/NA | Water | 8260B | |
| 410-37390-8 | MW-10-GW-210426 | Total/NA | Water | 8260B | |
| 410-37390-9 | MW-11-GW-210426 | Total/NA | Water | 8260B | |
| 410-37390-10 | MW-12-GW-210426 | Total/NA | Water | 8260B | |
| 410-37390-11 | MW-13-GW-210426 | Total/NA | Water | 8260B | |
| 410-37390-12 | QA-WQ-210426 | Total/NA | Water | 8260B | |
| 410-37390-13 | MW-14-GW-210426 | Total/NA | Water | 8260B | |
| 410-37390-14 | MW-15-GW-210426 | Total/NA | Water | 8260B | |
| MB 410-122159/7 | Method Blank | Total/NA | Water | 8260B | |
| LCS 410-122159/4 | Lab Control Sample | Total/NA | Water | 8260B | |
| LCSD 410-122159/5 | Lab Control Sample Dup | Total/NA | Water | 8260B | |

## GC VOA

### Analysis Batch: 119696

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-1 | MW-1A-GW-210426 | Total/NA | Water | 8015B | |
| 410-37390-2 | MW-2-GW-210426 | Total/NA | Water | 8015B | |
| 410-37390-4 | MW-4-GW-210426 | Total/NA | Water | 8015B | |
| 410-37390-5 | MW-6-GW-210426 | Total/NA | Water | 8015B | |
| 410-37390-6 | MW-7-GW-210426 | Total/NA | Water | 8015B | |
| 410-37390-7 | MW-9-GW-210426 | Total/NA | Water | 8015B | |
| 410-37390-8 | MW-10-GW-210426 | Total/NA | Water | 8015B | |
| 410-37390-9 | MW-11-GW-210426 | Total/NA | Water | 8015B | |
| 410-37390-10 | MW-12-GW-210426 | Total/NA | Water | 8015B | |
| 410-37390-11 | MW-13-GW-210426 | Total/NA | Water | 8015B | |
| 410-37390-12 | QA-WQ-210426 | Total/NA | Water | 8015B | |
| 410-37390-13 | MW-14-GW-210426 | Total/NA | Water | 8015B | |
| 410-37390-14 | MW-15-GW-210426 | Total/NA | Water | 8015B | |
| MB 410-119696/4 | Method Blank | Total/NA | Water | 8015B | |
| LCS 410-119696/5 | Lab Control Sample | Total/NA | Water | 8015B | |
| LCSD 410-119696/6 | Lab Control Sample Dup | Total/NA | Water | 8015B | |

### Analysis Batch: 120197

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-3 | MW-3-GW-210426 | Total/NA | Water | 8015B | |
| MB 410-120197/4 | Method Blank | Total/NA | Water | 8015B | |
| LCS 410-120197/5 | Lab Control Sample | Total/NA | Water | 8015B | |
| LCSD 410-120197/6 | Lab Control Sample Dup | Total/NA | Water | 8015B | |

## GC Semi VOA

### Prep Batch: 121283

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-1 | MW-1A-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-2 | MW-2-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-3 | MW-3-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-4 | MW-4-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-5 | MW-6-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-6 | MW-7-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-7 | MW-9-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-8 | MW-10-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-9 | MW-11-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-10 | MW-12-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-11 | MW-13-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-13 | MW-14-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-14 | MW-15-GW-210426 | Total/NA | Water | 3510C | |
| MB 410-121283/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 410-121283/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 410-121283/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |

### Prep Batch: 121284

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-1 | MW-1A-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-2 | MW-2-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-3 | MW-3-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-4 | MW-4-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-5 | MW-6-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-6 | MW-7-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-7 | MW-9-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-8 | MW-10-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-9 | MW-11-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-10 | MW-12-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-11 | MW-13-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-13 | MW-14-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-14 | MW-15-GW-210426 | Total/NA | Water | 3510C | |
| MB 410-121284/1-B | Method Blank | Total/NA | Water | 3510C | |
| LCS 410-121284/2-B | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 410-121284/3-B | Lab Control Sample Dup | Total/NA | Water | 3510C | |

### Analysis Batch: 121710

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-1 | MW-1A-GW-210426 | Total/NA | Water | 8015B | 121283 |
| 410-37390-2 | MW-2-GW-210426 | Total/NA | Water | 8015B | 121283 |
| 410-37390-3 | MW-3-GW-210426 | Total/NA | Water | 8015B | 121283 |
| 410-37390-4 | MW-4-GW-210426 | Total/NA | Water | 8015B | 121283 |
| 410-37390-5 | MW-6-GW-210426 | Total/NA | Water | 8015B | 121283 |
| 410-37390-6 | MW-7-GW-210426 | Total/NA | Water | 8015B | 121283 |
| 410-37390-7 | MW-9-GW-210426 | Total/NA | Water | 8015B | 121283 |
| 410-37390-8 | MW-10-GW-210426 | Total/NA | Water | 8015B | 121283 |
| 410-37390-9 | MW-11-GW-210426 | Total/NA | Water | 8015B | 121283 |
| 410-37390-10 | MW-12-GW-210426 | Total/NA | Water | 8015B | 121283 |
| 410-37390-11 | MW-13-GW-210426 | Total/NA | Water | 8015B | 121283 |
| 410-37390-13 | MW-14-GW-210426 | Total/NA | Water | 8015B | 121283 |
| 410-37390-14 | MW-15-GW-210426 | Total/NA | Water | 8015B | 121283 |

## GC Semi VOA (Continued)

### Analysis Batch: 121710 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 410-121283/1-A | Method Blank | Total/NA | Water | 8015B | 121283 |
| LCS 410-121283/2-A | Lab Control Sample | Total/NA | Water | 8015B | 121283 |
| LCSD 410-121283/3-A | Lab Control Sample Dup | Total/NA | Water | 8015B | 121283 |

### Cleanup Batch: 121852

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-1 | MW-1A-GW-210426 | Total/NA | Water | 3630C | 121284 |
| 410-37390-2 | MW-2-GW-210426 | Total/NA | Water | 3630C | 121284 |
| 410-37390-3 | MW-3-GW-210426 | Total/NA | Water | 3630C | 121284 |
| 410-37390-4 | MW-4-GW-210426 | Total/NA | Water | 3630C | 121284 |
| 410-37390-5 | MW-6-GW-210426 | Total/NA | Water | 3630C | 121284 |
| 410-37390-6 | MW-7-GW-210426 | Total/NA | Water | 3630C | 121284 |
| 410-37390-7 | MW-9-GW-210426 | Total/NA | Water | 3630C | 121284 |
| 410-37390-8 | MW-10-GW-210426 | Total/NA | Water | 3630C | 121284 |
| 410-37390-9 | MW-11-GW-210426 | Total/NA | Water | 3630C | 121284 |
| 410-37390-10 | MW-12-GW-210426 | Total/NA | Water | 3630C | 121284 |
| 410-37390-11 | MW-13-GW-210426 | Total/NA | Water | 3630C | 121284 |
| 410-37390-13 | MW-14-GW-210426 | Total/NA | Water | 3630C | 121284 |
| 410-37390-14 | MW-15-GW-210426 | Total/NA | Water | 3630C | 121284 |
| MB 410-121284/1-B | Method Blank | Total/NA | Water | 3630C | 121284 |
| LCS 410-121284/2-B | Lab Control Sample | Total/NA | Water | 3630C | 121284 |
| LCSD 410-121284/3-B | Lab Control Sample Dup | Total/NA | Water | 3630C | 121284 |

### Analysis Batch: 122312

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-1 | MW-1A-GW-210426 | Total/NA | Water | 8015B | 121852 |
| 410-37390-2 | MW-2-GW-210426 | Total/NA | Water | 8015B | 121852 |
| 410-37390-3 | MW-3-GW-210426 | Total/NA | Water | 8015B | 121852 |
| 410-37390-4 | MW-4-GW-210426 | Total/NA | Water | 8015B | 121852 |
| 410-37390-5 | MW-6-GW-210426 | Total/NA | Water | 8015B | 121852 |
| 410-37390-6 | MW-7-GW-210426 | Total/NA | Water | 8015B | 121852 |
| 410-37390-7 | MW-9-GW-210426 | Total/NA | Water | 8015B | 121852 |
| 410-37390-8 | MW-10-GW-210426 | Total/NA | Water | 8015B | 121852 |
| 410-37390-9 | MW-11-GW-210426 | Total/NA | Water | 8015B | 121852 |
| 410-37390-10 | MW-12-GW-210426 | Total/NA | Water | 8015B | 121852 |
| 410-37390-11 | MW-13-GW-210426 | Total/NA | Water | 8015B | 121852 |
| 410-37390-13 | MW-14-GW-210426 | Total/NA | Water | 8015B | 121852 |
| 410-37390-14 | MW-15-GW-210426 | Total/NA | Water | 8015B | 121852 |
| MB 410-121284/1-B | Method Blank | Total/NA | Water | 8015B | 121852 |
| LCS 410-121284/2-B | Lab Control Sample | Total/NA | Water | 8015B | 121852 |
| LCSD 410-121284/3-B | Lab Control Sample Dup | Total/NA | Water | 8015B | 121852 |

### Prep Batch: 123385

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-1 - RE | MW-1A-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-5 - RE | MW-6-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-8 - RE | MW-10-GW-210426 | Total/NA | Water | 3510C | |
| 410-37390-11 - RE | MW-13-GW-210426 | Total/NA | Water | 3510C | |
| MB 410-123385/1-B | Method Blank | Total/NA | Water | 3510C | |
| LCS 410-123385/2-B | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 410-123385/3-B | Lab Control Sample Dup | Total/NA | Water | 3510C | |

## GC Semi VOA

### Cleanup Batch: 123968

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-1 - RE | MW-1A-GW-210426 | Total/NA | Water | 3630C | 123385 |
| 410-37390-5 - RE | MW-6-GW-210426 | Total/NA | Water | 3630C | 123385 |
| 410-37390-8 - RE | MW-10-GW-210426 | Total/NA | Water | 3630C | 123385 |
| 410-37390-11 - RE | MW-13-GW-210426 | Total/NA | Water | 3630C | 123385 |
| MB 410-123385/1-B | Method Blank | Total/NA | Water | 3630C | 123385 |
| LCS 410-123385/2-B | Lab Control Sample | Total/NA | Water | 3630C | 123385 |
| LCSD 410-123385/3-B | Lab Control Sample Dup | Total/NA | Water | 3630C | 123385 |

### Analysis Batch: 124371

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-1 - RE | MW-1A-GW-210426 | Total/NA | Water | 8015B | 123968 |
| 410-37390-5 - RE | MW-6-GW-210426 | Total/NA | Water | 8015B | 123968 |
| 410-37390-8 - RE | MW-10-GW-210426 | Total/NA | Water | 8015B | 123968 |
| 410-37390-11 - RE | MW-13-GW-210426 | Total/NA | Water | 8015B | 123968 |
| MB 410-123385/1-B | Method Blank | Total/NA | Water | 8015B | 123968 |
| LCS 410-123385/2-B | Lab Control Sample | Total/NA | Water | 8015B | 123968 |
| LCSD 410-123385/3-B | Lab Control Sample Dup | Total/NA | Water | 8015B | 123968 |

## HPLC/IC

### Analysis Batch: 119858

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-1 | MW-1A-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-1 | MW-1A-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-2 | MW-2-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-2 | MW-2-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-3 | MW-3-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-3 | MW-3-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-4 | MW-4-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-4 | MW-4-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-5 | MW-6-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-5 | MW-6-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-6 | MW-7-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-6 | MW-7-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-9 | MW-11-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-9 | MW-11-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-10 | MW-12-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-14 | MW-15-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| MB 410-119858/4 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |
| LCS 410-119858/3 | Lab Control Sample | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-5 DU | MW-6-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |

### Analysis Batch: 119860

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-7 | MW-9-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-8 | MW-10-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-8 | MW-10-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| MB 410-119860/4 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |
| LCS 410-119860/3 | Lab Control Sample | Total/NA | Water | EPA 300.0 R2.1 | |

## HPLC/IC

### Analysis Batch: 119861

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-7 | MW-9-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-8 | MW-10-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| MB 410-119861/4 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |
| LCS 410-119861/3 | Lab Control Sample | Total/NA | Water | EPA 300.0 R2.1 | |

### Analysis Batch: 119862

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-11 | MW-13-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-11 | MW-13-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-13 | MW-14-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| MB 410-119862/4 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |
| LCS 410-119862/3 | Lab Control Sample | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-11 MS | MW-13-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-11 DU | MW-13-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |

### Analysis Batch: 119863

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-11 | MW-13-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-13 | MW-14-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| MB 410-119863/4 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |
| LCS 410-119863/3 | Lab Control Sample | Total/NA | Water | EPA 300.0 R2.1 | |

### Analysis Batch: 120067

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-1 | MW-1A-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-2 | MW-2-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-3 | MW-3-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-4 | MW-4-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-5 | MW-6-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-6 | MW-7-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-9 | MW-11-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-10 | MW-12-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-14 | MW-15-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| MB 410-120067/4 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |
| LCS 410-120067/3 | Lab Control Sample | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-5 MS | MW-6-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| 410-37390-5 DU | MW-6-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |

### Analysis Batch: 120107

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-13 | MW-14-GW-210426 | Total/NA | Water | EPA 300.0 R2.1 | |
| MB 410-120107/4 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |
| LCS 410-120107/3 | Lab Control Sample | Total/NA | Water | EPA 300.0 R2.1 | |

## Metals

### Prep Batch: 119811

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-1 | MW-1A-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | |
| 410-37390-2 | MW-2-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | |
| 410-37390-3 | MW-3-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | |

## Metals (Continued)

### Prep Batch: 119811 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-4 | MW-4-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | |
| 410-37390-6 | MW-7-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | |
| 410-37390-7 | MW-9-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | |
| 410-37390-8 | MW-10-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | |
| 410-37390-11 | MW-13-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | |
| MB 410-119811/1-A | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | |
| LCS 410-119811/2-A | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | |
| 410-37390-4 MS | MW-4-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | |
| 410-37390-4 DU | MW-4-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | |

### Prep Batch: 119832

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-5 | MW-6-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | |
| 410-37390-9 | MW-11-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | |
| 410-37390-10 | MW-12-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | |
| 410-37390-13 | MW-14-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | |
| 410-37390-14 | MW-15-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | |
| MB 410-119832/1-A | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | |
| LCS 410-119832/2-A | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | |
| LCSD 410-119832/3-A | Lab Control Sample Dup | Total/NA | Water | 200.7 Rev 4.4 | |

### Analysis Batch: 122324

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-5 | MW-6-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | 119832 |
| 410-37390-9 | MW-11-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | 119832 |
| 410-37390-10 | MW-12-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | 119832 |
| 410-37390-13 | MW-14-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | 119832 |
| 410-37390-14 | MW-15-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | 119832 |
| MB 410-119832/1-A | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | 119832 |
| LCS 410-119832/2-A | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | 119832 |
| LCSD 410-119832/3-A | Lab Control Sample Dup | Total/NA | Water | 200.7 Rev 4.4 | 119832 |

### Analysis Batch: 122405

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-1 | MW-1A-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | 119811 |
| 410-37390-2 | MW-2-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | 119811 |
| 410-37390-3 | MW-3-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | 119811 |
| 410-37390-4 | MW-4-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | 119811 |
| 410-37390-6 | MW-7-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | 119811 |
| 410-37390-7 | MW-9-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | 119811 |
| 410-37390-8 | MW-10-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | 119811 |
| 410-37390-11 | MW-13-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | 119811 |
| MB 410-119811/1-A | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | 119811 |
| LCS 410-119811/2-A | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | 119811 |
| 410-37390-4 MS | MW-4-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | 119811 |
| 410-37390-4 DU | MW-4-GW-210426 | Total/NA | Water | 200.7 Rev 4.4 | 119811 |

## General Chemistry

### Analysis Batch: 120354

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-1 | MW-1A-GW-210426 | Total/NA | Water | 410.4 | |
| 410-37390-2 | MW-2-GW-210426 | Total/NA | Water | 410.4 | |
| 410-37390-3 | MW-3-GW-210426 | Total/NA | Water | 410.4 | |
| 410-37390-4 | MW-4-GW-210426 | Total/NA | Water | 410.4 | |
| 410-37390-5 | MW-6-GW-210426 | Total/NA | Water | 410.4 | |
| 410-37390-6 | MW-7-GW-210426 | Total/NA | Water | 410.4 | |
| 410-37390-7 | MW-9-GW-210426 | Total/NA | Water | 410.4 | |
| 410-37390-8 | MW-10-GW-210426 | Total/NA | Water | 410.4 | |
| 410-37390-9 | MW-11-GW-210426 | Total/NA | Water | 410.4 | |
| 410-37390-10 | MW-12-GW-210426 | Total/NA | Water | 410.4 | |
| 410-37390-11 | MW-13-GW-210426 | Total/NA | Water | 410.4 | |
| 410-37390-13 | MW-14-GW-210426 | Total/NA | Water | 410.4 | |
| 410-37390-14 | MW-15-GW-210426 | Total/NA | Water | 410.4 | |
| MB 410-120354/4 | Method Blank | Total/NA | Water | 410.4 | |
| LCS 410-120354/5 | Lab Control Sample | Total/NA | Water | 410.4 | |

### Analysis Batch: 120654

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-1 | MW-1A-GW-210426 | Total/NA | Water | 2320B-2011 | |
| 410-37390-2 | MW-2-GW-210426 | Total/NA | Water | 2320B-2011 | |
| 410-37390-3 | MW-3-GW-210426 | Total/NA | Water | 2320B-2011 | |
| 410-37390-4 | MW-4-GW-210426 | Total/NA | Water | 2320B-2011 | |
| 410-37390-5 | MW-6-GW-210426 | Total/NA | Water | 2320B-2011 | |
| 410-37390-6 | MW-7-GW-210426 | Total/NA | Water | 2320B-2011 | |
| 410-37390-7 | MW-9-GW-210426 | Total/NA | Water | 2320B-2011 | |
| 410-37390-8 | MW-10-GW-210426 | Total/NA | Water | 2320B-2011 | |
| 410-37390-9 | MW-11-GW-210426 | Total/NA | Water | 2320B-2011 | |
| 410-37390-10 | MW-12-GW-210426 | Total/NA | Water | 2320B-2011 | |
| 410-37390-11 | MW-13-GW-210426 | Total/NA | Water | 2320B-2011 | |
| 410-37390-13 | MW-14-GW-210426 | Total/NA | Water | 2320B-2011 | |
| 410-37390-14 | MW-15-GW-210426 | Total/NA | Water | 2320B-2011 | |
| MB 410-120654/13 | Method Blank | Total/NA | Water | 2320B-2011 | |
| MB 410-120654/22 | Method Blank | Total/NA | Water | 2320B-2011 | |
| MB 410-120654/53 | Method Blank | Total/NA | Water | 2320B-2011 | |
| LCS 410-120654/14 | Lab Control Sample | Total/NA | Water | 2320B-2011 | |
| LCS 410-120654/25 | Lab Control Sample | Total/NA | Water | 2320B-2011 | |
| LCS 410-120654/54 | Lab Control Sample | Total/NA | Water | 2320B-2011 | |
| 410-37390-1 MS | MW-1A-GW-210426 | Total/NA | Water | 2320B-2011 | |
| 410-37390-3 MS | MW-3-GW-210426 | Total/NA | Water | 2320B-2011 | |
| 410-37390-1 DU | MW-1A-GW-210426 | Total/NA | Water | 2320B-2011 | |
| 410-37390-2 DU | MW-2-GW-210426 | Total/NA | Water | 2320B-2011 | |
| 410-37390-3 DU | MW-3-GW-210426 | Total/NA | Water | 2320B-2011 | |
| 410-37390-4 DU | MW-4-GW-210426 | Total/NA | Water | 2320B-2011 | |

### Analysis Batch: 121341

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-1 | MW-1A-GW-210426 | Total/NA | Water | 5310C-2011 | |
| 410-37390-2 | MW-2-GW-210426 | Total/NA | Water | 5310C-2011 | |
| 410-37390-3 | MW-3-GW-210426 | Total/NA | Water | 5310C-2011 | |
| 410-37390-4 | MW-4-GW-210426 | Total/NA | Water | 5310C-2011 | |
| 410-37390-5 | MW-6-GW-210426 | Total/NA | Water | 5310C-2011 | |

## General Chemistry (Continued)

### Analysis Batch: 121341 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-6 | MW-7-GW-210426 | Total/NA | Water | 5310C-2011 | |
| 410-37390-7 | MW-9-GW-210426 | Total/NA | Water | 5310C-2011 | |
| 410-37390-8 | MW-10-GW-210426 | Total/NA | Water | 5310C-2011 | |
| 410-37390-9 | MW-11-GW-210426 | Total/NA | Water | 5310C-2011 | |
| 410-37390-10 | MW-12-GW-210426 | Total/NA | Water | 5310C-2011 | |
| 410-37390-11 | MW-13-GW-210426 | Total/NA | Water | 5310C-2011 | |
| 410-37390-13 | MW-14-GW-210426 | Total/NA | Water | 5310C-2011 | |
| 410-37390-14 | MW-15-GW-210426 | Total/NA | Water | 5310C-2011 | |
| MB 410-121341/5 | Method Blank | Total/NA | Water | 5310C-2011 | |
| LCS 410-121341/37 | Lab Control Sample | Total/NA | Water | 5310C-2011 | |
| LCS 410-121341/4 | Lab Control Sample | Total/NA | Water | 5310C-2011 | |
| 410-37390-2 MS | MW-2-GW-210426 | Total/NA | Water | 5310C-2011 | |
| 410-37390-7 MS | MW-9-GW-210426 | Total/NA | Water | 5310C-2011 | |
| 410-37390-14 MS | MW-15-GW-210426 | Total/NA | Water | 5310C-2011 | |
| 410-37390-2 DU | MW-2-GW-210426 | Total/NA | Water | 5310C-2011 | |
| 410-37390-7 DU | MW-9-GW-210426 | Total/NA | Water | 5310C-2011 | |
| 410-37390-14 DU | MW-15-GW-210426 | Total/NA | Water | 5310C-2011 | |

### Analysis Batch: 121437

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-1 | MW-1A-GW-210426 | Total/NA | Water | 5210 B-2011 | |
| 410-37390-2 | MW-2-GW-210426 | Total/NA | Water | 5210 B-2011 | |
| 410-37390-3 | MW-3-GW-210426 | Total/NA | Water | 5210 B-2011 | |
| 410-37390-4 | MW-4-GW-210426 | Total/NA | Water | 5210 B-2011 | |
| 410-37390-5 | MW-6-GW-210426 | Total/NA | Water | 5210 B-2011 | |
| 410-37390-6 | MW-7-GW-210426 | Total/NA | Water | 5210 B-2011 | |
| 410-37390-7 | MW-9-GW-210426 | Total/NA | Water | 5210 B-2011 | |
| 410-37390-8 | MW-10-GW-210426 | Total/NA | Water | 5210 B-2011 | |
| 410-37390-9 | MW-11-GW-210426 | Total/NA | Water | 5210 B-2011 | |
| 410-37390-10 | MW-12-GW-210426 | Total/NA | Water | 5210 B-2011 | |
| 410-37390-14 | MW-15-GW-210426 | Total/NA | Water | 5210 B-2011 | |
| SCB 410-121437/4 | Method Blank | Total/NA | Water | 5210 B-2011 | |
| USB 410-121437/2 | Method Blank | Total/NA | Water | 5210 B-2011 | |
| LCS 410-121437/5 | Lab Control Sample | Total/NA | Water | 5210 B-2011 | |

### Analysis Batch: 122157

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-37390-11 | MW-13-GW-210426 | Total/NA | Water | 5210 B-2011 | |
| 410-37390-13 | MW-14-GW-210426 | Total/NA | Water | 5210 B-2011 | |
| SCB 410-122157/4 | Method Blank | Total/NA | Water | 5210 B-2011 | |
| USB 410-122157/2 | Method Blank | Total/NA | Water | 5210 B-2011 | |
| LCS 410-122157/5 | Lab Control Sample | Total/NA | Water | 5210 B-2011 | |

# Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

## Client Sample ID: MW-1A-GW-210426

**Lab Sample ID: 410-37390-1**

**Date Collected: 04/26/21 06:40**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 121940 | 05/04/21 05:25 | ULCP | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 119696 | 04/27/21 22:11 | UMDJ | ELLE |
| Total/NA | Prep | 3510C | | | 121283 | 05/01/21 01:43 | UKQ8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 121710 | 05/03/21 18:05 | UHEW | ELLE |
| Total/NA | Prep | 3510C | | | 121284 | 05/01/21 01:50 | UKQ8 | ELLE |
| Total/NA | Cleanup | 3630C | | | 121852 | 05/03/21 17:47 | QQ3P | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 122312 | 05/04/21 21:07 | UHEW | ELLE |
| Total/NA | Prep | 3510C | RE | | 123385 | 05/06/21 16:07 | DN9W | ELLE |
| Total/NA | Cleanup | 3630C | RE | | 123968 | 05/07/21 22:56 | K2IL | ELLE |
| Total/NA | Analysis | 8015B | RE | 1 | 124371 | 05/10/21 14:18 | UHEW | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 119858 | 04/28/21 05:27 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 50 | 119858 | 04/28/21 08:05 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 120067 | 04/29/21 05:42 | GJ35 | ELLE |
| Total/NA | Prep | 200.7 Rev 4.4 | | | 119811 | 04/27/21 22:32 | UJLA | ELLE |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 122405 | 05/04/21 17:38 | WJM9 | ELLE |
| Total/NA | Analysis | 2320B-2011 | | 1 | 120654 | 04/28/21 22:14 | DI9Q | ELLE |
| Total/NA | Analysis | 410.4 | | 5 | 120354 | 04/28/21 14:18 | USAE | ELLE |
| Total/NA | Analysis | 5210 B-2011 | | 1 | 121437 | 04/27/21 17:50 | F8TI | ELLE |
| Total/NA | Analysis | 5310C-2011 | | 1 | 121341 | 05/01/21 01:27 | KGQ6 | ELLE |

## Client Sample ID: MW-2-GW-210426

**Lab Sample ID: 410-37390-2**

**Date Collected: 04/26/21 07:55**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 121940 | 05/04/21 05:48 | ULCP | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 119696 | 04/27/21 22:36 | UMDJ | ELLE |
| Total/NA | Prep | 3510C | | | 121283 | 05/01/21 01:43 | UKQ8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 121710 | 05/03/21 18:28 | UHEW | ELLE |
| Total/NA | Prep | 3510C | | | 121284 | 05/01/21 01:50 | UKQ8 | ELLE |
| Total/NA | Cleanup | 3630C | | | 121852 | 05/03/21 17:47 | QQ3P | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 122312 | 05/04/21 21:29 | UHEW | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 119858 | 04/28/21 05:58 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 50 | 119858 | 04/28/21 08:58 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 120067 | 04/29/21 06:14 | GJ35 | ELLE |
| Total/NA | Prep | 200.7 Rev 4.4 | | | 119811 | 04/27/21 22:32 | UJLA | ELLE |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 122405 | 05/04/21 17:45 | WJM9 | ELLE |
| Total/NA | Analysis | 2320B-2011 | | 1 | 120654 | 04/28/21 22:40 | DI9Q | ELLE |
| Total/NA | Analysis | 410.4 | | 2 | 120354 | 04/28/21 14:20 | USAE | ELLE |
| Total/NA | Analysis | 5210 B-2011 | | 1 | 121437 | 04/27/21 17:50 | F8TI | ELLE |
| Total/NA | Analysis | 5310C-2011 | | 1 | 121341 | 04/30/21 22:24 | KGQ6 | ELLE |

## Client Sample ID: MW-3-GW-210426

**Lab Sample ID: 410-37390-3**

**Date Collected: 04/26/21 07:20**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 121940 | 05/04/21 06:10 | ULCP | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 120197 | 04/28/21 23:26 | UMDJ | ELLE |
| Total/NA | Prep | 3510C | | | 121283 | 05/01/21 01:43 | UKQ8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 121710 | 05/03/21 18:51 | UHEW | ELLE |
| Total/NA | Prep | 3510C | | | 121284 | 05/01/21 01:50 | UKQ8 | ELLE |
| Total/NA | Cleanup | 3630C | | | 121852 | 05/03/21 17:47 | QQ3P | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 122312 | 05/04/21 21:52 | UHEW | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 119858 | 04/28/21 05:48 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 50 | 119858 | 04/28/21 08:47 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 120067 | 04/29/21 06:03 | GJ35 | ELLE |
| Total/NA | Prep | 200.7 Rev 4.4 | | | 119811 | 04/27/21 22:32 | UJLA | ELLE |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 122405 | 05/04/21 17:23 | WJM9 | ELLE |
| Total/NA | Analysis | 2320B-2011 | | 1 | 120654 | 04/28/21 17:47 | DI9Q | ELLE |
| Total/NA | Analysis | 410.4 | | 2 | 120354 | 04/28/21 14:23 | USAE | ELLE |
| Total/NA | Analysis | 5210 B-2011 | | 1 | 121437 | 04/27/21 18:29 | F8TI | ELLE |
| Total/NA | Analysis | 5310C-2011 | | 1 | 121341 | 05/01/21 03:19 | KGQ6 | ELLE |

## Client Sample ID: MW-4-GW-210426

**Lab Sample ID: 410-37390-4**

**Date Collected: 04/26/21 07:07**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 121940 | 05/04/21 06:32 | ULCP | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 119696 | 04/27/21 23:02 | UMDJ | ELLE |
| Total/NA | Prep | 3510C | | | 121283 | 05/01/21 01:43 | UKQ8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 121710 | 05/03/21 19:13 | UHEW | ELLE |
| Total/NA | Prep | 3510C | | | 121284 | 05/01/21 01:50 | UKQ8 | ELLE |
| Total/NA | Cleanup | 3630C | | | 121852 | 05/03/21 17:47 | QQ3P | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 122312 | 05/04/21 22:15 | UHEW | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 119858 | 04/28/21 05:37 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 50 | 119858 | 04/28/21 08:26 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 120067 | 04/29/21 05:53 | GJ35 | ELLE |
| Total/NA | Prep | 200.7 Rev 4.4 | | | 119811 | 04/27/21 22:32 | UJLA | ELLE |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 122405 | 05/04/21 17:06 | WJM9 | ELLE |
| Total/NA | Analysis | 2320B-2011 | | 1 | 120654 | 04/28/21 19:28 | DI9Q | ELLE |
| Total/NA | Analysis | 410.4 | | 2 | 120354 | 04/28/21 14:26 | USAE | ELLE |
| Total/NA | Analysis | 5210 B-2011 | | 1 | 121437 | 04/27/21 18:29 | F8TI | ELLE |
| Total/NA | Analysis | 5310C-2011 | | 1 | 121341 | 05/01/21 03:33 | KGQ6 | ELLE |

## Client Sample ID: MW-6-GW-210426

**Lab Sample ID: 410-37390-5**

**Date Collected: 04/26/21 06:26**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 122159 | 05/04/21 14:18 | LCW8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 119696 | 04/27/21 23:28 | UMDJ | ELLE |
| Total/NA | Prep | 3510C | | | 121283 | 05/01/21 01:43 | UKQ8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 121710 | 05/03/21 19:36 | UHEW | ELLE |
| Total/NA | Prep | 3510C | | | 121284 | 05/01/21 01:50 | UKQ8 | ELLE |
| Total/NA | Cleanup | 3630C | | | 121852 | 05/03/21 17:47 | QQ3P | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 122312 | 05/04/21 22:37 | UHEW | ELLE |
| Total/NA | Prep | 3510C | RE | | 123385 | 05/06/21 16:07 | DN9W | ELLE |
| Total/NA | Cleanup | 3630C | RE | | 123968 | 05/07/21 22:56 | K2IL | ELLE |
| Total/NA | Analysis | 8015B | RE | 1 | 124371 | 05/10/21 14:41 | UHEW | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 119858 | 04/28/21 04:55 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 50 | 119858 | 04/28/21 07:54 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 120067 | 04/29/21 05:11 | GJ35 | ELLE |
| Total/NA | Prep | 200.7 Rev 4.4 | | | 119832 | 04/28/21 01:54 | UJL8 | ELLE |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 122324 | 05/04/21 14:44 | WJM9 | ELLE |
| Total/NA | Analysis | 2320B-2011 | | 1 | 120654 | 04/28/21 23:09 | DI9Q | ELLE |
| Total/NA | Analysis | 410.4 | | 5 | 120354 | 04/28/21 14:29 | USAE | ELLE |
| Total/NA | Analysis | 5210 B-2011 | | 1 | 121437 | 04/27/21 18:29 | F8TI | ELLE |
| Total/NA | Analysis | 5310C-2011 | | 1 | 121341 | 05/01/21 03:47 | KGQ6 | ELLE |

## Client Sample ID: MW-7-GW-210426

**Lab Sample ID: 410-37390-6**

**Date Collected: 04/26/21 08:35**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 122159 | 05/04/21 14:41 | LCW8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 119696 | 04/27/21 23:53 | UMDJ | ELLE |
| Total/NA | Prep | 3510C | | | 121283 | 05/01/21 01:43 | UKQ8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 121710 | 05/03/21 21:52 | UHEW | ELLE |
| Total/NA | Prep | 3510C | | | 121284 | 05/01/21 01:50 | UKQ8 | ELLE |
| Total/NA | Cleanup | 3630C | | | 121852 | 05/03/21 17:47 | QQ3P | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 122312 | 05/04/21 23:00 | UHEW | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 119858 | 04/28/21 06:09 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 50 | 119858 | 04/28/21 09:08 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 120067 | 04/29/21 06:24 | GJ35 | ELLE |
| Total/NA | Prep | 200.7 Rev 4.4 | | | 119811 | 04/27/21 22:32 | UJLA | ELLE |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 122405 | 05/04/21 17:54 | WJM9 | ELLE |
| Total/NA | Analysis | 2320B-2011 | | 1 | 120654 | 04/28/21 23:03 | DI9Q | ELLE |
| Total/NA | Analysis | 410.4 | | 10 | 120354 | 04/28/21 14:31 | USAE | ELLE |
| Total/NA | Analysis | 5210 B-2011 | | 1 | 121437 | 04/27/21 18:29 | F8TI | ELLE |
| Total/NA | Analysis | 5310C-2011 | | 1 | 121341 | 05/01/21 04:01 | KGQ6 | ELLE |

# Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

## Client Sample ID: MW-9-GW-210426

**Lab Sample ID: 410-37390-7**

**Date Collected: 04/26/21 11:13**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 122159 | 05/04/21 15:03 | LCW8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 119696 | 04/28/21 00:19 | UMDJ | ELLE |
| Total/NA | Prep | 3510C | | | 121283 | 05/01/21 01:43 | UKQ8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 121710 | 05/03/21 22:15 | UHEW | ELLE |
| Total/NA | Prep | 3510C | | | 121284 | 05/01/21 01:50 | UKQ8 | ELLE |
| Total/NA | Cleanup | 3630C | | | 121852 | 05/03/21 17:47 | QQ3P | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 122312 | 05/04/21 23:23 | UHEW | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 50 | 119860 | 04/28/21 09:45 | W5UX | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 50 | 119861 | 04/28/21 09:45 | W5UX | ELLE |
| Total/NA | Prep | 200.7 Rev 4.4 | | | 119811 | 04/27/21 22:32 | UJLA | ELLE |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 122405 | 05/04/21 17:51 | WJM9 | ELLE |
| Total/NA | Analysis | 2320B-2011 | | 1 | 120654 | 04/28/21 23:23 | DI9Q | ELLE |
| Total/NA | Analysis | 410.4 | | 2 | 120354 | 04/28/21 14:35 | USAE | ELLE |
| Total/NA | Analysis | 5210 B-2011 | | 1 | 121437 | 04/27/21 19:10 | F8TI | ELLE |
| Total/NA | Analysis | 5310C-2011 | | 1 | 121341 | 05/01/21 02:37 | KGQ6 | ELLE |

## Client Sample ID: MW-10-GW-210426

**Lab Sample ID: 410-37390-8**

**Date Collected: 04/26/21 12:23**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 122159 | 05/04/21 15:25 | LCW8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 119696 | 04/28/21 00:45 | UMDJ | ELLE |
| Total/NA | Prep | 3510C | | | 121283 | 05/01/21 01:43 | UKQ8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 121710 | 05/03/21 22:38 | UHEW | ELLE |
| Total/NA | Prep | 3510C | | | 121284 | 05/01/21 01:50 | UKQ8 | ELLE |
| Total/NA | Cleanup | 3630C | | | 121852 | 05/03/21 17:47 | QQ3P | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 122312 | 05/04/21 23:46 | UHEW | ELLE |
| Total/NA | Prep | 3510C | RE | | 123385 | 05/06/21 16:07 | DN9W | ELLE |
| Total/NA | Cleanup | 3630C | RE | | 123968 | 05/07/21 22:56 | K2IL | ELLE |
| Total/NA | Analysis | 8015B | RE | 1 | 124371 | 05/10/21 15:04 | UHEW | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 119860 | 04/28/21 08:11 | W5UX | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 119861 | 04/28/21 08:11 | W5UX | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 50 | 119860 | 04/28/21 11:18 | W5UX | ELLE |
| Total/NA | Prep | 200.7 Rev 4.4 | | | 119811 | 04/27/21 22:32 | UJLA | ELLE |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 122405 | 05/04/21 17:48 | WJM9 | ELLE |
| Total/NA | Analysis | 2320B-2011 | | 1 | 120654 | 04/28/21 23:16 | DI9Q | ELLE |
| Total/NA | Analysis | 410.4 | | 1 | 120354 | 04/28/21 14:38 | USAE | ELLE |
| Total/NA | Analysis | 5210 B-2011 | | 1 | 121437 | 04/27/21 19:10 | F8TI | ELLE |
| Total/NA | Analysis | 5310C-2011 | | 1 | 121341 | 05/01/21 04:15 | KGQ6 | ELLE |

# Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

## Client Sample ID: MW-11-GW-210426

**Lab Sample ID: 410-37390-9**

**Date Collected: 04/26/21 09:43**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 122159 | 05/04/21 15:47 | LCW8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 119696 | 04/28/21 01:10 | UMDJ | ELLE |
| Total/NA | Prep | 3510C | | | 121283 | 05/01/21 01:43 | UKQ8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 121710 | 05/03/21 23:00 | UHEW | ELLE |
| Total/NA | Prep | 3510C | | | 121284 | 05/01/21 01:50 | UKQ8 | ELLE |
| Total/NA | Cleanup | 3630C | | | 121852 | 05/03/21 17:47 | QQ3P | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 122312 | 05/05/21 00:08 | UHEW | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 119858 | 04/28/21 07:23 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 50 | 119858 | 04/28/21 10:43 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 50 | 120067 | 04/29/21 07:28 | GJ35 | ELLE |
| Total/NA | Prep | 200.7 Rev 4.4 | | | 119832 | 04/28/21 01:54 | UJL8 | ELLE |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 122324 | 05/04/21 14:32 | WJM9 | ELLE |
| Total/NA | Analysis | 2320B-2011 | | 1 | 120654 | 04/28/21 23:35 | DI9Q | ELLE |
| Total/NA | Analysis | 410.4 | | 1 | 120354 | 04/28/21 14:47 | USAE | ELLE |
| Total/NA | Analysis | 5210 B-2011 | | 1 | 121437 | 04/27/21 19:10 | F8TI | ELLE |
| Total/NA | Analysis | 5310C-2011 | | 1 | 121341 | 05/01/21 04:57 | KGQ6 | ELLE |

## Client Sample ID: MW-12-GW-210426

**Lab Sample ID: 410-37390-10**

**Date Collected: 04/26/21 08:52**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 122159 | 05/04/21 16:10 | LCW8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 119696 | 04/28/21 01:36 | UMDJ | ELLE |
| Total/NA | Prep | 3510C | | | 121283 | 05/01/21 01:43 | UKQ8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 121710 | 05/03/21 23:23 | UHEW | ELLE |
| Total/NA | Prep | 3510C | | | 121284 | 05/01/21 01:50 | UKQ8 | ELLE |
| Total/NA | Cleanup | 3630C | | | 121852 | 05/03/21 17:47 | QQ3P | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 122312 | 05/05/21 00:31 | UHEW | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 50 | 119858 | 04/28/21 09:29 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 120067 | 04/29/21 06:56 | GJ35 | ELLE |
| Total/NA | Prep | 200.7 Rev 4.4 | | | 119832 | 04/28/21 01:54 | UJL8 | ELLE |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 122324 | 05/04/21 14:53 | WJM9 | ELLE |
| Total/NA | Analysis | 2320B-2011 | | 1 | 120654 | 04/28/21 23:42 | DI9Q | ELLE |
| Total/NA | Analysis | 410.4 | | 1 | 120354 | 04/28/21 14:50 | USAE | ELLE |
| Total/NA | Analysis | 5210 B-2011 | | 1 | 121437 | 04/27/21 18:29 | F8TI | ELLE |
| Total/NA | Analysis | 5310C-2011 | | 1 | 121341 | 05/01/21 05:11 | KGQ6 | ELLE |

## Client Sample ID: MW-13-GW-210426

**Lab Sample ID: 410-37390-11**

**Date Collected: 04/26/21 13:00**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 122159 | 05/04/21 16:32 | LCW8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 119696 | 04/28/21 02:27 | UMDJ | ELLE |
| Total/NA | Prep | 3510C | | | 121283 | 05/01/21 01:43 | UKQ8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 121710 | 05/03/21 23:45 | UHEW | ELLE |
| Total/NA | Prep | 3510C | | | 121284 | 05/01/21 01:50 | UKQ8 | ELLE |
| Total/NA | Cleanup | 3630C | | | 121852 | 05/03/21 17:47 | QQ3P | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 122312 | 05/05/21 00:54 | UHEW | ELLE |
| Total/NA | Prep | 3510C | RE | | 123385 | 05/06/21 16:07 | DN9W | ELLE |
| Total/NA | Cleanup | 3630C | RE | | 123968 | 05/07/21 22:56 | K2IL | ELLE |
| Total/NA | Analysis | 8015B | RE | 1 | 124371 | 05/10/21 15:26 | UHEW | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 119862 | 04/28/21 05:47 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 50 | 119862 | 04/28/21 10:00 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 50 | 119863 | 04/28/21 10:00 | GJ35 | ELLE |
| Total/NA | Prep | 200.7 Rev 4.4 | | | 119811 | 04/27/21 22:32 | UJLA | ELLE |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 122405 | 05/04/21 17:26 | WJM9 | ELLE |
| Total/NA | Analysis | 2320B-2011 | | 1 | 120654 | 04/28/21 23:54 | DI9Q | ELLE |
| Total/NA | Analysis | 410.4 | | 2 | 120354 | 04/28/21 14:53 | USAE | ELLE |
| Total/NA | Analysis | 5210 B-2011 | | 1 | 122157 | 04/28/21 12:27 | TI24 | ELLE |
| Total/NA | Analysis | 5310C-2011 | | 1 | 121341 | 05/01/21 05:25 | KGQ6 | ELLE |

## Client Sample ID: QA-WQ-210426

**Lab Sample ID: 410-37390-12**

**Date Collected: 04/26/21 06:00**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 122159 | 05/04/21 12:49 | LCW8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 119696 | 04/27/21 21:45 | UMDJ | ELLE |

## Client Sample ID: MW-14-GW-210426

**Lab Sample ID: 410-37390-13**

**Date Collected: 04/26/21 13:47**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 122159 | 05/04/21 16:54 | LCW8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 119696 | 04/28/21 02:53 | UMDJ | ELLE |
| Total/NA | Prep | 3510C | | | 121283 | 05/01/21 01:43 | UKQ8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 121710 | 05/04/21 00:08 | UHEW | ELLE |
| Total/NA | Prep | 3510C | | | 121284 | 05/01/21 01:50 | UKQ8 | ELLE |
| Total/NA | Cleanup | 3630C | | | 121852 | 05/03/21 17:47 | QQ3P | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 122312 | 05/05/21 01:16 | UHEW | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 50 | 120107 | 04/29/21 05:33 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 119862 | 04/28/21 07:17 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 119863 | 04/28/21 07:17 | GJ35 | ELLE |

# Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

## Client Sample ID: MW-14-GW-210426

**Lab Sample ID: 410-37390-13**

**Date Collected: 04/26/21 13:47**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 200.7 Rev 4.4 | | | 119832 | 04/28/21 01:54 | UJL8 | ELLE |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 122324 | 05/04/21 14:47 | WJM9 | ELLE |
| Total/NA | Analysis | 2320B-2011 | | 1 | 120654 | 04/28/21 23:48 | DI9Q | ELLE |
| Total/NA | Analysis | 410.4 | | 1 | 120354 | 04/28/21 14:56 | USAE | ELLE |
| Total/NA | Analysis | 5210 B-2011 | | 1 | 122157 | 04/28/21 12:27 | TI24 | ELLE |
| Total/NA | Analysis | 5310C-2011 | | 1 | 121341 | 05/01/21 05:39 | KGQ6 | ELLE |

## Client Sample ID: MW-15-GW-210426

**Lab Sample ID: 410-37390-14**

**Date Collected: 04/26/21 09:20**

**Matrix: Water**

**Date Received: 04/27/21 11:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 122159 | 05/04/21 17:17 | LCW8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 119696 | 04/28/21 03:19 | UMDJ | ELLE |
| Total/NA | Prep | 3510C | | | 121283 | 05/01/21 01:43 | UKQ8 | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 121710 | 05/04/21 00:30 | UHEW | ELLE |
| Total/NA | Prep | 3510C | | | 121284 | 05/01/21 01:50 | UKQ8 | ELLE |
| Total/NA | Cleanup | 3630C | | | 121852 | 05/03/21 17:47 | QQ3P | ELLE |
| Total/NA | Analysis | 8015B | | 1 | 122312 | 05/05/21 01:39 | UHEW | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | 119858 | 04/28/21 06:51 | GJ35 | ELLE |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 50 | 120067 | 04/29/21 07:17 | GJ35 | ELLE |
| Total/NA | Prep | 200.7 Rev 4.4 | | | 119832 | 04/28/21 01:54 | UJL8 | ELLE |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 122324 | 05/04/21 14:41 | WJM9 | ELLE |
| Total/NA | Analysis | 2320B-2011 | | 1 | 120654 | 04/28/21 23:29 | DI9Q | ELLE |
| Total/NA | Analysis | 410.4 | | 1 | 120354 | 04/28/21 14:59 | USAE | ELLE |
| Total/NA | Analysis | 5210 B-2011 | | 1 | 121437 | 04/27/21 19:10 | F8TI | ELLE |
| Total/NA | Analysis | 5310C-2011 | | 1 | 121341 | 05/01/21 05:53 | KGQ6 | ELLE |

**Laboratory References:**

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

# Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

## Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| California | State | 2792 | 01-31-22 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| 200.7 Rev 4.4 | 200.7 Rev 4.4 | Water | Iron |
| 2320B-2011 | | Water | Total Alkalinity as CaCO3 to pH 4.5 |
| 410.4 | | Water | Chemical Oxygen Demand |
| 5210 B-2011 | | Water | Biochemical Oxygen Demand |
| 5310C-2011 | | Water | Total Organic Carbon |
| 8015B | | Water | C6-C12 (1C) |
| 8015B | 3510C | Water | DRO (C10-C28) (1C) |
| 8015B | 3510C | Water | DRO (C10-C28) with Silica Gel clean up (1C) |
| 8260B | | Water | 1,1,1,2-Tetrachloroethane |
| 8260B | | Water | 1,1,1-Trichloroethane |
| 8260B | | Water | 1,1,2,2-Tetrachloroethane |
| 8260B | | Water | 1,1,2-Trichloroethane |
| 8260B | | Water | 1,1-Dichloroethane |
| 8260B | | Water | 1,1-Dichloroethene |
| 8260B | | Water | 1,1-Dichloropropene |
| 8260B | | Water | 1,2,3-Trichlorobenzene |
| 8260B | | Water | 1,2,3-Trichloropropane |
| 8260B | | Water | 1,2,4-Trichlorobenzene |
| 8260B | | Water | 1,2,4-Trimethylbenzene |
| 8260B | | Water | 1,2-Dibromo-3-Chloropropane |
| 8260B | | Water | 1,2-Dibromoethane |
| 8260B | | Water | 1,2-Dichlorobenzene |
| 8260B | | Water | 1,2-Dichloroethane |
| 8260B | | Water | 1,2-Dichloropropane |
| 8260B | | Water | 1,3,5-Trimethylbenzene |
| 8260B | | Water | 1,3-Dichlorobenzene |
| 8260B | | Water | 1,3-Dichloropropane |
| 8260B | | Water | 1,4-Dichlorobenzene |
| 8260B | | Water | 2,2-Dichloropropane |
| 8260B | | Water | 2-Butanone |
| 8260B | | Water | 2-Chloroethyl vinyl ether |
| 8260B | | Water | 2-Chlorotoluene |
| 8260B | | Water | 2-Hexanone |
| 8260B | | Water | 4-Chlorotoluene |
| 8260B | | Water | 4-Methyl-2-pentanone |
| 8260B | | Water | Acetone |
| 8260B | | Water | Benzene |
| 8260B | | Water | Bromobenzene |
| 8260B | | Water | Bromochloromethane |
| 8260B | | Water | Bromodichloromethane |
| 8260B | | Water | Bromoform |
| 8260B | | Water | Bromomethane |
| 8260B | | Water | Carbon disulfide |
| 8260B | | Water | Carbon tetrachloride |
| 8260B | | Water | Chlorobenzene |

## Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| California | State | 2792 | 01-31-22 |
| 8260B | Water | Chloroethane | |
| 8260B | Water | Chloroform | |
| 8260B | Water | Chloromethane | |
| 8260B | Water | cis-1,2-Dichloroethene | |
| 8260B | Water | cis-1,3-Dichloropropene | |
| 8260B | Water | Dibromochloromethane | |
| 8260B | Water | Dibromomethane | |
| 8260B | Water | Dichlorodifluoromethane | |
| 8260B | Water | di-Isopropyl ether | |
| 8260B | Water | Ethanol | |
| 8260B | Water | Ethyl t-butyl ether | |
| 8260B | Water | Ethylbenzene | |
| 8260B | Water | Freon 113 | |
| 8260B | Water | Hexachlorobutadiene | |
| 8260B | Water | Isopropylbenzene | |
| 8260B | Water | m&p-Xylene | |
| 8260B | Water | Methyl tertiary butyl ether | |
| 8260B | Water | Methylene Chloride | |
| 8260B | Water | Naphthalene | |
| 8260B | Water | n-Butylbenzene | |
| 8260B | Water | n-Propylbenzene | |
| 8260B | Water | o-Xylene | |
| 8260B | Water | p-Isopropyltoluene | |
| 8260B | Water | sec-Butylbenzene | |
| 8260B | Water | Styrene | |
| 8260B | Water | t-Amyl methyl ether | |
| 8260B | Water | t-Butyl alcohol | |
| 8260B | Water | tert-Butylbenzene | |
| 8260B | Water | Tetrachloroethene | |
| 8260B | Water | Toluene | |
| 8260B | Water | trans-1,2-Dichloroethene | |
| 8260B | Water | trans-1,3-Dichloropropene | |
| 8260B | Water | Trichloroethene | |
| 8260B | Water | Trichlorofluoromethane | |
| 8260B | Water | Vinyl chloride | |
| EPA 300.0 R2.1 | Water | Chloride | |
| EPA 300.0 R2.1 | Water | Nitrogen, Nitrate | |
| EPA 300.0 R2.1 | Water | Sulfate | |

# Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | ELLE |
| 8015B | Gasoline Range Organics - (GC) | SW846 | ELLE |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | ELLE |
| EPA 300.0 R2.1 | Anions, Ion Chromatgraphy | EPA | ELLE |
| EPA 300.0 R2.1 | Anions, Ion Chromatography | EPA | ELLE |
| 200.7 Rev 4.4 | Metals (ICP) | EPA | ELLE |
| 2320B-2011 | Alkalinity, Total | SM | ELLE |
| 410.4 | COD | MCAWW | ELLE |
| 5210 B-2011 | BOD, 5-Day | SM | ELLE |
| 5310C-2011 | Total Organic Carbon/Persulfate - Ultrav | SM | ELLE |
| 200.7 Rev 4.4 | Preparation, Total Metals | EPA | ELLE |
| 3510C | Liquid-Liquid Extraction (Separatory Funnel) | SW846 | ELLE |
| 3630C | Silica Gel Cleanup | SW846 | ELLE |
| 5030B | Purge and Trap | SW846 | ELLE |

**Protocol References:**

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

# Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: 206145

Job ID: 410-37390-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 410-37390-1 | MW-1A-GW-210426 | Water | 04/26/21 06:40 | 04/27/21 11:05 | |
| 410-37390-2 | MW-2-GW-210426 | Water | 04/26/21 07:55 | 04/27/21 11:05 | |
| 410-37390-3 | MW-3-GW-210426 | Water | 04/26/21 07:20 | 04/27/21 11:05 | |
| 410-37390-4 | MW-4-GW-210426 | Water | 04/26/21 07:07 | 04/27/21 11:05 | |
| 410-37390-5 | MW-6-GW-210426 | Water | 04/26/21 06:26 | 04/27/21 11:05 | |
| 410-37390-6 | MW-7-GW-210426 | Water | 04/26/21 08:35 | 04/27/21 11:05 | |
| 410-37390-7 | MW-9-GW-210426 | Water | 04/26/21 11:13 | 04/27/21 11:05 | |
| 410-37390-8 | MW-10-GW-210426 | Water | 04/26/21 12:23 | 04/27/21 11:05 | |
| 410-37390-9 | MW-11-GW-210426 | Water | 04/26/21 09:43 | 04/27/21 11:05 | |
| 410-37390-10 | MW-12-GW-210426 | Water | 04/26/21 08:52 | 04/27/21 11:05 | |
| 410-37390-11 | MW-13-GW-210426 | Water | 04/26/21 13:00 | 04/27/21 11:05 | |
| 410-37390-12 | QA-WQ-210426 | Water | 04/26/21 06:00 | 04/27/21 11:05 | |
| 410-37390-13 | MW-14-GW-210426 | Water | 04/26/21 13:47 | 04/27/21 11:05 | |
| 410-37390-14 | MW-15-GW-210426 | Water | 04/26/21 09:20 | 04/27/21 11:05 | |

# Chevron Californi Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

410-37390 Chain of Custody

Acct. # _

Environmental use only
ple # _____

SCR #: _____

**Client Information**

Facility # 206145 | WBS

Site Address: 800 Center Street, Oakland, CA

Chevron PM: Ross LeGrandeur | Lead Consultant

Consultant/Office: Arcadis

Consultant Project Mgr.: Ross LeGrandeur

Sampler: Tomas Moore

State where samples were collected: CA | For Compliance: Yes ☐ No ☐

**Matrix**: Soil ☐ Sediment; Water ☐ Potable ☒ Ground ☐ Surface ☐ NPDES; Oil ☐ Air

**Analyses Requested** — Preservation and Filtration Codes

| Sample Identification | Soil Depth | Collected Date | Collected Time | Grab | Composite | Soil | Water | Oil | Total Number of Containers | Alkalinity Method (SM2320B) | TPH-GRO 8015B ☒ 8260 ☐ | TPH-DRO 8015B without Silica Gel Cleanup | TPH-DRO 8015B with Silica Gel Cleanup | 8260B Full Scan | Nitrate, Sulfate, Chloride Method (300.0) | Chemical Oxygen Demand Method (410.4) | Total Organic Carbon Method (SM5310C) | Biological Oxygen Demend Method (SM5210B) | Iron Method (200.7) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1A | | 4/26/21 | 0640 | X | | | X | | 17 | X | X | X | X | X | X | X | X | X | X |
| MW-2 | | 4/26/21 | 0755 | X | | | X | | | X | X | X | X | X | X | X | X | X | X |
| MW-3 | | | 0720 | X | | | X | | | X | X | X | X | X | X | X | X | X | X |
| MW-4 | | | 0707 | X | | | X | | | X | X | X | X | X | X | X | X | X | X |
| MW-6 | | | 0626 | X | | | X | | | X | X | X | X | X | X | X | X | X | X |
| MW-7 | | | 0835 | X | | | X | | | X | X | X | X | X | X | X | X | X | X |
| MW-9 | | | 1113 | X | | | X | | | X | X | X | X | X | X | X | X | X | X |
| MW-10 | | | ~~1300~~ 1223 | X | | | X | | | X | X | X | X | X | X | X | X | X | X |
| MW-11 | | | 0943 | X | | | X | | | X | X | X | X | X | X | X | X | X | X |
| MW-12 | | | 0852 | X | | | X | | | X | X | X | X | X | X | X | X | X | X |

**Preservation Codes**

H = HCl | T = Thiosulfate
N = $HNO_3$ | B = NaOH
S = $H_2SO_4$ | P = $H_3PO_4$
F = Field Filtered | O = Other

☐ Results in Dry Weight
☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds

**Remarks**

Invoice & Reporting to: Ross.LaGrandeur@arcadis.com

Requesting 10g Cleanup on DRO w/sgc COLUMN samples.

Requesting Chromatograms for TPH-DRO & TPH-GRO range.

**Turnaround Time Requested (TAT)** (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

**Data Package** (circle if required)

Type I - Full | Type III | Type VI (Raw Data)

**EDD** (circle if required)

EDFFLAT (default) | Other: _____

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| [signature] | 4/26/21 | 1500 | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Relinquished by Commercial Carrier: UPS ____ FedEx X Other 8164 9100 4080, 8164 9100 4057, 8164 9100 4079

Temperature Upon Receipt 2045 °C

Custody Seals Intact? Yes No

Received by [signature] Date 4/27/21 Time 1105

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7050 1117



5/11/2021 (Rev. 1)

# Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only
Acct. # _____ Group # _____ Sample # _____

SCR #: _____

**Client Information**

Facility # 206145 WBS

Site Address: 800 Center Street, Oakland, CA

Chevron PM: Ross LeGrandeur Lead Consultant

Consultant/Office: Arcadis

Consultant Project Mgr.: Ross LeGrandeur

Sampler: Tomas Mecone

State where samples were collected: CA For Compliance: Yes ☐ No ☐

| Sample Identification | Soil Depth | Collected Date | Collected Time | Grab | Composite | Soil | Sediment | Water | Ground | Potable | Surface | NPDES | Oil | Air | Total Number of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-13 | | 4/26/21 | 1300 | X | | | | | X | | | | | | 17 |
| QA | | | 0000 | | | | | | | | | | | | 2 |
| MW-14 | | | 1347 | X | | | | | X | | | | | | 17 |
| MW-15 | | | 0920 | X | | | | | X | | | | | | 17 |

**Matrix**: Soil ☐ Sediment ☐ Water ☒ Ground ☐ Potable ☐ Surface ☐ NPDES ☐ Oil ☐ Air

**Analyses Requested** — Preservation and Filtration Codes

| Alkalinity Method (SM2320B) | TPH-GRO 8015B ☒ 8260 ☐ | TPH-DRO 8015B without Silica Gel Cleanup | TPH-DRO 8015B with Silica Gel Cleanup | 8260B Full Scan | Nitrate, Sulfate, Chloride Method (300.0) | Chemical Oxygen Demand Method (410.4) | Total Organic Carbon Method (SM5310C) | Biological Oxygen Demand Method (SM5210B) | Iron Method (200.7) |
|---|---|---|---|---|---|---|---|---|---|
| X | X | X | X | X | X | X | X | X | X |
| | X | | | X | | | | | |
| X | X | X | X | X | X | X | X | X | X |
| X | X | X | X | X | X | X | X | X | X |

**Preservation Codes**

| | |
|---|---|
| H = HCl | T = Thiosulfate |
| N = $HNO_3$ | B = NaOH |
| S = $H_2SO_4$ | P = $H_3PO_4$ |
| F = Field Filtered | O = Other |

☐ Results in Dry Weight

☐ J value reporting needed

☐ Must meet lowest detection limits possible for 8260 compounds

**Remarks**

Invoice & Reporting to: Ross.LaGrandeur@arcadis.com

Requesting 10g Cleanup on DRO w/sgc COLUMN samples.

Requesting Chromatograms for TPH-DRO & TPH-GRO range.

**Turnaround Time Requested (TAT)** (please circle)

(Standard) 5 day 4 day

72 hour 48 hour 24 hour

**Data Package** (circle if required)

Type I - Full Type III Type VI (Raw Data)

**EDD** (circle if required)

EDFFLAT (default) Other: _____

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| | 4/26/21 | 1500 | | | |
| | | | | | |
| | | | | | |
| Relinquished by Commercial Carrier: UPS ___ FedEx X 816491004080 Other 816491004057 816491004079 | | | | 4/27/21 | 1105 |

Temperature Upon Receipt 2.0+1.5 °C

Custody Seals Intact? Yes No

# Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 410-37390-1

**Login Number: 37390**
**List Number: 1**
**Creator: Reiff, Nicole L**

**List Source: Eurofins Lancaster Laboratories Env**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable (</=6C, not frozen). | True | |
| Cooler Temperature is recorded. | True | |
| WV: Container Temperature is acceptable (</=6C, not frozen). | N/A | |
| WV: Container Temperature is recorded. | N/A | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses. | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | N/A | |
| Is the Field Sampler's name present on COC? | True | |
| Sample Preservation Verified. | N/A | |
| Residual Chlorine Checked. | N/A | |
| Sample custody seals are intact. | True | |

eurofins | Environment Testing America

# ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-58555-1
Client Project/Site: Chevron 206145 Oakland Center Street

For:
ARCADIS U.S. Inc
111 SW Columbia Street
Suite 670
Portland, Oregon 97201

Attn: Meg Armstrong

*Authorized for release by:*
*5/21/2021 11:22:54 AM*

Lena Davidkov, Project Manager II
(949)260-3229
Lena.Davidkova@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 570-58555-1
Project/Site: Chevron 206145 Oakland Center Street

## Qualifiers

### Air - GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| *1 | LCS/LCSD RPD 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. |

### Air - GC VOA

| Qualifier | Qualifier Description |
|---|---|
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

## Job ID: 570-58555-1

### Laboratory: Eurofins Calscience LLC

**Narrative**

**Job Narrative**
**570-58555-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 5/7/2021 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 22.0º C.

**Air Toxics**
Method TO-15: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 570-149957 recovered outside control limits for the following analytes: Trichlorofluoromethane and Isopropyl alcohol

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 570-58555-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: SVP-1
## Lab Sample ID: 570-58555-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.35 | J | 0.66 | 0.32 | ppb v/v | 1.316 | | TO-15 | Total/NA |
| 2-Butanone | 0.87 | J | 2.0 | 0.54 | ppb v/v | 1.316 | | TO-15 | Total/NA |
| Acetone | 4.8 | | 2.6 | 0.52 | ppb v/v | 1.316 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 0.49 | J | 0.66 | 0.26 | ppb v/v | 1.316 | | TO-15 | Total/NA |
| Isopropanol | 47 | *1 | 6.6 | 0.52 | ppb v/v | 1.316 | | TO-15 | Total/NA |
| Toluene | 0.41 | J | 0.66 | 0.18 | ppb v/v | 1.316 | | TO-15 | Total/NA |
| Trichloroethene | 0.24 | J | 0.66 | 0.23 | ppb v/v | 1.316 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.36 | J *1 | 1.3 | 0.31 | ppb v/v | 1.316 | | TO-15 | Total/NA |
| Helium | 0.021 | J | 0.025 | 0.0073 | % v/v | 1 | | D1946 | Total/NA |
| Carbon dioxide | 0.83 | | 0.50 | 0.016 | % v/v | 1 | | D1946 | Total/NA |
| Nitrogen | 82 | | 0.50 | 0.17 | % v/v | 1 | | D1946 | Total/NA |
| Oxygen + Argon | 21 | | 0.50 | 0.084 | % v/v | 1 | | D1946 | Total/NA |
| TPH (as Gasoline) | 0.70 | | 0.20 | 0.10 | ppm v/v | 1 | | TO3 | Total/NA |

## Client Sample ID: SVP-2
## Lab Sample ID: 570-58555-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.50 | J | 0.67 | 0.33 | ppb v/v | 1.342 | | TO-15 | Total/NA |
| 2-Butanone | 3.5 | | 2.0 | 0.55 | ppb v/v | 1.342 | | TO-15 | Total/NA |
| Acetone | 24 | | 2.7 | 0.53 | ppb v/v | 1.342 | | TO-15 | Total/NA |
| Benzene | 0.40 | J | 0.67 | 0.21 | ppb v/v | 1.342 | | TO-15 | Total/NA |
| Carbon disulfide | 0.45 | J | 2.7 | 0.25 | ppb v/v | 1.342 | | TO-15 | Total/NA |
| Chloromethane | 0.63 | J | 0.67 | 0.22 | ppb v/v | 1.342 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 0.47 | J | 0.67 | 0.27 | ppb v/v | 1.342 | | TO-15 | Total/NA |
| Isopropanol | 32 | *1 | 6.7 | 0.53 | ppb v/v | 1.342 | | TO-15 | Total/NA |
| Toluene | 0.36 | J | 0.67 | 0.18 | ppb v/v | 1.342 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.33 | J *1 | 1.3 | 0.32 | ppb v/v | 1.342 | | TO-15 | Total/NA |
| Vinyl acetate | 1.3 | J | 2.7 | 0.47 | ppb v/v | 1.342 | | TO-15 | Total/NA |
| Helium | 0.014 | J | 0.025 | 0.0073 | % v/v | 1 | | D1946 | Total/NA |
| Carbon dioxide | 1.6 | | 0.50 | 0.016 | % v/v | 1 | | D1946 | Total/NA |
| Nitrogen | 82 | | 0.50 | 0.17 | % v/v | 1 | | D1946 | Total/NA |
| Oxygen + Argon | 20 | | 0.50 | 0.084 | % v/v | 1 | | D1946 | Total/NA |
| TPH (as Gasoline) | 0.57 | | 0.20 | 0.10 | ppm v/v | 1 | | TO3 | Total/NA |

## Client Sample ID: SVP-3
## Lab Sample ID: 570-58555-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.36 | J | 0.50 | 0.24 | ppb v/v | 1 | | TO-15 | Total/NA |
| 2-Butanone | 2.3 | | 1.5 | 0.41 | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone | 21 | | 2.0 | 0.40 | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 0.40 | J | 2.0 | 0.19 | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.88 | | 0.50 | 0.16 | ppb v/v | 1 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 0.44 | J | 0.50 | 0.20 | ppb v/v | 1 | | TO-15 | Total/NA |
| Isopropanol | 22 | *1 | 5.0 | 0.39 | ppb v/v | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 0.31 | J | 0.50 | 0.17 | ppb v/v | 1 | | TO-15 | Total/NA |
| Toluene | 0.48 | J | 0.50 | 0.13 | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.25 | J *1 | 1.0 | 0.24 | ppb v/v | 1 | | TO-15 | Total/NA |
| Vinyl acetate | 1.6 | J | 2.0 | 0.35 | ppb v/v | 1 | | TO-15 | Total/NA |
| Helium | 0.021 | J | 0.025 | 0.0073 | % v/v | 1 | | D1946 | Total/NA |
| Carbon dioxide | 3.7 | | 0.50 | 0.016 | % v/v | 1 | | D1946 | Total/NA |
| Nitrogen | 79 | | 0.50 | 0.17 | % v/v | 1 | | D1946 | Total/NA |
| Oxygen + Argon | 16 | | 0.50 | 0.084 | % v/v | 1 | | D1946 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: SVP-3 (Continued)
## Lab Sample ID: 570-58555-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| TPH (as Gasoline) | 0.50 | | 0.20 | 0.10 | ppm v/v | 1 | | TO3 | Total/NA |

## Client Sample ID: SVP-4
## Lab Sample ID: 570-58555-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.56 | | 0.56 | 0.27 | ppb v/v | 1.114 | | TO-15 | Total/NA |
| 2-Butanone | 1.3 | J | 1.7 | 0.46 | ppb v/v | 1.114 | | TO-15 | Total/NA |
| Acetone | 6.4 | | 2.2 | 0.44 | ppb v/v | 1.114 | | TO-15 | Total/NA |
| Chloromethane | 0.31 | J | 0.56 | 0.18 | ppb v/v | 1.114 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 0.42 | J | 0.56 | 0.22 | ppb v/v | 1.114 | | TO-15 | Total/NA |
| Isopropanol | 40 | *1 | 5.6 | 0.44 | ppb v/v | 1.114 | | TO-15 | Total/NA |
| Toluene | 0.33 | J | 0.56 | 0.15 | ppb v/v | 1.114 | | TO-15 | Total/NA |
| Trichloroethene | 0.24 | J | 0.56 | 0.20 | ppb v/v | 1.114 | | TO-15 | Total/NA |
| Vinyl acetate | 0.45 | J | 2.2 | 0.39 | ppb v/v | 1.114 | | TO-15 | Total/NA |
| Helium | 0.016 | J B | 0.025 | 0.0073 | % v/v | 1 | | D1946 | Total/NA |
| Carbon dioxide | 2.4 | | 0.50 | 0.016 | % v/v | 1 | | D1946 | Total/NA |
| Nitrogen | 78 | | 0.50 | 0.17 | % v/v | 1 | | D1946 | Total/NA |
| Oxygen + Argon | 19 | | 0.50 | 0.084 | % v/v | 1 | | D1946 | Total/NA |
| TPH (as Gasoline) | 0.46 | | 0.20 | 0.10 | ppm v/v | 1 | | TO3 | Total/NA |

## Client Sample ID: VP-1
## Lab Sample ID: 570-58555-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 2.8 | | 1.5 | 0.41 | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone | 11 | | 2.0 | 0.40 | ppb v/v | 1 | | TO-15 | Total/NA |
| Benzene | 0.19 | J | 0.50 | 0.16 | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 0.66 | J | 2.0 | 0.19 | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.36 | J | 0.50 | 0.16 | ppb v/v | 1 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 0.46 | J | 0.50 | 0.20 | ppb v/v | 1 | | TO-15 | Total/NA |
| Methylene Chloride | 0.54 | J | 5.0 | 0.54 | ppb v/v | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 0.21 | J | 0.50 | 0.17 | ppb v/v | 1 | | TO-15 | Total/NA |
| Toluene | 1.9 | | 0.50 | 0.13 | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.30 | J *1 | 1.0 | 0.24 | ppb v/v | 1 | | TO-15 | Total/NA |
| Isopropanol - DL | 320 | | 28 | 2.2 | ppb v/v | 5.6 | | TO-15 | Total/NA |
| Helium | 0.047 | B | 0.025 | 0.0073 | % v/v | 1 | | D1946 | Total/NA |
| Carbon dioxide | 3.5 | | 0.50 | 0.016 | % v/v | 1 | | D1946 | Total/NA |
| Nitrogen | 84 | | 0.50 | 0.17 | % v/v | 1 | | D1946 | Total/NA |
| Oxygen + Argon | 16 | | 0.50 | 0.084 | % v/v | 1 | | D1946 | Total/NA |
| TPH (as Gasoline) | 0.49 | | 0.20 | 0.10 | ppm v/v | 1 | | TO3 | Total/NA |

## Client Sample ID: VP-2
## Lab Sample ID: 570-58555-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 4.6 | | 1.8 | 0.50 | ppb v/v | 1.223 | | TO-15 | Total/NA |
| Acetone | 24 | | 2.4 | 0.49 | ppb v/v | 1.223 | | TO-15 | Total/NA |
| Carbon disulfide | 0.31 | J | 2.4 | 0.23 | ppb v/v | 1.223 | | TO-15 | Total/NA |
| Chloromethane | 1.0 | | 0.61 | 0.20 | ppb v/v | 1.223 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 0.49 | J | 0.61 | 0.24 | ppb v/v | 1.223 | | TO-15 | Total/NA |
| Isopropanol | 10 | *1 | 6.1 | 0.48 | ppb v/v | 1.223 | | TO-15 | Total/NA |
| Tetrachloroethene | 0.59 | J | 0.61 | 0.20 | ppb v/v | 1.223 | | TO-15 | Total/NA |
| Toluene | 0.27 | J | 0.61 | 0.16 | ppb v/v | 1.223 | | TO-15 | Total/NA |
| Trichloroethene | 2.1 | | 0.61 | 0.22 | ppb v/v | 1.223 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: VP-2 (Continued)
## Lab Sample ID: 570-58555-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Trichlorofluoromethane | 0.33 | J *1 | 1.2 | 0.29 | ppb v/v | 1.223 | | TO-15 | Total/NA |
| Vinyl acetate | 1.6 | J | 2.4 | 0.43 | ppb v/v | 1.223 | | TO-15 | Total/NA |
| Helium | 0.0092 | J B | 0.025 | 0.0073 | % v/v | 1 | | D1946 | Total/NA |
| Carbon dioxide | 3.3 | | 0.50 | 0.016 | % v/v | 1 | | D1946 | Total/NA |
| Nitrogen | 81 | | 0.50 | 0.17 | % v/v | 1 | | D1946 | Total/NA |
| Oxygen + Argon | 16 | | 0.50 | 0.084 | % v/v | 1 | | D1946 | Total/NA |
| TPH (as Gasoline) | 0.36 | | 0.20 | 0.10 | ppm v/v | 1 | | TO3 | Total/NA |

## Client Sample ID: VP-3
## Lab Sample ID: 570-58555-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 1.5 | J | 2.1 | 0.57 | ppb v/v | 1.384 | | TO-15 | Total/NA |
| Acetone | 14 | | 2.8 | 0.55 | ppb v/v | 1.384 | | TO-15 | Total/NA |
| Benzene | 1.1 | | 0.69 | 0.22 | ppb v/v | 1.384 | | TO-15 | Total/NA |
| Bromomethane | 0.65 | J | 0.69 | 0.19 | ppb v/v | 1.384 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 2.7 | | 0.69 | 0.19 | ppb v/v | 1.384 | | TO-15 | Total/NA |
| Chloromethane | 0.60 | J | 0.69 | 0.22 | ppb v/v | 1.384 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 0.44 | J | 0.69 | 0.28 | ppb v/v | 1.384 | | TO-15 | Total/NA |
| Ethylbenzene | 0.40 | J | 0.69 | 0.35 | ppb v/v | 1.384 | | TO-15 | Total/NA |
| Isopropanol | 7.0 | *1 | 6.9 | 0.54 | ppb v/v | 1.384 | | TO-15 | Total/NA |
| Tetrachloroethene | 2.0 | | 0.69 | 0.23 | ppb v/v | 1.384 | | TO-15 | Total/NA |
| Trichloroethene | 0.69 | | 0.69 | 0.25 | ppb v/v | 1.384 | | TO-15 | Total/NA |
| Vinyl acetate | 1.6 | J | 2.8 | 0.49 | ppb v/v | 1.384 | | TO-15 | Total/NA |
| Helium | 0.010 | J B | 0.025 | 0.0073 | % v/v | 1 | | D1946 | Total/NA |
| Carbon dioxide | 4.6 | | 0.50 | 0.016 | % v/v | 1 | | D1946 | Total/NA |
| Nitrogen | 82 | | 0.50 | 0.17 | % v/v | 1 | | D1946 | Total/NA |
| Oxygen + Argon | 17 | | 0.50 | 0.084 | % v/v | 1 | | D1946 | Total/NA |
| TPH (as Gasoline) | 0.39 | | 0.20 | 0.10 | ppm v/v | 1 | | TO3 | Total/NA |

## Client Sample ID: VP-4
## Lab Sample ID: 570-58555-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 1.6 | J | 1.7 | 0.46 | ppb v/v | 1.114 | | TO-15 | Total/NA |
| Acetone | 24 | | 2.2 | 0.44 | ppb v/v | 1.114 | | TO-15 | Total/NA |
| Benzene | 0.26 | J | 0.56 | 0.17 | ppb v/v | 1.114 | | TO-15 | Total/NA |
| Carbon disulfide | 0.22 | J | 2.2 | 0.21 | ppb v/v | 1.114 | | TO-15 | Total/NA |
| Chloroform | 0.18 | J | 0.56 | 0.18 | ppb v/v | 1.114 | | TO-15 | Total/NA |
| Chloromethane | 1.5 | | 0.56 | 0.18 | ppb v/v | 1.114 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 0.46 | J | 0.56 | 0.22 | ppb v/v | 1.114 | | TO-15 | Total/NA |
| Isopropanol | 11 | *1 | 5.6 | 0.44 | ppb v/v | 1.114 | | TO-15 | Total/NA |
| Toluene | 0.71 | | 0.56 | 0.15 | ppb v/v | 1.114 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.28 | J *1 | 1.1 | 0.26 | ppb v/v | 1.114 | | TO-15 | Total/NA |
| Vinyl acetate | 1.3 | J | 2.2 | 0.39 | ppb v/v | 1.114 | | TO-15 | Total/NA |
| Helium | 0.012 | J B | 0.025 | 0.0073 | % v/v | 1 | | D1946 | Total/NA |
| Carbon dioxide | 5.0 | | 0.50 | 0.016 | % v/v | 1 | | D1946 | Total/NA |
| Nitrogen | 84 | | 0.50 | 0.17 | % v/v | 1 | | D1946 | Total/NA |
| Oxygen + Argon | 16 | | 0.50 | 0.084 | % v/v | 1 | | D1946 | Total/NA |
| TPH (as Gasoline) | 0.40 | | 0.20 | 0.10 | ppm v/v | 1 | | TO3 | Total/NA |

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 570-58555-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: VP-5
## Lab Sample ID: 570-58555-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 5.0 | | 2.6 | 0.72 | ppb v/v | 1.754 | | TO-15 | Total/NA |
| Acetone | 60 | | 3.5 | 0.70 | ppb v/v | 1.754 | | TO-15 | Total/NA |
| Bromomethane | 0.50 | J | 0.88 | 0.24 | ppb v/v | 1.754 | | TO-15 | Total/NA |
| Chloroethane | 1.2 | | 0.88 | 0.30 | ppb v/v | 1.754 | | TO-15 | Total/NA |
| Chloromethane | 12 | | 0.88 | 0.28 | ppb v/v | 1.754 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 0.45 | J | 0.88 | 0.35 | ppb v/v | 1.754 | | TO-15 | Total/NA |
| Isopropanol | 3.7 | J *1 | 8.8 | 0.69 | ppb v/v | 1.754 | | TO-15 | Total/NA |
| Methylene Chloride | 0.98 | J | 8.8 | 0.94 | ppb v/v | 1.754 | | TO-15 | Total/NA |
| Trichloroethene | 0.61 | J | 0.88 | 0.31 | ppb v/v | 1.754 | | TO-15 | Total/NA |
| Vinyl acetate | 4.5 | | 3.5 | 0.62 | ppb v/v | 1.754 | | TO-15 | Total/NA |
| Vinyl chloride | 0.51 | J | 0.88 | 0.28 | ppb v/v | 1.754 | | TO-15 | Total/NA |
| Helium | 0.021 | J | 0.025 | 0.0073 | % v/v | 1 | | D1946 | Total/NA |
| Carbon dioxide - RA | 2.9 | | 0.50 | 0.016 | % v/v | 1 | | D1946 | Total/NA |
| Nitrogen - RA | 79 | | 0.50 | 0.17 | % v/v | 1 | | D1946 | Total/NA |
| Oxygen + Argon - RA | 18 | | 0.50 | 0.084 | % v/v | 1 | | D1946 | Total/NA |
| TPH (as Gasoline) | 0.39 | | 0.20 | 0.10 | ppm v/v | 1 | | TO3 | Total/NA |

## Client Sample ID: VP-6
## Lab Sample ID: 570-58555-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.88 | J | 2.0 | 0.56 | ppb v/v | 1.356 | | TO-15 | Total/NA |
| Acetone | 7.3 | | 2.7 | 0.54 | ppb v/v | 1.356 | | TO-15 | Total/NA |
| Chloromethane | 0.37 | J | 0.68 | 0.22 | ppb v/v | 1.356 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 0.45 | J | 0.68 | 0.27 | ppb v/v | 1.356 | | TO-15 | Total/NA |
| Isopropanol | 11 | *1 | 6.8 | 0.53 | ppb v/v | 1.356 | | TO-15 | Total/NA |
| Tetrachloroethene | 0.81 | | 0.68 | 0.23 | ppb v/v | 1.356 | | TO-15 | Total/NA |
| Toluene | 0.19 | J | 0.68 | 0.18 | ppb v/v | 1.356 | | TO-15 | Total/NA |
| Trichloroethene | 0.98 | | 0.68 | 0.24 | ppb v/v | 1.356 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.33 | J *1 | 1.4 | 0.32 | ppb v/v | 1.356 | | TO-15 | Total/NA |
| Helium | 0.016 | J | 0.025 | 0.0073 | % v/v | 1 | | D1946 | Total/NA |
| Carbon dioxide | 1.9 | | 0.50 | 0.016 | % v/v | 1 | | D1946 | Total/NA |
| Nitrogen | 82 | | 0.50 | 0.17 | % v/v | 1 | | D1946 | Total/NA |
| Oxygen + Argon | 20 | | 0.50 | 0.084 | % v/v | 1 | | D1946 | Total/NA |
| TPH (as Gasoline) | 0.39 | | 0.20 | 0.10 | ppm v/v | 1 | | TO3 | Total/NA |

## Client Sample ID: DUP-1
## Lab Sample ID: 570-58555-11

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 1.5 | J | 2.0 | 0.54 | ppb v/v | 1.32 | | TO-15 | Total/NA |
| Acetone | 20 | | 2.6 | 0.52 | ppb v/v | 1.32 | | TO-15 | Total/NA |
| Chloromethane | 0.36 | J | 0.66 | 0.21 | ppb v/v | 1.32 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 0.47 | J | 0.66 | 0.26 | ppb v/v | 1.32 | | TO-15 | Total/NA |
| Isopropanol | 21 | *1 | 6.6 | 0.52 | ppb v/v | 1.32 | | TO-15 | Total/NA |
| Tetrachloroethene | 2.4 | | 0.66 | 0.22 | ppb v/v | 1.32 | | TO-15 | Total/NA |
| Toluene | 0.23 | J | 0.66 | 0.18 | ppb v/v | 1.32 | | TO-15 | Total/NA |
| Trichloroethene | 2.0 | | 0.66 | 0.23 | ppb v/v | 1.32 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.35 | J *1 | 1.3 | 0.31 | ppb v/v | 1.32 | | TO-15 | Total/NA |
| Vinyl acetate | 0.89 | J | 2.6 | 0.47 | ppb v/v | 1.32 | | TO-15 | Total/NA |
| Helium | 0.027 | | 0.025 | 0.0073 | % v/v | 1 | | D1946 | Total/NA |
| Carbon dioxide | 1.9 | | 0.50 | 0.016 | % v/v | 1 | | D1946 | Total/NA |
| Nitrogen | 82 | | 0.50 | 0.17 | % v/v | 1 | | D1946 | Total/NA |
| Oxygen + Argon | 20 | | 0.50 | 0.084 | % v/v | 1 | | D1946 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: DUP-1 (Continued)
## Lab Sample ID: 570-58555-11

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| TPH (as Gasoline) | 0.39 | | 0.20 | 0.10 | ppm v/v | 1 | | TO3 | Total/NA |

## Client Sample ID: EQB
## Lab Sample ID: 570-58555-12

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone - RA | 7.1 | | 4.0 | 0.79 | ppb v/v | 1.98 | | TO-15 | Total/NA |
| Isopropanol - RA | 25 | | 9.9 | 0.78 | ppb v/v | 1.98 | | TO-15 | Total/NA |
| Methylene Chloride - RA | 1.9 | J | 9.9 | 1.1 | ppb v/v | 1.98 | | TO-15 | Total/NA |
| Toluene - RA | 1.9 | | 0.99 | 0.26 | ppb v/v | 1.98 | | TO-15 | Total/NA |
| Carbon dioxide | 0.019 | J | 0.50 | 0.016 | % v/v | 1 | | D1946 | Total/NA |
| Nitrogen | 97 | | 0.50 | 0.17 | % v/v | 1 | | D1946 | Total/NA |
| Oxygen + Argon | 6.1 | | 0.50 | 0.084 | % v/v | 1 | | D1946 | Total/NA |
| TPH (as Gasoline) | 0.26 | | 0.20 | 0.10 | ppm v/v | 1 | | TO3 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Client Sample ID: SVP-1**
**Lab Sample ID: 570-58555-1**
**Date Collected: 05/06/21 10:09**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 0.66 | 0.19 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.3 | 0.22 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.0 | 0.39 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| 1,1,2-Trichloroethane | ND | | 0.66 | 0.18 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| 1,1-Dichloroethane | ND | | 0.66 | 0.14 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| 1,1-Dichloroethene | ND | | 0.66 | 0.23 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| 1,1-Difluoroethane | ND | | 2.6 | 0.48 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| 1,2,4-Trichlorobenzene | ND | | 2.6 | 0.87 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| 1,2,4-Trimethylbenzene | ND | | 2.0 | 0.44 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.0 | 0.38 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| 1,2-Dibromoethane | ND | | 0.66 | 0.23 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| 1,2-Dichlorobenzene | ND | | 0.66 | 0.32 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| 1,2-Dichloroethane | ND | | 0.66 | 0.19 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| 1,2-Dichloropropane | ND | | 0.66 | 0.18 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| 1,3,5-Trimethylbenzene | ND | | 0.66 | 0.27 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| **1,3-Dichlorobenzene** | **0.35** | **J** | 0.66 | 0.32 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| 1,4-Dichlorobenzene | ND | | 0.66 | 0.33 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| **2-Butanone** | **0.87** | **J** | 2.0 | 0.54 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| 2-Hexanone | ND | | 2.0 | 0.84 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| 4-Ethyltoluene | ND | | 0.66 | 0.33 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| 4-Methyl-2-pentanone | ND | | 2.0 | 0.73 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| **Acetone** | **4.8** | | 2.6 | 0.52 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Benzene | ND | | 0.66 | 0.21 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Benzyl chloride | ND | | 2.0 | 0.67 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Bromodichloromethane | ND | | 0.66 | 0.15 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Bromoform | ND | | 0.66 | 0.23 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Bromomethane | ND | | 0.66 | 0.18 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| cis-1,2-Dichloroethene | ND | | 0.66 | 0.18 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| cis-1,3-Dichloropropene | ND | | 0.66 | 0.28 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Carbon disulfide | ND | | 2.6 | 0.25 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Carbon tetrachloride | ND | | 0.66 | 0.27 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Chlorobenzene | ND | | 0.66 | 0.17 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Chloroethane | ND | | 0.66 | 0.23 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Chloroform | ND | | 0.66 | 0.21 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Chloromethane | ND | | 0.66 | 0.21 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Dibromochloromethane | ND | | 0.66 | 0.20 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| **Dichlorodifluoromethane** | **0.49** | **J** | 0.66 | 0.26 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Dichlorotetrafluoroethane | ND | | 2.6 | 0.25 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Di-isopropyl ether (DIPE) | ND | | 2.6 | 0.46 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Ethylbenzene | ND | | 0.66 | 0.33 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Ethyl-t-butyl ether (ETBE) | ND | | 2.6 | 0.38 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Hexachloro-1,3-butadiene | ND | | 2.0 | 0.77 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| **Isopropanol** | **47** | ***1** | 6.6 | 0.52 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Methylene Chloride | ND | | 6.6 | 0.71 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 2.6 | 0.44 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| n-Butylbenzene | ND | | 2.0 | 0.56 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| o-Xylene | ND | | 0.66 | 0.26 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| m,p-Xylene | ND | | 2.6 | 0.83 | ppb v/v | | | 05/12/21 23:19 | 1.316 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: SVP-1**
**Lab Sample ID: 570-58555-1**
**Date Collected: 05/06/21 10:09**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | | 2.0 | 0.39 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Styrene | ND | | 2.0 | 0.70 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| trans-1,2-Dichloroethene | ND | | 0.66 | 0.17 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| trans-1,3-Dichloropropene | ND | | 1.3 | 0.28 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Tert-amyl methyl ether | ND | | 2.6 | 0.58 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| tert-Butyl alcohol (TBA) | ND | | 2.6 | 0.50 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| tert-Butylbenzene | ND | | 2.0 | 0.36 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Tetrachloroethene | ND | | 0.66 | 0.22 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| **Toluene** | **0.41** | **J** | 0.66 | 0.18 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| **Trichloroethene** | **0.24** | **J** | 0.66 | 0.23 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| **Trichlorofluoromethane** | **0.36** | **J *1** | 1.3 | 0.31 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Vinyl acetate | ND | | 2.6 | 0.46 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Vinyl chloride | ND | | 0.66 | 0.21 | ppb v/v | | | 05/12/21 23:19 | 1.316 |
| Naphthalene | ND | | 1.6 | 0.78 | ppb v/v | | | 05/12/21 23:19 | 1.316 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *93* | | *70 - 131* | | *05/12/21 23:19* | *1.316* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *70 - 130* | | *05/12/21 23:19* | *1.316* |
| *Toluene-d8 (Surr)* | *93* | | *70 - 130* | | *05/12/21 23:19* | *1.316* |

**Client Sample ID: SVP-2**
**Lab Sample ID: 570-58555-2**
**Date Collected: 05/06/21 10:52**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 0.67 | 0.19 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.3 | 0.22 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.0 | 0.40 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| 1,1,2-Trichloroethane | ND | | 0.67 | 0.19 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| 1,1-Dichloroethane | ND | | 0.67 | 0.14 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| 1,1-Dichloroethene | ND | | 0.67 | 0.23 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| 1,1-Difluoroethane | ND | | 2.7 | 0.49 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| 1,2,4-Trichlorobenzene | ND | | 2.7 | 0.89 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| 1,2,4-Trimethylbenzene | ND | | 2.0 | 0.45 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.0 | 0.39 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| 1,2-Dibromoethane | ND | | 0.67 | 0.23 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| 1,2-Dichlorobenzene | ND | | 0.67 | 0.33 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| 1,2-Dichloroethane | ND | | 0.67 | 0.19 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| 1,2-Dichloropropane | ND | | 0.67 | 0.19 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| 1,3,5-Trimethylbenzene | ND | | 0.67 | 0.27 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| **1,3-Dichlorobenzene** | **0.50** | **J** | 0.67 | 0.33 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| 1,4-Dichlorobenzene | ND | | 0.67 | 0.34 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| **2-Butanone** | **3.5** | | 2.0 | 0.55 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| 2-Hexanone | ND | | 2.0 | 0.85 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| 4-Ethyltoluene | ND | | 0.67 | 0.34 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| 4-Methyl-2-pentanone | ND | | 2.0 | 0.75 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| **Acetone** | **24** | | 2.7 | 0.53 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| **Benzene** | **0.40** | **J** | 0.67 | 0.21 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| Benzyl chloride | ND | | 2.0 | 0.69 | ppb v/v | | | 05/13/21 00:15 | 1.342 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: SVP-2**
**Lab Sample ID: 570-58555-2**
**Date Collected: 05/06/21 10:52**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | | 0.67 | 0.15 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| Bromoform | ND | | 0.67 | 0.23 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| Bromomethane | ND | | 0.67 | 0.19 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| cis-1,2-Dichloroethene | ND | | 0.67 | 0.18 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| cis-1,3-Dichloropropene | ND | | 0.67 | 0.29 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| **Carbon disulfide** | **0.45** | **J** | 2.7 | 0.25 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| Carbon tetrachloride | ND | | 0.67 | 0.28 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| Chlorobenzene | ND | | 0.67 | 0.17 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| Chloroethane | ND | | 0.67 | 0.23 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| Chloroform | ND | | 0.67 | 0.21 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| **Chloromethane** | **0.63** | **J** | 0.67 | 0.22 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| Dibromochloromethane | ND | | 0.67 | 0.21 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| **Dichlorodifluoromethane** | **0.47** | **J** | 0.67 | 0.27 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| Dichlorotetrafluoroethane | ND | | 2.7 | 0.25 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| Di-isopropyl ether (DIPE) | ND | | 2.7 | 0.47 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| Ethylbenzene | ND | | 0.67 | 0.34 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| Ethyl-t-butyl ether (ETBE) | ND | | 2.7 | 0.39 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| Hexachloro-1,3-butadiene | ND | | 2.0 | 0.78 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| **Isopropanol** | **32** | ***1** | 6.7 | 0.53 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| Methylene Chloride | ND | | 6.7 | 0.72 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 2.7 | 0.45 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| n-Butylbenzene | ND | | 2.0 | 0.57 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| o-Xylene | ND | | 0.67 | 0.27 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| m,p-Xylene | ND | | 2.7 | 0.84 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| sec-Butylbenzene | ND | | 2.0 | 0.39 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| Styrene | ND | | 2.0 | 0.71 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| trans-1,2-Dichloroethene | ND | | 0.67 | 0.17 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| trans-1,3-Dichloropropene | ND | | 1.3 | 0.28 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| Tert-amyl methyl ether | ND | | 2.7 | 0.59 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| tert-Butyl alcohol (TBA) | ND | | 2.7 | 0.51 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| tert-Butylbenzene | ND | | 2.0 | 0.37 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| Tetrachloroethene | ND | | 0.67 | 0.22 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| **Toluene** | **0.36** | **J** | 0.67 | 0.18 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| Trichloroethene | ND | | 0.67 | 0.24 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| **Trichlorofluoromethane** | **0.33** | **J *1** | 1.3 | 0.32 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| **Vinyl acetate** | **1.3** | **J** | 2.7 | 0.47 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| Vinyl chloride | ND | | 0.67 | 0.22 | ppb v/v | | | 05/13/21 00:15 | 1.342 |
| Naphthalene | ND | | 1.7 | 0.80 | ppb v/v | | | 05/13/21 00:15 | 1.342 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *93* | | *70 - 131* | | *05/13/21 00:15* | *1.342* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *70 - 130* | | *05/13/21 00:15* | *1.342* |
| *Toluene-d8 (Surr)* | *92* | | *70 - 130* | | *05/13/21 00:15* | *1.342* |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Client Sample ID: SVP-3**
**Lab Sample ID: 570-58555-3**
**Date Collected: 05/06/21 11:32**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 0.50 | 0.15 | ppb v/v | | | 05/13/21 01:13 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.17 | ppb v/v | | | 05/13/21 01:13 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.5 | 0.30 | ppb v/v | | | 05/13/21 01:13 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | 0.14 | ppb v/v | | | 05/13/21 01:13 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | 0.10 | ppb v/v | | | 05/13/21 01:13 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | 0.18 | ppb v/v | | | 05/13/21 01:13 | 1 |
| 1,1-Difluoroethane | ND | | 2.0 | 0.37 | ppb v/v | | | 05/13/21 01:13 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 2.0 | 0.66 | ppb v/v | | | 05/13/21 01:13 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.5 | 0.33 | ppb v/v | | | 05/13/21 01:13 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.5 | 0.29 | ppb v/v | | | 05/13/21 01:13 | 1 |
| 1,2-Dibromoethane | ND | | 0.50 | 0.17 | ppb v/v | | | 05/13/21 01:13 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 0.25 | ppb v/v | | | 05/13/21 01:13 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | 0.15 | ppb v/v | | | 05/13/21 01:13 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | 0.14 | ppb v/v | | | 05/13/21 01:13 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.20 | ppb v/v | | | 05/13/21 01:13 | 1 |
| **1,3-Dichlorobenzene** | **0.36** | **J** | 0.50 | 0.24 | ppb v/v | | | 05/13/21 01:13 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 0.25 | ppb v/v | | | 05/13/21 01:13 | 1 |
| **2-Butanone** | **2.3** | | 1.5 | 0.41 | ppb v/v | | | 05/13/21 01:13 | 1 |
| 2-Hexanone | ND | | 1.5 | 0.64 | ppb v/v | | | 05/13/21 01:13 | 1 |
| 4-Ethyltoluene | ND | | 0.50 | 0.25 | ppb v/v | | | 05/13/21 01:13 | 1 |
| 4-Methyl-2-pentanone | ND | | 1.5 | 0.56 | ppb v/v | | | 05/13/21 01:13 | 1 |
| **Acetone** | **21** | | 2.0 | 0.40 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Benzene | ND | | 0.50 | 0.16 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Benzyl chloride | ND | | 1.5 | 0.51 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Bromodichloromethane | ND | | 0.50 | 0.11 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Bromoform | ND | | 0.50 | 0.17 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Bromomethane | ND | | 0.50 | 0.14 | ppb v/v | | | 05/13/21 01:13 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 0.14 | ppb v/v | | | 05/13/21 01:13 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.22 | ppb v/v | | | 05/13/21 01:13 | 1 |
| **Carbon disulfide** | **0.40** | **J** | 2.0 | 0.19 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Carbon tetrachloride | ND | | 0.50 | 0.21 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Chlorobenzene | ND | | 0.50 | 0.13 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Chloroethane | ND | | 0.50 | 0.17 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Chloroform | ND | | 0.50 | 0.16 | ppb v/v | | | 05/13/21 01:13 | 1 |
| **Chloromethane** | **0.88** | | 0.50 | 0.16 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Dibromochloromethane | ND | | 0.50 | 0.16 | ppb v/v | | | 05/13/21 01:13 | 1 |
| **Dichlorodifluoromethane** | **0.44** | **J** | 0.50 | 0.20 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Dichlorotetrafluoroethane | ND | | 2.0 | 0.19 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Di-isopropyl ether (DIPE) | ND | | 2.0 | 0.35 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Ethylbenzene | ND | | 0.50 | 0.25 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 2.0 | 0.29 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Hexachloro-1,3-butadiene | ND | | 1.5 | 0.58 | ppb v/v | | | 05/13/21 01:13 | 1 |
| **Isopropanol** | **22** | ***1** | 5.0 | 0.39 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.54 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 2.0 | 0.34 | ppb v/v | | | 05/13/21 01:13 | 1 |
| n-Butylbenzene | ND | | 1.5 | 0.43 | ppb v/v | | | 05/13/21 01:13 | 1 |
| o-Xylene | ND | | 0.50 | 0.20 | ppb v/v | | | 05/13/21 01:13 | 1 |
| m,p-Xylene | ND | | 2.0 | 0.63 | ppb v/v | | | 05/13/21 01:13 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: SVP-3**
**Lab Sample ID: 570-58555-3**
**Date Collected: 05/06/21 11:32**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | | 1.5 | 0.29 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Styrene | ND | | 1.5 | 0.53 | ppb v/v | | | 05/13/21 01:13 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 0.13 | ppb v/v | | | 05/13/21 01:13 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.21 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Tert-amyl methyl ether | ND | | 2.0 | 0.44 | ppb v/v | | | 05/13/21 01:13 | 1 |
| tert-Butyl alcohol (TBA) | ND | | 2.0 | 0.38 | ppb v/v | | | 05/13/21 01:13 | 1 |
| tert-Butylbenzene | ND | | 1.5 | 0.27 | ppb v/v | | | 05/13/21 01:13 | 1 |
| **Tetrachloroethene** | **0.31** | **J** | 0.50 | 0.17 | ppb v/v | | | 05/13/21 01:13 | 1 |
| **Toluene** | **0.48** | **J** | 0.50 | 0.13 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Trichloroethene | ND | | 0.50 | 0.18 | ppb v/v | | | 05/13/21 01:13 | 1 |
| **Trichlorofluoromethane** | **0.25** | **J *1** | 1.0 | 0.24 | ppb v/v | | | 05/13/21 01:13 | 1 |
| **Vinyl acetate** | **1.6** | **J** | 2.0 | 0.35 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Vinyl chloride | ND | | 0.50 | 0.16 | ppb v/v | | | 05/13/21 01:13 | 1 |
| Naphthalene | ND | | 1.3 | 0.59 | ppb v/v | | | 05/13/21 01:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *94* | | *70 - 131* | | *05/13/21 01:13* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *70 - 130* | | *05/13/21 01:13* | *1* |
| *Toluene-d8 (Surr)* | *93* | | *70 - 130* | | *05/13/21 01:13* | *1* |

**Client Sample ID: SVP-4**
**Lab Sample ID: 570-58555-4**
**Date Collected: 05/06/21 12:12**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 0.56 | 0.16 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.1 | 0.18 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.7 | 0.33 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| 1,1,2-Trichloroethane | ND | | 0.56 | 0.15 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| 1,1-Dichloroethane | ND | | 0.56 | 0.12 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| 1,1-Dichloroethene | ND | | 0.56 | 0.19 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| 1,1-Difluoroethane | ND | | 2.2 | 0.41 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| 1,2,4-Trichlorobenzene | ND | | 2.2 | 0.74 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| 1,2,4-Trimethylbenzene | ND | | 1.7 | 0.37 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.7 | 0.32 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| 1,2-Dibromoethane | ND | | 0.56 | 0.19 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| 1,2-Dichlorobenzene | ND | | 0.56 | 0.27 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| 1,2-Dichloroethane | ND | | 0.56 | 0.16 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| 1,2-Dichloropropane | ND | | 0.56 | 0.15 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| 1,3,5-Trimethylbenzene | ND | | 0.56 | 0.23 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| **1,3-Dichlorobenzene** | **0.56** | | 0.56 | 0.27 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| 1,4-Dichlorobenzene | ND | | 0.56 | 0.28 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| **2-Butanone** | **1.3** | **J** | 1.7 | 0.46 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| 2-Hexanone | ND | | 1.7 | 0.71 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| 4-Ethyltoluene | ND | | 0.56 | 0.28 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| 4-Methyl-2-pentanone | ND | | 1.7 | 0.62 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| **Acetone** | **6.4** | | 2.2 | 0.44 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Benzene | ND | | 0.56 | 0.17 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Benzyl chloride | ND | | 1.7 | 0.57 | ppb v/v | | | 05/13/21 02:17 | 1.114 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: SVP-4**
**Lab Sample ID: 570-58555-4**
**Date Collected: 05/06/21 12:12**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | | 0.56 | 0.12 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Bromoform | ND | | 0.56 | 0.19 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Bromomethane | ND | | 0.56 | 0.15 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| cis-1,2-Dichloroethene | ND | | 0.56 | 0.15 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| cis-1,3-Dichloropropene | ND | | 0.56 | 0.24 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Carbon disulfide | ND | | 2.2 | 0.21 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Carbon tetrachloride | ND | | 0.56 | 0.23 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Chlorobenzene | ND | | 0.56 | 0.14 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Chloroethane | ND | | 0.56 | 0.19 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Chloroform | ND | | 0.56 | 0.18 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| **Chloromethane** | **0.31** | **J** | 0.56 | 0.18 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Dibromochloromethane | ND | | 0.56 | 0.17 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| **Dichlorodifluoromethane** | **0.42** | **J** | 0.56 | 0.22 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Dichlorotetrafluoroethane | ND | | 2.2 | 0.21 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Di-isopropyl ether (DIPE) | ND | | 2.2 | 0.39 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Ethylbenzene | ND | | 0.56 | 0.28 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Ethyl-t-butyl ether (ETBE) | ND | | 2.2 | 0.32 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Hexachloro-1,3-butadiene | ND | | 1.7 | 0.65 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| **Isopropanol** | **40** | ***1** | 5.6 | 0.44 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Methylene Chloride | ND | | 5.6 | 0.60 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 2.2 | 0.38 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| n-Butylbenzene | ND | | 1.7 | 0.48 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| o-Xylene | ND | | 0.56 | 0.22 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| m,p-Xylene | ND | | 2.2 | 0.70 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| sec-Butylbenzene | ND | | 1.7 | 0.33 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Styrene | ND | | 1.7 | 0.59 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| trans-1,2-Dichloroethene | ND | | 0.56 | 0.14 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| trans-1,3-Dichloropropene | ND | | 1.1 | 0.24 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Tert-amyl methyl ether | ND | | 2.2 | 0.49 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| tert-Butyl alcohol (TBA) | ND | | 2.2 | 0.42 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| tert-Butylbenzene | ND | | 1.7 | 0.31 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Tetrachloroethene | ND | | 0.56 | 0.19 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| **Toluene** | **0.33** | **J** | 0.56 | 0.15 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| **Trichloroethene** | **0.24** | **J** | 0.56 | 0.20 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Trichlorofluoromethane | ND | *1 | 1.1 | 0.26 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| **Vinyl acetate** | **0.45** | **J** | 2.2 | 0.39 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Vinyl chloride | ND | | 0.56 | 0.18 | ppb v/v | | | 05/13/21 02:17 | 1.114 |
| Naphthalene | ND | | 1.4 | 0.66 | ppb v/v | | | 05/13/21 02:17 | 1.114 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *93* | | *70 - 131* | | *05/13/21 02:17* | *1.114* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *70 - 130* | | *05/13/21 02:17* | *1.114* |
| *Toluene-d8 (Surr)* | *94* | | *70 - 130* | | *05/13/21 02:17* | *1.114* |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Client Sample ID: VP-1**
**Lab Sample ID: 570-58555-5**
**Date Collected: 05/04/21 09:12**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 0.50 | 0.15 | ppb v/v | | | 05/13/21 03:16 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.17 | ppb v/v | | | 05/13/21 03:16 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.5 | 0.30 | ppb v/v | | | 05/13/21 03:16 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | 0.14 | ppb v/v | | | 05/13/21 03:16 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | 0.10 | ppb v/v | | | 05/13/21 03:16 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | 0.18 | ppb v/v | | | 05/13/21 03:16 | 1 |
| 1,1-Difluoroethane | ND | | 2.0 | 0.37 | ppb v/v | | | 05/13/21 03:16 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 2.0 | 0.66 | ppb v/v | | | 05/13/21 03:16 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.5 | 0.33 | ppb v/v | | | 05/13/21 03:16 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.5 | 0.29 | ppb v/v | | | 05/13/21 03:16 | 1 |
| 1,2-Dibromoethane | ND | | 0.50 | 0.17 | ppb v/v | | | 05/13/21 03:16 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 0.25 | ppb v/v | | | 05/13/21 03:16 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | 0.15 | ppb v/v | | | 05/13/21 03:16 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | 0.14 | ppb v/v | | | 05/13/21 03:16 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.20 | ppb v/v | | | 05/13/21 03:16 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 0.24 | ppb v/v | | | 05/13/21 03:16 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 0.25 | ppb v/v | | | 05/13/21 03:16 | 1 |
| **2-Butanone** | **2.8** | | 1.5 | 0.41 | ppb v/v | | | 05/13/21 03:16 | 1 |
| 2-Hexanone | ND | | 1.5 | 0.64 | ppb v/v | | | 05/13/21 03:16 | 1 |
| 4-Ethyltoluene | ND | | 0.50 | 0.25 | ppb v/v | | | 05/13/21 03:16 | 1 |
| 4-Methyl-2-pentanone | ND | | 1.5 | 0.56 | ppb v/v | | | 05/13/21 03:16 | 1 |
| **Acetone** | **11** | | 2.0 | 0.40 | ppb v/v | | | 05/13/21 03:16 | 1 |
| **Benzene** | **0.19** | **J** | 0.50 | 0.16 | ppb v/v | | | 05/13/21 03:16 | 1 |
| Benzyl chloride | ND | | 1.5 | 0.51 | ppb v/v | | | 05/13/21 03:16 | 1 |
| Bromodichloromethane | ND | | 0.50 | 0.11 | ppb v/v | | | 05/13/21 03:16 | 1 |
| Bromoform | ND | | 0.50 | 0.17 | ppb v/v | | | 05/13/21 03:16 | 1 |
| Bromomethane | ND | | 0.50 | 0.14 | ppb v/v | | | 05/13/21 03:16 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 0.14 | ppb v/v | | | 05/13/21 03:16 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.22 | ppb v/v | | | 05/13/21 03:16 | 1 |
| **Carbon disulfide** | **0.66** | **J** | 2.0 | 0.19 | ppb v/v | | | 05/13/21 03:16 | 1 |
| Carbon tetrachloride | ND | | 0.50 | 0.21 | ppb v/v | | | 05/13/21 03:16 | 1 |
| Chlorobenzene | ND | | 0.50 | 0.13 | ppb v/v | | | 05/13/21 03:16 | 1 |
| Chloroethane | ND | | 0.50 | 0.17 | ppb v/v | | | 05/13/21 03:16 | 1 |
| Chloroform | ND | | 0.50 | 0.16 | ppb v/v | | | 05/13/21 03:16 | 1 |
| **Chloromethane** | **0.36** | **J** | 0.50 | 0.16 | ppb v/v | | | 05/13/21 03:16 | 1 |
| Dibromochloromethane | ND | | 0.50 | 0.16 | ppb v/v | | | 05/13/21 03:16 | 1 |
| **Dichlorodifluoromethane** | **0.46** | **J** | 0.50 | 0.20 | ppb v/v | | | 05/13/21 03:16 | 1 |
| Dichlorotetrafluoroethane | ND | | 2.0 | 0.19 | ppb v/v | | | 05/13/21 03:16 | 1 |
| Di-isopropyl ether (DIPE) | ND | | 2.0 | 0.35 | ppb v/v | | | 05/13/21 03:16 | 1 |
| Ethylbenzene | ND | | 0.50 | 0.25 | ppb v/v | | | 05/13/21 03:16 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 2.0 | 0.29 | ppb v/v | | | 05/13/21 03:16 | 1 |
| Hexachloro-1,3-butadiene | ND | | 1.5 | 0.58 | ppb v/v | | | 05/13/21 03:16 | 1 |
| **Methylene Chloride** | **0.54** | **J** | 5.0 | 0.54 | ppb v/v | | | 05/13/21 03:16 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 2.0 | 0.34 | ppb v/v | | | 05/13/21 03:16 | 1 |
| n-Butylbenzene | ND | | 1.5 | 0.43 | ppb v/v | | | 05/13/21 03:16 | 1 |
| o-Xylene | ND | | 0.50 | 0.20 | ppb v/v | | | 05/13/21 03:16 | 1 |
| m,p-Xylene | ND | | 2.0 | 0.63 | ppb v/v | | | 05/13/21 03:16 | 1 |
| sec-Butylbenzene | ND | | 1.5 | 0.29 | ppb v/v | | | 05/13/21 03:16 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: VP-1**
**Lab Sample ID: 570-58555-5**
**Date Collected: 05/04/21 09:12**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Styrene | ND | | 1.5 | 0.53 | ppb v/v | | | 05/13/21 03:16 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 0.13 | ppb v/v | | | 05/13/21 03:16 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.21 | ppb v/v | | | 05/13/21 03:16 | 1 |
| Tert-amyl methyl ether | ND | | 2.0 | 0.44 | ppb v/v | | | 05/13/21 03:16 | 1 |
| tert-Butyl alcohol (TBA) | ND | | 2.0 | 0.38 | ppb v/v | | | 05/13/21 03:16 | 1 |
| tert-Butylbenzene | ND | | 1.5 | 0.27 | ppb v/v | | | 05/13/21 03:16 | 1 |
| **Tetrachloroethene** | **0.21** | **J** | 0.50 | 0.17 | ppb v/v | | | 05/13/21 03:16 | 1 |
| **Toluene** | **1.9** | | 0.50 | 0.13 | ppb v/v | | | 05/13/21 03:16 | 1 |
| Trichloroethene | ND | | 0.50 | 0.18 | ppb v/v | | | 05/13/21 03:16 | 1 |
| **Trichlorofluoromethane** | **0.30** | **J *1** | 1.0 | 0.24 | ppb v/v | | | 05/13/21 03:16 | 1 |
| Vinyl acetate | ND | | 2.0 | 0.35 | ppb v/v | | | 05/13/21 03:16 | 1 |
| Vinyl chloride | ND | | 0.50 | 0.16 | ppb v/v | | | 05/13/21 03:16 | 1 |
| Naphthalene | ND | | 1.3 | 0.59 | ppb v/v | | | 05/13/21 03:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *93* | | *70 - 131* | | *05/13/21 03:16* | *1* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *70 - 130* | | *05/13/21 03:16* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *70 - 130* | | *05/13/21 03:16* | *1* |

**Client Sample ID: VP-2**
**Lab Sample ID: 570-58555-6**
**Date Collected: 05/04/21 09:47**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 0.61 | 0.18 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.2 | 0.20 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.8 | 0.36 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| 1,1,2-Trichloroethane | ND | | 0.61 | 0.17 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| 1,1-Dichloroethane | ND | | 0.61 | 0.13 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| 1,1-Dichloroethene | ND | | 0.61 | 0.21 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| 1,1-Difluoroethane | ND | | 2.4 | 0.45 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| 1,2,4-Trichlorobenzene | ND | | 2.4 | 0.81 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| 1,2,4-Trimethylbenzene | ND | | 1.8 | 0.41 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.8 | 0.35 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| 1,2-Dibromoethane | ND | | 0.61 | 0.21 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| 1,2-Dichlorobenzene | ND | | 0.61 | 0.30 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| 1,2-Dichloroethane | ND | | 0.61 | 0.18 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| 1,2-Dichloropropane | ND | | 0.61 | 0.17 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| 1,3,5-Trimethylbenzene | ND | | 0.61 | 0.25 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| 1,3-Dichlorobenzene | ND | | 0.61 | 0.30 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| 1,4-Dichlorobenzene | ND | | 0.61 | 0.31 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| **2-Butanone** | **4.6** | | 1.8 | 0.50 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| 2-Hexanone | ND | | 1.8 | 0.78 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| 4-Ethyltoluene | ND | | 0.61 | 0.31 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| 4-Methyl-2-pentanone | ND | | 1.8 | 0.68 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| **Acetone** | **24** | | 2.4 | 0.49 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| Benzene | ND | | 0.61 | 0.19 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| Benzyl chloride | ND | | 1.8 | 0.63 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| Bromodichloromethane | ND | | 0.61 | 0.14 | ppb v/v | | | 05/13/21 04:12 | 1.223 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: VP-2**
**Lab Sample ID: 570-58555-6**
**Date Collected: 05/04/21 09:47**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromoform | ND | | 0.61 | 0.21 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| Bromomethane | ND | | 0.61 | 0.17 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| cis-1,2-Dichloroethene | ND | | 0.61 | 0.17 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| cis-1,3-Dichloropropene | ND | | 0.61 | 0.26 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| **Carbon disulfide** | **0.31** | **J** | 2.4 | 0.23 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| Carbon tetrachloride | ND | | 0.61 | 0.25 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| Chlorobenzene | ND | | 0.61 | 0.16 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| Chloroethane | ND | | 0.61 | 0.21 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| Chloroform | ND | | 0.61 | 0.20 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| **Chloromethane** | **1.0** | | 0.61 | 0.20 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| Dibromochloromethane | ND | | 0.61 | 0.19 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| **Dichlorodifluoromethane** | **0.49** | **J** | 0.61 | 0.24 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| Dichlorotetrafluoroethane | ND | | 2.4 | 0.23 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| Di-isopropyl ether (DIPE) | ND | | 2.4 | 0.42 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| Ethylbenzene | ND | | 0.61 | 0.31 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| Ethyl-t-butyl ether (ETBE) | ND | | 2.4 | 0.36 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| Hexachloro-1,3-butadiene | ND | | 1.8 | 0.71 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| **Isopropanol** | **10** | ***1** | 6.1 | 0.48 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| Methylene Chloride | ND | | 6.1 | 0.66 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 2.4 | 0.41 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| n-Butylbenzene | ND | | 1.8 | 0.52 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| o-Xylene | ND | | 0.61 | 0.24 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| m,p-Xylene | ND | | 2.4 | 0.77 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| sec-Butylbenzene | ND | | 1.8 | 0.36 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| Styrene | ND | | 1.8 | 0.65 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| trans-1,2-Dichloroethene | ND | | 0.61 | 0.16 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| trans-1,3-Dichloropropene | ND | | 1.2 | 0.26 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| Tert-amyl methyl ether | ND | | 2.4 | 0.54 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| tert-Butyl alcohol (TBA) | ND | | 2.4 | 0.46 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| tert-Butylbenzene | ND | | 1.8 | 0.34 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| **Tetrachloroethene** | **0.59** | **J** | 0.61 | 0.20 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| **Toluene** | **0.27** | **J** | 0.61 | 0.16 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| **Trichloroethene** | **2.1** | | 0.61 | 0.22 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| **Trichlorofluoromethane** | **0.33** | **J *1** | 1.2 | 0.29 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| **Vinyl acetate** | **1.6** | **J** | 2.4 | 0.43 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| Vinyl chloride | ND | | 0.61 | 0.20 | ppb v/v | | | 05/13/21 04:12 | 1.223 |
| Naphthalene | ND | | 1.5 | 0.73 | ppb v/v | | | 05/13/21 04:12 | 1.223 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *95* | | *70 - 131* | | *05/13/21 04:12* | *1.223* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *70 - 130* | | *05/13/21 04:12* | *1.223* |
| *Toluene-d8 (Surr)* | *93* | | *70 - 130* | | *05/13/21 04:12* | *1.223* |

**Client Sample ID: VP-3**
**Lab Sample ID: 570-58555-7**
**Date Collected: 05/04/21 10:23**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 0.69 | 0.20 | ppb v/v | | | 05/13/21 05:07 | 1.384 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: VP-3**
**Lab Sample ID: 570-58555-7**
**Date Collected: 05/04/21 10:23**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | | 1.4 | 0.23 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.1 | 0.41 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| 1,1,2-Trichloroethane | ND | | 0.69 | 0.19 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| 1,1-Dichloroethane | ND | | 0.69 | 0.14 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| 1,1-Dichloroethene | ND | | 0.69 | 0.24 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| 1,1-Difluoroethane | ND | | 2.8 | 0.51 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| 1,2,4-Trichlorobenzene | ND | | 2.8 | 0.91 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| 1,2,4-Trimethylbenzene | ND | | 2.1 | 0.46 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.1 | 0.40 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| 1,2-Dibromoethane | ND | | 0.69 | 0.24 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| 1,2-Dichlorobenzene | ND | | 0.69 | 0.34 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| 1,2-Dichloroethane | ND | | 0.69 | 0.20 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| 1,2-Dichloropropane | ND | | 0.69 | 0.19 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| 1,3,5-Trimethylbenzene | ND | | 0.69 | 0.28 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| 1,3-Dichlorobenzene | ND | | 0.69 | 0.34 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| 1,4-Dichlorobenzene | ND | | 0.69 | 0.35 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| **2-Butanone** | **1.5** | **J** | 2.1 | 0.57 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| 2-Hexanone | ND | | 2.1 | 0.88 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| 4-Ethyltoluene | ND | | 0.69 | 0.35 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| 4-Methyl-2-pentanone | ND | | 2.1 | 0.77 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| **Acetone** | **14** | | 2.8 | 0.55 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| **Benzene** | **1.1** | | 0.69 | 0.22 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| Benzyl chloride | ND | | 2.1 | 0.71 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| Bromodichloromethane | ND | | 0.69 | 0.15 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| Bromoform | ND | | 0.69 | 0.24 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| **Bromomethane** | **0.65** | **J** | 0.69 | 0.19 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| **cis-1,2-Dichloroethene** | **2.7** | | 0.69 | 0.19 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| cis-1,3-Dichloropropene | ND | | 0.69 | 0.30 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| Carbon disulfide | ND | | 2.8 | 0.26 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| Carbon tetrachloride | ND | | 0.69 | 0.28 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| Chlorobenzene | ND | | 0.69 | 0.18 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| Chloroethane | ND | | 0.69 | 0.24 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| Chloroform | ND | | 0.69 | 0.22 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| **Chloromethane** | **0.60** | **J** | 0.69 | 0.22 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| Dibromochloromethane | ND | | 0.69 | 0.21 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| **Dichlorodifluoromethane** | **0.44** | **J** | 0.69 | 0.28 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| Dichlorotetrafluoroethane | ND | | 2.8 | 0.26 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| Di-isopropyl ether (DIPE) | ND | | 2.8 | 0.48 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| **Ethylbenzene** | **0.40** | **J** | 0.69 | 0.35 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| Ethyl-t-butyl ether (ETBE) | ND | | 2.8 | 0.40 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| Hexachloro-1,3-butadiene | ND | | 2.1 | 0.81 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| **Isopropanol** | **7.0** | ***1** | 6.9 | 0.54 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| Methylene Chloride | ND | | 6.9 | 0.74 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 2.8 | 0.47 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| n-Butylbenzene | ND | | 2.1 | 0.59 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| o-Xylene | ND | | 0.69 | 0.27 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| m,p-Xylene | ND | | 2.8 | 0.87 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| sec-Butylbenzene | ND | | 2.1 | 0.41 | ppb v/v | | | 05/13/21 05:07 | 1.384 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: VP-3**
**Lab Sample ID: 570-58555-7**
**Date Collected: 05/04/21 10:23**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Styrene | ND | | 2.1 | 0.73 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| trans-1,2-Dichloroethene | ND | | 0.69 | 0.18 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| trans-1,3-Dichloropropene | ND | | 1.4 | 0.29 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| Tert-amyl methyl ether | ND | | 2.8 | 0.61 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| tert-Butyl alcohol (TBA) | ND | | 2.8 | 0.52 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| tert-Butylbenzene | ND | | 2.1 | 0.38 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| **Tetrachloroethene** | **2.0** | | 0.69 | 0.23 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| Toluene | ND | | 0.69 | 0.18 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| **Trichloroethene** | **0.69** | | 0.69 | 0.25 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| Trichlorofluoromethane | ND | *1 | 1.4 | 0.33 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| **Vinyl acetate** | **1.6** | **J** | 2.8 | 0.49 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| Vinyl chloride | ND | | 0.69 | 0.22 | ppb v/v | | | 05/13/21 05:07 | 1.384 |
| Naphthalene | ND | | 1.7 | 0.82 | ppb v/v | | | 05/13/21 05:07 | 1.384 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *94* | | *70 - 131* | | *05/13/21 05:07* | *1.384* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *70 - 130* | | *05/13/21 05:07* | *1.384* |
| *Toluene-d8 (Surr)* | *94* | | *70 - 130* | | *05/13/21 05:07* | *1.384* |

**Client Sample ID: VP-4**
**Lab Sample ID: 570-58555-8**
**Date Collected: 05/04/21 10:57**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 0.56 | 0.16 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.1 | 0.18 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.7 | 0.33 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| 1,1,2-Trichloroethane | ND | | 0.56 | 0.15 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| 1,1-Dichloroethane | ND | | 0.56 | 0.12 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| 1,1-Dichloroethene | ND | | 0.56 | 0.19 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| 1,1-Difluoroethane | ND | | 2.2 | 0.41 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| 1,2,4-Trichlorobenzene | ND | | 2.2 | 0.74 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| 1,2,4-Trimethylbenzene | ND | | 1.7 | 0.37 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.7 | 0.32 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| 1,2-Dibromoethane | ND | | 0.56 | 0.19 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| 1,2-Dichlorobenzene | ND | | 0.56 | 0.27 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| 1,2-Dichloroethane | ND | | 0.56 | 0.16 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| 1,2-Dichloropropane | ND | | 0.56 | 0.15 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| 1,3,5-Trimethylbenzene | ND | | 0.56 | 0.23 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| 1,3-Dichlorobenzene | ND | | 0.56 | 0.27 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| 1,4-Dichlorobenzene | ND | | 0.56 | 0.28 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| **2-Butanone** | **1.6** | **J** | 1.7 | 0.46 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| 2-Hexanone | ND | | 1.7 | 0.71 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| 4-Ethyltoluene | ND | | 0.56 | 0.28 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| 4-Methyl-2-pentanone | ND | | 1.7 | 0.62 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| **Acetone** | **24** | | 2.2 | 0.44 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| **Benzene** | **0.26** | **J** | 0.56 | 0.17 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| Benzyl chloride | ND | | 1.7 | 0.57 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| Bromodichloromethane | ND | | 0.56 | 0.12 | ppb v/v | | | 05/13/21 06:02 | 1.114 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: VP-4**
**Lab Sample ID: 570-58555-8**
**Date Collected: 05/04/21 10:57**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromoform | ND | | 0.56 | 0.19 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| Bromomethane | ND | | 0.56 | 0.15 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| cis-1,2-Dichloroethene | ND | | 0.56 | 0.15 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| cis-1,3-Dichloropropene | ND | | 0.56 | 0.24 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| **Carbon disulfide** | **0.22** | **J** | 2.2 | 0.21 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| Carbon tetrachloride | ND | | 0.56 | 0.23 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| Chlorobenzene | ND | | 0.56 | 0.14 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| Chloroethane | ND | | 0.56 | 0.19 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| **Chloroform** | **0.18** | **J** | 0.56 | 0.18 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| **Chloromethane** | **1.5** | | 0.56 | 0.18 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| Dibromochloromethane | ND | | 0.56 | 0.17 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| **Dichlorodifluoromethane** | **0.46** | **J** | 0.56 | 0.22 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| Dichlorotetrafluoroethane | ND | | 2.2 | 0.21 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| Di-isopropyl ether (DIPE) | ND | | 2.2 | 0.39 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| Ethylbenzene | ND | | 0.56 | 0.28 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| Ethyl-t-butyl ether (ETBE) | ND | | 2.2 | 0.32 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| Hexachloro-1,3-butadiene | ND | | 1.7 | 0.65 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| **Isopropanol** | **11** | ***1** | 5.6 | 0.44 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| Methylene Chloride | ND | | 5.6 | 0.60 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 2.2 | 0.38 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| n-Butylbenzene | ND | | 1.7 | 0.48 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| o-Xylene | ND | | 0.56 | 0.22 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| m,p-Xylene | ND | | 2.2 | 0.70 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| sec-Butylbenzene | ND | | 1.7 | 0.33 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| Styrene | ND | | 1.7 | 0.59 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| trans-1,2-Dichloroethene | ND | | 0.56 | 0.14 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| trans-1,3-Dichloropropene | ND | | 1.1 | 0.24 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| Tert-amyl methyl ether | ND | | 2.2 | 0.49 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| tert-Butyl alcohol (TBA) | ND | | 2.2 | 0.42 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| tert-Butylbenzene | ND | | 1.7 | 0.31 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| Tetrachloroethene | ND | | 0.56 | 0.19 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| **Toluene** | **0.71** | | 0.56 | 0.15 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| Trichloroethene | ND | | 0.56 | 0.20 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| **Trichlorofluoromethane** | **0.28** | **J *1** | 1.1 | 0.26 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| **Vinyl acetate** | **1.3** | **J** | 2.2 | 0.39 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| Vinyl chloride | ND | | 0.56 | 0.18 | ppb v/v | | | 05/13/21 06:02 | 1.114 |
| Naphthalene | ND | | 1.4 | 0.66 | ppb v/v | | | 05/13/21 06:02 | 1.114 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *94* | | *70 - 131* | | *05/13/21 06:02* | *1.114* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *70 - 130* | | *05/13/21 06:02* | *1.114* |
| *Toluene-d8 (Surr)* | *93* | | *70 - 130* | | *05/13/21 06:02* | *1.114* |

**Client Sample ID: VP-5**
**Lab Sample ID: 570-58555-9**
**Date Collected: 05/04/21 12:47**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 0.88 | 0.25 | ppb v/v | | | 05/13/21 06:57 | 1.754 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: VP-5**
**Lab Sample ID: 570-58555-9**
**Date Collected: 05/04/21 12:47**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | | 1.8 | 0.29 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.6 | 0.52 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| 1,1,2-Trichloroethane | ND | | 0.88 | 0.24 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| 1,1-Dichloroethane | ND | | 0.88 | 0.18 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| 1,1-Dichloroethene | ND | | 0.88 | 0.31 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| 1,1-Difluoroethane | ND | | 3.5 | 0.64 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| 1,2,4-Trichlorobenzene | ND | | 3.5 | 1.2 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| 1,2,4-Trimethylbenzene | ND | | 2.6 | 0.58 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.6 | 0.51 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| 1,2-Dibromoethane | ND | | 0.88 | 0.31 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| 1,2-Dichlorobenzene | ND | | 0.88 | 0.43 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| 1,2-Dichloroethane | ND | | 0.88 | 0.25 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| 1,2-Dichloropropane | ND | | 0.88 | 0.24 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| 1,3,5-Trimethylbenzene | ND | | 0.88 | 0.36 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| 1,3-Dichlorobenzene | ND | | 0.88 | 0.43 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| 1,4-Dichlorobenzene | ND | | 0.88 | 0.44 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| **2-Butanone** | **5.0** | | 2.6 | 0.72 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| 2-Hexanone | ND | | 2.6 | 1.1 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| 4-Ethyltoluene | ND | | 0.88 | 0.44 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| 4-Methyl-2-pentanone | ND | | 2.6 | 0.98 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| **Acetone** | **60** | | 3.5 | 0.70 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| Benzene | ND | | 0.88 | 0.28 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| Benzyl chloride | ND | | 2.6 | 0.90 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| Bromodichloromethane | ND | | 0.88 | 0.19 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| Bromoform | ND | | 0.88 | 0.30 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| **Bromomethane** | **0.50** | **J** | 0.88 | 0.24 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| cis-1,2-Dichloroethene | ND | | 0.88 | 0.24 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| cis-1,3-Dichloropropene | ND | | 0.88 | 0.38 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| Carbon disulfide | ND | | 3.5 | 0.33 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| Carbon tetrachloride | ND | | 0.88 | 0.36 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| Chlorobenzene | ND | | 0.88 | 0.23 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| **Chloroethane** | **1.2** | | 0.88 | 0.30 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| Chloroform | ND | | 0.88 | 0.28 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| **Chloromethane** | **12** | | 0.88 | 0.28 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| Dibromochloromethane | ND | | 0.88 | 0.27 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| **Dichlorodifluoromethane** | **0.45** | **J** | 0.88 | 0.35 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| Dichlorotetrafluoroethane | ND | | 3.5 | 0.33 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| Di-isopropyl ether (DIPE) | ND | | 3.5 | 0.61 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| Ethylbenzene | ND | | 0.88 | 0.44 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| Ethyl-t-butyl ether (ETBE) | ND | | 3.5 | 0.51 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| Hexachloro-1,3-butadiene | ND | | 2.6 | 1.0 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| **Isopropanol** | **3.7** | **J *1** | 8.8 | 0.69 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| **Methylene Chloride** | **0.98** | **J** | 8.8 | 0.94 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 3.5 | 0.59 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| n-Butylbenzene | ND | | 2.6 | 0.75 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| o-Xylene | ND | | 0.88 | 0.35 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| m,p-Xylene | ND | | 3.5 | 1.1 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| sec-Butylbenzene | ND | | 2.6 | 0.52 | ppb v/v | | | 05/13/21 06:57 | 1.754 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: VP-5**
**Lab Sample ID: 570-58555-9**
**Date Collected: 05/04/21 12:47**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Styrene | ND | | 2.6 | 0.93 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| trans-1,2-Dichloroethene | ND | | 0.88 | 0.22 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| trans-1,3-Dichloropropene | ND | | 1.8 | 0.37 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| Tert-amyl methyl ether | ND | | 3.5 | 0.78 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| tert-Butyl alcohol (TBA) | ND | | 3.5 | 0.66 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| tert-Butylbenzene | ND | | 2.6 | 0.48 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| Tetrachloroethene | ND | | 0.88 | 0.29 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| Toluene | ND | | 0.88 | 0.23 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| **Trichloroethene** | **0.61** | **J** | 0.88 | 0.31 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| Trichlorofluoromethane | ND | *1 | 1.8 | 0.41 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| **Vinyl acetate** | **4.5** | | 3.5 | 0.62 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| **Vinyl chloride** | **0.51** | **J** | 0.88 | 0.28 | ppb v/v | | | 05/13/21 06:57 | 1.754 |
| Naphthalene | ND | | 2.2 | 1.0 | ppb v/v | | | 05/13/21 06:57 | 1.754 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *95* | | *70 - 131* | | *05/13/21 06:57* | *1.754* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *70 - 130* | | *05/13/21 06:57* | *1.754* |
| *Toluene-d8 (Surr)* | *92* | | *70 - 130* | | *05/13/21 06:57* | *1.754* |

**Client Sample ID: VP-6**
**Lab Sample ID: 570-58555-10**
**Date Collected: 05/06/21 09:23**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 0.68 | 0.20 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.4 | 0.23 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.0 | 0.40 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| 1,1,2-Trichloroethane | ND | | 0.68 | 0.19 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| 1,1-Dichloroethane | ND | | 0.68 | 0.14 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| 1,1-Dichloroethene | ND | | 0.68 | 0.24 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| 1,1-Difluoroethane | ND | | 2.7 | 0.50 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| 1,2,4-Trichlorobenzene | ND | | 2.7 | 0.89 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| 1,2,4-Trimethylbenzene | ND | | 2.0 | 0.45 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.0 | 0.39 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| 1,2-Dibromoethane | ND | | 0.68 | 0.24 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| 1,2-Dichlorobenzene | ND | | 0.68 | 0.33 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| 1,2-Dichloroethane | ND | | 0.68 | 0.20 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| 1,2-Dichloropropane | ND | | 0.68 | 0.19 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| 1,3,5-Trimethylbenzene | ND | | 0.68 | 0.28 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| 1,3-Dichlorobenzene | ND | | 0.68 | 0.33 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| 1,4-Dichlorobenzene | ND | | 0.68 | 0.34 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| **2-Butanone** | **0.88** | **J** | 2.0 | 0.56 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| 2-Hexanone | ND | | 2.0 | 0.86 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| 4-Ethyltoluene | ND | | 0.68 | 0.34 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| 4-Methyl-2-pentanone | ND | | 2.0 | 0.76 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| **Acetone** | **7.3** | | 2.7 | 0.54 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Benzene | ND | | 0.68 | 0.21 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Benzyl chloride | ND | | 2.0 | 0.69 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Bromodichloromethane | ND | | 0.68 | 0.15 | ppb v/v | | | 05/13/21 07:52 | 1.356 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: VP-6**
**Lab Sample ID: 570-58555-10**
**Date Collected: 05/06/21 09:23**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromoform | ND | | 0.68 | 0.23 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Bromomethane | ND | | 0.68 | 0.19 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| cis-1,2-Dichloroethene | ND | | 0.68 | 0.19 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| cis-1,3-Dichloropropene | ND | | 0.68 | 0.29 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Carbon disulfide | ND | | 2.7 | 0.25 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Carbon tetrachloride | ND | | 0.68 | 0.28 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Chlorobenzene | ND | | 0.68 | 0.18 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Chloroethane | ND | | 0.68 | 0.23 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Chloroform | ND | | 0.68 | 0.22 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| **Chloromethane** | **0.37** | **J** | 0.68 | 0.22 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Dibromochloromethane | ND | | 0.68 | 0.21 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| **Dichlorodifluoromethane** | **0.45** | **J** | 0.68 | 0.27 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Dichlorotetrafluoroethane | ND | | 2.7 | 0.26 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Di-isopropyl ether (DIPE) | ND | | 2.7 | 0.47 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Ethylbenzene | ND | | 0.68 | 0.34 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Ethyl-t-butyl ether (ETBE) | ND | | 2.7 | 0.39 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Hexachloro-1,3-butadiene | ND | | 2.0 | 0.79 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| **Isopropanol** | **11** | ***1** | 6.8 | 0.53 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Methylene Chloride | ND | | 6.8 | 0.73 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 2.7 | 0.46 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| n-Butylbenzene | ND | | 2.0 | 0.58 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| o-Xylene | ND | | 0.68 | 0.27 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| m,p-Xylene | ND | | 2.7 | 0.85 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| sec-Butylbenzene | ND | | 2.0 | 0.40 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Styrene | ND | | 2.0 | 0.72 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| trans-1,2-Dichloroethene | ND | | 0.68 | 0.17 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| trans-1,3-Dichloropropene | ND | | 1.4 | 0.29 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Tert-amyl methyl ether | ND | | 2.7 | 0.60 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| tert-Butyl alcohol (TBA) | ND | | 2.7 | 0.51 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| tert-Butylbenzene | ND | | 2.0 | 0.37 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| **Tetrachloroethene** | **0.81** | | 0.68 | 0.23 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| **Toluene** | **0.19** | **J** | 0.68 | 0.18 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| **Trichloroethene** | **0.98** | | 0.68 | 0.24 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| **Trichlorofluoromethane** | **0.33** | **J *1** | 1.4 | 0.32 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Vinyl acetate | ND | | 2.7 | 0.48 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Vinyl chloride | ND | | 0.68 | 0.22 | ppb v/v | | | 05/13/21 07:52 | 1.356 |
| Naphthalene | ND | | 1.7 | 0.81 | ppb v/v | | | 05/13/21 07:52 | 1.356 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *94* | | *70 - 131* | | *05/13/21 07:52* | *1.356* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *70 - 130* | | *05/13/21 07:52* | *1.356* |
| *Toluene-d8 (Surr)* | *94* | | *70 - 130* | | *05/13/21 07:52* | *1.356* |

**Client Sample ID: DUP-1**
**Lab Sample ID: 570-58555-11**
**Date Collected: 05/06/21 00:00**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 0.66 | 0.19 | ppb v/v | | | 05/13/21 08:47 | 1.32 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: DUP-1**
**Lab Sample ID: 570-58555-11**
**Date Collected: 05/06/21 00:00**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | | 1.3 | 0.22 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.0 | 0.39 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| 1,1,2-Trichloroethane | ND | | 0.66 | 0.18 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| 1,1-Dichloroethane | ND | | 0.66 | 0.14 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| 1,1-Dichloroethene | ND | | 0.66 | 0.23 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| 1,1-Difluoroethane | ND | | 2.6 | 0.48 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| 1,2,4-Trichlorobenzene | ND | | 2.6 | 0.87 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| 1,2,4-Trimethylbenzene | ND | | 2.0 | 0.44 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.0 | 0.38 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| 1,2-Dibromoethane | ND | | 0.66 | 0.23 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| 1,2-Dichlorobenzene | ND | | 0.66 | 0.32 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| 1,2-Dichloroethane | ND | | 0.66 | 0.19 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| 1,2-Dichloropropane | ND | | 0.66 | 0.18 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| 1,3,5-Trimethylbenzene | ND | | 0.66 | 0.27 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| 1,3-Dichlorobenzene | ND | | 0.66 | 0.32 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| 1,4-Dichlorobenzene | ND | | 0.66 | 0.33 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| **2-Butanone** | **1.5** | **J** | 2.0 | 0.54 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| 2-Hexanone | ND | | 2.0 | 0.84 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| 4-Ethyltoluene | ND | | 0.66 | 0.33 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| 4-Methyl-2-pentanone | ND | | 2.0 | 0.74 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| **Acetone** | **20** | | 2.6 | 0.52 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| Benzene | ND | | 0.66 | 0.21 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| Benzyl chloride | ND | | 2.0 | 0.68 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| Bromodichloromethane | ND | | 0.66 | 0.15 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| Bromoform | ND | | 0.66 | 0.23 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| Bromomethane | ND | | 0.66 | 0.18 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| cis-1,2-Dichloroethene | ND | | 0.66 | 0.18 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| cis-1,3-Dichloropropene | ND | | 0.66 | 0.29 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| Carbon disulfide | ND | | 2.6 | 0.25 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| Carbon tetrachloride | ND | | 0.66 | 0.27 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| Chlorobenzene | ND | | 0.66 | 0.17 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| Chloroethane | ND | | 0.66 | 0.23 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| Chloroform | ND | | 0.66 | 0.21 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| **Chloromethane** | **0.36** | **J** | 0.66 | 0.21 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| Dibromochloromethane | ND | | 0.66 | 0.20 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| **Dichlorodifluoromethane** | **0.47** | **J** | 0.66 | 0.26 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| Dichlorotetrafluoroethane | ND | | 2.6 | 0.25 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| Di-isopropyl ether (DIPE) | ND | | 2.6 | 0.46 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| Ethylbenzene | ND | | 0.66 | 0.33 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| Ethyl-t-butyl ether (ETBE) | ND | | 2.6 | 0.38 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| Hexachloro-1,3-butadiene | ND | | 2.0 | 0.77 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| **Isopropanol** | **21** | ***1** | 6.6 | 0.52 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| Methylene Chloride | ND | | 6.6 | 0.71 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 2.6 | 0.44 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| n-Butylbenzene | ND | | 2.0 | 0.56 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| o-Xylene | ND | | 0.66 | 0.26 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| m,p-Xylene | ND | | 2.6 | 0.83 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| sec-Butylbenzene | ND | | 2.0 | 0.39 | ppb v/v | | | 05/13/21 08:47 | 1.32 |

Client: ARCADIS U.S. Inc
Job ID: 570-58555-1
Project/Site: Chevron 206145 Oakland Center Street

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: DUP-1**
**Lab Sample ID: 570-58555-11**
**Date Collected: 05/06/21 00:00**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Styrene | ND | | 2.0 | 0.70 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| trans-1,2-Dichloroethene | ND | | 0.66 | 0.17 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| trans-1,3-Dichloropropene | ND | | 1.3 | 0.28 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| Tert-amyl methyl ether | ND | | 2.6 | 0.58 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| tert-Butyl alcohol (TBA) | ND | | 2.6 | 0.50 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| tert-Butylbenzene | ND | | 2.0 | 0.36 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| **Tetrachloroethene** | **2.4** | | 0.66 | 0.22 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| **Toluene** | **0.23** | **J** | 0.66 | 0.18 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| **Trichloroethene** | **2.0** | | 0.66 | 0.23 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| **Trichlorofluoromethane** | **0.35** | **J *1** | 1.3 | 0.31 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| **Vinyl acetate** | **0.89** | **J** | 2.6 | 0.47 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| Vinyl chloride | ND | | 0.66 | 0.21 | ppb v/v | | | 05/13/21 08:47 | 1.32 |
| Naphthalene | ND | | 1.7 | 0.78 | ppb v/v | | | 05/13/21 08:47 | 1.32 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *95* | | *70 - 131* | | *05/13/21 08:47* | *1.32* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *70 - 130* | | *05/13/21 08:47* | *1.32* |
| *Toluene-d8 (Surr)* | *92* | | *70 - 130* | | *05/13/21 08:47* | *1.32* |

Client: ARCADIS U.S. Inc
Job ID: 570-58555-1
Project/Site: Chevron 206145 Oakland Center Street

## Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

**Client Sample ID: VP-1**
**Lab Sample ID: 570-58555-5**
**Date Collected: 05/04/21 09:12**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Isopropanol** | **320** | | 28 | 2.2 | ppb v/v | | | 05/13/21 16:48 | 5.6 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *70 - 131* | | *05/13/21 16:48* | *5.6* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *70 - 130* | | *05/13/21 16:48* | *5.6* |
| *Toluene-d8 (Surr)* | *99* | | *70 - 130* | | *05/13/21 16:48* | *5.6* |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air - RA

**Client Sample ID: EQB**
**Lab Sample ID: 570-58555-12**
**Date Collected: 05/06/21 11:52**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 0.99 | 0.29 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.0 | 0.33 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.0 | 0.58 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| 1,1,2-Trichloroethane | ND | | 0.99 | 0.28 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| 1,1-Dichloroethane | ND | | 0.99 | 0.21 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| 1,1-Dichloroethene | ND | | 0.99 | 0.35 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| 1,1-Difluoroethane | ND | | 4.0 | 0.72 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| 1,2,4-Trichlorobenzene | ND | | 4.0 | 1.3 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| 1,2,4-Trimethylbenzene | ND | | 3.0 | 0.66 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| 1,2-Dibromo-3-Chloropropane | ND | | 3.0 | 0.57 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| 1,2-Dibromoethane | ND | | 0.99 | 0.34 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| 1,2-Dichlorobenzene | ND | | 0.99 | 0.49 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| 1,2-Dichloroethane | ND | | 0.99 | 0.29 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| 1,2-Dichloropropane | ND | | 0.99 | 0.27 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| 1,3,5-Trimethylbenzene | ND | | 0.99 | 0.40 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| 1,3-Dichlorobenzene | ND | | 0.99 | 0.48 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| 1,4-Dichlorobenzene | ND | | 0.99 | 0.50 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| 2-Butanone | ND | | 3.0 | 0.81 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| 2-Hexanone | ND | | 3.0 | 1.3 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| 4-Ethyltoluene | ND | | 0.99 | 0.50 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| 4-Methyl-2-pentanone | ND | | 3.0 | 1.1 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| **Acetone** | **7.1** | | 4.0 | 0.79 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Benzene | ND | | 0.99 | 0.31 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Benzyl chloride | ND | | 3.0 | 1.0 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Bromodichloromethane | ND | | 0.99 | 0.22 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Bromoform | ND | | 0.99 | 0.34 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Bromomethane | ND | | 0.99 | 0.27 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| cis-1,2-Dichloroethene | ND | | 0.99 | 0.27 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| cis-1,3-Dichloropropene | ND | | 0.99 | 0.43 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Carbon disulfide | ND | | 4.0 | 0.37 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Carbon tetrachloride | ND | | 0.99 | 0.41 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Chlorobenzene | ND | | 0.99 | 0.26 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Chloroethane | ND | | 0.99 | 0.34 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Chloroform | ND | | 0.99 | 0.32 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Chloromethane | ND | | 0.99 | 0.32 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Dibromochloromethane | ND | | 0.99 | 0.31 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Dichlorodifluoromethane | ND | | 0.99 | 0.39 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Dichlorotetrafluoroethane | ND | | 4.0 | 0.37 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Di-isopropyl ether (DIPE) | ND | | 4.0 | 0.69 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Ethylbenzene | ND | | 0.99 | 0.50 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Ethyl-t-butyl ether (ETBE) | ND | | 4.0 | 0.58 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Hexachloro-1,3-butadiene | ND | | 3.0 | 1.2 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| **Isopropanol** | **25** | | 9.9 | 0.78 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| **Methylene Chloride** | **1.9** | **J** | 9.9 | 1.1 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 4.0 | 0.67 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| n-Butylbenzene | ND | | 3.0 | 0.85 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| o-Xylene | ND | | 0.99 | 0.39 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| m,p-Xylene | ND | | 4.0 | 1.2 | ppb v/v | | | 05/13/21 18:16 | 1.98 |

Client: ARCADIS U.S. Inc
Job ID: 570-58555-1
Project/Site: Chevron 206145 Oakland Center Street

## Method: TO-15 - Volatile Organic Compounds in Ambient Air - RA (Continued)

**Client Sample ID: EQB**
**Lab Sample ID: 570-58555-12**
**Date Collected: 05/06/21 11:52**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | | 3.0 | 0.58 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Styrene | ND | | 3.0 | 1.0 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| trans-1,2-Dichloroethene | ND | | 0.99 | 0.25 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| trans-1,3-Dichloropropene | ND | | 2.0 | 0.42 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Tert-amyl methyl ether | ND | | 4.0 | 0.88 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| tert-Butyl alcohol (TBA) | ND | | 4.0 | 0.75 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| tert-Butylbenzene | ND | | 3.0 | 0.54 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Tetrachloroethene | ND | | 0.99 | 0.33 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| **Toluene** | **1.9** | | 0.99 | 0.26 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Trichloroethene | ND | | 0.99 | 0.35 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Trichlorofluoromethane | ND | | 2.0 | 0.47 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Vinyl acetate | ND | | 4.0 | 0.70 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Vinyl chloride | ND | | 0.99 | 0.32 | ppb v/v | | | 05/13/21 18:16 | 1.98 |
| Naphthalene | ND | | 2.5 | 1.2 | ppb v/v | | | 05/13/21 18:16 | 1.98 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *70 - 131* | | *05/13/21 18:16* | *1.98* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *70 - 130* | | *05/13/21 18:16* | *1.98* |
| *Toluene-d8 (Surr)* | *102* | | *70 - 130* | | *05/13/21 18:16* | *1.98* |

## Method: D1946 - Fixed Gases (Helium)

**Client Sample ID: SVP-1**
**Lab Sample ID: 570-58555-1**
**Date Collected: 05/06/21 10:09**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Helium | 0.021 | J | 0.025 | 0.0073 | % v/v | | | 05/08/21 14:09 | 1 |

**Client Sample ID: SVP-2**
**Lab Sample ID: 570-58555-2**
**Date Collected: 05/06/21 10:52**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Helium | 0.014 | J | 0.025 | 0.0073 | % v/v | | | 05/08/21 14:33 | 1 |

**Client Sample ID: SVP-3**
**Lab Sample ID: 570-58555-3**
**Date Collected: 05/06/21 11:32**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Helium | 0.021 | J | 0.025 | 0.0073 | % v/v | | | 05/08/21 15:26 | 1 |

**Client Sample ID: SVP-4**
**Lab Sample ID: 570-58555-4**
**Date Collected: 05/06/21 12:12**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Helium | 0.016 | J B | 0.025 | 0.0073 | % v/v | | | 05/11/21 16:08 | 1 |

**Client Sample ID: VP-1**
**Lab Sample ID: 570-58555-5**
**Date Collected: 05/04/21 09:12**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Helium | 0.047 | B | 0.025 | 0.0073 | % v/v | | | 05/11/21 17:20 | 1 |

**Client Sample ID: VP-2**
**Lab Sample ID: 570-58555-6**
**Date Collected: 05/04/21 09:47**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Helium | 0.0092 | J B | 0.025 | 0.0073 | % v/v | | | 05/11/21 18:10 | 1 |

**Client Sample ID: VP-3**
**Lab Sample ID: 570-58555-7**
**Date Collected: 05/04/21 10:23**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Helium | 0.010 | J B | 0.025 | 0.0073 | % v/v | | | 05/11/21 19:48 | 1 |

**Client Sample ID: VP-4**
**Lab Sample ID: 570-58555-8**
**Date Collected: 05/04/21 10:57**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Helium | 0.012 | J B | 0.025 | 0.0073 | % v/v | | | 05/11/21 20:38 | 1 |

Client: ARCADIS U.S. Inc
Job ID: 570-58555-1
Project/Site: Chevron 206145 Oakland Center Street

## Method: D1946 - Fixed Gases (Helium)

**Client Sample ID: VP-5**
**Lab Sample ID: 570-58555-9**
**Date Collected: 05/04/21 12:47**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Helium** | **0.021** | **J** | 0.025 | 0.0073 | % v/v | | | 05/13/21 14:23 | 1 |

**Client Sample ID: VP-6**
**Lab Sample ID: 570-58555-10**
**Date Collected: 05/06/21 09:23**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Helium** | **0.016** | **J** | 0.025 | 0.0073 | % v/v | | | 05/13/21 14:44 | 1 |

**Client Sample ID: DUP-1**
**Lab Sample ID: 570-58555-11**
**Date Collected: 05/06/21 00:00**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Helium** | **0.027** | | 0.025 | 0.0073 | % v/v | | | 05/13/21 15:08 | 1 |

**Client Sample ID: EQB**
**Lab Sample ID: 570-58555-12**
**Date Collected: 05/06/21 11:52**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Helium | ND | | 0.025 | 0.0073 | % v/v | | | 05/13/21 15:48 | 1 |

## Method: D1946 - Fixed Gases in Air (GC)

**Client Sample ID: SVP-1**
**Lab Sample ID: 570-58555-1**
**Date Collected: 05/06/21 10:09**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Carbon dioxide** | **0.83** | | 0.50 | 0.016 | % v/v | | | 05/10/21 14:09 | 1 |
| Carbon monoxide | ND | | 0.50 | 0.12 | % v/v | | | 05/10/21 14:09 | 1 |
| Methane | ND | | 0.50 | 0.0069 | % v/v | | | 05/10/21 14:09 | 1 |
| **Nitrogen** | **82** | | 0.50 | 0.17 | % v/v | | | 05/10/21 14:09 | 1 |
| **Oxygen + Argon** | **21** | | 0.50 | 0.084 | % v/v | | | 05/10/21 14:09 | 1 |

**Client Sample ID: SVP-2**
**Lab Sample ID: 570-58555-2**
**Date Collected: 05/06/21 10:52**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Carbon dioxide** | **1.6** | | 0.50 | 0.016 | % v/v | | | 05/10/21 14:35 | 1 |
| Carbon monoxide | ND | | 0.50 | 0.12 | % v/v | | | 05/10/21 14:35 | 1 |
| Methane | ND | | 0.50 | 0.0069 | % v/v | | | 05/10/21 14:35 | 1 |
| **Nitrogen** | **82** | | 0.50 | 0.17 | % v/v | | | 05/10/21 14:35 | 1 |
| **Oxygen + Argon** | **20** | | 0.50 | 0.084 | % v/v | | | 05/10/21 14:35 | 1 |

**Client Sample ID: SVP-3**
**Lab Sample ID: 570-58555-3**
**Date Collected: 05/06/21 11:32**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Carbon dioxide** | **3.7** | | 0.50 | 0.016 | % v/v | | | 05/11/21 14:42 | 1 |
| Carbon monoxide | ND | | 0.50 | 0.12 | % v/v | | | 05/11/21 14:42 | 1 |
| Methane | ND | | 0.50 | 0.0069 | % v/v | | | 05/11/21 14:42 | 1 |
| **Nitrogen** | **79** | | 0.50 | 0.17 | % v/v | | | 05/11/21 14:42 | 1 |
| **Oxygen + Argon** | **16** | | 0.50 | 0.084 | % v/v | | | 05/11/21 14:42 | 1 |

**Client Sample ID: SVP-4**
**Lab Sample ID: 570-58555-4**
**Date Collected: 05/06/21 12:12**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Carbon dioxide** | **2.4** | | 0.50 | 0.016 | % v/v | | | 05/10/21 15:22 | 1 |
| Carbon monoxide | ND | | 0.50 | 0.12 | % v/v | | | 05/10/21 15:22 | 1 |
| Methane | ND | | 0.50 | 0.0069 | % v/v | | | 05/10/21 15:22 | 1 |
| **Nitrogen** | **78** | | 0.50 | 0.17 | % v/v | | | 05/10/21 15:22 | 1 |
| **Oxygen + Argon** | **19** | | 0.50 | 0.084 | % v/v | | | 05/10/21 15:22 | 1 |

**Client Sample ID: VP-1**
**Lab Sample ID: 570-58555-5**
**Date Collected: 05/04/21 09:12**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Carbon dioxide** | **3.5** | | 0.50 | 0.016 | % v/v | | | 05/10/21 15:45 | 1 |
| Carbon monoxide | ND | | 0.50 | 0.12 | % v/v | | | 05/10/21 15:45 | 1 |
| Methane | ND | | 0.50 | 0.0069 | % v/v | | | 05/10/21 15:45 | 1 |
| **Nitrogen** | **84** | | 0.50 | 0.17 | % v/v | | | 05/10/21 15:45 | 1 |
| **Oxygen + Argon** | **16** | | 0.50 | 0.084 | % v/v | | | 05/10/21 15:45 | 1 |

## Method: D1946 - Fixed Gases in Air (GC)

**Client Sample ID: VP-2**
**Lab Sample ID: 570-58555-6**
**Date Collected: 05/04/21 09:47**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Carbon dioxide** | **3.3** | | 0.50 | 0.016 | % v/v | | | 05/10/21 16:24 | 1 |
| Carbon monoxide | ND | | 0.50 | 0.12 | % v/v | | | 05/10/21 16:24 | 1 |
| Methane | ND | | 0.50 | 0.0069 | % v/v | | | 05/10/21 16:24 | 1 |
| **Nitrogen** | **81** | | 0.50 | 0.17 | % v/v | | | 05/10/21 16:24 | 1 |
| **Oxygen + Argon** | **16** | | 0.50 | 0.084 | % v/v | | | 05/10/21 16:24 | 1 |

**Client Sample ID: VP-3**
**Lab Sample ID: 570-58555-7**
**Date Collected: 05/04/21 10:23**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Carbon dioxide** | **4.6** | | 0.50 | 0.016 | % v/v | | | 05/11/21 15:11 | 1 |
| Carbon monoxide | ND | | 0.50 | 0.12 | % v/v | | | 05/11/21 15:11 | 1 |
| Methane | ND | | 0.50 | 0.0069 | % v/v | | | 05/11/21 15:11 | 1 |
| **Nitrogen** | **82** | | 0.50 | 0.17 | % v/v | | | 05/11/21 15:11 | 1 |
| **Oxygen + Argon** | **17** | | 0.50 | 0.084 | % v/v | | | 05/11/21 15:11 | 1 |

**Client Sample ID: VP-4**
**Lab Sample ID: 570-58555-8**
**Date Collected: 05/04/21 10:57**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Carbon dioxide** | **5.0** | | 0.50 | 0.016 | % v/v | | | 05/10/21 17:12 | 1 |
| Carbon monoxide | ND | | 0.50 | 0.12 | % v/v | | | 05/10/21 17:12 | 1 |
| Methane | ND | | 0.50 | 0.0069 | % v/v | | | 05/10/21 17:12 | 1 |
| **Nitrogen** | **84** | | 0.50 | 0.17 | % v/v | | | 05/10/21 17:12 | 1 |
| **Oxygen + Argon** | **16** | | 0.50 | 0.084 | % v/v | | | 05/10/21 17:12 | 1 |

**Client Sample ID: VP-6**
**Lab Sample ID: 570-58555-10**
**Date Collected: 05/06/21 09:23**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Carbon dioxide** | **1.9** | | 0.50 | 0.016 | % v/v | | | 05/10/21 18:01 | 1 |
| Carbon monoxide | ND | | 0.50 | 0.12 | % v/v | | | 05/10/21 18:01 | 1 |
| Methane | ND | | 0.50 | 0.0069 | % v/v | | | 05/10/21 18:01 | 1 |
| **Nitrogen** | **82** | | 0.50 | 0.17 | % v/v | | | 05/10/21 18:01 | 1 |
| **Oxygen + Argon** | **20** | | 0.50 | 0.084 | % v/v | | | 05/10/21 18:01 | 1 |

**Client Sample ID: DUP-1**
**Lab Sample ID: 570-58555-11**
**Date Collected: 05/06/21 00:00**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Carbon dioxide** | **1.9** | | 0.50 | 0.016 | % v/v | | | 05/10/21 18:25 | 1 |
| Carbon monoxide | ND | | 0.50 | 0.12 | % v/v | | | 05/10/21 18:25 | 1 |
| Methane | ND | | 0.50 | 0.0069 | % v/v | | | 05/10/21 18:25 | 1 |
| **Nitrogen** | **82** | | 0.50 | 0.17 | % v/v | | | 05/10/21 18:25 | 1 |
| **Oxygen + Argon** | **20** | | 0.50 | 0.084 | % v/v | | | 05/10/21 18:25 | 1 |

Client: ARCADIS U.S. Inc
Job ID: 570-58555-1
Project/Site: Chevron 206145 Oakland Center Street

## Method: D1946 - Fixed Gases in Air (GC)

**Client Sample ID: EQB**
**Lab Sample ID: 570-58555-12**
**Date Collected: 05/06/21 11:52**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Carbon dioxide** | **0.019** | **J** | 0.50 | 0.016 | % v/v | | | 05/10/21 18:48 | 1 |
| Carbon monoxide | ND | | 0.50 | 0.12 | % v/v | | | 05/10/21 18:48 | 1 |
| Methane | ND | | 0.50 | 0.0069 | % v/v | | | 05/10/21 18:48 | 1 |
| **Nitrogen** | **97** | | 0.50 | 0.17 | % v/v | | | 05/10/21 18:48 | 1 |
| **Oxygen + Argon** | **6.1** | | 0.50 | 0.084 | % v/v | | | 05/10/21 18:48 | 1 |

Client: ARCADIS U.S. Inc
Job ID: 570-58555-1
Project/Site: Chevron 206145 Oakland Center Street

## Method: D1946 - Fixed Gases in Air (GC) - RA

**Client Sample ID: VP-5**
**Lab Sample ID: 570-58555-9**
**Date Collected: 05/04/21 12:47**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Carbon dioxide** | **2.9** | | 0.50 | 0.016 | % v/v | | | 05/10/21 19:47 | 1 |
| Carbon monoxide | ND | | 0.50 | 0.12 | % v/v | | | 05/10/21 19:47 | 1 |
| Methane | ND | | 0.50 | 0.0069 | % v/v | | | 05/10/21 19:47 | 1 |
| **Nitrogen** | **79** | | 0.50 | 0.17 | % v/v | | | 05/10/21 19:47 | 1 |
| **Oxygen + Argon** | **18** | | 0.50 | 0.084 | % v/v | | | 05/10/21 19:47 | 1 |

## Method: TO3 - Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)

**Client Sample ID: SVP-1**
**Lab Sample ID: 570-58555-1**
**Date Collected: 05/06/21 10:09**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| TPH (as Gasoline) | 0.70 | | 0.20 | 0.10 | ppm v/v | | | 05/08/21 09:27 | 1 |

**Client Sample ID: SVP-2**
**Lab Sample ID: 570-58555-2**
**Date Collected: 05/06/21 10:52**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| TPH (as Gasoline) | 0.57 | | 0.20 | 0.10 | ppm v/v | | | 05/08/21 09:48 | 1 |

**Client Sample ID: SVP-3**
**Lab Sample ID: 570-58555-3**
**Date Collected: 05/06/21 11:32**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| TPH (as Gasoline) | 0.50 | | 0.20 | 0.10 | ppm v/v | | | 05/08/21 10:00 | 1 |

**Client Sample ID: SVP-4**
**Lab Sample ID: 570-58555-4**
**Date Collected: 05/06/21 12:12**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| TPH (as Gasoline) | 0.46 | | 0.20 | 0.10 | ppm v/v | | | 05/08/21 10:18 | 1 |

**Client Sample ID: VP-1**
**Lab Sample ID: 570-58555-5**
**Date Collected: 05/04/21 09:12**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| TPH (as Gasoline) | 0.49 | | 0.20 | 0.10 | ppm v/v | | | 05/08/21 10:35 | 1 |

**Client Sample ID: VP-2**
**Lab Sample ID: 570-58555-6**
**Date Collected: 05/04/21 09:47**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| TPH (as Gasoline) | 0.36 | | 0.20 | 0.10 | ppm v/v | | | 05/08/21 10:49 | 1 |

**Client Sample ID: VP-3**
**Lab Sample ID: 570-58555-7**
**Date Collected: 05/04/21 10:23**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| TPH (as Gasoline) | 0.39 | | 0.20 | 0.10 | ppm v/v | | | 05/08/21 11:03 | 1 |

**Client Sample ID: VP-4**
**Lab Sample ID: 570-58555-8**
**Date Collected: 05/04/21 10:57**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| TPH (as Gasoline) | 0.40 | | 0.20 | 0.10 | ppm v/v | | | 05/08/21 11:16 | 1 |

Client: ARCADIS U.S. Inc
Job ID: 570-58555-1
Project/Site: Chevron 206145 Oakland Center Street

## Method: TO3 - Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)

**Client Sample ID: VP-5**
**Lab Sample ID: 570-58555-9**
**Date Collected: 05/04/21 12:47**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| TPH (as Gasoline) | 0.39 | | 0.20 | 0.10 | ppm v/v | | | 05/08/21 11:34 | 1 |

**Client Sample ID: VP-6**
**Lab Sample ID: 570-58555-10**
**Date Collected: 05/06/21 09:23**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| TPH (as Gasoline) | 0.39 | | 0.20 | 0.10 | ppm v/v | | | 05/08/21 11:46 | 1 |

**Client Sample ID: DUP-1**
**Lab Sample ID: 570-58555-11**
**Date Collected: 05/06/21 00:00**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| TPH (as Gasoline) | 0.39 | | 0.20 | 0.10 | ppm v/v | | | 05/08/21 12:01 | 1 |

**Client Sample ID: EQB**
**Lab Sample ID: 570-58555-12**
**Date Collected: 05/06/21 11:52**
**Matrix: Air**
**Date Received: 05/07/21 10:15**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| TPH (as Gasoline) | 0.26 | | 0.20 | 0.10 | ppm v/v | | | 05/08/21 12:19 | 1 |

# Surrogate Summary

Client: ARCADIS U.S. Inc
Job ID: 570-58555-1
Project/Site: Chevron 206145 Oakland Center Street

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Matrix: Air**
**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | |
|---|---|---|---|---|
| | | DCA | BFB | TOL |
| Lab Sample ID | Client Sample ID | (70-131) | (70-130) | (70-130) |
| 570-58555-1 | SVP-1 | 93 | 97 | 93 |
| 570-58555-2 | SVP-2 | 93 | 95 | 92 |
| 570-58555-3 | SVP-3 | 94 | 98 | 93 |
| 570-58555-4 | SVP-4 | 93 | 98 | 94 |
| 570-58555-5 | VP-1 | 93 | 96 | 94 |
| 570-58555-5 - DL | VP-1 | 108 | 95 | 99 |
| 570-58555-6 | VP-2 | 95 | 98 | 93 |
| 570-58555-7 | VP-3 | 94 | 96 | 94 |
| 570-58555-8 | VP-4 | 94 | 96 | 93 |
| 570-58555-9 | VP-5 | 95 | 99 | 92 |
| 570-58555-10 | VP-6 | 94 | 95 | 94 |
| 570-58555-11 | DUP-1 | 95 | 94 | 92 |
| 570-58555-12 - RA | EQB | 108 | 93 | 102 |
| LCS 570-149957/3 | Lab Control Sample | 92 | 92 | 94 |
| LCS 570-150222/3 | Lab Control Sample | 102 | 103 | 101 |
| LCSD 570-149957/4 | Lab Control Sample Dup | 92 | 93 | 93 |
| LCSD 570-150222/4 | Lab Control Sample Dup | 102 | 104 | 101 |
| MB 570-149957/5 | Method Blank | 93 | 95 | 94 |
| MB 570-150222/6 | Method Blank | 106 | 93 | 99 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Lab Sample ID: MB 570-149957/5**
**Matrix: Air**
**Analysis Batch: 149957**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 0.50 | 0.15 | ppb v/v | | | 05/12/21 14:41 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.17 | ppb v/v | | | 05/12/21 14:41 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.5 | 0.30 | ppb v/v | | | 05/12/21 14:41 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | 0.14 | ppb v/v | | | 05/12/21 14:41 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | 0.10 | ppb v/v | | | 05/12/21 14:41 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | 0.18 | ppb v/v | | | 05/12/21 14:41 | 1 |
| 1,1-Difluoroethane | ND | | 2.0 | 0.37 | ppb v/v | | | 05/12/21 14:41 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 2.0 | 0.66 | ppb v/v | | | 05/12/21 14:41 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.5 | 0.33 | ppb v/v | | | 05/12/21 14:41 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.5 | 0.29 | ppb v/v | | | 05/12/21 14:41 | 1 |
| 1,2-Dibromoethane | ND | | 0.50 | 0.17 | ppb v/v | | | 05/12/21 14:41 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 0.25 | ppb v/v | | | 05/12/21 14:41 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | 0.15 | ppb v/v | | | 05/12/21 14:41 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | 0.14 | ppb v/v | | | 05/12/21 14:41 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.20 | ppb v/v | | | 05/12/21 14:41 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 0.24 | ppb v/v | | | 05/12/21 14:41 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 0.25 | ppb v/v | | | 05/12/21 14:41 | 1 |
| 2-Butanone | ND | | 1.5 | 0.41 | ppb v/v | | | 05/12/21 14:41 | 1 |
| 2-Hexanone | ND | | 1.5 | 0.64 | ppb v/v | | | 05/12/21 14:41 | 1 |
| 4-Ethyltoluene | ND | | 0.50 | 0.25 | ppb v/v | | | 05/12/21 14:41 | 1 |
| 4-Methyl-2-pentanone | ND | | 1.5 | 0.56 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Acetone | ND | | 2.0 | 0.40 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Benzene | ND | | 0.50 | 0.16 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Benzyl chloride | ND | | 1.5 | 0.51 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Bromodichloromethane | ND | | 0.50 | 0.11 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Bromoform | ND | | 0.50 | 0.17 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Bromomethane | ND | | 0.50 | 0.14 | ppb v/v | | | 05/12/21 14:41 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 0.14 | ppb v/v | | | 05/12/21 14:41 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.22 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Carbon disulfide | ND | | 2.0 | 0.19 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Carbon tetrachloride | ND | | 0.50 | 0.21 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Chlorobenzene | ND | | 0.50 | 0.13 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Chloroethane | ND | | 0.50 | 0.17 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Chloroform | ND | | 0.50 | 0.16 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Chloromethane | ND | | 0.50 | 0.16 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Dibromochloromethane | ND | | 0.50 | 0.16 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Dichlorodifluoromethane | ND | | 0.50 | 0.20 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Dichlorotetrafluoroethane | ND | | 2.0 | 0.19 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Di-isopropyl ether (DIPE) | ND | | 2.0 | 0.35 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Ethylbenzene | ND | | 0.50 | 0.25 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 2.0 | 0.29 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Hexachloro-1,3-butadiene | ND | | 1.5 | 0.58 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Isopropanol | ND | | 5.0 | 0.39 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.54 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 2.0 | 0.34 | ppb v/v | | | 05/12/21 14:41 | 1 |
| n-Butylbenzene | ND | | 1.5 | 0.43 | ppb v/v | | | 05/12/21 14:41 | 1 |
| o-Xylene | ND | | 0.50 | 0.20 | ppb v/v | | | 05/12/21 14:41 | 1 |
| m,p-Xylene | ND | | 2.0 | 0.63 | ppb v/v | | | 05/12/21 14:41 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 570-149957/5**
**Matrix: Air**
**Analysis Batch: 149957**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | | 1.5 | 0.29 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Styrene | ND | | 1.5 | 0.53 | ppb v/v | | | 05/12/21 14:41 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 0.13 | ppb v/v | | | 05/12/21 14:41 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.21 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Tert-amyl methyl ether | ND | | 2.0 | 0.44 | ppb v/v | | | 05/12/21 14:41 | 1 |
| tert-Butyl alcohol (TBA) | ND | | 2.0 | 0.38 | ppb v/v | | | 05/12/21 14:41 | 1 |
| tert-Butylbenzene | ND | | 1.5 | 0.27 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Tetrachloroethene | ND | | 0.50 | 0.17 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Toluene | ND | | 0.50 | 0.13 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Trichloroethene | ND | | 0.50 | 0.18 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.24 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Vinyl acetate | ND | | 2.0 | 0.35 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Vinyl chloride | ND | | 0.50 | 0.16 | ppb v/v | | | 05/12/21 14:41 | 1 |
| Naphthalene | ND | | 1.3 | 0.59 | ppb v/v | | | 05/12/21 14:41 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *93* | | *70 - 131* | | *05/12/21 14:41* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *70 - 130* | | *05/12/21 14:41* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *70 - 130* | | *05/12/21 14:41* | *1* |

**Lab Sample ID: LCS 570-149957/3**
**Matrix: Air**
**Analysis Batch: 149957**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 25.0 | 24.3 | | ppb v/v | | 97 | 67 - 135 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 24.2 | | ppb v/v | | 97 | 70 - 130 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0 | 25.5 | | ppb v/v | | 102 | 70 - 130 |
| 1,1,2-Trichloroethane | 25.0 | 24.1 | | ppb v/v | | 97 | 69 - 131 |
| 1,1-Dichloroethane | 25.0 | 23.3 | | ppb v/v | | 93 | 69 - 130 |
| 1,1-Dichloroethene | 25.0 | 22.9 | | ppb v/v | | 92 | 64 - 135 |
| 1,1-Difluoroethane | 25.0 | 19.3 | | ppb v/v | | 77 | 57 - 146 |
| 1,2,4-Trichlorobenzene | 25.0 | 23.2 | | ppb v/v | | 93 | 51 - 134 |
| 1,2,4-Trimethylbenzene | 25.0 | 24.7 | | ppb v/v | | 99 | 68 - 130 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 22.7 | | ppb v/v | | 91 | 66 - 130 |
| 1,2-Dibromoethane | 25.0 | 25.8 | | ppb v/v | | 103 | 70 - 130 |
| 1,2-Dichlorobenzene | 25.0 | 24.8 | | ppb v/v | | 99 | 68 - 130 |
| 1,2-Dichloroethane | 25.0 | 23.1 | | ppb v/v | | 93 | 65 - 136 |
| 1,2-Dichloropropane | 25.0 | 23.6 | | ppb v/v | | 95 | 68 - 132 |
| 1,3,5-Trimethylbenzene | 25.0 | 23.8 | | ppb v/v | | 95 | 69 - 130 |
| 1,3-Dichlorobenzene | 25.0 | 25.5 | | ppb v/v | | 102 | 65 - 130 |
| 1,4-Dichlorobenzene | 25.0 | 24.7 | | ppb v/v | | 99 | 64 - 130 |
| 2-Butanone | 25.0 | 21.2 | | ppb v/v | | 85 | 66 - 143 |
| 2-Hexanone | 25.0 | 23.1 | | ppb v/v | | 92 | 64 - 139 |
| 4-Ethyltoluene | 25.0 | 23.7 | | ppb v/v | | 95 | 69 - 130 |
| 4-Methyl-2-pentanone | 25.0 | 22.4 | | ppb v/v | | 89 | 65 - 135 |
| Acetone | 25.0 | 23.7 | | ppb v/v | | 95 | 70 - 130 |
| Benzene | 25.0 | 26.4 | | ppb v/v | | 106 | 68 - 134 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 570-149957/3**
**Matrix: Air**
**Analysis Batch: 149957**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzyl chloride | 25.0 | 21.9 | | ppb v/v | | 88 | 70 - 130 |
| Bromodichloromethane | 25.0 | 24.6 | | ppb v/v | | 98 | 69 - 132 |
| Bromoform | 25.0 | 27.1 | | ppb v/v | | 108 | 70 - 130 |
| Bromomethane | 25.0 | 25.4 | | ppb v/v | | 102 | 65 - 130 |
| cis-1,2-Dichloroethene | 25.0 | 25.3 | | ppb v/v | | 101 | 70 - 130 |
| cis-1,3-Dichloropropene | 25.0 | 23.8 | | ppb v/v | | 95 | 70 - 134 |
| Carbon disulfide | 25.0 | 22.8 | | ppb v/v | | 91 | 70 - 130 |
| Carbon tetrachloride | 25.0 | 25.2 | | ppb v/v | | 101 | 68 - 133 |
| Chlorobenzene | 25.0 | 24.4 | | ppb v/v | | 98 | 70 - 130 |
| Chloroethane | 25.0 | 23.8 | | ppb v/v | | 95 | 66 - 134 |
| Chloroform | 25.0 | 23.4 | | ppb v/v | | 94 | 67 - 131 |
| Chloromethane | 25.0 | 21.7 | | ppb v/v | | 87 | 60 - 137 |
| Dibromochloromethane | 25.0 | 25.5 | | ppb v/v | | 102 | 70 - 130 |
| Dichlorodifluoromethane | 25.0 | 23.7 | | ppb v/v | | 95 | 57 - 138 |
| Dichlorotetrafluoroethane | 25.0 | 23.1 | | ppb v/v | | 92 | 60 - 133 |
| Di-isopropyl ether (DIPE) | 25.0 | 18.8 | | ppb v/v | | 75 | 58 - 144 |
| Ethylbenzene | 25.0 | 24.3 | | ppb v/v | | 97 | 70 - 130 |
| Ethyl-t-butyl ether (ETBE) | 25.0 | 20.8 | | ppb v/v | | 83 | 67 - 130 |
| Hexachloro-1,3-butadiene | 25.0 | 23.7 | | ppb v/v | | 95 | 58 - 130 |
| Isopropanol | 25.0 | 26.9 | | ppb v/v | | 107 | 64 - 133 |
| Methylene Chloride | 25.0 | 23.1 | | ppb v/v | | 93 | 65 - 130 |
| Methyl-t-Butyl Ether (MTBE) | 25.0 | 23.5 | | ppb v/v | | 94 | 70 - 130 |
| n-Butylbenzene | 25.0 | 22.5 | | ppb v/v | | 90 | 64 - 130 |
| o-Xylene | 25.0 | 24.8 | | ppb v/v | | 99 | 68 - 130 |
| m,p-Xylene | 50.0 | 49.7 | | ppb v/v | | 99 | 70 - 130 |
| sec-Butylbenzene | 25.0 | 22.8 | | ppb v/v | | 91 | 67 - 130 |
| Styrene | 25.0 | 24.8 | | ppb v/v | | 99 | 70 - 130 |
| trans-1,2-Dichloroethene | 25.0 | 24.9 | | ppb v/v | | 99 | 70 - 130 |
| trans-1,3-Dichloropropene | 25.0 | 23.6 | | ppb v/v | | 94 | 66 - 142 |
| Tert-amyl methyl ether | 25.0 | 22.0 | | ppb v/v | | 88 | 70 - 130 |
| tert-Butyl alcohol (TBA) | 50.0 | 42.6 | | ppb v/v | | 85 | 65 - 132 |
| tert-Butylbenzene | 25.0 | 23.9 | | ppb v/v | | 96 | 70 - 130 |
| Tetrachloroethene | 25.0 | 26.1 | | ppb v/v | | 105 | 70 - 130 |
| Toluene | 25.0 | 26.1 | | ppb v/v | | 104 | 70 - 130 |
| Trichloroethene | 25.0 | 24.6 | | ppb v/v | | 98 | 69 - 130 |
| Trichlorofluoromethane | 25.0 | 31.9 | | ppb v/v | | 128 | 62 - 139 |
| Vinyl acetate | 25.0 | 21.0 | | ppb v/v | | 84 | 64 - 139 |
| Vinyl chloride | 25.0 | 23.0 | | ppb v/v | | 92 | 65 - 130 |
| Naphthalene | 25.0 | 22.1 | | ppb v/v | | 88 | 36 - 146 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *92* | | *70 - 131* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *70 - 130* |
| *Toluene-d8 (Surr)* | *94* | | *70 - 130* |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCSD 570-149957/4**
**Matrix: Air**
**Analysis Batch: 149957**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | | | 25.0 | 24.7 | | ppb v/v | | 99 | 67 - 135 | 2 | 25 |
| 1,1,2,2-Tetrachloroethane | | | 25.0 | 24.7 | | ppb v/v | | 99 | 70 - 130 | 2 | 25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | | 25.0 | 25.8 | | ppb v/v | | 103 | 70 - 130 | 1 | 25 |
| 1,1,2-Trichloroethane | | | 25.0 | 24.2 | | ppb v/v | | 97 | 69 - 131 | 0 | 25 |
| 1,1-Dichloroethane | | | 25.0 | 23.6 | | ppb v/v | | 94 | 69 - 130 | 1 | 25 |
| 1,1-Dichloroethene | | | 25.0 | 23.3 | | ppb v/v | | 93 | 64 - 135 | 2 | 25 |
| 1,1-Difluoroethane | | | 25.0 | 19.5 | | ppb v/v | | 78 | 57 - 146 | 1 | 25 |
| 1,2,4-Trichlorobenzene | | | 25.0 | 24.3 | | ppb v/v | | 97 | 51 - 134 | 5 | 25 |
| 1,2,4-Trimethylbenzene | | | 25.0 | 25.6 | | ppb v/v | | 102 | 68 - 130 | 4 | 25 |
| 1,2-Dibromo-3-Chloropropane | | | 25.0 | 23.8 | | ppb v/v | | 95 | 66 - 130 | 4 | 25 |
| 1,2-Dibromoethane | | | 25.0 | 26.5 | | ppb v/v | | 106 | 70 - 130 | 2 | 25 |
| 1,2-Dichlorobenzene | | | 25.0 | 25.6 | | ppb v/v | | 102 | 68 - 130 | 3 | 25 |
| 1,2-Dichloroethane | | | 25.0 | 23.6 | | ppb v/v | | 94 | 65 - 136 | 2 | 25 |
| 1,2-Dichloropropane | | | 25.0 | 23.9 | | ppb v/v | | 96 | 68 - 132 | 1 | 25 |
| 1,3,5-Trimethylbenzene | | | 25.0 | 24.6 | | ppb v/v | | 99 | 69 - 130 | 4 | 25 |
| 1,3-Dichlorobenzene | | | 25.0 | 26.3 | | ppb v/v | | 105 | 65 - 130 | 3 | 25 |
| 1,4-Dichlorobenzene | | | 25.0 | 25.6 | | ppb v/v | | 103 | 64 - 130 | 4 | 25 |
| 2-Butanone | | | 25.0 | 21.6 | | ppb v/v | | 86 | 66 - 143 | 2 | 25 |
| 2-Hexanone | | | 25.0 | 23.8 | | ppb v/v | | 95 | 64 - 139 | 3 | 25 |
| 4-Ethyltoluene | | | 25.0 | 24.5 | | ppb v/v | | 98 | 69 - 130 | 3 | 25 |
| 4-Methyl-2-pentanone | | | 25.0 | 22.7 | | ppb v/v | | 91 | 65 - 135 | 1 | 25 |
| Acetone | | | 25.0 | 24.4 | | ppb v/v | | 97 | 70 - 130 | 3 | 25 |
| Benzene | | | 25.0 | 26.5 | | ppb v/v | | 106 | 68 - 134 | 0 | 25 |
| Benzyl chloride | | | 25.0 | 22.7 | | ppb v/v | | 91 | 70 - 130 | 4 | 25 |
| Bromodichloromethane | | | 25.0 | 24.9 | | ppb v/v | | 99 | 69 - 132 | 1 | 25 |
| Bromoform | | | 25.0 | 27.7 | | ppb v/v | | 111 | 70 - 130 | 2 | 25 |
| Bromomethane | | | 25.0 | 26.0 | | ppb v/v | | 104 | 65 - 130 | 2 | 25 |
| cis-1,2-Dichloroethene | | | 25.0 | 25.7 | | ppb v/v | | 103 | 70 - 130 | 2 | 25 |
| cis-1,3-Dichloropropene | | | 25.0 | 24.1 | | ppb v/v | | 96 | 70 - 134 | 1 | 25 |
| Carbon disulfide | | | 25.0 | 23.0 | | ppb v/v | | 92 | 70 - 130 | 1 | 25 |
| Carbon tetrachloride | | | 25.0 | 25.7 | | ppb v/v | | 103 | 68 - 133 | 2 | 25 |
| Chlorobenzene | | | 25.0 | 25.0 | | ppb v/v | | 100 | 70 - 130 | 2 | 25 |
| Chloroethane | | | 25.0 | 24.9 | | ppb v/v | | 100 | 66 - 134 | 4 | 25 |
| Chloroform | | | 25.0 | 23.6 | | ppb v/v | | 95 | 67 - 131 | 1 | 25 |
| Chloromethane | | | 25.0 | 22.0 | | ppb v/v | | 88 | 60 - 137 | 1 | 25 |
| Dibromochloromethane | | | 25.0 | 26.1 | | ppb v/v | | 104 | 70 - 130 | 2 | 25 |
| Dichlorodifluoromethane | | | 25.0 | 23.9 | | ppb v/v | | 96 | 57 - 138 | 1 | 25 |
| Dichlorotetrafluoroethane | | | 25.0 | 23.4 | | ppb v/v | | 94 | 60 - 133 | 1 | 25 |
| Di-isopropyl ether (DIPE) | | | 25.0 | 19.0 | | ppb v/v | | 76 | 58 - 144 | 1 | 25 |
| Ethylbenzene | | | 25.0 | 24.9 | | ppb v/v | | 100 | 70 - 130 | 2 | 25 |
| Ethyl-t-butyl ether (ETBE) | | | 25.0 | 21.1 | | ppb v/v | | 85 | 67 - 130 | 2 | 25 |
| Hexachloro-1,3-butadiene | | | 25.0 | 24.8 | | ppb v/v | | 99 | 58 - 130 | 4 | 25 |
| Isopropanol | | | 25.0 | 18.9 | *1 | ppb v/v | | 76 | 64 - 133 | 35 | 25 |
| Methylene Chloride | | | 25.0 | 23.5 | | ppb v/v | | 94 | 65 - 130 | 2 | 25 |
| Methyl-t-Butyl Ether (MTBE) | | | 25.0 | 23.7 | | ppb v/v | | 95 | 70 - 130 | 1 | 25 |
| n-Butylbenzene | | | 25.0 | 23.3 | | ppb v/v | | 93 | 64 - 130 | 4 | 25 |
| o-Xylene | | | 25.0 | 25.5 | | ppb v/v | | 102 | 68 - 130 | 3 | 25 |
| m,p-Xylene | | | 50.0 | 50.6 | | ppb v/v | | 101 | 70 - 130 | 2 | 25 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCSD 570-149957/4**
**Matrix: Air**
**Analysis Batch: 149957**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | | | 25.0 | 23.6 | | ppb v/v | | 94 | 67 - 130 | 4 | 25 |
| Styrene | | | 25.0 | 25.4 | | ppb v/v | | 102 | 70 - 130 | 3 | 25 |
| trans-1,2-Dichloroethene | | | 25.0 | 25.3 | | ppb v/v | | 101 | 70 - 130 | 2 | 25 |
| trans-1,3-Dichloropropene | | | 25.0 | 23.6 | | ppb v/v | | 95 | 66 - 142 | 0 | 25 |
| Tert-amyl methyl ether | | | 25.0 | 22.3 | | ppb v/v | | 89 | 70 - 130 | 2 | 25 |
| tert-Butyl alcohol (TBA) | | | 50.0 | 43.3 | | ppb v/v | | 87 | 65 - 132 | 2 | 25 |
| tert-Butylbenzene | | | 25.0 | 24.7 | | ppb v/v | | 99 | 70 - 130 | 3 | 25 |
| Tetrachloroethene | | | 25.0 | 26.7 | | ppb v/v | | 107 | 70 - 130 | 2 | 25 |
| Toluene | | | 25.0 | 26.8 | | ppb v/v | | 107 | 70 - 130 | 3 | 25 |
| Trichloroethene | | | 25.0 | 24.8 | | ppb v/v | | 99 | 69 - 130 | 1 | 25 |
| Trichlorofluoromethane | | | 25.0 | 23.9 | *1 | ppb v/v | | 96 | 62 - 139 | 29 | 25 |
| Vinyl acetate | | | 25.0 | 21.2 | | ppb v/v | | 85 | 64 - 139 | 1 | 25 |
| Vinyl chloride | | | 25.0 | 23.6 | | ppb v/v | | 95 | 65 - 130 | 3 | 25 |
| Naphthalene | | | 25.0 | 23.4 | | ppb v/v | | 94 | 36 - 146 | 6 | 25 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *92* | | *70 - 131* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *70 - 130* |
| *Toluene-d8 (Surr)* | *93* | | *70 - 130* |

**Lab Sample ID: MB 570-150222/6**
**Matrix: Air**
**Analysis Batch: 150222**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 0.50 | 0.15 | ppb v/v | | | 05/13/21 15:48 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.17 | ppb v/v | | | 05/13/21 15:48 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.5 | 0.30 | ppb v/v | | | 05/13/21 15:48 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | 0.14 | ppb v/v | | | 05/13/21 15:48 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | 0.10 | ppb v/v | | | 05/13/21 15:48 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | 0.18 | ppb v/v | | | 05/13/21 15:48 | 1 |
| 1,1-Difluoroethane | ND | | 2.0 | 0.37 | ppb v/v | | | 05/13/21 15:48 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 2.0 | 0.66 | ppb v/v | | | 05/13/21 15:48 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.5 | 0.33 | ppb v/v | | | 05/13/21 15:48 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.5 | 0.29 | ppb v/v | | | 05/13/21 15:48 | 1 |
| 1,2-Dibromoethane | ND | | 0.50 | 0.17 | ppb v/v | | | 05/13/21 15:48 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 0.25 | ppb v/v | | | 05/13/21 15:48 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | 0.15 | ppb v/v | | | 05/13/21 15:48 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | 0.14 | ppb v/v | | | 05/13/21 15:48 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.20 | ppb v/v | | | 05/13/21 15:48 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 0.24 | ppb v/v | | | 05/13/21 15:48 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 0.25 | ppb v/v | | | 05/13/21 15:48 | 1 |
| 2-Butanone | ND | | 1.5 | 0.41 | ppb v/v | | | 05/13/21 15:48 | 1 |
| 2-Hexanone | ND | | 1.5 | 0.64 | ppb v/v | | | 05/13/21 15:48 | 1 |
| 4-Ethyltoluene | ND | | 0.50 | 0.25 | ppb v/v | | | 05/13/21 15:48 | 1 |
| 4-Methyl-2-pentanone | ND | | 1.5 | 0.56 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Acetone | ND | | 2.0 | 0.40 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Benzene | ND | | 0.50 | 0.16 | ppb v/v | | | 05/13/21 15:48 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 570-150222/6**
**Matrix: Air**
**Analysis Batch: 150222**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | ND | | 1.5 | 0.51 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Bromodichloromethane | ND | | 0.50 | 0.11 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Bromoform | ND | | 0.50 | 0.17 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Bromomethane | ND | | 0.50 | 0.14 | ppb v/v | | | 05/13/21 15:48 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 0.14 | ppb v/v | | | 05/13/21 15:48 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.22 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Carbon disulfide | ND | | 2.0 | 0.19 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Carbon tetrachloride | ND | | 0.50 | 0.21 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Chlorobenzene | ND | | 0.50 | 0.13 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Chloroethane | ND | | 0.50 | 0.17 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Chloroform | ND | | 0.50 | 0.16 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Chloromethane | ND | | 0.50 | 0.16 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Dibromochloromethane | ND | | 0.50 | 0.16 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Dichlorodifluoromethane | ND | | 0.50 | 0.20 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Dichlorotetrafluoroethane | ND | | 2.0 | 0.19 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Di-isopropyl ether (DIPE) | ND | | 2.0 | 0.35 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Ethylbenzene | ND | | 0.50 | 0.25 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 2.0 | 0.29 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Hexachloro-1,3-butadiene | ND | | 1.5 | 0.58 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Isopropanol | ND | | 5.0 | 0.39 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.54 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 2.0 | 0.34 | ppb v/v | | | 05/13/21 15:48 | 1 |
| n-Butylbenzene | ND | | 1.5 | 0.43 | ppb v/v | | | 05/13/21 15:48 | 1 |
| o-Xylene | ND | | 0.50 | 0.20 | ppb v/v | | | 05/13/21 15:48 | 1 |
| m,p-Xylene | ND | | 2.0 | 0.63 | ppb v/v | | | 05/13/21 15:48 | 1 |
| sec-Butylbenzene | ND | | 1.5 | 0.29 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Styrene | ND | | 1.5 | 0.53 | ppb v/v | | | 05/13/21 15:48 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 0.13 | ppb v/v | | | 05/13/21 15:48 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.21 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Tert-amyl methyl ether | ND | | 2.0 | 0.44 | ppb v/v | | | 05/13/21 15:48 | 1 |
| tert-Butyl alcohol (TBA) | ND | | 2.0 | 0.38 | ppb v/v | | | 05/13/21 15:48 | 1 |
| tert-Butylbenzene | ND | | 1.5 | 0.27 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Tetrachloroethene | ND | | 0.50 | 0.17 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Toluene | ND | | 0.50 | 0.13 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Trichloroethene | ND | | 0.50 | 0.18 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.24 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Vinyl acetate | ND | | 2.0 | 0.35 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Vinyl chloride | ND | | 0.50 | 0.16 | ppb v/v | | | 05/13/21 15:48 | 1 |
| Naphthalene | ND | | 1.3 | 0.59 | ppb v/v | | | 05/13/21 15:48 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *70 - 131* | | *05/13/21 15:48* | *1* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *70 - 130* | | *05/13/21 15:48* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *70 - 130* | | *05/13/21 15:48* | *1* |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 570-150222/3**
**Matrix: Air**
**Analysis Batch: 150222**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 25.0 | 29.2 | | ppb v/v | | 117 | 67 - 135 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 24.8 | | ppb v/v | | 99 | 70 - 130 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0 | 27.1 | | ppb v/v | | 108 | 70 - 130 |
| 1,1,2-Trichloroethane | 25.0 | 28.3 | | ppb v/v | | 113 | 69 - 131 |
| 1,1-Dichloroethane | 25.0 | 29.1 | | ppb v/v | | 116 | 69 - 130 |
| 1,1-Dichloroethene | 25.0 | 27.9 | | ppb v/v | | 112 | 64 - 135 |
| 1,1-Difluoroethane | 25.0 | 26.5 | | ppb v/v | | 106 | 57 - 146 |
| 1,2,4-Trichlorobenzene | 25.0 | 22.4 | | ppb v/v | | 90 | 51 - 134 |
| 1,2,4-Trimethylbenzene | 25.0 | 24.7 | | ppb v/v | | 99 | 68 - 130 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 23.6 | | ppb v/v | | 94 | 66 - 130 |
| 1,2-Dibromoethane | 25.0 | 27.2 | | ppb v/v | | 109 | 70 - 130 |
| 1,2-Dichlorobenzene | 25.0 | 25.8 | | ppb v/v | | 103 | 68 - 130 |
| 1,2-Dichloroethane | 25.0 | 28.8 | | ppb v/v | | 115 | 65 - 136 |
| 1,2-Dichloropropane | 25.0 | 28.8 | | ppb v/v | | 115 | 68 - 132 |
| 1,3,5-Trimethylbenzene | 25.0 | 26.1 | | ppb v/v | | 105 | 69 - 130 |
| 1,3-Dichlorobenzene | 25.0 | 27.8 | | ppb v/v | | 111 | 65 - 130 |
| 1,4-Dichlorobenzene | 25.0 | 28.5 | | ppb v/v | | 114 | 64 - 130 |
| 2-Butanone | 25.0 | 29.4 | | ppb v/v | | 118 | 66 - 143 |
| 2-Hexanone | 25.0 | 28.7 | | ppb v/v | | 115 | 64 - 139 |
| 4-Ethyltoluene | 25.0 | 27.2 | | ppb v/v | | 109 | 69 - 130 |
| 4-Methyl-2-pentanone | 25.0 | 28.3 | | ppb v/v | | 113 | 65 - 135 |
| Acetone | 25.0 | 26.9 | | ppb v/v | | 108 | 70 - 130 |
| Benzene | 25.0 | 30.4 | | ppb v/v | | 122 | 68 - 134 |
| Benzyl chloride | 25.0 | 24.5 | | ppb v/v | | 98 | 70 - 130 |
| Bromodichloromethane | 25.0 | 27.3 | | ppb v/v | | 109 | 69 - 132 |
| Bromoform | 25.0 | 25.3 | | ppb v/v | | 101 | 70 - 130 |
| Bromomethane | 25.0 | 21.1 | | ppb v/v | | 84 | 65 - 130 |
| cis-1,2-Dichloroethene | 25.0 | 31.1 | | ppb v/v | | 124 | 70 - 130 |
| cis-1,3-Dichloropropene | 25.0 | 29.6 | | ppb v/v | | 119 | 70 - 134 |
| Carbon disulfide | 25.0 | 26.7 | | ppb v/v | | 107 | 70 - 130 |
| Carbon tetrachloride | 25.0 | 26.7 | | ppb v/v | | 107 | 68 - 133 |
| Chlorobenzene | 25.0 | 25.8 | | ppb v/v | | 103 | 70 - 130 |
| Chloroethane | 25.0 | 21.2 | | ppb v/v | | 85 | 66 - 134 |
| Chloroform | 25.0 | 28.4 | | ppb v/v | | 114 | 67 - 131 |
| Chloromethane | 25.0 | 21.7 | | ppb v/v | | 87 | 60 - 137 |
| Dibromochloromethane | 25.0 | 24.8 | | ppb v/v | | 99 | 70 - 130 |
| Dichlorodifluoromethane | 25.0 | 26.4 | | ppb v/v | | 106 | 57 - 138 |
| Dichlorotetrafluoroethane | 25.0 | 22.0 | | ppb v/v | | 88 | 60 - 133 |
| Di-isopropyl ether (DIPE) | 25.0 | 26.8 | | ppb v/v | | 107 | 58 - 144 |
| Ethylbenzene | 25.0 | 27.0 | | ppb v/v | | 108 | 70 - 130 |
| Ethyl-t-butyl ether (ETBE) | 25.0 | 25.8 | | ppb v/v | | 103 | 67 - 130 |
| Hexachloro-1,3-butadiene | 25.0 | 20.6 | | ppb v/v | | 82 | 58 - 130 |
| Isopropanol | 25.0 | 25.3 | | ppb v/v | | 101 | 64 - 133 |
| Methylene Chloride | 25.0 | 28.0 | | ppb v/v | | 112 | 65 - 130 |
| Methyl-t-Butyl Ether (MTBE) | 25.0 | 28.6 | | ppb v/v | | 115 | 70 - 130 |
| n-Butylbenzene | 25.0 | 24.2 | | ppb v/v | | 97 | 64 - 130 |
| o-Xylene | 25.0 | 26.6 | | ppb v/v | | 106 | 68 - 130 |
| m,p-Xylene | 50.0 | 52.2 | | ppb v/v | | 104 | 70 - 130 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 570-150222/3**
**Matrix: Air**
**Analysis Batch: 150222**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | | | 25.0 | 23.1 | | ppb v/v | | 93 | 67 - 130 | | |
| Styrene | | | 25.0 | 26.7 | | ppb v/v | | 107 | 70 - 130 | | |
| trans-1,2-Dichloroethene | | | 25.0 | 29.2 | | ppb v/v | | 117 | 70 - 130 | | |
| trans-1,3-Dichloropropene | | | 25.0 | 30.6 | | ppb v/v | | 122 | 66 - 142 | | |
| Tert-amyl methyl ether | | | 25.0 | 24.3 | | ppb v/v | | 97 | 70 - 130 | | |
| tert-Butyl alcohol (TBA) | | | 50.0 | 51.2 | | ppb v/v | | 102 | 65 - 132 | | |
| tert-Butylbenzene | | | 25.0 | 23.8 | | ppb v/v | | 95 | 70 - 130 | | |
| Tetrachloroethene | | | 25.0 | 24.6 | | ppb v/v | | 98 | 70 - 130 | | |
| Toluene | | | 25.0 | 27.7 | | ppb v/v | | 111 | 70 - 130 | | |
| Trichloroethene | | | 25.0 | 26.9 | | ppb v/v | | 107 | 69 - 130 | | |
| Trichlorofluoromethane | | | 25.0 | 27.0 | | ppb v/v | | 108 | 62 - 139 | | |
| Vinyl acetate | | | 25.0 | 29.4 | | ppb v/v | | 118 | 64 - 139 | | |
| Vinyl chloride | | | 25.0 | 21.1 | | ppb v/v | | 84 | 65 - 130 | | |
| Naphthalene | | | 25.0 | 22.5 | | ppb v/v | | 90 | 36 - 146 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *70 - 131* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* |
| *Toluene-d8 (Surr)* | *101* | | *70 - 130* |

**Lab Sample ID: LCSD 570-150222/4**
**Matrix: Air**
**Analysis Batch: 150222**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | | | 25.0 | 29.5 | | ppb v/v | | 118 | 67 - 135 | 1 | 25 |
| 1,1,2,2-Tetrachloroethane | | | 25.0 | 25.0 | | ppb v/v | | 100 | 70 - 130 | 1 | 25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | | 25.0 | 27.2 | | ppb v/v | | 109 | 70 - 130 | 1 | 25 |
| 1,1,2-Trichloroethane | | | 25.0 | 28.6 | | ppb v/v | | 114 | 69 - 131 | 1 | 25 |
| 1,1-Dichloroethane | | | 25.0 | 29.6 | | ppb v/v | | 119 | 69 - 130 | 2 | 25 |
| 1,1-Dichloroethene | | | 25.0 | 28.7 | | ppb v/v | | 115 | 64 - 135 | 3 | 25 |
| 1,1-Difluoroethane | | | 25.0 | 27.3 | | ppb v/v | | 109 | 57 - 146 | 3 | 25 |
| 1,2,4-Trichlorobenzene | | | 25.0 | 21.2 | | ppb v/v | | 85 | 51 - 134 | 5 | 25 |
| 1,2,4-Trimethylbenzene | | | 25.0 | 24.5 | | ppb v/v | | 98 | 68 - 130 | 1 | 25 |
| 1,2-Dibromo-3-Chloropropane | | | 25.0 | 22.7 | | ppb v/v | | 91 | 66 - 130 | 4 | 25 |
| 1,2-Dibromoethane | | | 25.0 | 27.3 | | ppb v/v | | 109 | 70 - 130 | 0 | 25 |
| 1,2-Dichlorobenzene | | | 25.0 | 25.3 | | ppb v/v | | 101 | 68 - 130 | 2 | 25 |
| 1,2-Dichloroethane | | | 25.0 | 28.9 | | ppb v/v | | 116 | 65 - 136 | 0 | 25 |
| 1,2-Dichloropropane | | | 25.0 | 29.2 | | ppb v/v | | 117 | 68 - 132 | 1 | 25 |
| 1,3,5-Trimethylbenzene | | | 25.0 | 26.1 | | ppb v/v | | 104 | 69 - 130 | 0 | 25 |
| 1,3-Dichlorobenzene | | | 25.0 | 27.2 | | ppb v/v | | 109 | 65 - 130 | 2 | 25 |
| 1,4-Dichlorobenzene | | | 25.0 | 28.0 | | ppb v/v | | 112 | 64 - 130 | 2 | 25 |
| 2-Butanone | | | 25.0 | 30.2 | | ppb v/v | | 121 | 66 - 143 | 3 | 25 |
| 2-Hexanone | | | 25.0 | 28.3 | | ppb v/v | | 113 | 64 - 139 | 1 | 25 |
| 4-Ethyltoluene | | | 25.0 | 27.3 | | ppb v/v | | 109 | 69 - 130 | 0 | 25 |
| 4-Methyl-2-pentanone | | | 25.0 | 28.4 | | ppb v/v | | 114 | 65 - 135 | 0 | 25 |
| Acetone | | | 25.0 | 25.1 | | ppb v/v | | 101 | 70 - 130 | 7 | 25 |
| Benzene | | | 25.0 | 31.1 | | ppb v/v | | 124 | 68 - 134 | 2 | 25 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCSD 570-150222/4**
**Matrix: Air**
**Analysis Batch: 150222**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | | | 25.0 | 23.8 | | ppb v/v | | 95 | 70 - 130 | 3 | 25 |
| Bromodichloromethane | | | 25.0 | 27.5 | | ppb v/v | | 110 | 69 - 132 | 1 | 25 |
| Bromoform | | | 25.0 | 25.4 | | ppb v/v | | 101 | 70 - 130 | 0 | 25 |
| Bromomethane | | | 25.0 | 21.6 | | ppb v/v | | 86 | 65 - 130 | 2 | 25 |
| cis-1,2-Dichloroethene | | | 25.0 | 31.5 | | ppb v/v | | 126 | 70 - 130 | 2 | 25 |
| cis-1,3-Dichloropropene | | | 25.0 | 30.1 | | ppb v/v | | 120 | 70 - 134 | 1 | 25 |
| Carbon disulfide | | | 25.0 | 26.8 | | ppb v/v | | 107 | 70 - 130 | 1 | 25 |
| Carbon tetrachloride | | | 25.0 | 26.9 | | ppb v/v | | 108 | 68 - 133 | 1 | 25 |
| Chlorobenzene | | | 25.0 | 26.1 | | ppb v/v | | 104 | 70 - 130 | 1 | 25 |
| Chloroethane | | | 25.0 | 21.8 | | ppb v/v | | 87 | 66 - 134 | 3 | 25 |
| Chloroform | | | 25.0 | 28.2 | | ppb v/v | | 113 | 67 - 131 | 1 | 25 |
| Chloromethane | | | 25.0 | 22.4 | | ppb v/v | | 90 | 60 - 137 | 3 | 25 |
| Dibromochloromethane | | | 25.0 | 24.6 | | ppb v/v | | 99 | 70 - 130 | 1 | 25 |
| Dichlorodifluoromethane | | | 25.0 | 26.6 | | ppb v/v | | 106 | 57 - 138 | 1 | 25 |
| Dichlorotetrafluoroethane | | | 25.0 | 22.3 | | ppb v/v | | 89 | 60 - 133 | 2 | 25 |
| Di-isopropyl ether (DIPE) | | | 25.0 | 26.7 | | ppb v/v | | 107 | 58 - 144 | 0 | 25 |
| Ethylbenzene | | | 25.0 | 27.3 | | ppb v/v | | 109 | 70 - 130 | 1 | 25 |
| Ethyl-t-butyl ether (ETBE) | | | 25.0 | 26.3 | | ppb v/v | | 105 | 67 - 130 | 2 | 25 |
| Hexachloro-1,3-butadiene | | | 25.0 | 19.9 | | ppb v/v | | 80 | 58 - 130 | 4 | 25 |
| Isopropanol | | | 25.0 | 26.1 | | ppb v/v | | 104 | 64 - 133 | 3 | 25 |
| Methylene Chloride | | | 25.0 | 28.4 | | ppb v/v | | 114 | 65 - 130 | 2 | 25 |
| Methyl-t-Butyl Ether (MTBE) | | | 25.0 | 29.1 | | ppb v/v | | 117 | 70 - 130 | 2 | 25 |
| n-Butylbenzene | | | 25.0 | 23.7 | | ppb v/v | | 95 | 64 - 130 | 2 | 25 |
| o-Xylene | | | 25.0 | 26.9 | | ppb v/v | | 108 | 68 - 130 | 1 | 25 |
| m,p-Xylene | | | 50.0 | 52.5 | | ppb v/v | | 105 | 70 - 130 | 1 | 25 |
| sec-Butylbenzene | | | 25.0 | 23.0 | | ppb v/v | | 92 | 67 - 130 | 1 | 25 |
| Styrene | | | 25.0 | 27.0 | | ppb v/v | | 108 | 70 - 130 | 1 | 25 |
| trans-1,2-Dichloroethene | | | 25.0 | 29.7 | | ppb v/v | | 119 | 70 - 130 | 2 | 25 |
| trans-1,3-Dichloropropene | | | 25.0 | 30.8 | | ppb v/v | | 123 | 66 - 142 | 1 | 25 |
| Tert-amyl methyl ether | | | 25.0 | 24.6 | | ppb v/v | | 98 | 70 - 130 | 1 | 25 |
| tert-Butyl alcohol (TBA) | | | 50.0 | 51.8 | | ppb v/v | | 104 | 65 - 132 | 1 | 25 |
| tert-Butylbenzene | | | 25.0 | 23.6 | | ppb v/v | | 95 | 70 - 130 | 1 | 25 |
| Tetrachloroethene | | | 25.0 | 24.5 | | ppb v/v | | 98 | 70 - 130 | 0 | 25 |
| Toluene | | | 25.0 | 27.7 | | ppb v/v | | 111 | 70 - 130 | 0 | 25 |
| Trichloroethene | | | 25.0 | 27.0 | | ppb v/v | | 108 | 69 - 130 | 0 | 25 |
| Trichlorofluoromethane | | | 25.0 | 27.3 | | ppb v/v | | 109 | 62 - 139 | 1 | 25 |
| Vinyl acetate | | | 25.0 | 30.2 | | ppb v/v | | 121 | 64 - 139 | 3 | 25 |
| Vinyl chloride | | | 25.0 | 21.4 | | ppb v/v | | 86 | 65 - 130 | 2 | 25 |
| Naphthalene | | | 25.0 | 21.4 | | ppb v/v | | 86 | 36 - 146 | 5 | 25 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *70 - 131* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *70 - 130* |
| *Toluene-d8 (Surr)* | *101* | | *70 - 130* |

## Method: D1946 - Fixed Gases (Helium)

**Lab Sample ID: MB 570-149391/4**
**Matrix: Air**
**Analysis Batch: 149391**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Helium | ND | | 0.025 | 0.0073 | % v/v | | | 05/08/21 10:06 | 1 |

**Lab Sample ID: LCS 570-149391/2**
**Matrix: Air**
**Analysis Batch: 149391**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Helium | 1.00 | 0.957 | | % v/v | | 96 | 80 - 120 |

**Lab Sample ID: LCSD 570-149391/3**
**Matrix: Air**
**Analysis Batch: 149391**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Helium | 1.00 | 0.941 | | % v/v | | 94 | 80 - 120 | 2 | 20 |

**Lab Sample ID: MB 570-149666/4**
**Matrix: Air**
**Analysis Batch: 149666**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Helium | ND | | 0.025 | 0.0073 | % v/v | | | 05/11/21 14:33 | 1 |

**Lab Sample ID: LCS 570-149666/2**
**Matrix: Air**
**Analysis Batch: 149666**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Helium | 1.00 | 0.900 | | % v/v | | 90 | 80 - 120 |

**Lab Sample ID: LCSD 570-149666/3**
**Matrix: Air**
**Analysis Batch: 149666**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Helium | 1.00 | 0.944 | | % v/v | | 94 | 80 - 120 | 5 | 20 |

**Lab Sample ID: MB 570-150217/4**
**Matrix: Air**
**Analysis Batch: 150217**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Helium | ND | | 0.025 | 0.0073 | % v/v | | | 05/13/21 11:25 | 1 |

**Lab Sample ID: LCS 570-150217/2**
**Matrix: Air**
**Analysis Batch: 150217**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Helium | 1.00 | 0.878 | | % v/v | | 88 | 80 - 120 |

## Method: D1946 - Fixed Gases (Helium)

**Lab Sample ID: LCSD 570-150217/3**
**Matrix: Air**
**Analysis Batch: 150217**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Helium | | | 1.00 | 0.962 | | % v/v | | 96 | 80 - 120 | 9 | 20 |

## Method: D1946 - Fixed Gases in Air (GC)

**Lab Sample ID: MB 570-149371/4**
**Matrix: Air**
**Analysis Batch: 149371**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Carbon dioxide | ND | | 0.50 | 0.016 | % v/v | | | 05/10/21 13:17 | 1 |
| Carbon monoxide | ND | | 0.50 | 0.12 | % v/v | | | 05/10/21 13:17 | 1 |
| Methane | ND | | 0.50 | 0.0069 | % v/v | | | 05/10/21 13:17 | 1 |
| Nitrogen | ND | | 0.50 | 0.17 | % v/v | | | 05/10/21 13:17 | 1 |
| Oxygen + Argon | ND | | 0.50 | 0.084 | % v/v | | | 05/10/21 13:17 | 1 |

**Lab Sample ID: LCS 570-149371/2**
**Matrix: Air**
**Analysis Batch: 149371**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Carbon dioxide | | | 15.0 | 14.2 | | % v/v | | 94 | 80 - 120 | | |
| Carbon monoxide | | | 7.00 | 6.61 | | % v/v | | 94 | 80 - 120 | | |
| Methane | | | 4.50 | 4.47 | | % v/v | | 99 | 80 - 120 | | |
| Nitrogen | | | 69.5 | 72.4 | | % v/v | | 104 | 80 - 120 | | |
| Oxygen + Argon | | | 4.00 | 4.10 | | % v/v | | 103 | 80 - 120 | | |

**Lab Sample ID: LCSD 570-149371/3**
**Matrix: Air**
**Analysis Batch: 149371**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Carbon dioxide | | | 15.0 | 14.5 | | % v/v | | 97 | 80 - 120 | 2 | 20 |
| Carbon monoxide | | | 7.00 | 6.72 | | % v/v | | 96 | 80 - 120 | 2 | 20 |
| Methane | | | 4.50 | 4.40 | | % v/v | | 98 | 80 - 120 | 1 | 20 |
| Nitrogen | | | 69.5 | 72.3 | | % v/v | | 104 | 80 - 120 | 0 | 20 |
| Oxygen + Argon | | | 4.00 | 3.98 | | % v/v | | 100 | 80 - 120 | 3 | 20 |

**Lab Sample ID: MB 570-149680/4**
**Matrix: Air**
**Analysis Batch: 149680**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Carbon dioxide | ND | | 0.50 | 0.016 | % v/v | | | 05/11/21 13:47 | 1 |
| Carbon monoxide | ND | | 0.50 | 0.12 | % v/v | | | 05/11/21 13:47 | 1 |
| Methane | ND | | 0.50 | 0.0069 | % v/v | | | 05/11/21 13:47 | 1 |
| Nitrogen | ND | | 0.50 | 0.17 | % v/v | | | 05/11/21 13:47 | 1 |
| Oxygen + Argon | ND | | 0.50 | 0.084 | % v/v | | | 05/11/21 13:47 | 1 |

## Method: D1946 - Fixed Gases in Air (GC) (Continued)

**Lab Sample ID: LCS 570-149680/2**
**Matrix: Air**
**Analysis Batch: 149680**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Carbon dioxide | 15.0 | 14.4 | | % v/v | | 96 | 80 - 120 |
| Carbon monoxide | 7.00 | 6.63 | | % v/v | | 95 | 80 - 120 |
| Methane | 4.50 | 4.48 | | % v/v | | 100 | 80 - 120 |
| Nitrogen | 69.5 | 72.5 | | % v/v | | 104 | 80 - 120 |
| Oxygen + Argon | 4.00 | 4.10 | | % v/v | | 103 | 80 - 120 |

**Lab Sample ID: LCSD 570-149680/3**
**Matrix: Air**
**Analysis Batch: 149680**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Carbon dioxide | 15.0 | 14.4 | | % v/v | | 96 | 80 - 120 | 0 | 20 |
| Carbon monoxide | 7.00 | 6.58 | | % v/v | | 94 | 80 - 120 | 1 | 20 |
| Methane | 4.50 | 4.46 | | % v/v | | 99 | 80 - 120 | 1 | 20 |
| Nitrogen | 69.5 | 71.9 | | % v/v | | 103 | 80 - 120 | 1 | 20 |
| Oxygen + Argon | 4.00 | 4.03 | | % v/v | | 101 | 80 - 120 | 2 | 20 |

## Method: TO3 - Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)

**Lab Sample ID: MB 570-149203/3**
**Matrix: Air**
**Analysis Batch: 149203**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| TPH (as Gasoline) | ND | | 0.20 | 0.10 | ppm v/v | | | 05/08/21 09:13 | 1 |

**Lab Sample ID: LCS 570-149203/2**
**Matrix: Air**
**Analysis Batch: 149203**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| TPH (as Gasoline) | 200 | 178 | | ppm v/v | | 89 | 80 - 120 |

## Air - GC/MS VOA

### Analysis Batch: 149957

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-58555-1 | SVP-1 | Total/NA | Air | TO-15 | |
| 570-58555-2 | SVP-2 | Total/NA | Air | TO-15 | |
| 570-58555-3 | SVP-3 | Total/NA | Air | TO-15 | |
| 570-58555-4 | SVP-4 | Total/NA | Air | TO-15 | |
| 570-58555-5 | VP-1 | Total/NA | Air | TO-15 | |
| 570-58555-6 | VP-2 | Total/NA | Air | TO-15 | |
| 570-58555-7 | VP-3 | Total/NA | Air | TO-15 | |
| 570-58555-8 | VP-4 | Total/NA | Air | TO-15 | |
| 570-58555-9 | VP-5 | Total/NA | Air | TO-15 | |
| 570-58555-10 | VP-6 | Total/NA | Air | TO-15 | |
| 570-58555-11 | DUP-1 | Total/NA | Air | TO-15 | |
| MB 570-149957/5 | Method Blank | Total/NA | Air | TO-15 | |
| LCS 570-149957/3 | Lab Control Sample | Total/NA | Air | TO-15 | |
| LCSD 570-149957/4 | Lab Control Sample Dup | Total/NA | Air | TO-15 | |

### Analysis Batch: 150222

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-58555-5 - DL | VP-1 | Total/NA | Air | TO-15 | |
| 570-58555-12 - RA | EQB | Total/NA | Air | TO-15 | |
| MB 570-150222/6 | Method Blank | Total/NA | Air | TO-15 | |
| LCS 570-150222/3 | Lab Control Sample | Total/NA | Air | TO-15 | |
| LCSD 570-150222/4 | Lab Control Sample Dup | Total/NA | Air | TO-15 | |

## Air - GC VOA

### Analysis Batch: 149203

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-58555-1 | SVP-1 | Total/NA | Air | TO3 | |
| 570-58555-2 | SVP-2 | Total/NA | Air | TO3 | |
| 570-58555-3 | SVP-3 | Total/NA | Air | TO3 | |
| 570-58555-4 | SVP-4 | Total/NA | Air | TO3 | |
| 570-58555-5 | VP-1 | Total/NA | Air | TO3 | |
| 570-58555-6 | VP-2 | Total/NA | Air | TO3 | |
| 570-58555-7 | VP-3 | Total/NA | Air | TO3 | |
| 570-58555-8 | VP-4 | Total/NA | Air | TO3 | |
| 570-58555-9 | VP-5 | Total/NA | Air | TO3 | |
| 570-58555-10 | VP-6 | Total/NA | Air | TO3 | |
| 570-58555-11 | DUP-1 | Total/NA | Air | TO3 | |
| 570-58555-12 | EQB | Total/NA | Air | TO3 | |
| MB 570-149203/3 | Method Blank | Total/NA | Air | TO3 | |
| LCS 570-149203/2 | Lab Control Sample | Total/NA | Air | TO3 | |

### Analysis Batch: 149371

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-58555-1 | SVP-1 | Total/NA | Air | D1946 | |
| 570-58555-2 | SVP-2 | Total/NA | Air | D1946 | |
| 570-58555-4 | SVP-4 | Total/NA | Air | D1946 | |
| 570-58555-5 | VP-1 | Total/NA | Air | D1946 | |
| 570-58555-6 | VP-2 | Total/NA | Air | D1946 | |
| 570-58555-8 | VP-4 | Total/NA | Air | D1946 | |
| 570-58555-9 - RA | VP-5 | Total/NA | Air | D1946 | |

## Air - GC VOA (Continued)

### Analysis Batch: 149371 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-58555-10 | VP-6 | Total/NA | Air | D1946 | |
| 570-58555-11 | DUP-1 | Total/NA | Air | D1946 | |
| 570-58555-12 | EQB | Total/NA | Air | D1946 | |
| MB 570-149371/4 | Method Blank | Total/NA | Air | D1946 | |
| LCS 570-149371/2 | Lab Control Sample | Total/NA | Air | D1946 | |
| LCSD 570-149371/3 | Lab Control Sample Dup | Total/NA | Air | D1946 | |

### Analysis Batch: 149391

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-58555-1 | SVP-1 | Total/NA | Air | D1946 | |
| 570-58555-2 | SVP-2 | Total/NA | Air | D1946 | |
| 570-58555-3 | SVP-3 | Total/NA | Air | D1946 | |
| MB 570-149391/4 | Method Blank | Total/NA | Air | D1946 | |
| LCS 570-149391/2 | Lab Control Sample | Total/NA | Air | D1946 | |
| LCSD 570-149391/3 | Lab Control Sample Dup | Total/NA | Air | D1946 | |

### Analysis Batch: 149666

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-58555-4 | SVP-4 | Total/NA | Air | D1946 | |
| 570-58555-5 | VP-1 | Total/NA | Air | D1946 | |
| 570-58555-6 | VP-2 | Total/NA | Air | D1946 | |
| 570-58555-7 | VP-3 | Total/NA | Air | D1946 | |
| 570-58555-8 | VP-4 | Total/NA | Air | D1946 | |
| MB 570-149666/4 | Method Blank | Total/NA | Air | D1946 | |
| LCS 570-149666/2 | Lab Control Sample | Total/NA | Air | D1946 | |
| LCSD 570-149666/3 | Lab Control Sample Dup | Total/NA | Air | D1946 | |

### Analysis Batch: 149680

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-58555-3 | SVP-3 | Total/NA | Air | D1946 | |
| 570-58555-7 | VP-3 | Total/NA | Air | D1946 | |
| MB 570-149680/4 | Method Blank | Total/NA | Air | D1946 | |
| LCS 570-149680/2 | Lab Control Sample | Total/NA | Air | D1946 | |
| LCSD 570-149680/3 | Lab Control Sample Dup | Total/NA | Air | D1946 | |

### Analysis Batch: 150217

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-58555-9 | VP-5 | Total/NA | Air | D1946 | |
| 570-58555-10 | VP-6 | Total/NA | Air | D1946 | |
| 570-58555-11 | DUP-1 | Total/NA | Air | D1946 | |
| 570-58555-12 | EQB | Total/NA | Air | D1946 | |
| MB 570-150217/4 | Method Blank | Total/NA | Air | D1946 | |
| LCS 570-150217/2 | Lab Control Sample | Total/NA | Air | D1946 | |
| LCSD 570-150217/3 | Lab Control Sample Dup | Total/NA | Air | D1946 | |

## Client Sample ID: SVP-1
**Lab Sample ID: 570-58555-1**
**Date Collected: 05/06/21 10:09**
**Matrix: Air**
**Date Received: 05/07/21 10:15**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1.316 | 400 mL | 400 mL | 149957 | 05/12/21 23:19 | USQD | ECL 2 |
| | Instrument ID: GCMSHH | | | | | | | | | |
| Total/NA | Analysis | D1946 | | 1 | | | 149391 | 05/08/21 14:09 | I9H5 | ECL 2 |
| | Instrument ID: GC55 | | | | | | | | | |
| Total/NA | Analysis | D1946 | | 1 | 1 mL | 1 mL | 149371 | 05/10/21 14:09 | USQD | ECL 2 |
| | Instrument ID: GC65 | | | | | | | | | |
| Total/NA | Analysis | TO3 | | 1 | | | 149203 | 05/08/21 09:27 | I9H5 | ECL 2 |
| | Instrument ID: GC13 | | | | | | | | | |

## Client Sample ID: SVP-2
**Lab Sample ID: 570-58555-2**
**Date Collected: 05/06/21 10:52**
**Matrix: Air**
**Date Received: 05/07/21 10:15**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1.342 | 400 mL | 400 mL | 149957 | 05/13/21 00:15 | USQD | ECL 2 |
| | Instrument ID: GCMSHH | | | | | | | | | |
| Total/NA | Analysis | D1946 | | 1 | | | 149391 | 05/08/21 14:33 | I9H5 | ECL 2 |
| | Instrument ID: GC55 | | | | | | | | | |
| Total/NA | Analysis | D1946 | | 1 | 1 mL | 1 mL | 149371 | 05/10/21 14:35 | USQD | ECL 2 |
| | Instrument ID: GC65 | | | | | | | | | |
| Total/NA | Analysis | TO3 | | 1 | | | 149203 | 05/08/21 09:48 | I9H5 | ECL 2 |
| | Instrument ID: GC13 | | | | | | | | | |

## Client Sample ID: SVP-3
**Lab Sample ID: 570-58555-3**
**Date Collected: 05/06/21 11:32**
**Matrix: Air**
**Date Received: 05/07/21 10:15**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 400 mL | 400 mL | 149957 | 05/13/21 01:13 | USQD | ECL 2 |
| | Instrument ID: GCMSHH | | | | | | | | | |
| Total/NA | Analysis | D1946 | | 1 | | | 149391 | 05/08/21 15:26 | I9H5 | ECL 2 |
| | Instrument ID: GC55 | | | | | | | | | |
| Total/NA | Analysis | D1946 | | 1 | 1 mL | 1 mL | 149680 | 05/11/21 14:42 | FWR2 | ECL 2 |
| | Instrument ID: GC65 | | | | | | | | | |
| Total/NA | Analysis | TO3 | | 1 | | | 149203 | 05/08/21 10:00 | I9H5 | ECL 2 |
| | Instrument ID: GC13 | | | | | | | | | |

## Client Sample ID: SVP-4
**Lab Sample ID: 570-58555-4**
**Date Collected: 05/06/21 12:12**
**Matrix: Air**
**Date Received: 05/07/21 10:15**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1.114 | 400 mL | 400 mL | 149957 | 05/13/21 02:17 | USQD | ECL 2 |
| | Instrument ID: GCMSHH | | | | | | | | | |

## Client Sample ID: SVP-4
**Lab Sample ID: 570-58555-4**
**Date Collected: 05/06/21 12:12**
**Matrix: Air**
**Date Received: 05/07/21 10:15**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | D1946 | | 1 | | | 149666 | 05/11/21 16:08 | I9H5 | ECL 2 |
| Total/NA | Analysis | D1946 | | 1 | 1 mL | 1 mL | 149371 | 05/10/21 15:22 | USQD | ECL 2 |
| | Instrument ID: GC65 | | | | | | | | | |
| Total/NA | Analysis | TO3 | | 1 | | | 149203 | 05/08/21 10:18 | I9H5 | ECL 2 |
| | Instrument ID: GC13 | | | | | | | | | |

## Client Sample ID: VP-1
**Lab Sample ID: 570-58555-5**
**Date Collected: 05/04/21 09:12**
**Matrix: Air**
**Date Received: 05/07/21 10:15**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 400 mL | 400 mL | 149957 | 05/13/21 03:16 | USQD | ECL 2 |
| | Instrument ID: GCMSHH | | | | | | | | | |
| Total/NA | Analysis | TO-15 | DL | 5.6 | 400 mL | 400 mL | 150222 | 05/13/21 16:48 | USQD | ECL 2 |
| | Instrument ID: GCMSZZ | | | | | | | | | |
| Total/NA | Analysis | D1946 | | 1 | | | 149666 | 05/11/21 17:20 | I9H5 | ECL 2 |
| | Instrument ID: GC55 | | | | | | | | | |
| Total/NA | Analysis | D1946 | | 1 | 1 mL | 1 mL | 149371 | 05/10/21 15:45 | USQD | ECL 2 |
| | Instrument ID: GC65 | | | | | | | | | |
| Total/NA | Analysis | TO3 | | 1 | | | 149203 | 05/08/21 10:35 | I9H5 | ECL 2 |
| | Instrument ID: GC13 | | | | | | | | | |

## Client Sample ID: VP-2
**Lab Sample ID: 570-58555-6**
**Date Collected: 05/04/21 09:47**
**Matrix: Air**
**Date Received: 05/07/21 10:15**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1.223 | 400 mL | 400 mL | 149957 | 05/13/21 04:12 | USQD | ECL 2 |
| | Instrument ID: GCMSHH | | | | | | | | | |
| Total/NA | Analysis | D1946 | | 1 | | | 149666 | 05/11/21 18:10 | I9H5 | ECL 2 |
| | Instrument ID: GC55 | | | | | | | | | |
| Total/NA | Analysis | D1946 | | 1 | 1 mL | 1 mL | 149371 | 05/10/21 16:24 | USQD | ECL 2 |
| | Instrument ID: GC65 | | | | | | | | | |
| Total/NA | Analysis | TO3 | | 1 | | | 149203 | 05/08/21 10:49 | I9H5 | ECL 2 |
| | Instrument ID: GC13 | | | | | | | | | |

## Client Sample ID: VP-3
**Lab Sample ID: 570-58555-7**
**Date Collected: 05/04/21 10:23**
**Matrix: Air**
**Date Received: 05/07/21 10:15**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1.384 | 400 mL | 400 mL | 149957 | 05/13/21 05:07 | USQD | ECL 2 |
| | Instrument ID: GCMSHH | | | | | | | | | |
| Total/NA | Analysis | D1946 | | 1 | | | 149666 | 05/11/21 19:48 | I9H5 | ECL 2 |
| | Instrument ID: GC55 | | | | | | | | | |

## Client Sample ID: VP-3
**Lab Sample ID: 570-58555-7**
**Date Collected: 05/04/21 10:23**
**Matrix: Air**
**Date Received: 05/07/21 10:15**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | D1946 | | 1 | 1 mL | 1 mL | 149680 | 05/11/21 15:11 | FWR2 | ECL 2 |
| Total/NA | Analysis | TO3 | | 1 | | | 149203 | 05/08/21 11:03 | I9H5 | ECL 2 |
| | Instrument ID: GC13 | | | | | | | | | |

## Client Sample ID: VP-4
**Lab Sample ID: 570-58555-8**
**Date Collected: 05/04/21 10:57**
**Matrix: Air**
**Date Received: 05/07/21 10:15**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1.114 | 400 mL | 400 mL | 149957 | 05/13/21 06:02 | USQD | ECL 2 |
| | Instrument ID: GCMSHH | | | | | | | | | |
| Total/NA | Analysis | D1946 | | 1 | | | 149666 | 05/11/21 20:38 | I9H5 | ECL 2 |
| | Instrument ID: GC55 | | | | | | | | | |
| Total/NA | Analysis | D1946 | | 1 | 1 mL | 1 mL | 149371 | 05/10/21 17:12 | USQD | ECL 2 |
| | Instrument ID: GC65 | | | | | | | | | |
| Total/NA | Analysis | TO3 | | 1 | | | 149203 | 05/08/21 11:16 | I9H5 | ECL 2 |
| | Instrument ID: GC13 | | | | | | | | | |

## Client Sample ID: VP-5
**Lab Sample ID: 570-58555-9**
**Date Collected: 05/04/21 12:47**
**Matrix: Air**
**Date Received: 05/07/21 10:15**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1.754 | 400 mL | 400 mL | 149957 | 05/13/21 06:57 | USQD | ECL 2 |
| | Instrument ID: GCMSHH | | | | | | | | | |
| Total/NA | Analysis | D1946 | | 1 | | | 150217 | 05/13/21 14:23 | I9H5 | ECL 2 |
| | Instrument ID: GC55 | | | | | | | | | |
| Total/NA | Analysis | D1946 | RA | 1 | 1 mL | 1 mL | 149371 | 05/10/21 19:47 | USQD | ECL 2 |
| | Instrument ID: GC65 | | | | | | | | | |
| Total/NA | Analysis | TO3 | | 1 | | | 149203 | 05/08/21 11:34 | I9H5 | ECL 2 |
| | Instrument ID: GC13 | | | | | | | | | |

## Client Sample ID: VP-6
**Lab Sample ID: 570-58555-10**
**Date Collected: 05/06/21 09:23**
**Matrix: Air**
**Date Received: 05/07/21 10:15**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1.356 | 400 mL | 400 mL | 149957 | 05/13/21 07:52 | USQD | ECL 2 |
| | Instrument ID: GCMSHH | | | | | | | | | |
| Total/NA | Analysis | D1946 | | 1 | | | 150217 | 05/13/21 14:44 | I9H5 | ECL 2 |
| | Instrument ID: GC55 | | | | | | | | | |
| Total/NA | Analysis | D1946 | | 1 | 1 mL | 1 mL | 149371 | 05/10/21 18:01 | USQD | ECL 2 |
| | Instrument ID: GC65 | | | | | | | | | |
| Total/NA | Analysis | TO3 | | 1 | | | 149203 | 05/08/21 11:46 | I9H5 | ECL 2 |
| | Instrument ID: GC13 | | | | | | | | | |

# Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 570-58555-1
Project/Site: Chevron 206145 Oakland Center Street

## Client Sample ID: DUP-1
**Lab Sample ID: 570-58555-11**
**Date Collected: 05/06/21 00:00**
**Matrix: Air**
**Date Received: 05/07/21 10:15**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1.32 | 400 mL | 400 mL | 149957 | 05/13/21 08:47 | USQD | ECL 2 |
| | Instrument ID: GCMSHH | | | | | | | | | |
| Total/NA | Analysis | D1946 | | 1 | | | 150217 | 05/13/21 15:08 | I9H5 | ECL 2 |
| | Instrument ID: GC55 | | | | | | | | | |
| Total/NA | Analysis | D1946 | | 1 | 1 mL | 1 mL | 149371 | 05/10/21 18:25 | USQD | ECL 2 |
| | Instrument ID: GC65 | | | | | | | | | |
| Total/NA | Analysis | TO3 | | 1 | | | 149203 | 05/08/21 12:01 | I9H5 | ECL 2 |
| | Instrument ID: GC13 | | | | | | | | | |

## Client Sample ID: EQB
**Lab Sample ID: 570-58555-12**
**Date Collected: 05/06/21 11:52**
**Matrix: Air**
**Date Received: 05/07/21 10:15**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | RA | 1.98 | 400 mL | 400 mL | 150222 | 05/13/21 18:16 | USQD | ECL 2 |
| | Instrument ID: GCMSZZ | | | | | | | | | |
| Total/NA | Analysis | D1946 | | 1 | | | 150217 | 05/13/21 15:48 | I9H5 | ECL 2 |
| | Instrument ID: GC55 | | | | | | | | | |
| Total/NA | Analysis | D1946 | | 1 | 1 mL | 1 mL | 149371 | 05/10/21 18:48 | USQD | ECL 2 |
| | Instrument ID: GC65 | | | | | | | | | |
| Total/NA | Analysis | TO3 | | 1 | | | 149203 | 05/08/21 12:19 | I9H5 | ECL 2 |
| | Instrument ID: GC13 | | | | | | | | | |

**Laboratory References:**
ECL 2 = Eurofins Calscience LLC  Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

# Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 570-58555-1
Project/Site: Chevron 206145 Oakland Center Street

## Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Arkansas DEQ | State | 88-0161 | 11-19-21 |
| California | Los Angeles County Sanitation Districts | 10109 | 09-30-21 |
| California | SCAQMD LAP | 17LA0919 | 11-30-21 |
| California | State | 2944 | 09-30-21 |
| Guam | State | 20-003R | 10-31-20 * |
| Nevada | State | CA00111 | 07-31-21 |
| Oregon | NELAP | CA300001 | 01-30-22 |
| USDA | US Federal Programs | P330-20-00034 | 02-10-23 |
| Washington | State | C916-18 | 10-11-21 |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: ARCADIS U.S. Inc
Job ID: 570-58555-1
Project/Site: Chevron 206145 Oakland Center Street

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| TO-15 | Volatile Organic Compounds in Ambient Air | EPA | ECL 2 |
| D1946 | Fixed Gases (Helium) | ASTM | ECL 2 |
| D1946 | Fixed Gases in Air (GC) | ASTM | ECL 2 |
| TO3 | Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC) | EPA | ECL 2 |

**Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

**Laboratory References:**

ECL 2 = Eurofins Calscience LLC  Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

# Sample Summary

Client: ARCADIS U.S. Inc
Job ID: 570-58555-1
Project/Site: Chevron 206145 Oakland Center Street

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 570-58555-1 | SVP-1 | Air | 05/06/21 10:09 | 05/07/21 10:15 | |
| 570-58555-2 | SVP-2 | Air | 05/06/21 10:52 | 05/07/21 10:15 | |
| 570-58555-3 | SVP-3 | Air | 05/06/21 11:32 | 05/07/21 10:15 | |
| 570-58555-4 | SVP-4 | Air | 05/06/21 12:12 | 05/07/21 10:15 | |
| 570-58555-5 | VP-1 | Air | 05/04/21 09:12 | 05/07/21 10:15 | |
| 570-58555-6 | VP-2 | Air | 05/04/21 09:47 | 05/07/21 10:15 | |
| 570-58555-7 | VP-3 | Air | 05/04/21 10:23 | 05/07/21 10:15 | |
| 570-58555-8 | VP-4 | Air | 05/04/21 10:57 | 05/07/21 10:15 | |
| 570-58555-9 | VP-5 | Air | 05/04/21 12:47 | 05/07/21 10:15 | |
| 570-58555-10 | VP-6 | Air | 05/06/21 09:23 | 05/07/21 10:15 | |
| 570-58555-11 | DUP-1 | Air | 05/06/21 00:00 | 05/07/21 10:15 | |
| 570-58555-12 | EQB | Air | 05/06/21 11:52 | 05/07/21 10:15 | |

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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

570-58555 Chain of Custody

# AIR CHAIN-OF-CUSTODY RECORD

DATE:

PAGE: 1 OF 1

| | |
|---|---|
| LABORATORY CLIENT: Arcadis | CLIENT PROJECT NAME / NO.: Chevron 206145 |
| ADDRESS: 2300 Clayton Road, Suite 400 | PO NO.: 30046051 |
| CITY: Concord STATE: CA ZIP: 94520 | PROJECT CONTACT: Ross LaGrandeur |
| TEL.: (831) 229-4546 E-MAIL: Ross.LaGrandeur@arcadis.com | LAB CONTACT OR QUOTE NO.: Lena Davidkova |
| | PROJECT ADDRESS: 600 Center Street |
| | SAMPLER(S): (PRINT) Everett Rubin |
| TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"): ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☑ 5 DAYS ☐ STANDARD | CITY: Oakland STATE: CA ZIP: 94607 |
| EDD: ☐ COELT EDF ☐ OTHER | UNITS: ug/m³ |

SPECIAL INSTRUCTIONS:

TO-15 Scan for Full list VOCs, Naphthalene, and TPH-G
ASTM 1946 D for $O_2$, $CO_2$, $CH_4$, and Helium

REQUESTED ANALYSES: TO-15 (see notes); ASTM D1946 (see notes)

| LAB USE ONLY | SAMPLE ID | FIELD ID / POINT OF COLLECTION | MATRIX: Indoor (I) Soil Vap. (SV) Ambient (A) | SAMPLING EQUIPMENT: Media ID | Canister Size 6L or 1L | Flow Controller ID | START SAMPLING INFORMATION: Date | Time (24 hr clock) | Canister Pressure (in Hg) | STOP SAMPLING INFORMATION: Date | Time (24 hr clock) | Canister Pressure (in Hg) | TO-15 | ASTM D1946 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SVP-1 | " " | SV | LC581 | 1L | A317 | 5/6/21 | 1004 | -30 | 5/6/21 | 1009 | -5 | ✓ | ✓ |
| 2 | SVP-2 | " " | | LC100 | | A468 | | 1047 | -30 | | 1052 | | ✓ | ✓ |
| 3 | SVP-3 | " " | | LC224 | | A224 | | 1127 | -30 | | 1132 | | ✓ | ✓ |
| 4 | SVP-4 | " " | | LC886 | | A147 | | 1206 | -30 | | 1212 | | ✓ | ✓ |
| 5 | VP-1 | " " | | LC617 | | A350 | 5/4/21 | 0907 | -30 | 5/4/21 | 0912 | | ✓ | ✓ |
| 6 | VP-2 | " " | | LC1254 | | A283 | | 0943 | -29 | | 0947 | | ✓ | ✓ |
| 7 | VP-3 | " " | | LC627 | | A124 | | 1018 | -30 | | 1023 | | ✓ | ✓ |
| 8 | VP-4 | " " | | LC1152 | | A23 | | 1054 | -28 | | 1057 | | ✓ | ✓ |
| 9 | VP-5 | " " | | LC907 | | A469 | | 1241 | -30 | | 1247 | | ✓ | ✓ |
| 10 | VP-6 | " " | | LC191 | | A325 | 5/6/21 | 0913 | -30 | 5/6/21 | 0923 | | ✓ | ✓ |
| 11 | DUP-1 | — | SV | LC646 | 1L | [redacted] | 5/6/21 | — | -30 | 5/6/21 | — | -5 | ✓ | ✓ |
| 12 | EQB | — | — | LC078 | 1L | A446 | 5/6/21 | 1116 | -30 | 1152 | | -12 | ✓ | ✓ |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) Everett Rubin | Received by: (Signature/Affiliation) FED EX | Date: 5/6/21 | Time: 1340 |
| Relinquished by: (Signature) Fed Ex | Received by: (Signature/Affiliation) Marked | Date: 5/7/21 | Time: 1015 |

2014-07-01 Revision

570-58555 Waybill
ORIGIN ID:JEMA (925) 391-6232
EVERETT RUBIN
1401 JACKSON ST APT 507
OAKLAND, CA 94612
UNITED STATES US
SHIP DATE: 06MAY21
ACTWGT: 16.45 LB
CAD: 6992999/SSFO2201
DIMS: 15x12x11 IN
BILL THIRD PARTY
TO SAMPLE CONTROL
EURIFINS CALSCIENCE, INC
7440 LINCOLN WAY
GARDEN GROVE CA 92841
(949) 260-3229
REF:
DEPT:
FedEx Express
1 of 3
FRI - 07 MAY 4:30P
STANDARD OVERNIGHT
92 APVA
2 of 3
MPS# 0263 7868 6714 9673
Mstr# 7868 6714 9662
0201
92841
CA-US SNA
3 of 3
MPS# 0263 7868 6714 9684
Mstr# 7868 6714 9662
0201
92841
CA-US SNA

# Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 570-58555-1

**Login Number: 58555**
**List Number: 1**
**Creator: Cruise, Noel**

**List Source: Eurofins Calscience LLC**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | False | Thermal preservation not required. |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Summa Canister Dilution Worksheet

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145 Oakland Center Street

Job No.: 570-58555-1

| Lab Sample ID | Canister Volume (L) | Preadjusted Pressure ("Hg) | Preadjusted Pressure (atm) | Preadjusted Volume (L) | Adjusted Pressure (psig) | Adjusted Pressure (atm) | Adjusted Volume (L) | Initial Volume (mL) | Dilution Factor | Final Dilution Factor | Pressure Gauge ID | Date | Analyst Initals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 570-58555-1 | 1 | -4.6 | 0.85 | 0.85 | -2.25931 | 0.85 | 0.85 | | 1.00 | 1.00 | AIR MG-6 | 05/07/21 21:44 | XKG5 |
| 570-58555-2 | 1 | -7.0 | 0.77 | 0.77 | -3.43808 | 0.77 | 0.77 | | 1.00 | 1.00 | AIR MG-6 | 05/07/21 21:45 | XKG5 |
| 570-58555-3 | 1 | -5.6 | 0.81 | 0.81 | -2.75046 | 0.81 | 0.81 | | 1.00 | 1.00 | AIR MG-6 | 05/07/21 21:45 | XKG5 |
| 570-58555-4 | 1 | 0 | 1.00 | 1.00 | 0.0 | 1.00 | 1.00 | | 1.00 | 1.00 | AIR MG-6 | 05/07/21 21:46 | XKG5 |
| 570-58555-5 | 1 | 0 | 1.00 | 1.00 | 0.0 | 1.00 | 1.00 | | 1.00 | 1.00 | AIR MG-6 | 05/07/21 21:46 | XKG5 |
| 570-58555-5 | 1 | -12 | 0.60 | 0.60 | 5 | 1.34 | 1.34 | | 2.24 | 2.24 | AIR MG-6 | 05/13/21 13:34 | USQD |
| 570-58555-6 | 1 | -3.8 | 0.87 | 0.87 | -1.86639 | 0.87 | 0.87 | | 1.00 | 1.00 | AIR MG-6 | 05/07/21 21:46 | XKG5 |
| 570-58555-7 | 1 | -6.0 | 0.80 | 0.80 | -2.94692 | 0.80 | 0.80 | | 1.00 | 1.00 | AIR MG-6 | 05/07/21 21:47 | XKG5 |
| 570-58555-8 | 1 | -8.0 | 0.73 | 0.73 | -3.92923 | 0.73 | 0.73 | | 1.00 | 1.00 | AIR MG-6 | 05/07/21 21:47 | XKG5 |
| 570-58555-9 | 1 | -8.0 | 0.73 | 0.73 | -3.92923 | 0.73 | 0.73 | | 1.00 | 1.00 | AIR MG-6 | 05/07/21 21:48 | XKG5 |
| 570-58555-10 | 1 | -4.4 | 0.85 | 0.85 | -2.16108 | 0.85 | 0.85 | | 1.00 | 1.00 | AIR MG-6 | 05/07/21 21:48 | XKG5 |
| 570-58555-11 | 1 | -4.2 | 0.86 | 0.86 | -2.06285 | 0.86 | 0.86 | | 1.00 | 1.00 | AIR MG-6 | 05/07/21 21:49 | XKG5 |
| 570-58555-12 | 1 | 0 | 1.00 | 1.00 | 0.0 | 1.00 | 1.00 | | 1.00 | 1.00 | AIR MG-6 | 05/07/21 21:49 | XKG5 |
| 570-58555-12 | 1 | -14.8 | 0.51 | 0.51 | 0 | 1.00 | 1.00 | | 1.98 | 1.98 | AIR MG-6 | 05/13/21 13:35 | USQD |

# Summa Canister Dilution Worksheet

Client: ARCADIS U.S. Inc
Project/Site: Chevron 206145 Oakland Center Street

Job No.: 570-58555-1

**Formulae:**

Preadjusted Volume (L) = ( Preadjusted Pressure ("Hg) + 29.92 "Hg * Vol L ) / 29.92 "Hg
Adjusted Volume (L) = ( Adjusted Pressure (psig) + 14.7 psig * Vol L ) / 14.7 psig
Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

**Where:**

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)
14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

# Appendix D

## Boring Logs

ARCADIS Design & Consultancy for natural and built assets

# Soil Boring Log

Boring No.: G-15-C

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-13-2021 Logger: Radley Alvarez
Date Completed: 04-13-2021 Editor: NA
Weather Conditions: Sunny H:66°F L: 48°F

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1 | Hand Auger | | 0.0 | | (0.0-15.0') SAND (0,90,10) with silt; well sorted; dry; very loose; weak cementation; (10YR 3/4). | | |
| 2 | | | 0.0 | | | | |
| 3 | | | 0.0 | | | | |
| 4 | | | 0.0 | | | 4" hole diameter | |
| 5 | | | 0.0 | | | | |
| 6 | | | 0.0 | | | | |
| 7 | | | 0.0 | | At 7.0 ft bgs, moist; (10YR 5/4). | | |
| 8 | | | 57.1 | | | Backfilled with native material | |
| 9 | 1 | | 1,788 | | | | |
| 10 | | | 1,887 | | | | |
| 11 | | G-15-C-6 @ 0905 | 959.3 | | | | |
| 12 | 1 | | 436.4 | | | | |
| 13 | | | 65.3 | | | | |
| 14 | 1 | | 23.4 | | At 14.0 ft bgs, wet. | | |
| 15 | | G-15-C-15 @ 0930 | 0.0 | | End of boring at 15.0 ft bgs. | | |
| 16 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

CHEVRON-206145 D:\A-PROJECT FILES\BORELOGS\CHEVRON-206145 FORMER SIGNAL OIL\GEC BANGALORE\TEMPLATE\CHEVRON-206145 FORMER SIGNAL OIL-PROJECT FILE.GPJ 351645.GDT 5/13/21

ARCADIS Design & Consultancy for natural and built assets

# Soil Boring Log

Boring No.: G-16-C

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-13-2021 Logger: Radley Alvarez
Date Completed: 04-13-2021 Editor: NA
Weather Conditions: Partly Cloudy H:63°F L: 48°F

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1 | Hand Auger | | 0.0 | | (0.0-5.0') SAND (0,90,10), fine; with silt; well sorted; dry; very loose; (10YR 3/3). | | |
| 2 | | | 0.2 | | | | |
| 3 | | | 0.0 | | | | |
| 4 | | | 0.1 | | | | |
| 5 | | | 0.3 | | Color change to (10YR 5/4). | | |
| 6 | | | 0.3 | | (5.0-15.0') SAND (0,100,0), fine to medium; moist; weak cementation (10YR 5/6). | | |
| 7 | | | 0.0 | | | | |
| 8 | | | 0.3 | | | Backfilled with native material | |
| 9 | 1 | | 1,547 | | | | |
| 10 | | | 1,860 | | | | |
| 11 | 1 | G-16-C-10 @ 0935 | 1,444 | | | | |
| 12 | | | 562.0 | | | | |
| 13 | 1 | | 93.6 | | | | |
| 14 | | | 41.7 | | | | |
| 15 | | G-16-C-15 @ 0945 | 4.6 | | | | |
| 16 | | | | | End of boring at 15.0 ft bgs | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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ARCADIS Design & Consultancy for natural and built assets

# Soil Boring Log

Boring No.: G-17-C

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-13-2021 Logger: Radley Alvarez
Date Completed: 04-13-2021 Editor: NA
Weather Conditions: Partly Cloudy H:63°F L: 48°F

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1 | Hand Auger | | 0.0 | | (0.0-5.0') SAND (0,90,10), fine; with silt; well sorted; dry; very loose; (10YR 3/3). | | |
| | | | 0.1 | | | | |
| 2 | | | 0.2 | | | | |
| 3 | | | 0.0 | | | | |
| 4 | | | 0.4 | | Color change to (10YR 5/4). | | |
| 5 | | | 0.3 | | (5.0-15.0') SAND (0,100,0), fine to medium; moist; weak cementation (10YR 5/6). | | |
| 6 | | | 0.3 | | | | |
| 7 | | | 6.7 | | | Backfilled with native material | |
| 8 | | | 1,319 | | | | |
| 9 | 1 | | 1,451 | | | | |
| 10 | | | 1,658 | | | | |
| 11 | 1 | | 153.6 | | | | |
| 12 | | | 542.0 | | | | |
| 13 | | | 35.2 | | | | |
| 14 | 1 | | 53.3 | | | | |
| 15 | | | | | End of boring at 15.0 ft bgs | | |
| 16 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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ARCADIS Design & Consultancy for natural and built assets

# Soil Boring Log

Boring No.: G-27-C

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-13-2021 Logger: Radley Alvarez
Date Completed: 04-13-2021 Editor: NA
Weather Conditions: Partly Cloudy H:63°F L: 48°F

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1 | Hand Auger | | 0.2 | | (0.0-15.0') SAND (0,100,0), fine to medium grained; very loose; weak cementation; (10YR 3/3). | Backfilled with native material | |
| 2 | | | 0.0 | | | | |
| 3 | | | 0.4 | | | | |
| 4 | | | 0.5 | | | | |
| 5 | | | 0.3 | | | | |
| 6 | | | 0.1 | | At 6.0 ft bgs, color change to (10YR 4/6); moist. | | |
| 7 | | | 0.1 | | At 7.0 ft bgs, some silt appears (0,90,10). | | |
| 8 | | | 0.0 | | | | |
| 9 | | | 8.9 | | | | |
| 10 | | | 608 | | | | |
| 11 | | | 1,469 | | | | |
| 12 | | | 1,034 | | | | |
| 13 | | | 84.6 | | | | |
| 14 | | | 34.6 | | | | |
| 15 | | | 15.9 | | | | |
| 16 | | | | | End of boring at 15.0 ft bgs. | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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ARCADIS Design & Consultancy for natural and built assets

# Soil Boring Log

Boring No.: SB-1

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-13-2021 Logger: Radley Alvarez
Date Completed: 04-13-2021 Editor: NA
Weather Conditions: Sunny H:66°F L: 48°F

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1 | Hand Auger | | 0.0 | | (0.0-15.0') SAND (0,90,10); with silt; well sorted; dry; very loose; weak cementation; (10YR 3/4). | 4" hole diameter | |
| 2 | | | 0.0 | | | | |
| 3 | | | 0.0 | | | | |
| 4 | | | 0.0 | | | | |
| 5 | | | 0.0 | | At 5.0 ft bgs, moist, color change to (10YR 4/4). | | |
| 6 | | | 0.0 | | | | |
| 7 | | | 0.0 | | | | |
| 8 | | | 0.0 | | | Backfilled with native material | |
| 9 | 1 | | 0.0 | | | | |
| 10 | | | 0.0 | | | | |
| 11 | 1 | | 0.0 | | | | |
| 12 | | | 0.0 | | | | |
| 13 | 1 | | 0.0 | | At 13.0 ft bgs, wet. | | |
| 14 | | | 0.0 | | | | |
| 15 | | | 0.0 | | | | |
| 16 | | | | | End of boring at 15.0 ft bgs. | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Direct Push
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Direct Push
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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ARCADIS Design & Consultancy for natural and built assets

# Soil Boring Log

Boring No.: SB-2

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-12-2021 Logger: Radley Alvarez
Date Completed: 04-12-2021 Editor: NA
Weather Conditions: Sunny H:66°F L: 48°F

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1 | Hand Auger | | 0.0 | | (0.0-15.0') SAND (0,90,10); with silt; well sorted; dry; very loose; weak cementation; (10YR 3/4). | 4" hole diameter | |
| 2 | | | 0.0 | | | | |
| 3 | | | 0.0 | | | | |
| 4 | | | 0.0 | | | | |
| 5 | | | 0.0 | | At 5.0 ft bgs, moist, color change to (10YR 4/4). | | |
| 6 | | | 0.0 | | | | |
| 7 | | | 0.0 | | | Backfilled with native material | |
| 8 | | | 0.0 | | | | |
| 9 | 1 | | 0.0 | | | | |
| 10 | | | 0.0 | | | | |
| 11 | 1 | | 0.0 | | | | |
| 12 | | | 0.0 | | | | |
| 13 | 1 | | 0.0 | | At 13.0 ft bgs, wet. | | |
| 14 | | | 0.0 | | | | |
| 15 | | | 0.0 | | | | |
| 16 | | | | | End of boring at 15.0 ft bgs. | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Direct Push
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Direct Push
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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ARCADIS Design & Consultancy for natural and built assets

# Soil Boring Log

Boring No.: SB-3

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-12-2021 Logger: Radley Alvarez
Date Completed: 04-12-2021 Editor: NA
Weather Conditions: Sunny H:66°F L: 48°F

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1 | Hand Auger | | 0.0 | | (0.0-5.0') SANDY SILT (20,30,50); with gravels; medium sand to large pebbles; poorly sorted; dry; very loose; (10YR 5/3). | 4" hole diameter | |
| 2 | | | 0.0 | | | | |
| 3 | | | 0.0 | | | | |
| 4 | | | 0.0 | | | | |
| 5 | | | 0.0 | | | | |
| 6 | | | 0.0 | | (5.0-10.0') SAND (0,100,0), fine to medium; dry; very loose; (10YR 7/6). | Backfilled with native material | |
| 7 | | | 0.0 | | | | |
| 8 | | | 0.0 | | | | |
| 9 | 1 | | 0.0 | | | | |
| 10 | | | 0.0 | | | | |
| 11 | 1 | | 0.0 | | (10.0-13.0') SANDY SILT (0,40,60), coarse sand; moist; medium dense; (10YR 4/3). | | |
| 12 | | | 0.0 | | | | |
| 13 | 1 | | 0.0 | | (13.0-15.0') SAND increases (0,45,55); wet. | | |
| 14 | | | 0.0 | | | | |
| 15 | | | 0.0 | | | | |
| 16 | | | | | End of boring at 15.0 ft bgs. | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Direct Push
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Direct Push
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SB-4

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-12-2021 Logger: Radley Alvarez
Date Completed: 04-12-2021 Editor: NA
Weather Conditions: Sunny H:66°F L: 48°F

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1 | Hand Auger | | 0.0 | | (0.0-5.0') SANDY SILT (20,30,50); with gravels; medium sand to large pebbles; poorly sorted; dry; very loose; (10YR 5/3). | 4" hole diameter | |
| 2 | | | 0.0 | | | | |
| 3 | | | 0.0 | | | | |
| 4 | | | 0.0 | | | | |
| 5 | | | 0.0 | | | | |
| 6 | | | 0.0 | | (5.0-10.0') SAND (0,100,0), fine to medium; dry; very loose; (10YR 7/6). | Backfilled with native material | |
| 7 | | | 0.0 | | | | |
| 8 | | | 0.0 | | | | |
| 9 | 1 | | 0.0 | | | | |
| 10 | | | 0.0 | | | | |
| 11 | 1 | | 0.0 | | (10.0-13.0') SANDY SILT (0,40,60), coarse sand; moist; medium dense; (10YR 4/3). | | |
| 12 | | | 0.0 | | | | |
| 13 | | | 0.0 | | | | |
| 14 | 1 | | 0.0 | | (13.0-15.0') SAND increases (0,45,55); wet. | | |
| 15 | | | 0.0 | | | | |
| 16 | | | | | End of boring at 15.0 ft bgs. | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Direct Push
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Direct Push
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-1

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-15-2021 Logger: Radley Alvarez
Date Completed: 04-15-2021 Editor: NA
Weather Conditions: Sunny, Partially Overcast

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | Hand Auger | | 0.0 | | (0.0-4.0') SAND (0,90,10); with silt; well sorted; dry; very loose; well cementation; (10YR 3/4). | 4" hole diameter | |
| 1 | | | 0.0 | | | | |
| 2 | | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-10

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-14-2021 Logger: Radley Alvarez
Date Completed: 04-14-2021 Editor: NA
Weather Conditions: Sunny, Overcast in morning

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | | | 0.0 | | (0.0-4.0') SANDY SILT (20,30,50); with gravels; medium sand to large pebbles; poorly sorted; moist; very loose. | | |
| 1 | | | 0.0 | | | | |
| 2 | Hand Auger | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | | | | 4" hole diameter | |
| | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-11

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-14-2021 Logger: Radley Alvarez
Date Completed: 04-14-2021 Editor: NA
Weather Conditions: Sunny, Overcast in morning

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | | | | | (0.0-4.0') SANDY SILT (20,30,50); with gravels; medium sand to large pebbles; poorly sorted; moist; loose. | | |
| | | | 0.0 | | | 4" hole diameter | |
| 1 | | | | | | | |
| | | | 0.0 | | | | |
| 2 | Hand Auger | | | | | Backfilled with native material | |
| | | | 0.0 | | | | |
| 3 | | | | | | | |
| | | | 0.0 | | | | |
| 4 | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-12

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-13-2021 Logger: Radley Alvarez
Date Completed: 04-13-2021 Editor: NA
Weather Conditions: Partly Cloudy H:63°F L: 48°F

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1 | Hand Auger | | 0.0 | | (0.0-4.0') SAND (0,100,0); fine to medium grained; very loose; weak cementation; (10YR 3/3). | 4" hole diameter | |
| 2 | | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | 0.0 | | | | |
| 5 | | | | | End of boring at 4.0 ft bgs. | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-13

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-14-2021 Logger: Radley Alvarez
Date Completed: 04-14-2021 Editor: NA
Weather Conditions: Sunny, Overcast in morning

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | Hand Auger | | 0.0 | | (0.0-4.0') SAND (0,90,10), fine sand; with silt; well sorted; dry; very loose; (10YR 3/3). | 4" hole diameter | |
| 1 | | | 0.0 | | | | |
| 2 | | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-14

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-14-2021 Logger: Radley Alvarez
Date Completed: 04-14-2021 Editor: NA
Weather Conditions: Sunny, Overcast in morning

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | Hand Auger | | 0.0 | | (0.0-4.0') SAND (0,90,10), fine sand; with silt; well sorted; dry; very loose; (10YR 3/3). | 4" hole diameter | |
| 1 | | | 0.0 | | | | |
| 2 | | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-15

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-14-2021 Logger: Radley Alvarez
Date Completed: 04-14-2021 Editor: NA
Weather Conditions: Sunny, Overcast in morning

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | Hand Auger | | 0.0 | | (0.0-4.0') SAND (0,90,10), fine sand; with silt; well sorted; dry; very loose; (10YR 3/3). | 4" hole diameter | |
| 1 | | | 0.0 | | | | |
| 2 | | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-16

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-14-2021 Logger: Radley Alvarez
Date Completed: 04-14-2021 Editor: NA
Weather Conditions: Sunny, Overcast in morning

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | Hand Auger | | 0.0 | | (0.0-4.0') SAND (0,90,10), fine sand; with silt; well sorted; dry; very loose; (10YR 3/3). | 4" hole diameter | |
| 1 | | | 0.0 | | | | |
| 2 | | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-17

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-14-2021 Logger: Radley Alvarez
Date Completed: 04-14-2021 Editor: NA
Weather Conditions: Sunny, Overcast in morning

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | Hand Auger | | 0.0 | | (0.0-4.0') SAND (0,90,10), fine sand; with silt; well sorted; dry; very loose; (10YR 3/3). | 4" hole diameter | |
| 1 | | | 0.0 | | | | |
| 2 | | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-18

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-14-2021 Logger: Radley Alvarez
Date Completed: 04-14-2021 Editor: NA
Weather Conditions: Sunny, Overcast in morning

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1 | Hand Auger | | 0.0 | | (0.0-4.0') SAND (0,90,10), fine sand; with silt; well sorted; dry; very loose; (10YR 3/3). | 4" hole diameter | |
| 2 | | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | 0.0 | | | | |
| | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-19

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-14-2021 Logger: Radley Alvarez
Date Completed: 04-14-2021 Editor: NA
Weather Conditions: Sunny, Overcast in morning

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | Hand Auger | | 0.0 | | (0.0-4.0') SAND (0,90,10), fine sand; with silt; well sorted; dry; very loose; (10YR 3/3). | 4" hole diameter | |
| 1 | | | 0.0 | | | | |
| 2 | | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-2

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-15-2021 Logger: Radley Alvarez
Date Completed: 04-15-2021 Editor: NA
Weather Conditions: Sunny, Partially Overcast

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | | | 0.0 | | (0.0-4.0') SAND with silt (0,90,10); well sorted; dry; very loose; well cementation; (10YR 3/4). | 4" hole diameter | |
| 1 | | | 0.0 | | | | |
| 2 | Hand Auger | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-20

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-15-2021 Logger: Radley Alvarez
Date Completed: 04-15-2021 Editor: NA
Weather Conditions: Sunny, Partially Overcast

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | Hand Auger | | 0.0 | | (0.0-4.0') SAND (0,90,10), fine sand; with silt; well sorted; dry; very loose; (10YR 3/3). | 4" hole diameter | |
| 1 | | | 0.0 | | | | |
| 2 | | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-21

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-15-2021 Logger: Radley Alvarez
Date Completed: 04-15-2021 Editor: NA
Weather Conditions: Sunny, Partially Overcast

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | Hand Auger | | 0.0 | | (0.0-4.0') SAND (0,100,0), fine to medium sand; very loose; weak cementation (10YR 3/3). | 4" hole diameter | |
| 1 | | | 0.0 | | | | |
| 2 | | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-22

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-15-2021 Logger: Radley Alvarez
Date Completed: 04-15-2021 Editor: NA
Weather Conditions: Sunny, Partially Overcast

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | | | | | (0.0-4.0') SANDY SILT (20,30,50); with gravels; medium sand to large pebbles; poorly sorted; dry; very loose. | | |
| | | | 0.0 | | | 4" hole diameter | |
| 1 | | | | | | | |
| | | | 0.0 | | | | |
| 2 | Hand Auger | | | | | Backfilled with native material | |
| | | | 0.0 | | | | |
| 3 | | | | | | | |
| | | | 0.0 | | | | |
| 4 | | | | | | | |
| | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-23

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-15-2021 Logger: Radley Alvarez
Date Completed: 04-15-2021 Editor: NA
Weather Conditions: Sunny, Partially Overcast

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | | | 0.0 | | (0.0-4.0') SANDY SILT (20,30,50); with gravels; medium sand to large pebbles; poorly sorted; dry; very loose. | 4" hole diameter | |
| 1 | | | 0.0 | | | | |
| 2 | Hand Auger | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-24

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-15-2021 Logger: Radley Alvarez
Date Completed: 04-15-2021 Editor: NA
Weather Conditions: Sunny, Partially Overcast

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | Hand Auger | | 0.0 | | (0.0-4.0') SAND with silt (0,90,10); well sorted; dry; very loose; well cementation; (10YR 3/4). | 4" hole diameter | |
| 1 | | | 0.0 | | | | |
| 2 | | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-25

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-15-2021 Logger: Radley Alvarez
Date Completed: 04-15-2021 Editor: NA
Weather Conditions: Sunny, Partially Overcast

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1 | Hand Auger | | 0.0 | | (0.0-4.0') SAND (0,100,0), fine to medium sand; very loose; weak cementation (10YR 3/3). | 4" hole diameter | |
| 2 | | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | 0.0 | | | | |
| 5 | | | | | End of boring at 4.0 ft bgs. | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-26

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-15-2021 Logger: Radley Alvarez
Date Completed: 04-15-2021 Editor: NA
Weather Conditions: Sunny, Partially Overcast

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1 | Hand Auger | | 0.0 | | (0.0-3.5') SAND; well sorted; dry; loose; weak cementation (10YR 3/4). | 4" hole diameter | |
| 2 | | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | | | End of boring at 3.5 ft bgs. | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-27

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-15-2021 Logger: Radley Alvarez
Date Completed: 04-15-2021 Editor: NA
Weather Conditions: Sunny, Partially Overcast

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | | | 0.0 | | (0.0-4.0') SANDY SILT (20,30,50); with gravels; medium sand to large pebbles; poorly sorted; dry; very loose. | 4" hole diameter | |
| 1 | | | 0.0 | | | | |
| 2 | Hand Auger | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-28

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-15-2021 Logger: Radley Alvarez
Date Completed: 04-15-2021 Editor: NA
Weather Conditions: Sunny, Partially Overcast

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | | | 0.0 | | (0.0-4.0') SANDY SILT (20,30,50); with gravels; medium sand to large pebbles; poorly sorted; dry; very loose. | 4" hole diameter | |
| 1 | | | 0.0 | | | | |
| 2 | Hand Auger | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-29

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-15-2021 Logger: Radley Alvarez
Date Completed: 04-15-2021 Editor: NA
Weather Conditions: Sunny, Partially Overcast

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1 | Hand Auger | | 0.0 | | (0.0-4.0') SAND with silt (0,90,10); well sorted; dry; very loose; well cementation; (10YR 3/4). | 4" hole diameter | |
| 2 | | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | 0.0 | | | | |
| 5 | | | | | End of boring at 4.0 ft bgs. | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-3

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-15-2021 Logger: Radley Alvarez
Date Completed: 04-15-2021 Editor: NA
Weather Conditions: Sunny, Partially Overcast

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1 | Hand Auger | | 0.0 | | (0.0-4.0') SAND (0,95,5) with trace fine; well sorted; dry; very loose; weak cementation; (10YR 3/4). | 4" hole diameter | |
| 2 | | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | 0.0 | | | | |
| 5 | | | | | End of boring at 4.0 ft bgs. | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-30

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-15-2021 Logger: Radley Alvarez
Date Completed: 04-15-2021 Editor: NA
Weather Conditions: Sunny, Partially Overcast

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | Hand Auger | | 0.0 | | (0.0-3.5') SAND (0,100,0); fine to medium grained; very loose; weak cementation; (10YR 5/3). | 4" hole diameter | |
| 1 | | | 0.0 | | | Backfilled with native material | |
| 2 | | | 0.0 | | | | |
| 3 | | | 0.0 | | | | |
| 3.5 | | | | | End of boring at 3.5 ft bgs. | | |
| 4 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-31

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-15-2021 Logger: Radley Alvarez
Date Completed: 04-15-2021 Editor: NA
Weather Conditions: Sunny, Partially Overcast

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | | | | | (0.0-4.0') SANDY SILT (20,30,50); with gravels; medium sand to large pebbles; poorly sorted; moist; very loose. | | |
| | | | 0.0 | | | 4" hole diameter | |
| 1 | | | | | | | |
| | | | 0.0 | | | | |
| 2 | Hand Auger | | | | | Backfilled with native material | |
| | | | 0.0 | | | | |
| 3 | | | | | | | |
| | | | 0.0 | | | | |
| 4 | | | | | | | |
| | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-4

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-15-2021 Logger: Radley Alvarez
Date Completed: 04-15-2021 Editor: NA
Weather Conditions: Sunny, Partially Overcast

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | | | 0.0 | | (0.0-4.0') SAND (0,95,5) with trace fine; well sorted; dry; very loose; weak cementation; (10YR 3/4). | 4" hole diameter | |
| 1 | | | 0.0 | | | | |
| 2 | Hand Auger | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-5

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-15-2021 Logger: Radley Alvarez
Date Completed: 04-15-2021 Editor: NA
Weather Conditions: Sunny, Partially Overcast

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1 | Hand Auger | | 0.0 | | (0.0-4.0') SAND (0,95,5) with trace fine; well sorted; dry; very loose; weak cementation; (10YR 3/4). | 4" hole diameter | |
| 2 | | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | 0.0 | | | | |
| 5 | | | | | End of boring at 4.0 ft bgs. | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-6

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-15-2021 Logger: Radley Alvarez
Date Completed: 04-15-2021 Editor: NA
Weather Conditions: Sunny, Partially Overcast

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1 | Hand Auger | | 0.0 | | (0.0-4.0') SAND (0,95,5) with trace fine; well sorted; dry; very loose; weak cementation; (10YR 3/4). | 4" hole diameter | |
| 2 | | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | 0.0 | | | | |
| 5 | | | | | End of boring at 4.0 ft bgs. | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-7

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-14-2021 Logger: Radley Alvarez
Date Completed: 04-14-2021 Editor: NA
Weather Conditions: Sunny, Overcast in morning

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | Hand Auger | | 0.0 | | (0.0-4.0') SANDY SILT (20,30,50); with gravels; medium sand to large pebbles; poorly sorted; dry; very loose. | 4" hole diameter | |
| 1 | | | 0.0 | | | | |
| 2 | | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-8

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-14-2021 Logger: Radley Alvarez
Date Completed: 04-14-2021 Editor: NA
Weather Conditions: Sunny, Overcast in morning

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | | | | | (0.0-4.0') SANDY SILT (20,30,50); with gravels; medium sand to large pebbles; poorly sorted; dry; very loose. | | |
| | | | 0.0 | | | 4" hole diameter | |
| 1 | | | | | | | |
| | | | 0.0 | | | | |
| 2 | Hand Auger | | | | | Backfilled with native material | |
| | | | 0.0 | | | | |
| 3 | | | | | | | |
| | | | 0.0 | | | | |
| 4 | | | | | End of boring at 4.0 ft bgs. | | |
| | | | | | | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SSD-9

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-14-2021 Logger: Radley Alvarez
Date Completed: 04-14-2021 Editor: NA
Weather Conditions: Sunny, Overcast in morning

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | Hand Auger | | 0.0 | | (0.0-4.0') SANDY SILT (20,30,50); with gravels; medium sand to large pebbles; poorly sorted; moist; very loose. | 4" hole diameter | |
| 1 | | | 0.0 | | | | |
| 2 | | | 0.0 | | | Backfilled with native material | |
| 3 | | | 0.0 | | | | |
| 4 | | | | | End of boring at 4.0 ft bgs. | | |
| 5 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SVP-1

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-14-2021 Logger: Radley Alvarez
Date Completed: 04-14-2021 Editor: NA
Weather Conditions: Sunny, Overcast in morning

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | Hand Auger | | 0.0 | | (0.0-6.5') SAND with silt (0,90,10); well sorted; dry; very loose; weak cementation; (10YR 3/4). | 3.25" drilled hole | |
| 1 | | | 0.0 | | | Concrete (0.5-1 ft) | |
| 2 | | | 0.0 | | | | |
| 3 | | | 0.0 | | | Slurry (1-4.5 ft); 1/4 inch diameter Teflon Tubing | |
| 4 | | | 0.0 | | | | |
| 5 | | | 0.0 | | | Hydrated Bentonite (4.5-5.5 ft) | |
| 6 | | SVP-1-6.5 | 0.0 | | | #3 Sand (5.5-6.5 ft); 6" diameter Stainless Steel Well Screen (6-6.5 ft) | |
| 7 | | | | | End of boring at 6.5 ft bgs. | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SVP-2

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-14-2021 Logger: Radley Alvarez
Date Completed: 04-14-2021 Editor: NA
Weather Conditions: Sunny, Overcast in morning

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | Hand Auger | | 0.0 | | (0.0-6.5') SAND with silt (0,90,10); well sorted; dry; very loose; weak cementation; (10YR 3/4). | 3.25" drilled hole; Concrete (0.5-1 ft); Slurry (1-4.5 ft); 1/4 inch diameter Teflon Tubing; Hydrated Bentonite (4.5-5.5 ft); #3 Sand (5.5-6.5 ft); 6" diameter Stainless Steel Well Screen (6-6.5 ft) | |
| 1 | | | 0.0 | | | | |
| 2 | | | 0.0 | | | | |
| 3 | | | 0.0 | | | | |
| 4 | | | 0.0 | | | | |
| 5 | | | 0.0 | | | | |
| 6 | | SVP-2-6.5 | 0.0 | | | | |
| 7 | | | | | End of boring at 6.5 ft bgs. | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SVP-3

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-13-2021 Logger: Radley Alvarez
Date Completed: 04-13-2021 Editor: NA
Weather Conditions: Partly Cloudy H:63°F L: 48°F

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details |
|---|---|---|---|---|---|---|
| 0 | | | | | (0.0-5.0') SANDY SILT (20,30,50); with gravels; medium sand to large pebbles; poorly sorted; dry; very loose. | 3.25" drilled hole |
| | | | 0.0 | | | Concrete (0.5-1 ft) |
| 1 | | | | | | |
| | | | 0.0 | | | |
| 2 | | | | | | |
| | | | 0.0 | | | Slurry (1-4.5 ft) |
| 3 | | | | | | 1/4 inch diameter Teflon Tubing |
| | Hand Auger | | 0.0 | | | |
| 4 | | | | | | |
| | | | 0.0 | | | |
| 5 | | | | | (5.0-6.5') SAND (0,100,0), fine to medium; dry; very loose; (10YR 7/6). | Hydrated Bentonite (4.5-5.5 ft) |
| | | | 0.0 | | | #3 Sand (5.5-6.5 ft) |
| 6 | | | | | | 6" diameter Stainless Steel Well Screen (6-6.5 ft) |
| | | SVP-3-6.5 | 0.0 | | | |
| 7 | | | | | End of boring at 6.5 ft bgs. | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SVP-4

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-14-2021 Logger: Radley Alvarez
Date Completed: 04-14-2021 Editor: NA
Weather Conditions: Sunny, Overcast in morning

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 0 | Hand Auger | | 0.0 | | (0.0-5.0') SANDY SILT (20,30,50); with gravels; medium sand to large pebbles; poorly sorted; dry; very loose. | 3.25" drilled hole; Concrete (0.5-1 ft); Slurry (1-4.5 ft); 1/4 inch diameter Teflon Tubing | |
| 1 | | | 0.0 | | | | |
| 2 | | | 0.0 | | | | |
| 3 | | | 0.0 | | | | |
| 4 | | | 0.0 | | | | |
| 5 | | | 0.0 | | (5.0-6.5') SAND (0,100,0), fine to medium; dry; very loose; (10YR 7/6). | Hydrated Bentonite (4.5-5.5 ft); #3 Sand (5.5-6.5 ft); 6" diameter Stainless Steel Well Screen (6-6.5 ft) | |
| 6 | | SVP-4-6.5 | 0.0 | | End of boring at 6.5 ft bgs. | | |
| 7 | | | | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hand Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hand Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SW-2-C

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-13-2021 Logger: Radley Alvarez
Date Completed: 04-13-2021 Editor: NA
Weather Conditions: Partly Cloudy H:63°F L: 48°F

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1 | Hand Auger | | 0.0 | | (0.0-2.0') SANDY GRAVEL (60,40,0) (FILL), subangular to subrounded; dry; loose; (10YR 6/3). | | |
| 2 | | | 0.0 | | | | |
| 3 | | | 0.0 | | (2.0-15.0') SAND' poorly graded; moist; loose; (7.5YR 4/3). | | |
| 4 | | | 0.1 | | | 4" hole diameter | |
| 5 | | | 0.6 | | | | |
| 6 | | | 1.7 | | | | |
| 7 | | | 1,685 | | | | |
| 8 | | | 3,001 | | | Backfilled with native material | |
| 9 | 1 | | 1,502 | | | | |
| 10 | | SW-2-C-10 @ 1245 | 1,427 | | At 10.0 ft bgs, wet, color change to (10YR 4/4). | | |
| 11 | 1 | | 899.4 | | | | |
| 12 | | | 528.9 | | | | |
| 13 | 1 | | 65.9 | | | | |
| 14 | | | 19.5 | | | | |
| 15 | | SW-2-C-15 @ 1250 | 14.8 | | | | |
| 16 | | | | | End of boring at 15.0 ft bgs. | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Direct Push
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Direct Push
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SW-3-C

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-13-2021 Logger: Radley Alvarez
Date Completed: 04-13-2021 Editor: NA
Weather Conditions: Partly Cloudy H:63°F L: 48°F

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1 | Hand Auger | | 0.0 | | (0.0-2.0') SANDY GRAVEL (60,40,0) (FILL), subangular to subrounded; dry; loose; (10YR 6/3). | | |
| 2 | | | 0.0 | | | | |
| 3 | | | 0.0 | | (2.0-15.0') SAND' poorly graded; moist; loose; (7.5YR 4/3). | | |
| 4 | | | 0.0 | | | 4" hole diameter | |
| 5 | | | 0.0 | | | | |
| 6 | | | 0.1 | | | | |
| 7 | | | 680.4 | | | | |
| 8 | | | 1,585 | | | Backfilled with native material | |
| 9 | 1 | | 1,212 | | | | |
| 10 | | | 2,805 | | At 10.0 ft bgs, wet, color change to (10YR 4/4). | | |
| 11 | 1 | | 1,414 | | | | |
| 12 | | | 2,111 | | | | |
| 13 | 1 | | 743 | | | | |
| 14 | | | 600.6 | | | | |
| 15 | | | 1,474 | | | | |
| 16 | | | | | End of boring at 15.0 ft bgs. | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Direct Push
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Direct Push
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: SW-4/MW-14-C

Sheet: 1 of 1

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-13-2021 Logger: Radley Alvarez
Date Completed: 04-13-2021 Editor: NA
Weather Conditions: Partly Cloudy H:63°F L: 48°F

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1 | Hand Auger | | 0.0 | | (0.0-2.0') SANDY GRAVEL (60,40,0) (FILL), subangular to subrounded; dry; loose; (10YR 6/3). | | |
| 2 | | | 0.0 | | | | |
| 3 | | | 0.0 | | (2.0-15.0') SAND' poorly graded; moist; loose; (7.5YR 4/3). | | |
| 4 | | | 0.0 | | | 4" hole diameter | |
| 5 | | | 0.0 | | | | |
| 6 | | | 736.6 | | | | |
| 7 | | | 516.7 | | | | |
| 8 | | | 1,063 | | | Backfilled with native material | |
| 9 | 1 | | 1,778 | | | | |
| 10 | | | 2,287 | | At 10.0 ft bgs, wet, color change to (10YR 4/4). | | |
| 11 | 1 | | 1,894 | | | | |
| 12 | | | 4,229 | | | | |
| 13 | 1 | | 50.7 | | | | |
| 14 | | | 12.0 | | | | |
| 15 | | | 7.8 | | | | |
| 16 | | | | | End of boring at 15.0 ft bgs. | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Direct Push
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Direct Push
Sampling Interval: Continuous
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: TW-1

Sheet: 1 of 2

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-12-2021 Logger: Radley Alvarez
Date Completed: 04-12-2021 Editor: NA
Weather Conditions: Sunny H:66°F L: 48°F

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1–4 | Hand Auger | | 0.0 | | (0.0-16.0') SAND (0,90,10); with silt; well sorted; dry; very loose; weak cementation; (10YR 3/4). | 10" hole diameter | |
| 5–6 | | | 0.0 | | at 5.0 ft bgs, moist, color change to (10YR 4/4). | | |
| 7–8 | | | 0.0 | | | | |
| 9–10 | 2/2 | | 0.0 | | | 8" casing diameter | |
| 11–12 | 2.5/2.5 | | 0.0 | | | | |
| 13–14 | 1 | | 0.0 | | At 13.0 ft bgs, wet. | | |
| 15–16 | 1 | | 0.0 | | | Backfilled with native material | |
| 17 | | | 0.0 | | (16.0-28.0') SANDY SILT (0,35,65); fine to very fine sand; moist; (7.5YR 4/1). | | |
| 18–19 | 1 | | 0.0 | | | | |
| 20–21 | 1 | | 0.0 | | | | |
| 22–23 | 1 | | 0.0 | | | | |
| 24–25 | | | 0.0 | | | | |
| 26–27 | 1 | | 0.0 | | | | |
| 28–29 | 1 | | 0.0 | | (28.0-60.0') SAND (0,100,0), medium; wet; loose; (10YR 3/3). | | |
| 30 | | | 0.0 | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hollow Stem Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hollow Stem Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): 28.0
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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# Soil Boring Log

Boring No.: TW-1

Sheet: 2 of 2

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-12-2021 Logger: Radley Alvarez
Date Completed: 04-12-2021 Editor: NA
Weather Conditions: Sunny H:66°F L: 48°F

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 31 | 1 | | 0.0 | | (28.0-60.0') SAND (0,100,0), medium; wet; loose; (10YR 3/3). | | |
| 32 | | | 0.0 | | | | |
| 33 | 1 | | 0.0 | | | | |
| 34 | | | 0.0 | | | | |
| 35 | | | 0.0 | | | | |
| 36 | 1 | | 0.0 | | | | |
| 37 | | | 0.0 | | | | |
| 38 | 1 | | 0.0 | | | | |
| 39 | | | 0.0 | | | | |
| 40 | | | 0.0 | | | | |
| 41 | 1 | | 0.0 | | | | |
| 42 | | | 0.0 | | | | |
| 43 | 1 | | 0.0 | | | | |
| 44 | | | 0.0 | | | | |
| 45 | | | 0.0 | | | Backfilled with native material | |
| 46 | 1 | | 0.0 | | | | |
| 47 | | | 0.0 | | | | |
| 48 | 1 | | 0.0 | | | | |
| 49 | | | 0.0 | | | | |
| 50 | | | 0.0 | | | | |
| 51 | 1 | | 0.0 | | | | |
| 52 | | | 0.0 | | | | |
| 53 | 1 | | 0.0 | | | | |
| 54 | | | 0.0 | | | | |
| 55 | | | 0.0 | | | | |
| 56 | 1 | | 0.0 | | | | |
| 57 | | | 0.0 | | | | |
| 58 | 1 | | 0.0 | | | | |
| 59 | | | 0.0 | | | | |
| 60 | | | 0.0 | | | | |
| 61 | | | | | End of boring at 60.0 ft bgs. | | |
| 62 | | | | | | | |

Remarks:

CHEVRON-206145 D:\A-PROJECT FILES\BORELOGS\CHEVRON-206145 FORMER SIGNAL OIL\GEC BANGALORE\TEMPLATE\CHEVRON-206145 FORMER SIGNAL OIL-PROJECT FILE.GPJ 351645.GDT 5/13/21

ARCADIS Design & Consultancy for natural and built assets

# Soil Boring Log

Boring No.: TW-2

Sheet: 1 of 2

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-12-2021 Logger: Radley Alvarez
Date Completed: 04-12-2021 Editor: NA
Weather Conditions: Sunny H:66°F L: 48°F

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1 | Hand Auger | | 0.0 | | (0.0-60.0') SAND (0,95,5) with trace fines; well sorted; dry; very loose; weak cementation; (10YR 3/4). | | |
| 2 | | | 0.0 | | | | |
| 3 | | | 0.0 | | | | |
| 4 | | | 0.0 | | | 10" hole diameter | |
| 5 | | | 0.0 | | | | |
| 6 | | | 0.0 | | | | |
| 7 | | | 0.0 | | | | |
| 8 | | | 0.0 | | At 7.0 ft bgs, moist. | | |
| 9 | | | 0.0 | | At 8.5 ft bgs, color change to (10YR 5/4). | | |
| 10 | | | 0.0 | | | 8" casing diameter | |
| 11 | | | 0.0 | | | | |
| 12 | | | 0.0 | | At 11.0 ft bgs, wet. | | |
| 13 | | | 0.0 | | | | |
| 14 | | | 0.0 | | | | |
| 15 | | | 0.0 | | | Backfilled with native material | |
| 16 | | | 0.0 | | | | |
| 17 | | | 0.0 | | | | |
| 18 | | | 0.0 | | | | |
| 19 | | | 0.0 | | At 18.0 ft bgs, color change to (7.5YR 4/1). | | |
| 20 | | | 0.0 | | | | |
| 21 | | | 0.0 | | | | |
| 22 | | | 0.0 | | | | |
| 23 | | | 0.0 | | | | |
| 24 | | | 0.0 | | | | |
| 25 | | | 0.0 | | | | |
| 26 | | | 0.0 | | | | |
| 27 | | | 0.0 | | | | |
| 28 | | | 0.0 | | At 27.5 ft bgs, wet. | | |
| 29 | | | 0.0 | | | | |
| 30 | | | 0.0 | | | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Hollow Stem Auger
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Hollow Stem Auger
Sampling Interval: Continuous
Water Level Start (ft. bgs.): 27.5
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

CHEVRON-206145 D:\A-PROJECT FILES\BORELOGS\CHEVRON-206145 FORMER SIGNAL OIL\GEC BANGALORE\TEMPLATE\CHEVRON-206145 FORMER SIGNAL OIL-PROJECT FILE.GPJ 351645.GDT 5/13/21

ARCADIS Design & Consultancy for natural and built assets

# Soil Boring Log

Boring No.: TW-2

Sheet: 2 of 2

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-12-2021
Date Completed: 04-12-2021
Weather Conditions: Sunny H:66°F L: 48°F

Logger: Radley Alvarez
Editor: NA

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 31 | | | 0.0 | | (0.0-60.0') SAND (0,95,5) with trace fines; well sorted; dry; very loose; weak cementation; (10YR 3/4). | | |
| 32 | | | 0.0 | | | | |
| 33 | | | 0.0 | | | | |
| 34 | | | 0.0 | | | | |
| 35 | | | 0.0 | | | | |
| 36 | | | 0.0 | | | | |
| 37 | | | 0.0 | | | | |
| 38 | | | 0.0 | | | | |
| 39 | | | 0.0 | | | | |
| 40 | | | 0.0 | | | | |
| 41 | | | 0.0 | | | | |
| 42 | | | 0.0 | | | | |
| 43 | | | 0.0 | | | | |
| 44 | | | 0.0 | | | | |
| 45 | | | 0.0 | | | Backfilled with native material | |
| 46 | | | 0.0 | | | | |
| 47 | | | 0.0 | | | | |
| 48 | | | 0.0 | | | | |
| 49 | | | 0.0 | | | | |
| 50 | | | 0.0 | | | | |
| 51 | | | 0.0 | | | | |
| 52 | | | 0.0 | | | | |
| 53 | | | 0.0 | | | | |
| 54 | | | 0.0 | | | | |
| 55 | | | 0.0 | | | | |
| 56 | | | 0.0 | | | | |
| 57 | | | 0.0 | | | | |
| 58 | | | 0.0 | | | | |
| 59 | | | 0.0 | | | | |
| 60 | | | 0.0 | | | | |
| 61 | | | | | End of boring at 60.0 ft bgs. | | |
| 62 | | | | | | | |

Remarks:

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ARCADIS Design & Consultancy for natural and built assets

# Soil Boring Log

Boring No.: TW-3

Sheet: 1 of 2

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-12-2021 Logger: Radley Alvarez
Date Completed: 04-12-2021 Editor: NA
Weather Conditions: Sunny H:66°F L: 48°F

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 1–30 | Hand Auger | | 0.0 | | (0.0-5.0') SANDY SILT (20,30,50); with gravels; medium sand to large pebbles; poorly sorted; dry; very loose; (10YR 5/3). | 10" hole diameter | |
| 5–10 | | | 0.0 | | (5.0-10.0') SAND (0,100,0), fine to medium; dry; very loose. | | |
| 10–16 | | | 0.0 | | (10.0-16.0') SANDY SILT (0,40,60); coarse sand; moist; medium dense; (10YR 4/3). | 8" casing diameter | |
| 13 | | | 0.0 | | At 13.0 ft bgs, wet, sand increases (0,45,55). | Backfilled with native material | |
| 16–27 | | | 0.0 | | (16.0-27.0') SAND (0,100,0), fine to medium; wet; very loose. | | |
| 21 | | | 0.0 | | At 21.0 ft bgs, silt increases (0,80,20). | | |
| 27–35 | | | 0.0 | | (27.0-35.0') SAND (0,100,0); medium sand; wet; loose; (10YR 3/3). | | |

Drilling Co.: PeneCore Drilling
Driller: NA
Drilling Method: Direct Push
Drill Rig: NA
Remarks: bgs = below ground surface; ft / ' = feet; in = inch; NA = not applicable / available; ppm = parts per million; (% gravel, sand, silt, clay).

Sampling Method: Direct Push
Sampling Interval: Continuous
Water Level Start (ft. bgs.): 27.5
Water Level Finish (ft. btoc.): NA
Converted to Well: ☐ Yes ☒ No
Surface Elev.: NA
North Coor: NA
East Coor: NA

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ARCADIS Design & Consultancy for natural and built assets

# Soil Boring Log

Boring No.: TW-3

Sheet: 2 of 2

Project Name: Chevron 206145 Oakland
Project Number: 30045659
Project Location: 800 Center St Oakland CA

Date Started: 04-12-2021
Date Completed: 04-12-2021
Logger: Radley Alvarez
Editor: NA
Weather Conditions: Sunny H:66°F L: 48°F

| Depth (feet) | Recovery (ft) | Sample ID | PID (ppm) | USCS Class | Description | Construction Details | Well |
|---|---|---|---|---|---|---|---|
| 31 | | | 0.0 | | (27.0-35.0') SAND (0,100,0); medium sand; wet; loose; (10YR 3/3). | | |
| 32 | | | 0.1 | | | | |
| 33 | | | 0.0 | | | | |
| 34 | | | 0.0 | | | | |
| 35 | | | 0.0 | | | | |
| 36 | | | 0.0 | | (35.0-38.0') No Recovery. | | |
| 37 | | | 0.0 | | | | |
| 38 | | | 0.0 | | | | |
| 39 | | | 0.0 | | (38.0-60.0') SAND (0,100,0); medium sand; wet; loose; (10YR 3/3). | | |
| 40 | | | 0.0 | | | | |
| 41 | | | 0.0 | | | | |
| 42 | | | 0.0 | | | | |
| 43 | | | 0.0 | | | | |
| 44 | | | 0.0 | | | | |
| 45 | | | 0.0 | | | Backfilled with native material | |
| 46 | | | 0.0 | | | | |
| 47 | | | 0.0 | | | | |
| 48 | | | 0.0 | | | | |
| 49 | | | 0.0 | | | | |
| 50 | | | 0.0 | | | | |
| 51 | | | 0.0 | | | | |
| 52 | | | 0.0 | | | | |
| 53 | | | 0.0 | | | | |
| 54 | | | 0.0 | | | | |
| 55 | | | 0.0 | | | | |
| 56 | | | 0.0 | | | | |
| 57 | | | 0.0 | | | | |
| 58 | | | 0.0 | | | | |
| 59 | | | 0.0 | | | | |
| 60 | | | 0.0 | | | | |
| 61 | | | | | End of boring at 60.0 ft bgs. | | |
| 62 | | | | | | | |

Remarks:

CHEVRON-206145 D:\A-PROJECT FILES\BORELOGS\CHEVRON-206145 FORMER SIGNAL OIL\GEC BANGALORE\TEMPLATE\CHEVRON-206145 FORMER SIGNAL OIL-PROJECT FILE.GPJ 351645.GDT 5/13/21

# Appendix E

## Temporary Erosion and Sediment Control Plan

# Appendix E
# Corrective Action Implementation Plan

**SUBJECT**
Temporary Erosion and Sediment Control Program
Former Signal Oil Station
No. 206145 and Adjacent Parcels
800 Center Street
Oakland, California
ACDEH Case Nos. RO0000454 & RO0003272

**DATE**
August 31, 2021

**OUR REF**
30045659

The Contractor will prepare and implement Temporary Erosion and Sediment Control measures and best management practices (BMPs) according to industry sediment control standards.

The subject referenced Site currently supports small, scattered patches of non-native annual grasses such as wall barley (Hordeum murinum) and ripgut brome (Bromus diandrus), as well as non-native forbs such as summer mustard (Hirschfeldia incana). A large, planted blackwood acacia (Acacia melanoxylon) is present in the planting strip between the parcel boundary and the sidewalk, at the corner of 8th Street and Center Street, and several other trees are planted in the median between 8th Street and the sidewalk, including strawberry madrone (Arbutus unedo) and Lombardy poplar (Populus nigra). Purple morning glory (Ipomoea purpurea) is climbing on the ground portions of the chain link fence surrounding the Site. The trees and morning glory are perennial plants that assist with soil stabilization due to their spreading roots.

The goal of the Temporary Erosion and Sediment Control program is to maintain existing rooted vegetation on Site to enhance soil stabilization and reduce potential migration of dust or sediment-laden runoff and to seed bare areas to obtain uniform plant cover that supports a matrix of below-ground soil-stabilizing roots.

The most effective erosion control BMP is to establish uniform rooted vegetation cover to stabilize soils. The entire Site will receive hydroseed application of an erosion control mix coupled with a tackifier, which will be applied in fall, if feasible, to allow adequate time for the seed mix to germinate and become established before the summer-dry period between April/May and October/November. The hydroseed mix will include a mix of 2,000 pounds of virgin wood fiber per acre (such as Profile's Ecosolutions – Ecofibre) and 200 pounds per acre of tackifier (such as Ecology Controls M-Binder). The seed mix includes fast-growing annual grass species and a nitrogen-fixing forb (such as Blando brome, Zorro annual fescue, and Hykon rose clover, see http://www.ssseeds.com/product/Basic-Erosion-Control-Mix.aspx).

Throughout the Temporary Erosion and Sediment Control program, a locked chain-link fence will remain surrounding the Site to prevent unauthorized access by vehicles and the public. Access will be limited to Arcadis employees and any subcontractors. The property will be maintained with scheduled site maintenance visits occurring every other month. Maintenance activities include mowing, weed abatement, and trash removal, along with any repairs to the site fencing or additional issues that may be encountered while the maintenance crew is onsite. The excavation and subsequent backfill and compaction is expected to be completed in October, when the rainy season begins. Therefore, initial watering of the planted grasses will most likely not be necessary. If rain does not occur at the Site after planting, or vegetation does not become established at the Site, necessary maintenance will occur, such as scheduled watering and/or additional seed application to portions of the Site.

# Appendix F

## Excavation Design Plan

C:\Users\jlharris\ACCDocs\Arcadis\AUS-CHEVRON-206145-OAKLAND California\Project Files\2021101-In Progress\01-DWG\COVER.dwg LAYOUT: COVER SAVED: 6/17/2021 9:30 AM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ACAD.CTB PLOTTED: 8/31/2021 11:44 AM BY: HARRIS, JESS
XREFS: IMAGES: PROJECTNAME: ----
Arcadis Logo BW_2021.PNG
Area Map.jpg

## CONTRACT DRAWINGS

# FORMER SIGNAL OIL SERVICE STATION

## LEAD ABATEMENT AND
## LEAD AND TPH EXCAVATION

REFERENCE: GOOGLE EARTH

**LOCATION MAP**

## 800 CENTER ST.
## OAKLAND, CA 94607

**KEY CONTACTS:**

**ENGINEER:**
ARCADIS
575 DOUBLE EAGLE CT
STE 200
RENO, NV 89521
TELEPHONE: 775.229.8864
CONTACT: DANIEL BONNER

**DATE ISSUED**
## AUGUST 2021

## CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
## OAKLAND, CALIFORNIA

ARCADIS

ARCADIS U.S., INC.

**INDEX TO DRAWINGS**

| | |
|---|---|
| | **GENERAL** |
| G-1 | GENERAL NOTES |
| G-2 | EXISTING SITE PLAN |
| G-3 | TPH EXCAVATION PLAN |
| G-4 | LEAD, OCP, AND PCB EXCAVATION PLAN |
| G-5 | SWPP PLAN |
| G-6 | SWPP DETAILS |

C:\Users\jharris\ACCDocs\Arcadis\AUS-CHEVRON-206145-OAKLAND California\Project Files\202101-In Progress\01-DWG\SHEETS.dwg LAYOUT: G-1 SAVED: 8/31/2021 11:48 AM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 8/31/2021 12:49 PM BY: HARRIS, JESS

GENERAL NOTES:

1. ARCADIS IS REFERRED AS “ENGINEER” AND "CONTRACTOR". CHEVRON EMC IS REFERRED TO AS “OWNER”.
2. ALL WORK SHALL BE IN CONFORMANCE WITH THE STANDARDS, SPECIFICATIONS, AND ORDINANCES OF OWNER AND LOCAL GOVERNING AGENCIES.
3. THE CONTRACTOR SHALL CONTACT THE ENGINEER AS NECESSARY TO CLARIFY THE INFORMATION ON THESE DRAWINGS. IF DISCREPANCIES BETWEEN THE DRAWINGS, THESE NOTES, OR FIELD CONDITIONS OCCUR, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH WORK. CHANGES MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND ENGINEER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SPECIFIED DIMENSIONS AND CONTROL POINTS SHOWN ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
4. THE CONTRACTOR SHALL MAINTAIN AN ACCURATE SET OF AS-BUILT DRAWINGS DURING CONSTRUCTION AND SHALL PROVIDE A SET OF REPRODUCIBLE DRAWINGS TO THE ENGINEER AND THE OWNER AFTER COMPLETION OF THE WORK.
5. ALL QUALITY CONTROL TESTING REQUIRED FOR THE PROJECT SHALL BE ARRANGED FOR AND PAID FOR BY THE CONTRACTOR. ALL QUALITY ASSURANCE TESTING AND AIR MONITORING SHALL BE ARRANGED AND PAID FOR BY THE ENGINEER.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS REQUIRED TO COMPLETE THE WORK. PERMIT REQUIRED IS THE CITY OF OAKLAND GRADING PERMIT. AN ALTERNATE MATERIALS METHODS REQUEST (AMMR) IS REQUIRED IF GRADING WILL BE COMPLETED DURING THE WET SEASON BETWEEN OCTOBER 15TH AND APRIL 15TH.
7. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER, ITS AUTHORIZED REPRESENTATIVES, AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
8. THE CONTRACTOR SHALL PROTECT EXISTING ADJACENT STRUCTURES, ROADS, AND UTILITIES FROM DAMAGE. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
9. CONTRACTOR IS RESPONSIBLE FOR PRESERVATION AND/OR PERPETUATION OF ALL EXISTING MONUMENTS WHICH CONTROL SUBDIVISIONS, TRACT, BOUNDARIES, STREETS, HIGHWAYS, OR OTHER RIGHT-OF-WAY, EASEMENTS, OR SURVEY CONTROLS WHICH WILL BE DISTURBED OR REMOVED DUE TO CONTRACTOR'S WORK.

EROSION AND SEDIMENT CONTROL NOTES:

1. INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF SIGNIFICANT EROSION AND SILTATION ENTERING STORM DRAIN SYSTEMS, NATURAL DRAINAGE COURSES AND/OR INTRUDING UPON ADJACENT ROADWAYS AND PROPERTIES.
2. CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL BEST MANAGEMENT PRACTICES (BMPS) UNTIL PROJECT IS COMPLETED.
3. WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES PAVED AREAS OR ACCESS ROADS, STABILIZED CONSTRUCTION ACCESS SHALL BE CONSTRUCTED AND MAINTAINED UNTIL THE COMPLETION OF CONSTRUCTION. IF STABILIZED CONSTRUCTION ENTRANCES ARE NOT DEEMED EFFECTIVE BY THE ENGINEER, OWNER, OR REGULATORY AGENCY IN PREVENTING THE OFFSITE MIGRATION OF SOILS, THE CONTRACTOR SHALL UTILIZE A WHEEL CLEANING SYSTEM ON EVERY VEHICLE EXITING THE SITE. ALL EQUIPMENT AND VEHICLES SHALL BE CLEANED PRIOR TO LEAVING THE SITE IN ORDER TO PREVENT THE MIGRATION OF CONTAMINATED SOILS ONTO PUBLIC STREETS.
4. ALL AREAS DISTURBED DURING CONSTRUCTION, BY GRADING, TRENCHING, OR OTHER ACTIVITIES, SHALL BE RE SEEDED.
5. DUST SHALL BE CONTROLLED AT THE SITE THROUGH THE USE OF WATER AND CONTROLLING TRAFFIC SPEED. ALL COSTS ASSOCIATED WITH THE DUST CONTROL SHALL BE BORNE BY THE CONTRACTOR INCLUDING THE WATER SUPPLY AND HOOKUP FEES. THE STANDARD FOR DUST SUPPRESSION SHALL BE NO VISIBLE DUST LEAVING THE PROJECT BOUNDARY. THIS JUDGEMENT WILL SOLELY BE THE ENGINEER'S WHO WILL HAVE THE ABILITY TO STOP WORK AT NO COST TO THE OWNER IF IN HIS/HER OPINION DUST SUPPRESSION IS NOT ADEQUATE. ALL OFF SITE DAMAGES CAUSED BY OFFSITE MIGRATION OF DUST SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. STREET SWEEPING SHALL BE CONDUCTED TO CONTROL DUST AND DIRT TRACKED FROM THE PROJECT SITE.

UTILITY NOTES:

1. CONTRACTOR MUST NOTIFY THE 811 - “CALL BEFORE YOU DIG” AGENCY A MINIMUM OF 48 HOURS PRIOR TO COMMENCING EARTHWORK. THE CONTRACTOR SHALL ALSO OBTAIN A THIRD PARTY UTILITY CLEARANCE PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL BE AWARE OF ALL KNOWN EXISTING UTILITIES SHOWN IN THESE DRAWINGS.
3. THE CONTRACTOR SHALL BE HELD LIABLE IN THE EVENT OF ANY DAMAGE AND HELD RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES SHOWN ON THE DRAWINGS AND THOSE NOT SHOWN ON THE DRAWING.
4. DAMAGE TO UTILITIES OR STRUCTURES SHALL BE REPORTED TO THE ENGINEER AS SOON AS POSSIBLE. REPAIRS SHALL BE COMPLETED IN A TIMELY MANNER BY THE CONTRACTOR AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE AFFECTED UTILITY AGENCY OR AS OTHERWISE DIRECTED BY THE OWNER OR ENGINEER.
5. UNKNOWN SUBSURFACE STRUCTURES AND UTILITIES ENCOUNTERED DURING THE WORK SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY AND WORK SHALL NOT PROCEED IN THESE AREAS WITHOUT THE ENGINEER'S APPROVAL.

EARTHWORK NOTES:

1. SOILS EXCAVATED FROM THE DESIGNATED REMOVAL AREAS SHALL EITHER BE DIRECT LOCATED INTO HAUL TRUCKS OR MAYBE TEMPORARILY STOCKPILED ON SITE IF UNDERLAIN BY PLASTIC LINER.
2. THERE SHALL BE NO SOIL IMPORT OR EXPORT UNLESS APPROVED BY THE ENGINEER OR OWNER.
3. ALL EXCAVATIONS SHALL BE PERFORMED IN COMPLIANCE WITH OSHA EXCAVATION SAFETY REQUIREMENTS.
4. AFTER EXCAVATION AND BEFORE BACKFILL PLACEMENT, ORANGE POLYPROPYLENE NON-WOVEN GEOFABRIC SHALL BE PLACED FOR DELINEATION PURPOSES AT ALL LOCATIONS WHERE LEAD, OCP, AND PCB IMPACTED SOILS WERE NOT REMOVED DUE TO SITE RESTRAINTS. THIS INCLUDES THE NORTHERN PROPERTY BOUNDARY ADJACENT TO THE EXISTING STRUCTURES AT THE NEIGHBORING PROPERTY, AND THE SIDE SLOPES OF LEAD, OCP, AND PCB REMEDIAL EXCAVATIONS.
5. EXCAVATION BACKFILL
   a. BACKFILL MATERIAL SHALL MEET THE FOLLOWING REQUIREMENTS
   i. FILL SHALL CONSIST OF SOIL FREE OF LUMPS AND ROCKS LARGER THAN 3 INCH AND FREE OF LOAM ORGANIC MATTER, CLAYS, ROCK AND GRAVEL LARGER THAN THREE INCHES IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, ORGANIC MATERIAL, OTHER DELETERIOUS MATTER, AND FINE UNIFORM SANDS THAT MAY BE DIFFICULT TO COMPACT. SNOW, ICE, AND FROZEN SOIL WILL NOT BE PERMITTED.
   ii. FILL SHALL HAVE A LIQUID LIMIT NOT GREATER THAN 45, AND A PLASTICITY INDEX NOT GREATER THAN 25.
   iii. SHALL MEET THE REQUIREMENTS SET FORTH BY ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH (ACDEH) SOIL IMPORT CHARACTERISTICS. ACDEH REQUIRES A SUBMITTAL PER THEIR LOCAL OVERSIGHT PROGRAM - SOIL IMPORT/EXPORT CHARACTERIZATION REQUIREMENTS FOR EACH IMPORTED MATERIAL.
   iv. AT BOTTOM OF EXCAVATION WHERE GROUNDWATER IS ENCOUNTERED: A NON-WOVEN FABRIC WILL BE PLACED AT THE BOTTOM OF EXCAVATION. 3/8" OR OTHER APPROVED WELL GRADED ROCK WILL BE USED TO BACKFILL TO APPROXIMATELY 6" ABOVE GROUNDWATER AND COMPACTED WITH THE EXCAVATOR BUCKET OR ROLLER ATTACHMENT.
   b. CONTRACTOR SHALL SUBMIT SAMPLES OF THE PROPOSED BACKFILL MATERIAL TO AN ACCEPTED LABORATORY FOR PHYSICAL ANALYSIS OF THE CHARACTERISTICS DESCRIBED ABOVE. ONE REPRESENTATIVE SAMPLE WILL BE COLLECTED PER EACH 1,000 CY FOR EACH PROPOSED FILL MATERIAL, FROM EACH BORROW AREA OR QUARRY AND ANALYZED. ANY COSTS ASSOCIATED WITH TESTING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
   c. PLACEMENT
   i. BACKFILL MATERIAL SHALL BE PLACED IN 8 INCHES MAXIMUM LIFTS.
   ii. THE TOP 4 FEET OF FILL SHALL BE COMPACTED TO 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557. OTHER LIFTS SHALL BE PROOF-ROLLED TO THE SATISFACTION OF THE ENGINEER. COMPACTION OF EACH LIFT OF THE FINAL 4 FEET OF FILL SHALL BE FIELD VERIFIED USING A NUCLEAR COMPACTION TEST GAUGE AT A MINIMUM OF 3 LOCATIONS PER LIFT.
6. SEED ALL DISTURBED SOILS TO PROTECT FROM EROSION.
7. AS AREAS USING A ROCK BACKFILL BRIDGING LAYER ARE DETERMINED TO BE COMPLETE, 4 POUNDS OF GYPSUM (PULVERIZED GYPSUM CONTAINING 98% CALCIUM SULFATE DIHYDRATE) PER SQUARE FOOT WILL BE EVENLY APPLIED TO THE TOP OF ROCK, PRIOR TO PLACEMENT OF NON-WOVEN FABRIC.

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Professional Engineer's Name: **DANIEL BONNER**

Professional Engineer's No.: 59400

| State | Date Signed | Project Mgr. |
|---|---|---|
| CA | 6/17/2021 | DB |
| Designed by | Drawn by | Checked by |
| CAS | CAS | DB |

REGISTERED PROFESSIONAL ENGINEER DANIEL G. BONNER 59400 CIVIL STATE OF CALIFORNIA

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CONSTRUCTION DRAWINGS

# GENERAL NOTES

GENERAL

ARCADIS Project No. 30045659.4440

Date AUGUST 2021

ARCADIS
2300 CLAYTON RD.
STE 400
CONCORD, CA
TEL. 925.274.1100

**G-1**

## LEGEND

- PARCEL OWNED BY CHEVRON
- 4-67-16 ASSESSOR'S PARCEL NUMBER
- FENCE LINE (EXISTING)
- HISTORICAL FEATURE
- MW-3 SHALLOW MONITORING WELL
- MW-9 INTERMEDIATE MONITORING WELL
- MW-14 DEEP MONITORING WELL
- MW-1 DESTROYED WELL
- VP-3 VAPOR PROBE
- AS-1 AIR SPARGING WELL
- SS-1 SURFICIAL SOIL SAMPLE - CONESTOGA-ROVERS & ASSOCIATES, 2010
- CPT-1 CPT BORING
- C-1 SOIL BORING
- SW-7 SOIL SAMPLE - GETTLER-RYAN
- G-28 GEOPROBE BORING - GETTLER-RYAN
- B-1 SOIL BORING - SUBSURFACE CONSULTANTS, 1989
- SB-1 SOIL BORING - GROUNDWATER TECHNOLOGY, 1995
- SV-1 SOIL VAPOR PROBE - PACIFIC ENVIRONMENTAL GROUP, 1997
- P-1 GEOPROBE SOIL BORING - PACIFIC ENVIRONMENTAL GROUP, 1997
- CB-1 SOIL BORING - CRA, 2014
- CB-1A EXCAVATION CONFIRMATION SOIL BORING, 2019
- TW-1 TEMPORARY WELL, 2021
- SB-1 SOIL BORING, 2021
- SVP-1 SOIL VAPOR POINT, 2021
- G-15-C CONFIRMATION SAMPLE, 2021
- SSD-1 LEAD, PCB, AND OCP DELINEATION SAMPLE, 2021
- W WATER LINE = 4-6" Ø
- SAN SANITARY SEWER LINE = 10" Ø
- E ELECTRICAL LINE = 3-5" Ø, DEPTH 2'-4'
- G NATURAL GAS LINE = 8" Ø, DEPTH 2'-3'
- T COMMUNICATION LINE
- M.H. MANHOLE

NOTE:

1. ALL WELLS SHALL BE ABANDONED BY OTHERS PRIOR TO START OF REMEDIAL EXCAVATION.

0 10' 20'
GRAPHIC SCALE

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Professional Engineer's Name: DANIEL BONNER
Professional Engineer's No.: 59400
State: CA | Date Signed: 6/17/2021 | Project Mgr.: DB
Designed by: CAS | Drawn by: CAS | Checked by: DB

REGISTERED PROFESSIONAL ENGINEER DANIEL G. BONNER 59400 CIVIL STATE OF CALIFORNIA

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# EXISTING SITE PLAN

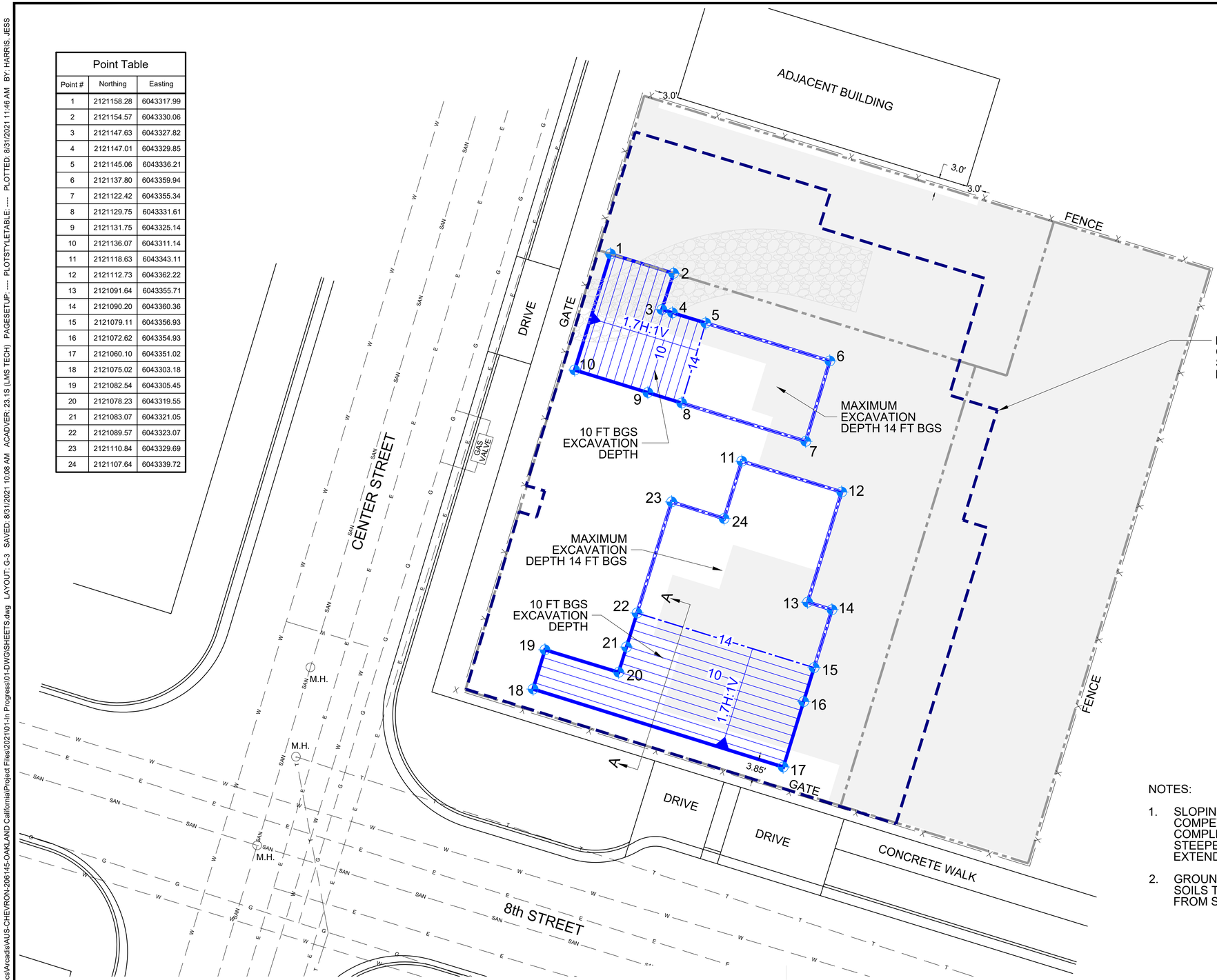
GENERAL

ARCADIS Project No. 30045659.4440
Date AUGUST 2021
ARCADIS
2300 CLAYTON RD.
STE 400
CONCORD, CA
TEL. 925.274.1100

G-2

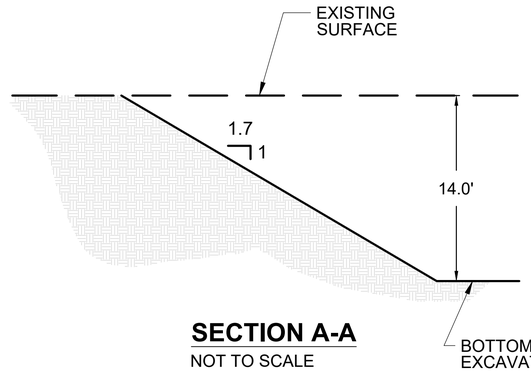
C:\Users\jlharris\ACCDocs\ArcadisAUS-CHEVRON-206145-OAKLAND California\Project Files\2021\01-In Progress\01-DWG\SHEETS.dwg LAYOUT: G-2 SAVED: 8/31/2021 10:08 AM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 8/31/2021 11:43 AM BY: HARRIS, JESS

| Point Table | | |
|---|---|---|
| Point # | Northing | Easting |
| 1 | 2121158.28 | 6043317.99 |
| 2 | 2121154.57 | 6043330.06 |
| 3 | 2121147.63 | 6043327.82 |
| 4 | 2121147.01 | 6043329.85 |
| 5 | 2121145.06 | 6043336.21 |
| 6 | 2121137.80 | 6043359.94 |
| 7 | 2121122.42 | 6043355.34 |
| 8 | 2121129.75 | 6043331.61 |
| 9 | 2121131.75 | 6043325.14 |
| 10 | 2121136.07 | 6043311.14 |
| 11 | 2121118.63 | 6043343.11 |
| 12 | 2121112.73 | 6043362.22 |
| 13 | 2121091.64 | 6043355.71 |
| 14 | 2121090.20 | 6043360.36 |
| 15 | 2121079.11 | 6043356.93 |
| 16 | 2121072.62 | 6043354.93 |
| 17 | 2121060.10 | 6043351.02 |
| 18 | 2121075.02 | 6043303.18 |
| 19 | 2121082.54 | 6043305.45 |
| 20 | 2121078.23 | 6043319.55 |
| 21 | 2121083.07 | 6043321.05 |
| 22 | 2121089.57 | 6043323.07 |
| 23 | 2121110.84 | 6043329.69 |
| 24 | 2121107.64 | 6043339.72 |




## LEGEND

- PARCEL OWNED BY CHEVRON
- PETROLEUM-IMPACTED SOIL FOOTPRINT
- MAXIMUM EXTENT OF 1.7H:1V LAYBACK. CONTRACTOR MAY EXCAVATE WITH STEEPER LAYBACKS OUTSIDE EXCAVATIONS AS CONDITIONS ALLOW.
- DESIGN AREA OF 14 FT EXCAVATION DEPTH
- —10— EXCAVATION CONTOUR (1 FOOT INTERVAL)
- LEAD, OCP, AND PCB EXCAVATION




**SECTION A-A**
NOT TO SCALE

NOTES:

1. SLOPING MAY BE REQUIRED AS DETERMINED AND DIRECTED BY OSHA EXCAVATION COMPETENT PERSON. EXCAVATION WITHIN IMPACTED SOIL FOOTPRINTS SHALL BE COMPLETED AS SHOWN. LAYBACK OUTSIDE OF IMPACTED SOIL FOOTPRINTS MAY BE STEEPER AS CONDITIONS ALLOW. MAXIMUM EXCAVATION LAYBACK SHALL NOT EXTEND BEYOND THE CHEVRON OWNED PARCEL LIMIT.
2. GROUNDWATER MAY BE ENCOUNTERED AT THE EXCAVATION AS HIGH AS 7 FT BGS. SOILS TO BE MANAGED INSIDE THE EXCAVATION FOOTPRINT TO ALLOW DRAINAGE FROM SOIL PRIOR TO LOADING AND/OR STOCKPILING.

0 10' 20'
GRAPHIC SCALE

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Professional Engineer's Name: DANIEL BONNER
Professional Engineer's No.: 59400

| State | Date Signed | Project Mgr. |
|---|---|---|
| CA | 6/17/2021 | DB |
| Designed by | Drawn by | Checked by |
| CAS | CAS | DB |

REGISTERED PROFESSIONAL ENGINEER DANIEL G. BONNER 59400 CIVIL STATE OF CALIFORNIA

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# TPH EXCAVATION PLAN

GENERAL

ARCADIS Project No. 30045659.4440
Date AUGUST 2021

ARCADIS
2300 CLAYTON RD.
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CONCORD, CA
TEL. 925.274.1100

**G-3**

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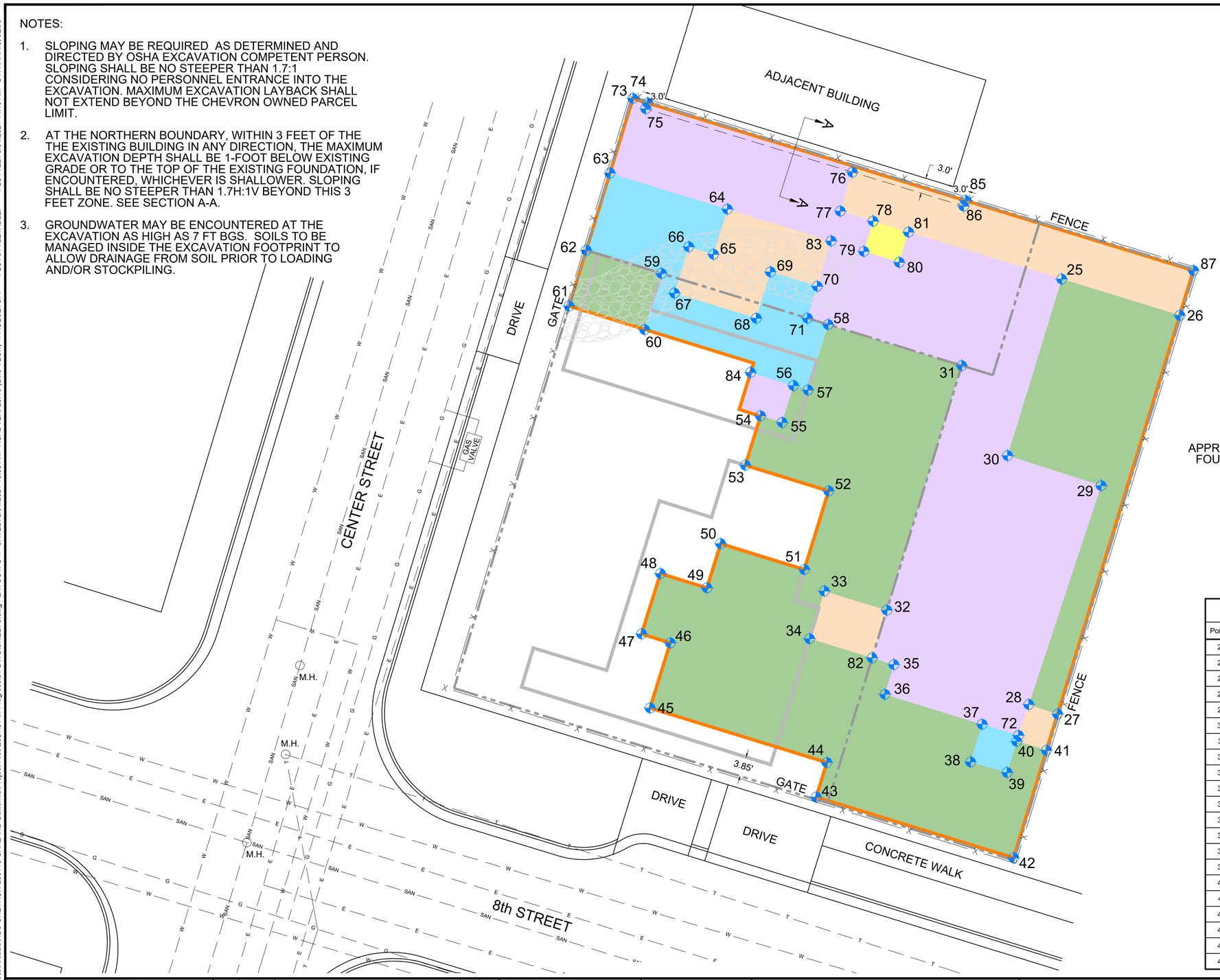
NOTES:

1. SLOPING MAY BE REQUIRED AS DETERMINED AND DIRECTED BY OSHA EXCAVATION COMPETENT PERSON. SLOPING SHALL BE NO STEEPER THAN 1.7:1 CONSIDERING NO PERSONNEL ENTRANCE INTO THE EXCAVATION. MAXIMUM EXCAVATION LAYBACK SHALL NOT EXTEND BEYOND THE CHEVRON OWNED PARCEL LIMIT.
2. AT THE NORTHERN BOUNDARY, WITHIN 3 FEET OF THE THE EXISTING BUILDING IN ANY DIRECTION, THE MAXIMUM EXCAVATION DEPTH SHALL BE 1-FOOT BELOW EXISTING GRADE OR TO THE TOP OF THE EXISTING FOUNDATION, IF ENCOUNTERED, WHICHEVER IS SHALLOWER. SLOPING SHALL BE NO STEEPER THAN 1.7H:1V BEYOND THIS 3 FEET ZONE. SEE SECTION A-A.
3. GROUNDWATER MAY BE ENCOUNTERED AT THE EXCAVATION AS HIGH AS 7 FT BGS. SOILS TO BE MANAGED INSIDE THE EXCAVATION FOOTPRINT TO ALLOW DRAINAGE FROM SOIL PRIOR TO LOADING AND/OR STOCKPILING.

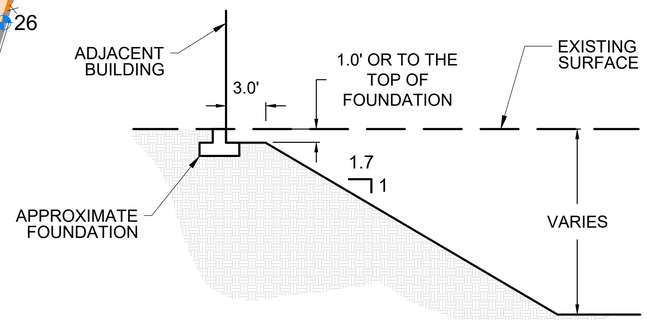



## LEGEND

- PARCEL OWNED BY CHEVRON
- PETROLEUM-IMPACTED SOIL FOOTPRINT
- LEAD, OCP, AND PCB-IMPACTED SOIL FOOTPRINT

LEAD, OCP, AND PCB EXCAVATION

- 2 FT EXCAVATION
- 3 FT EXCAVATION
- 4 FT EXCAVATION
- 5 FT EXCAVATION
- 6 FT EXCAVATION




## SECTION A-A

NOT TO SCALE

| Point Table | | |
|---|---|---|
| Point # | Northing | Easting |
| 25 | 2121153.46 | 6043407.02 |
| 26 | 2121146.49 | 6043429.73 |
| 27 | 2121069.83 | 6043406.24 |
| 28 | 2121071.67 | 6043400.70 |
| 29 | 2121113.75 | 6043414.60 |
| 30 | 2121119.53 | 6043396.60 |
| 31 | 2121136.84 | 6043387.80 |
| 32 | 2121089.80 | 6043373.39 |
| 33 | 2121093.49 | 6043361.37 |
| 34 | 2121084.31 | 6043358.54 |
| 35 | 2121079.34 | 6043374.75 |
| 36 | 2121073.63 | 6043373.03 |
| 37 | 2121067.86 | 6043391.72 |
| 38 | 2121060.62 | 6043389.49 |
| 39 | 2121058.57 | 6043396.53 |
| 40 | 2121064.59 | 6043398.38 |
| 41 | 2121062.84 | 6043404.10 |
| 42 | 2121042.18 | 6043397.77 |
| 43 | 2121053.86 | 6043359.83 |
| 44 | 2121060.50 | 6043361.88 |
| 45 | 2121071.00 | 6043327.89 |

| Point Table | | |
|---|---|---|
| Point # | Northing | Easting |
| 46 | 2121083.51 | 6043331.77 |
| 47 | 2121085.24 | 6043326.25 |
| 48 | 2121096.84 | 6043329.89 |
| 49 | 2121094.08 | 6043338.84 |
| 50 | 2121102.59 | 6043341.46 |
| 51 | 2121097.62 | 6043357.55 |
| 52 | 2121112.73 | 6043362.22 |
| 53 | 2121117.67 | 6043346.21 |
| 54 | 2121127.16 | 6043349.11 |
| 55 | 2121125.88 | 6043353.29 |
| 56 | 2121132.99 | 6043355.47 |
| 57 | 2121132.13 | 6043358.24 |
| 58 | 2121144.72 | 6043362.12 |
| 59 | 2121154.57 | 6043330.06 |
| 60 | 2121143.74 | 6043326.84 |
| 61 | 2121148.28 | 6043312.33 |
| 62 | 2121159.01 | 6043315.62 |
| 63 | 2121173.85 | 6043320.18 |
| 64 | 2121166.92 | 6043342.75 |
| 65 | 2121158.22 | 6043340.08 |
| 66 | 2121159.69 | 6043335.32 |

| Point Table | | |
|---|---|---|
| Point # | Northing | Easting |
| 67 | 2121150.76 | 6043332.58 |
| 68 | 2121145.93 | 6043348.29 |
| 69 | 2121154.85 | 6043351.02 |
| 70 | 2121152.09 | 6043360.02 |
| 71 | 2121145.95 | 6043358.13 |
| 72 | 2121065.70 | 6043398.73 |
| 73 | 2121188.21 | 6043324.59 |
| 74 | 2121187.34 | 6043327.41 |
| 75 | 2121186.20 | 6043327.06 |
| 76 | 2121174.02 | 6043366.77 |
| 77 | 2121166.53 | 6043364.46 |
| 78 | 2121164.60 | 6043370.77 |
| 79 | 2121158.77 | 6043368.98 |
| 80 | 2121156.68 | 6043375.80 |
| 81 | 2121162.50 | 6043377.58 |
| 82 | 2121080.62 | 6043370.58 |
| 83 | 2121160.79 | 6043362.69 |
| 84 | 2121135.52 | 6043347.21 |
| 85 | 2121168.58 | 6043388.51 |
| 86 | 2121167.49 | 6043388.17 |
| 87 | 2121155.11 | 6043432.37 |

0 10' 20'
GRAPHIC SCALE

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Professional Engineer's No.: 59400

| State | Date Signed | Project Mgr. |
|---|---|---|
| CA | 6/17/2021 | DB |
| Designed by: CAS | Drawn by: CAS | Checked by: DB |

REGISTERED PROFESSIONAL ENGINEER DANIEL G. BONNER 59400 CIVIL STATE OF CALIFORNIA

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# LEAD, OCP, AND PCB IMPACTED SOIL

GENERAL

ARCADIS Project No.: 30045659.4440
Date: AUGUST 2021

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CONCORD, CA
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G-4

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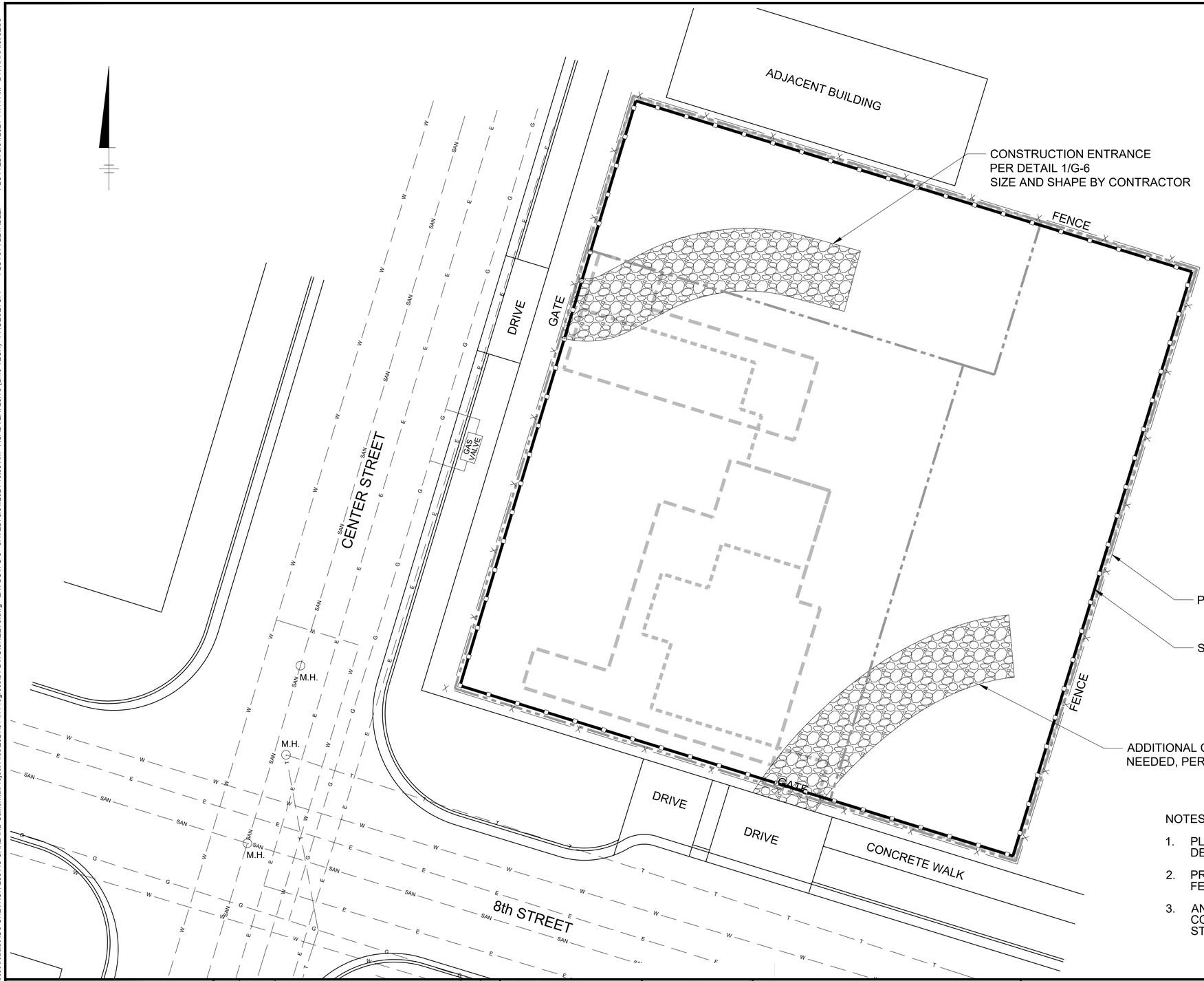


## LEGEND

- PARCEL OWNED BY CHEVRON
- PERIMETER FENCE
- STRAW WATTLE
- PETROLEUM-IMPACTED SOIL FOOTPRINT
- LEAD, OCP, AND PCB-IMPACTED SOIL FOOTPRINT

NOTES:

1. PLACE INLET PROTECTION AT NEXT DOWNSTREAM STORMWATER INLET PER DETAIL 3/G-6.
2. PRIVACY SCREEN SHALL BE INSTALLED ON THE EXISTING PERIMETER FENCE.
3. ANY TEMPORARY STORED SOILS OVERNIGHT WILL BE PLACED ON AND COVERED BY POLYETHYLENE SHEETING (MINIMUM 6-MIL), AND WILL HAVE STRAW WATTLES INSTALLED AROUND THEM.

0 10' 20'
GRAPHIC SCALE

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Professional Engineer's Name: DANIEL BONNER
Professional Engineer's No.: 59400

| State | Date Signed | Project Mgr. |
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| CA | 6/17/2021 | DB |
| Designed by: CAS | Drawn by: CAS | Checked by: DB |

REGISTERED PROFESSIONAL ENGINEER DANIEL G. BONNER 59400 CIVIL STATE OF CALIFORNIA

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# SWPP PLAN

GENERAL

ARCADIS Project No.
30045659.4440

Date
AUGUST 2021

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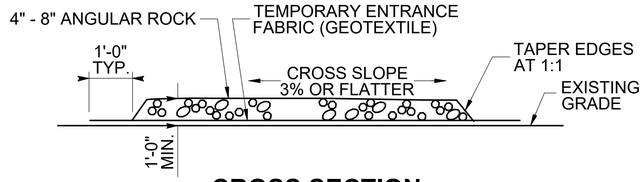
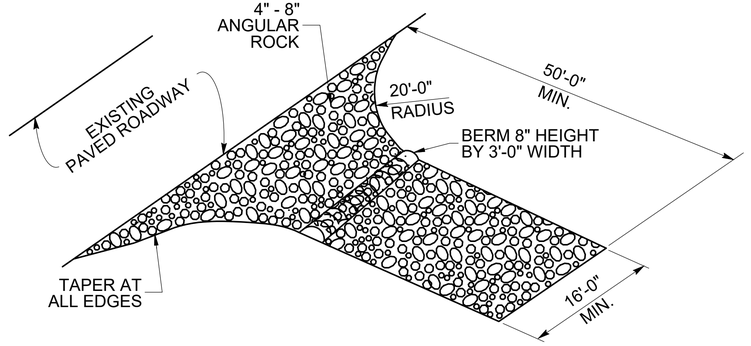
CONCORD, CA
TEL. 925.274.1100

**G-5**




## CROSS SECTION

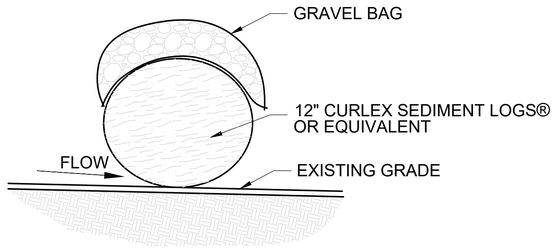



## PERSPECTIVE

NOTE:

1. STABILIZED ACCESS SHALL BE USED IN ALL AREAS OF THE SITE WITH VEHICLE TRAFFIC AND PARKING.

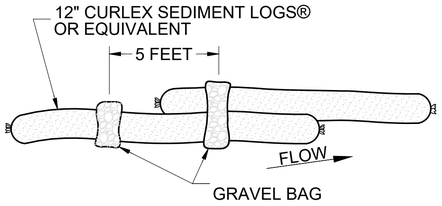
1 / G-6 CONSTRUCTION ENTRANCE
NOT TO SCALE




NOTE:

1. USE GRAVEL BAGS EVERY 5 FEET TO WEIGH DOWN THE STRAW WATTLE.

## CROSS SECTION

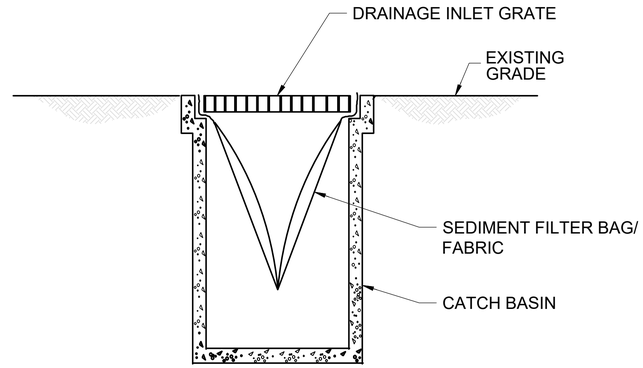



## PROFILE

STRAW WATTLE NOTES:

1. STRAW WATTLE OVERLAP SHALL BE PLACED ACCORDING TO THE DRAWING TO MINIMIZE THE FLOW THROUGH THE JOINTS.
2. STRAW WATTLE JOINTS SHALL HAVE A MINIMUM 1-FOOT OVERLAP. GRAVEL BAG SHALL BE PLACED ON THE OVERLAP TO SECURE BOTH WATTLES TOGETHER IN PLACE.

2 / G-6 STRAW WATTLE
NOT TO SCALE




NOTES:

1. STORM DRAIN INLETS SHALL BE REMOVED AT THE END OF THE JOB.
2. STORM DRAIN INLETS SHALL ONLY TO BE INSTALLED IN DRAINAGE DEVICES PER THE MANUFACTURER'S RECOMMENDATIONS. CATCH BASIN INSERTS SHALL NOT BE INSTALLED IN CURB INLETS.
3. INSERTS SHALL BE INSPECTED AN MAINTAINED WHEN A 1/2 INCH OF RAIN ACCUMULATES WITHIN A 24 HOUR PERIOD. CLEAN AND/OR REPLACE INSERT WHEN HALF OF THE TRAP IS FILLED WITH SEDIMENTS.

3 / G-6 INLET PROTECTION
NOT TO SCALE

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| Professional Engineer's Name: DANIEL BONNER | | |
| Professional Engineer's No.: 59400 | | |
| State: CA | Date Signed: 6/17/2021 | Project Mgr.: DB |
| Designed by: CAS | Drawn by: CAS | Checked by: DB |

REGISTERED PROFESSIONAL ENGINEER DANIEL G. BONNER 59400 CIVIL STATE OF CALIFORNIA

ARCADIS U.S., INC.

CHEVRON ENVIRONMENTAL • OAKLAND, CA
CONSTRUCTION DRAWINGS

# SWPP DETAILS

GENERAL

ARCADIS Project No. 30045659.4440
Date AUGUST 2021
ARCADIS 2300 CLAYTON RD. STE 400 CONCORD, CA TEL. 925.274.1100

G-6

Arcadis U.S., Inc.

2300 Clayton Road

Suite 400

Concord, California 94520

Tel 925 724 1100

**www.arcadis.com**