

Quarterly Monitoring Report – Second Quarter 2023
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

21 August 2023
Project No. 21-6410

PREPARED FOR:

NORTHWEST DEALERCO HOLDINGS, LLC.

PREPARED BY:



Environmental • Compliance • Industrial Hygiene • Geotechnical

Phone: 800-511-9300

Fax: 888-445-8786

www.advancedgeo.biz

"Working in Partnership with People, Business and the Environment"

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PREPARED BY:

Brian W. Millman
Senior Geologist
Oregon State Registered Geologist No. G2663



PROJECT MANAGER:

Brian W. Millman
Senior Geologist
Oregon State Registered Geologist No. G2663



REVIEWED BY:

Robert D. Loeffler
Senior Geologist/Vice President

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1.0. INTRODUCTION

At the request of Northwest Dealerco Holdings LLC, AdvancedGeo, Inc. (AGI) has prepared this *Quarterly Monitoring Report – Second Quarter 2023* for the Pacific Highway Auto Care site (former Unocal 76 station), located at 112 Pacific Highway North, Monmouth, Oregon (site or subject property). This report documents quarterly groundwater monitoring and sampling at the site.

The site and regional area are illustrated in Figures 1 and 2. A vicinity plan illustrating the surrounding area and depicting potable water sampling locations is presented in Figure 3. A site plan depicting soil boring locations, monitoring well and soil vapor well locations and former excavation areas is presented in Figure 4. Monitoring well construction details are summarized in Table 1 and historical soil data is presented in Tables 2 and 3.

Field procedures were outlined in the *Updated Site Assessment Work Plan* dated 03 December 2021 and email dated 04 August 2022. The work plan and subsequent email were approved by Oregon – Department of Environmental Quality (DEQ) emails dated 07 February 2022 and 17 October 2022 (Appendix A).

2.0. BACKGROUND

The Pacific Highway Auto Care site is a former Unocal 76 station, located on the northwest corner of Pacific Highway North and Main Street East, Monmouth, Oregon in a mixed commercial and residential area. In April 2021, a significant unauthorized release of gasoline impacted the subsurface and entered into the sanitary sewer system. Fuel was initially encountered at the wastewater treatment plant and the source of the fuel was traced back to the service station. A large-scale emergency response action was initiated under the oversight of the DEQ. Following the emergency response action, the Unocal 76 station was decommissioned and demolished, and the site was excavated to remove petroleum contaminated soil. A brief summary of historical site activities is provided below.

2.1. SITE DESCRIPTION

The site is a 0.47-acre parcel that was formerly a convenience store and a service station. The service station included two fuel dispenser canopies, two 12,000-gallon gasoline underground storage tanks (USTs) tanks and a 550-gallon waste oil UST. All tanks were located on the west side of the property. The site layout is depicted in Figure 4. The site is located in a mixed-use area and the following table summarizes the immediately adjacent properties:

Direction of Adjacent Property	Property Occupant
North	OG Collective Dispensary (140-144 Pacific Highway North) Residence (571 Jackson Street (East)) Catron Court Apartments (163 Catron Street)
South	Shell Service Station (595 Main Street East) Washington Federal Bank (523 Main Street East)
East	Carl's Jr (131 Pacific Highway North)
West	Main Street Dental (512 Main Street East) Salem Health Medical Clinic (512 Main Street East)

2.2. GEOLOGIC AND HYDROGEOLOGIC SETTINGS

The subject property is located in the Willamette Valley geologic province, a structural and erosional lowland situated between the uplifted marine rocks of the Coast Range to the west and the volcanic rocks of the Cascade Range to the east. In the Monmouth area, the Willamette Silt extends from near the surface to an approximate depth of 30 feet. The Willamette Silt consists of silt/clay and fine sand that was deposited by late Pleistocene glacial flooding.

Based on numerous borings drilled on the subject site, the soil profile consists of gravelly sand with some silt extending from surface to a few inches to 3 feet. Underlying the gravelly sand is a 2 to 6 foot thick moist, gray-colored clay unit with occasional coarse sand and gravel lenses. Underlying the gray-colored clay is a beige clay unit that extends to a maximum depth of 30 feet below surface grade (bsg).

The site is located within the Willamette Ground Water Basin which consists of seven regional hydrogeologic units. Within the Monmouth area, The Willamette Silt unit (WSU) and the middle sedimentary unit are the shallowest aquifer bearing zones. The WSU extends from near surface to approximately 30 feet bsg. Underlying the Willamette Silt is the middle sedimentary unit (MSU) which is approximately 20 feet thick.

The WSU is a fine-grained unit consisting predominantly of silt and/or clay with alternating lenses of fine and coarse-grained sediments. Many of the lower beds are reported to be gray or blue in color. This unit generally has high porosity but low permeability and is rarely used as a producing aquifer. Because of the low permeability, few well tests are lacking in the WSU; however, hydraulic conductivity has been reported at ranges of 0.003 feet/day to 8 feet/day. Generally, most tests range from 0.01 feet/day to 1.4 feet/day. The MSU consists of moderately consolidated Pleistocene sands and gravels with the upper portion of the unit being unconsolidated near its upper surface but more compacted and cemented with depth. The aquifer in this unit is more readily utilized due to hydraulic conductivity ranges from 0.03 feet/day to 2,230 feet/day.

Based on the investigations conducted at the site, perched groundwater occurs in discontinuous lenses between ground level and 14 feet below surface grade. A second semi-confined aquifer is reported to be present from 17 feet to 35 to 40 feet below surface grade. Both these aquifers are believed to be part of the WSU. Reportedly, a third aquifer is present in the area of the site at a depth of 45 to 50 feet below surface grade and may be part of the MSU. Groundwater in the first and second water-bearing zones flows predominantly to the west-northwest. Groundwater flow in the third zone has not been determined at the site.

2.3. RELEASE HISTORY AND EMERGENCY RESPONSE

On 06 April 2021, NWFF Environmental (NWFF) was contacted by the City of Monmouth Public Works Department to assist with the capture of gasoline that was flowing into the Monmouth Public Works Department's wastewater treatment plant located 0.6 miles northeast of the site. NWFF was able to trace the fuel release back to the site where it was determined that the piping had failed on the effluent side of the turbine pump on the westernmost gasoline UST. It is unknown how long the turbine had been leaking, but inventory records reportedly indicated that approximately 14,000 gallons of fuel was lost. NWFF began emergency response actions (ERA) immediately on 06 April 2021. A summary of the ERA, investigations performed, and an evaluation of the data collected during the ERA was presented in the AGI-prepared, *Environmental Data Review and Data Gap Report* dated 07 May 2021.

2.4. SITE DEMOLITION AND UST REMOVAL ACTIVITIES

In May 2021, the USTs and fuel dispersers were removed from the site, and the canopies and building were demolished. Detailed information and documentation of UST removal activities was provided in the AGI-prepared *Underground Storage Tank Removal Soil Sampling Report* dated 04 June 2021.

2.5. SOIL EXCAVATION

Between 17 May and 25 June 2021, a large-scale soil excavation remediation effort was performed at the site to remove all petroleum hydrocarbon-impacted material. Approximately 20,000 square feet of the site was excavated to 15 feet bsg. A small portion of the northeastern corner of the property, consisting of approximately 500 square feet, was not excavated. Soil data collected during the ERA indicated this portion of the northeast corner was not impacted by the release. Additionally, leaving this area intact allowed monitoring wells MW-1 and MW-2 to remain installed.

Approximately 11,100 cubic yards (15,980.5 tons) of soil were removed from the site and disposed. The excavated area was backfilled with 3-inch rock/crushed rock from 12 feet to 15 feet bsg, and ¾-inch minus/crushed rock from 12 feet bsg to surface grade.

Soil sample results from excavation bottom samples collected at 15 feet bsg and previous soil boring samples collected at 14 feet bsg indicated that the vertical extent of petroleum-impacted soil onsite was removed and has been defined.

Soil sample results from excavation sidewall samples indicated petroleum-impacted soil continues to the west and northwest of the site. Petroleum-impacted soil is defined to the northeast, east, and south of the site.

Detailed information and documentation from soil excavation remediation activities and all environmental work that has been conducted at the site through July 2021 was provided in the AGI-prepared, *Soil Excavation Remediation Report* dated 28 July 2021.

3.0. SOIL VAPOR SAMPLING

On 12 and 13 June 2023, a total of twenty-five (25) soil vapor samples were collected from soil vapor wells SV1 through SV12 (2 and 5 feet) and sub-slab points SS1 and SS2. A soil vapor sample could not be collected from SV12-5' because the tubing contained water. Soil vapor sampling procedures were performed in general accordance with DEQ's, *Guidance for Assessing and Remediating Vapor Intrusion in Buildings* dated 25 March 2010.

3.1. SOIL VAPOR SAMPLE COLLECTION AND ANALYSIS

Laboratory-prepared, one-liter Summa® sampling canisters were used to collect soil vapor samples. The sampling canister was connected with a dedicated and serialized sampling inlet manifold. The sampling inlet manifold consisted of a vapor-tight valve, a particulate filter, a calibrated flow restrictor set at 150 ml/min, and a vacuum gauge at either end of the flow controller (manifold assembly). The manifold assembly was attached with Teflon® tubing to the fitting at the top of each soil vapor sampling point.

Prior to purging and sampling, leak tests (shut-in tests) were performed at each vapor point location to check for leaks in the above ground fittings. The leak tests were performed by evacuating the line to a vacuum of 100 inches of water, sealing the system, and watching the vacuum for at least one minute. Samples were collected following purging and a successful shut-in test.

Prior to sampling, a 60ml syringe was utilized to purge each soil vapor point of three calculated volumes of air. The purge volumes were determined by calculating the internal volume of the tubing and the volume of sampling void. The purge volume calculations are presented in Appendix B. The total purge volume of the sub-slab points is less than 100 ml, the sub-slab point locations were purged for approximately one minute to ensure removal of a minimum of three calculated volumes of air.

Following purging, each soil vapor sample location was isolated from ambient air by enclosing the soil vapor point, tubing, and manifold/canister assembly in a clear plastic

shroud. To ensure that a reliable soil vapor sample was collected with no ambient air breakthrough, a tracer gas consisting of 1,1-difluoroethane (1,1-DFA) was infused into the shroud.

Upon achieving the targeted purge volume, the sample canister valve was opened. The initial vacuum on the sample canister and time were recorded. Upon reaching at least -5 in/Hg or less, the sample canister valve was closed, and final vacuum and time recorded (Appendix C). The sampling port on the sampling canister was capped with a brass endcap. Following sample collection, organic vapor was measured from each soil vapor sampling point using an organic vapor meter (OVM), equipped with a photo-ionization detector (PID). PID readings are recorded on the soil vapor sampling field logs (Appendix C).

All soil vapor samples were labeled with unique sample IDs, project name, date, time, and samplers' initials. The samples were logged on a chain-of-custody form and placed into a dry shipping container. Subsequently, the soil vapor sample containers were delivered to Eurofins Air Toxins (EAT), for analysis of the following chemical constituents:

- Volatile organic compounds (VOCs) in accordance with EPA Method TO-15.
- Oxygen (O₂), carbon dioxide (CO₂), and methane (CH₄) in accordance with EPA Method ASTM D-1946.

3.2. ANALYTICAL RESULTS OF SOIL VAPOR SAMPLES

On 12 and 13 June 2023, a total of twenty-three (23) soil vapor samples were collected from soil vapor wells SV1 through SV12 (2 and 5 feet). A soil vapor sample was not collected from SV12-5' due to water in the sampling tubing.

TWO (2) FEET BSG: SV1-2' through SV12-2'

The following is a summary of the analytical results of soil vapor samples collected at two (2) feet bsg:

- Total petroleum hydrocarbons (TPH) as gasoline (generic gasoline) were not detected above laboratory reporting limits in SV1 through SV12 (Table 4).
- Benzene was detected in SV2 at a trace concentration of 0.94 micrograms per cubic meter (µg/m³; Table 4).
- Toluene was detected in nine of the twelve samples collected from SV1 through SV12 at trace concentrations ranging from 1.1 µg/m³ in SV10 to 7.1 µg/m³ in SV1 (Table 4).
- Xylenes were detected in five of the twelve samples collected from SV1 through SV12 at trace concentrations ranging from 2.3 µg/m³ in SV8 to 4.9 µg/m³ in SV2 (Table 4).

- Naphthalene was detected at a concentration of 28 $\mu\text{g}/\text{m}^3$ in SV1 and at a trace concentration of 5.0 $\mu\text{g}/\text{m}^3$ in SV3 (Table 4).
- Tracer compound 1,1-DFA was detected in SV1, SV2 and SV5 at concentrations of 1,800 $\mu\text{g}/\text{m}^3$, 160 $\mu\text{g}/\text{m}^3$ and 280,000 $\mu\text{g}/\text{m}^3$, respectively.
- Oxygen was detected at a concentration of 8.1% in SV2 and at concentrations ranging from 19% to 21% in the remaining wells (Table 5).
- Carbon dioxide was detected at concentrations ranging from 0.057% in SV5 to 12% in SV2; the average was 1.84% (Table 5).
- Methane was detected at concentrations of 0.00022% in SV4 and 0.00024% in SV5 (Table 5).

FIVE (5) FEET BSG: SV1-5' through SV11-5'

The following is a summary of the analytical results of soil vapor samples collected at five (5) feet bsg:

- Generic gasoline was detected in SV1, SV2, SV3, SV6, and SV7 at concentrations ranging from 450 $\mu\text{g}/\text{m}^3$ in SV2 to 860,000 $\mu\text{g}/\text{m}^3$ in SV6. Generic gasoline was detected in SV6 and SV7 at maximum concentrations of 860,000 $\mu\text{g}/\text{m}^3$ and 70,000 $\mu\text{g}/\text{m}^3$, respectively (Table 4).
- Benzene was detected in SV6 and SV7 at concentrations of 7,800 $\mu\text{g}/\text{m}^3$ and 260 $\mu\text{g}/\text{m}^3$, respectively. Benzene was also detected in SV1, SV2, and SV11 at trace concentrations ranging from 0.78 $\mu\text{g}/\text{m}^3$ to 0.96 $\mu\text{g}/\text{m}^3$ (Table 4).
- Toluene, ethylbenzene, total xylenes, 1,2,4-TMB, 1,3,5-TMB, and naphthalene were detected in SV6 and SV7 at elevated and maximum concentrations of 560 $\mu\text{g}/\text{m}^3$, 4,700 $\mu\text{g}/\text{m}^3$, 18,000 $\mu\text{g}/\text{m}^3$, 9,600 $\mu\text{g}/\text{m}^3$, 8,900 $\mu\text{g}/\text{m}^3$ and 160 $\mu\text{g}/\text{m}^3$, respectively (Table 4).
- One or more of the risk-based decision making (RBDM) VOCs: toluene, ethylbenzene, total xylenes, and naphthalene were detected at low and trace concentrations in SV1, SV2, SV3, SV4, SV8, and SV11 at maximum concentrations of 8.8 $\mu\text{g}/\text{m}^3$, 2.3 $\mu\text{g}/\text{m}^3$, 8.0 $\mu\text{g}/\text{m}^3$, and 1.8 $\mu\text{g}/\text{m}^3$, respectively (Table 4).
- Tracer compound 1,1-DFA was detected in SV5 at a concentration of 230,000 $\mu\text{g}/\text{m}^3$.
- Oxygen was detected in SV1 through SV11 at concentrations ranging from 6.6% in SV2 to 21% in SV4 and SV5; oxygen was detected in SV2 and SV6 at low concentrations of 6.6 and 8.4%, respectively (Table 5).
- Carbon dioxide was detected in the soil vapor samples collected at concentrations ranging from 0.19% in SV5 to 12% in SV2; the average was 4.42%.

- Methane was detected in SV3, SV5, SV6, and SV7 at concentrations ranging from 0.00021% in SV3 to 0.0014% in SV6.

A summary of soil vapor analytical results is presented in Tables 4 and 5 and depicted in Figures 5 and 6. The laboratory reports (Air Toxics Work Order Nos. 2306303), quality assurance and quality control (QA/QC) reports and chain of custody forms are included in Appendix D.

3.3. ANALYTICAL RESULTS OF SUB-SLAB VAPOR SAMPLES

On 13 June 2023, sub-slab vapor samples were collected from SS1 and SS2. The following is a summary of the analytical results:

- Generic gasoline was not detected above laboratory reporting limits in SS1 and SS2 (<400 and <630 $\mu\text{g}/\text{m}^3$).
- Benzene was not detected above laboratory reporting limits in SS1 and SS2 (<3.1 and <5.0 $\mu\text{g}/\text{m}^3$).
- Toluene, ethylbenzene, total xylenes, 1,2,4-TMB, 1,3,5-TMB, and naphthalene were detected in SS1 at low and trace concentrations ranging from 1.1 $\mu\text{g}/\text{m}^3$ to 7.2 $\mu\text{g}/\text{m}^3$; toluene was detected in SS2 at a trace concentration of 2.0 $\mu\text{g}/\text{m}^3$.
- Tracer compound 1,1-DFA was detected in SS2 at a concentration of 680 $\mu\text{g}/\text{m}^3$.
- Oxygen was detected in SS1 and SS2 at 21%.
- Carbon dioxide was detected in SS1 and SS2 at 0.17% and 0.63%, respectively.
- Methane was detected in SS1 at 0.00048%; methane was not detected above the laboratory reporting limit in SS2.

A summary of sub-slab analytical results is presented in Tables 4 and 5 and depicted in Figures 5 and 6. The laboratory reports (Air Toxics Work Order Nos. 2306303), QA/QC reports and chain of custody forms are included in Appendix D

4.0. GROUNDWATER MONITORING AND SAMPLING

On 14 and 15 June 2023, a quarterly groundwater monitoring event was conducted at the site. Depth to groundwater was measured in wells MW-1 through MW-7 and MW-9 through MW-14 and groundwater samples were collected from each well. Monitoring wells were sampled in accordance with AGI's standard monitoring and sampling procedures (Appendix E). No exceptions to AGI's standard monitoring and sampling procedures were noted during the June 2023 groundwater monitoring event. At the time of sampling, pH, EC, temperature, and dissolved oxygen were measured at the wells

using a YSI 556 multi-meter water analyzer. Groundwater monitoring and sampling field logs are provided in Appendix F.

Groundwater elevation, flow direction and gradient were determined from field data collected on 14 June 2023. The contaminant impact to groundwater was quantified by the laboratory analytical data.

4.1. GROUNDWATER ELEVATION, FLOW DIRECTION AND GRADIENT

On 14 June 2023, groundwater elevation data was collected from wells MW-1 through MW-7 and MW-9 through MW-14. The groundwater elevation was calculated by subtracting the depth to water from the surveyed casing elevation. Shallow groundwater flow direction and gradient were calculated from the data collected from wells MW-1, MW-3, MW-5, MW-9, MW-11 and MW-13 and deep groundwater flow direction and gradient were calculated from the data collected from wells MW-2, MW-4, MW-6, MW-10, MW-12 and MW-14.

SHALLOW ZONE WELLS (5 – 15 FEET BSG)

Depths to groundwater ranged from 4.34 feet (MW-13) to 8.68 feet (MW-11) below the tops of the well casings (btoc). Groundwater elevations were calculated between 191.76 feet (MW-11) and 196.59 feet (MW-1) above the North American Vertical Datum (NAVD88).

Based on groundwater elevation data collected from wells MW-1, MW-3, MW-5, MW-9, MW-11 and MW-13, groundwater was calculated to flow to the west-southwest at an average hydraulic gradient of 0.030 foot/foot (ft/ft).

DEEP ZONE WELLS (20 – 35 FEET BSG)

Depths to groundwater ranged from 5.29 feet (MW-4) to 10.91 feet (MW-10) btoc. Groundwater elevations were calculated between 189.95 feet (MW-10) and 196.24 feet (MW-2) above the NAVD88.

Based on groundwater elevation data collected from wells MW-2, MW-4, MW-6, MW-10, MW-12 and MW-14, groundwater was calculated to flow to the west-northwest at an average hydraulic gradient of 0.025 ft/ft onsite and 0.035 ft/ft west of the site.

Depth to water and groundwater elevations are summarized in Table 6. Well sampling field logs are included in Appendix F. Shallow zone and deep zone groundwater elevation maps are presented in Figures 7 and 8, respectively.

4.2. ANALYTICAL RESULTS OF GROUNDWATER SAMPLES

On 14 and 15 June 2023, groundwater samples were collected from wells MW-1 through MW-7 and MW-9 through MW-14 and submitted for analysis for gasoline range organics (GRO) and RBDM VOCs. The following is a summary of the analytical results.

SHALLOW ZONE WELLS (5 – 15 FEET BSG)

- GRO were detected in wells MW-5 and MW-9 at concentrations of 140,000 micrograms per liter (µg/l) in MW-5 and 44,800 µg/l in MW-9.
- Benzene was detected in wells MW-5 and MW-9 at concentrations of 9,360 µg/l in MW-5 and 1,730 µg/l in MW-9.
- Toluene, ethylbenzene, and total xylenes were detected in wells MW-5 and MW-9 at maximum concentrations of 13,100 µg/l, 2,020 µg/l and 12,100 µg/l, respectively (MW-5).
- 1,2,4-TMB and 1,3,5-TMB were detected in wells MW-5 and MW-9 at maximum concentrations of 1,340 µg/l and 420 µg/l, respectively (MW-5).

DEEP ZONE WELLS (20 – 35 FEET BSG)

- Methyl tertiary butyl ether (MTBE) was detected in wells MW-4 and MW-6 at concentrations of 1.42 µg/l and 7.33 µg/l, respectively.
- 1,2-dichloroethane (EDC) was detected in well MW-4 at a concentration of 3.15 µg/l.

No additional analytes were reported above laboratory detection limits in the groundwater samples analyzed. Analytical results of groundwater samples are summarized in Table 7 and dissolved GRO and benzene concentrations are depicted in Figure 9. The laboratory reports (Apex Report ID: A3F1263), QA/QC reports, and chain of custody forms are included in Appendix G.

4.3. QUALITY ASSURANCE / QUALITY CONTROL

As part of QA/QC procedures, one trip blank was provided by the laboratory and placed in the ice chest during groundwater sampling field work and transported with the samples to Apex. The trip blanks were appropriately sealed, labeled, and transported under chain-of-custody procedure to Apex and analyzed for GRO and RBDM VOCs. The trip blanks did not contain any GRO or RBDM VOC analytes.

During sample collection and handling, care was taken to avoid contamination or cross-contamination of samples and to ensure reliable analytical results. Nitrile gloves were worn and replaced at each sampling location.

5.0. WASTEWATER AND DRINKING WATER SAMPLING

5.1. WASTEWATER SAMPLING

Wastewater samples are collected on a monthly schedule from the wastewater treatment plant at the City of Monmouth Public Works Department. Samples were collected from the Wet Water Well (WWW) and Wastewater Pond 2 (WP-2) on 22 May, 15 June and 17 July 2023.

Toluene was detected from WWW in May, June and July 2023 at concentrations ranging from 1.27 µg/l in July to 8.68 µg/l in May 2023 (Table 8). No other VOCs have been detected above laboratory reporting limits in WWW since February 2022.

GRO and VOCs have not been detected from any of the wastewater ponds since April 2021 (Table 8).

Analytical results of water samples are summarized in Table 8. The laboratory reports from May, June, and July 2023 (Apex Report IDs: A3E1586, A3F1261, and A3G1260), QA/QC reports, and chain of custody forms are included in Appendix G.

In an email dated 14 July 2023, Oregon DEQ approved AGI's recommendation to cease wastewater sampling if the City of Monmouth agrees. In an email dated 27 July 2023, the City of Monmouth Public Works Department concurred with cessation of monthly wastewater sampling.

5.2. DRINKING WATER SAMPLING

Potable/drinking water samples are collected from the site (DWC) and at locations upgradient (DWU) and downgradient (DWD) from the site on a quarterly schedule. The previous sampling event was performed on 24 April 2023 and the next event is scheduled for September 2023. Following demolition of the site in May 2021, a new water line was installed at the site. The water line was installed from the water main located in the sidewalk along the southern border of the site. The water line extends approximately 15 feet to the north of the main, onto the subject property, and connects to a vertical pipe approximately one foot above ground surface with a hose bib. Potable/drinking water sample locations are depicted in Figure 3.

Significant concentrations of GRO and VOCs were detected from the onsite drinking water sample point (DWC) on 16 August 2021 and lesser concentrations were detected in November 2021 and in March and August 2022. The concentrations were attributed to construction work performed at and around the water main at the time of the sampling. Confirmation water samples were collected on 24 August 2021 after purging the water line of approximately 100 gallons of water (the line was not purged prior to the 16 August sampling event). Except for a low concentration of benzene, GRO and VOCs were not detected in the confirmation sample. GRO decreased from 27,700 µg/l to below detectable limits and benzene decreased from 1,940 µg/l to 1.23 µg/l.

The following is a summary of the quarterly sampling events:

- On 23 November 2021, approximately 10 gallons of water were purged from DWC prior to sample collection; low concentrations of GRO and benzene were detected. On 07 December 2022, approximately 150 gallons were removed from the line and DWC was resampled. GRO were not detected, and benzene was detected just above the reporting limit. GRO decreased from 236 µg/l to below detectable limits and benzene decreased from 12.2 µg/l to 1.61 µg/l.
- On 15 March 2022, water samples were collected from DWC before purging and after purging 100 gallons of water. Moderate to high concentrations of GRO and VOCs were detected prior to purging and only a low concentration of benzene was detected following purging; GRO decreased from 1,580 µg/l to below detectable limits and benzene decreased from 143 µg/l to 3.19 µg/l.
- On 31 August 2022, water samples were collected from DWC before purging and after purging 200 gallons of water. Low to moderate concentrations of GRO and VOCs were detected prior to purging and only a low concentration of benzene was detected following purging. GRO decreased from 222 µg/l to below detectable limits and benzene decreased from 17.1 µg/l to 2.59 µg/l.
- On 16 December 2022, water samples were collected from DWC before purging and after purging approximately 275 gallons of water. High concentrations of GRO and VOCs were detected prior to purging and only a low concentration of benzene was detected following purging. GRO decreased from 28,900 µg/l to below detectable limits and benzene decreased from 2,160 µg/l to 1.37 µg/l.
- On 24 April 2023, water samples were collected from DWC before purging and after purging approximately 100 gallons of water. Low to moderate concentrations of GRO and VOCs were detected prior to purging and only a low concentration of benzene was detected following purging. GRO decreased from 1,760 µg/l to below detectable limits and benzene decreased from 60.4 µg/l to 2.43 µg/l.

Analytical results of water samples are summarized in Table 8.

6.0. CONCLUSIONS

Based upon the results of the June 2023 investigation, AGI concludes the following:

- Soil vapor concentrations in the sub-slab and 2-foot samples have remained stable compared to the previous sampling event in December 2022. GRO and benzene remained non detect or were detected at trace concentrations. The laboratory reporting limits and concentrations detected were significantly below the Oregon DEQ residential risk-based concentration for soil vapor (RBCsv; Table 4; Figures 5 and 6).
- Soil vapor concentrations in the 5-foot samples have significantly decreased

compared to the previous events in August/December 2022. GRO concentrations decreased from 2,000,000 $\mu\text{g}/\text{m}^3$ to 1,300 $\mu\text{g}/\text{m}^3$ in SV3; from 16,000,000 $\mu\text{g}/\text{m}^3$ to 860,000 $\mu\text{g}/\text{m}^3$ in SV6; and from 12,000,000 $\mu\text{g}/\text{m}^3$ to 70,000 $\mu\text{g}/\text{m}^3$ in SV7. Similar benzene concentration decreases were observed in the above wells (Table 4; Figures 5 and 6).

- GRO and benzene concentrations detected in the 5-foot soil vapor samples collected from SV6 and SV7 exceeded their respective DEQ commercial RBCsv. Additionally, ethylbenzene, xylenes, 1,2,4-TMB, 1,3,5-TMB, and naphthalene detected in the 5-foot sample from SV6 exceeded their respective DEQ commercial RBCsv (Table 4; Figures 5 and 6).
- The lateral extent of soil vapor impact below RBCs is defined (Table 4; Figures 5 and 6).
- Soil vapor intrusion (SVI) is likely being restricted by the clayey soil. Soil vapor concentrations significantly decrease at two feet bsg compared to the five-foot samples.
- Low oxygen and elevated carbon dioxide and methane concentrations were generally detected in SV6-5 and SV7-5. Concentrations of the fixed gases confirm areas of petroleum impact and indicate natural degradation is occurring.
- Groundwater was calculated to flow to the west-southwest at an average hydraulic gradient of 0.030 ft/ft in the shallow zone (Figure 7) and to the west-northwest at an average hydraulic gradient of 0.025 ft/ft onsite and 0.035 ft/ft west of the site in the deep zone (Figure 8).
- Dissolved GRO and VOC concentrations increased in wells MW-5 and MW-9 compared to the previous event in March 2023. The increase may be attributed to the decrease in groundwater elevation bringing the top of the groundwater table in contact with more impacted soil.
- The lateral extent of impacted groundwater is undefined to the west-northwest and northwest; the lateral extent is defined in the remaining directions (Figure 9).
- Except for very low concentrations of GRO and toluene, wastewater samples collected from WWW have been non-detect for the past 14 sampling events; and samples collected from the wastewater ponds have been non-detect since April 2021 (Table 8). The DEQ and the City of Monmouth have both agreed to cessation of monthly wastewater sampling.

7.0. RECOMMENDATIONS

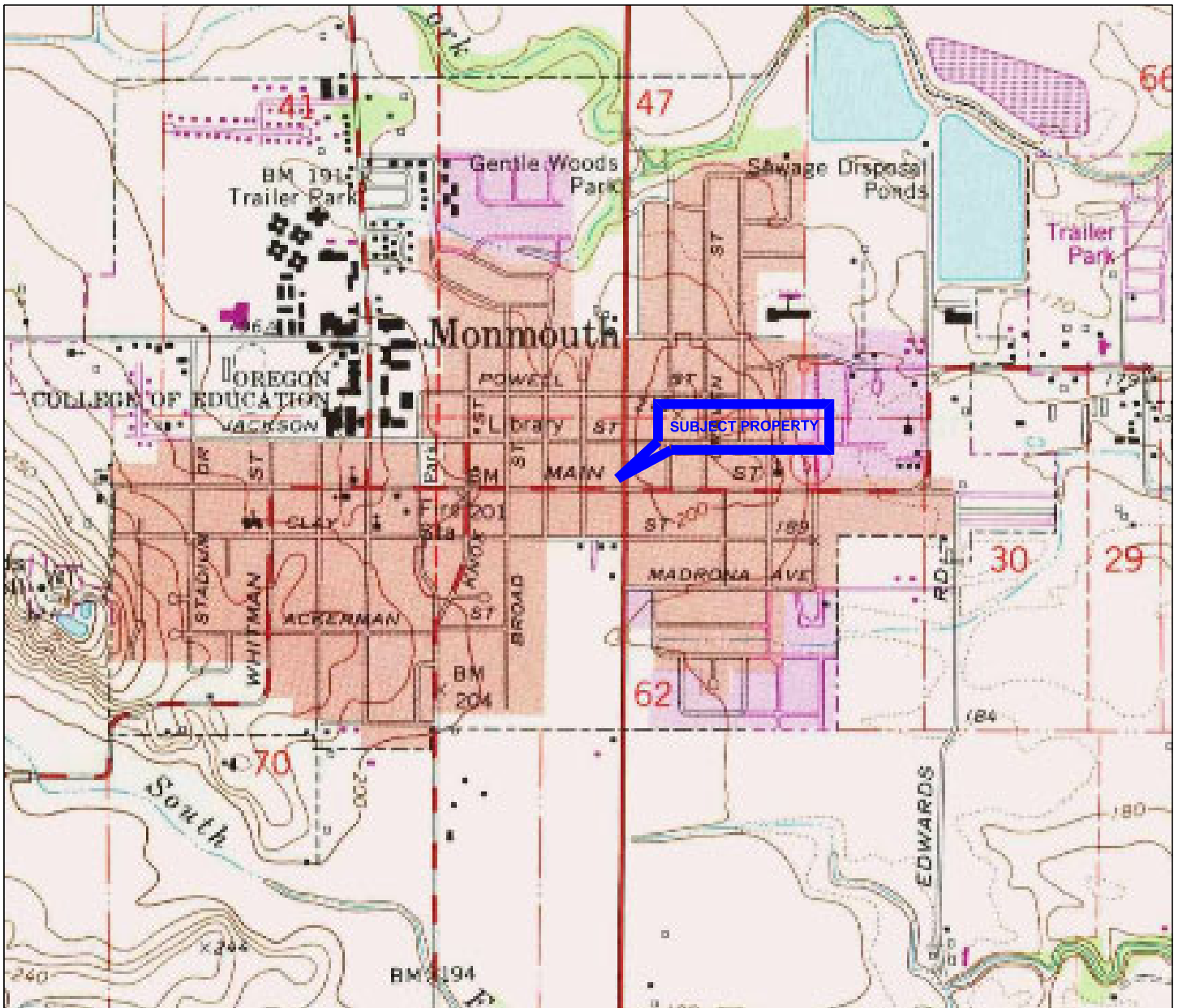
Based upon data reviewed and collected at the site, AGI recommends:

- Continued quarterly soil vapor and groundwater monitoring and sampling as required by DEQ email dated 26 July 2022. The third quarter 2023 monitoring event is scheduled for 11 - 15 September 2023.
- Installation of onsite well MW-8 and three sets of additional monitoring wells to the west and northwest of 512 Main Street East to define the lateral and vertical extent of groundwater contamination. The work was approved by DEQ email dated 21 July 2023. Proposed well locations are depicted in Figures 3, 4 and 9.
- Continued quarterly potable water sampling. The next sampling event will be performed in September 2023.

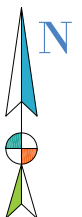
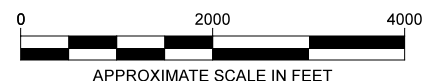
8.0. LIMITATIONS

Our professional services were performed using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar localities. The findings were based upon analytical results provided by an independent laboratory. The evaluation of the hydrogeologic conditions at the site for the purpose of this investigation was made from a limited number of available data points (i.e., field data, soil vapor and groundwater samples) and subsurface conditions may vary away from these data points. No other warranty, expressed or implied, is made as to the professional interpretations, opinions, and recommendations contained in this report.

FIGURES



MONMOUTH, OREGON 7.5 MINUTE SERIES
(U.S. GEOLOGICAL SURVEY)



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LOCATION MAP
PACIFIC HIGHWAY AUTO CARE
112 PACIFIC HIGHWAY NORTH
MONMOUTH, OREGON

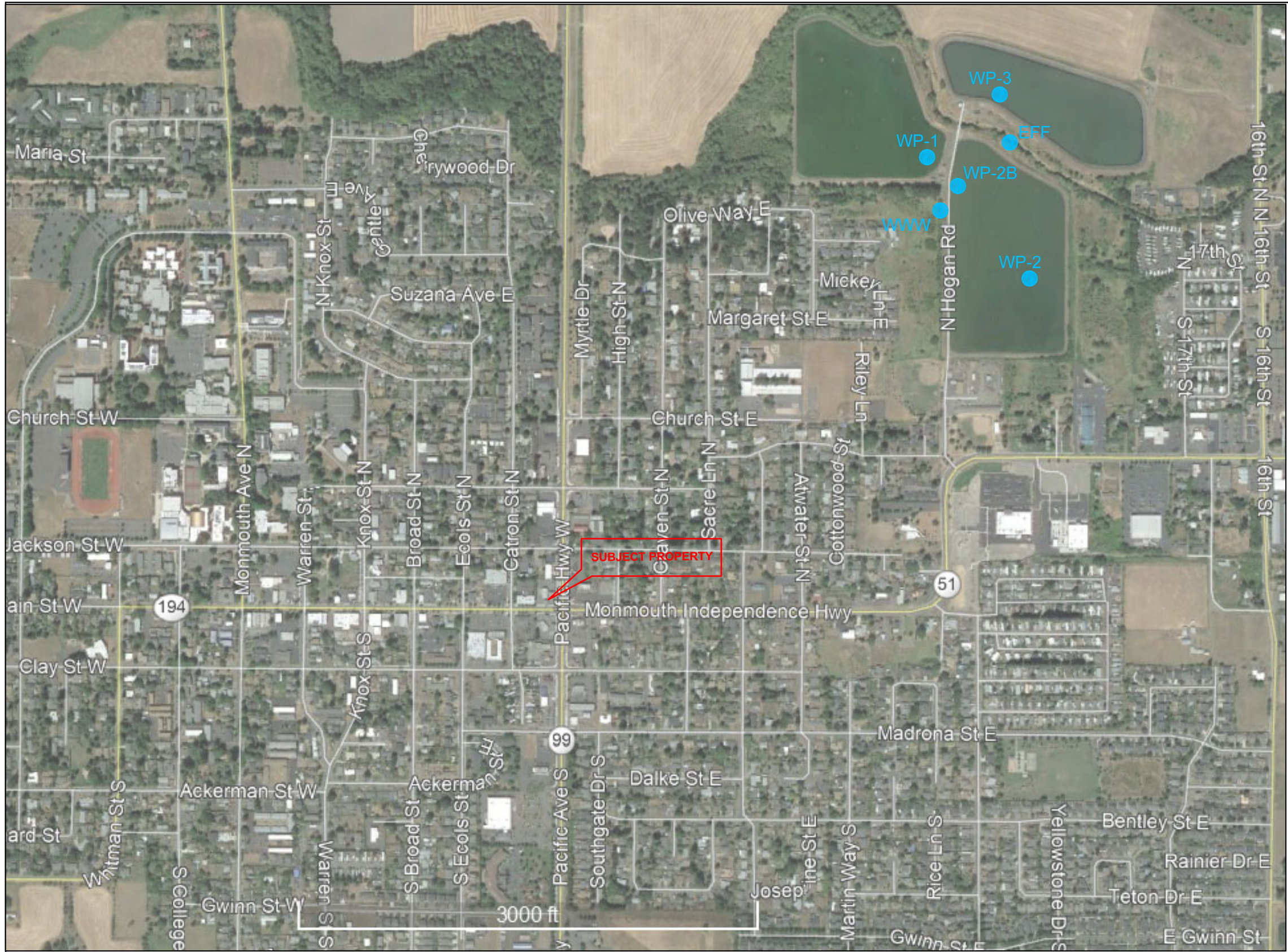
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FILE: LM

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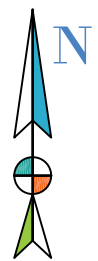
PROJECT NO. 21-6410

FIGURE: 1



LEGEND

WP-1 ● WASTEWATER POND SAMPLING LOCATION



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REGIONAL MAP
PACIFIC HIGHWAY AUTO CARE
112 PACIFIC HIGHWAY NORTH
MONMOUTH, OREGON

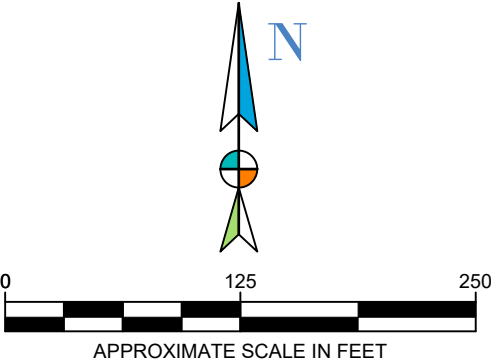
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FIGURE: 2

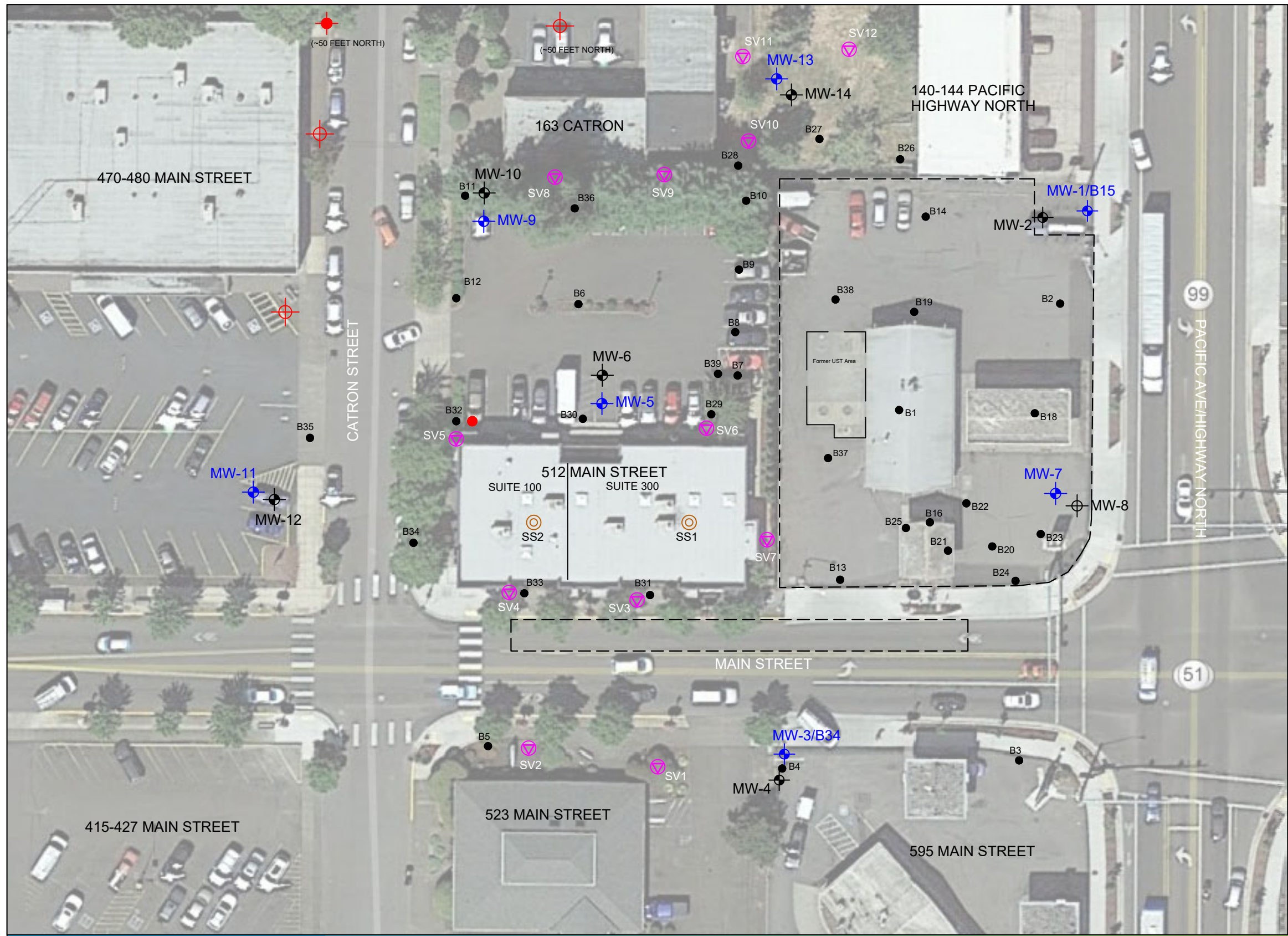


LEGEND

- SUBJECT PROPERTY LOCATION
- DWC POTABLE/DRINKING WATER SAMPLE LOCATION AND I.D.
- PROPOSED SHALLOW AND DEEP MONITORING WELL LOCATION
- OPTIONAL SHALLOW AND DEEP MONITORING WELL LOCATION
- PROPOSED SOIL BORING

NOTES: All subject property structures and buildings have been removed and are no longer present on the site.





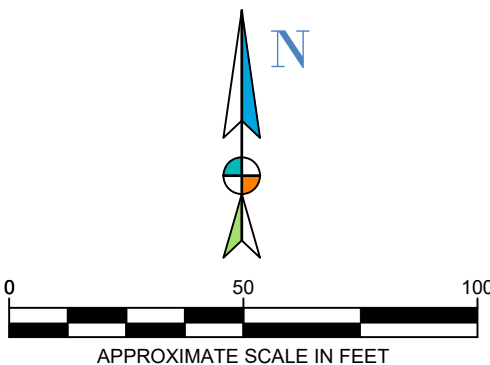
LEGEND

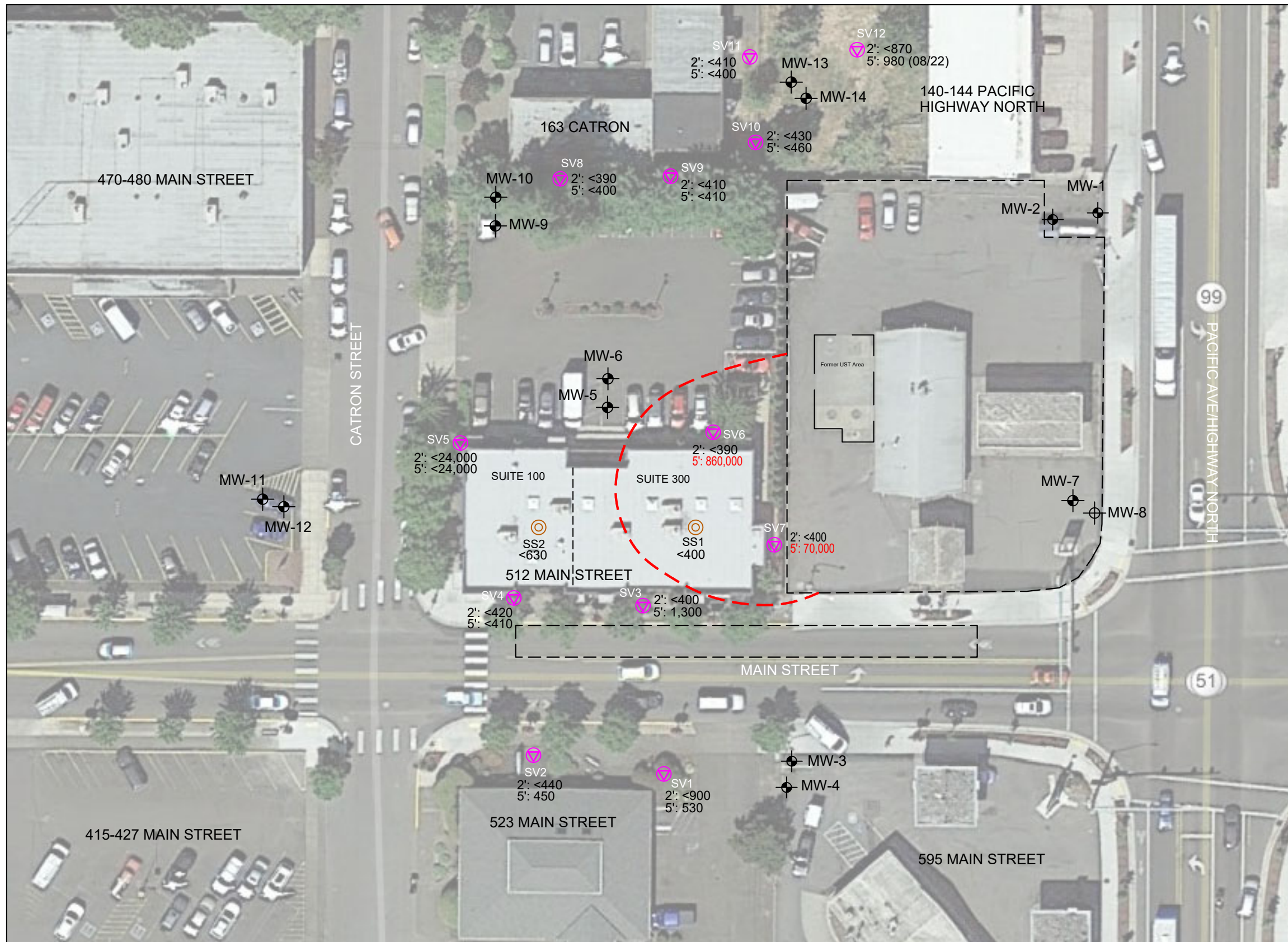
- B6 ● SOIL BORING LOCATION AND DESIGNATION
- MW-1 ● SHALLOW MONITORING WELL LOCATION AND DESIGNATION
- MW-2 ● DEEP MONITORING WELL LOCATION AND DESIGNATION
- MW-8 ● DEEP MONITORING WELL LOCATION (NOT INSTALLED)
- EXCAVATION AREA
- SV1 ● SOIL VAPOR WELL LOCATION AND DESIGNATION
- SS1 ● SUB-SLAB SAMPLING POINT LOCATION AND DESIGNATION

NOTES: All subject property structures and buildings have been removed and are no longer present on the site.

Wells SV1 - SV5 and SV8 are 3-inch diameter boreholes
Wells SV6, SV7 and SV9 - SV12 are 2-inch diameter boreholes

- PROPOSED MONITORING WELL LOCATION
- OPTIONAL SHALLOW AND DEEP MONITORING WELL LOCATION
- PROPOSED SOIL BORING LOCATION

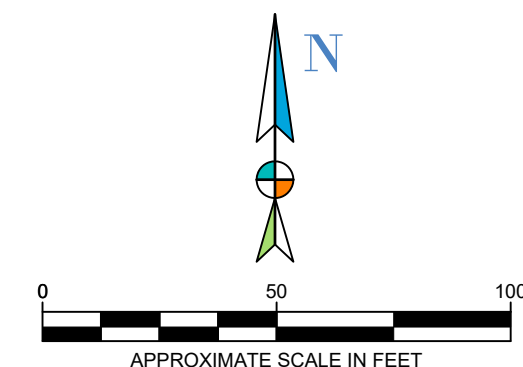


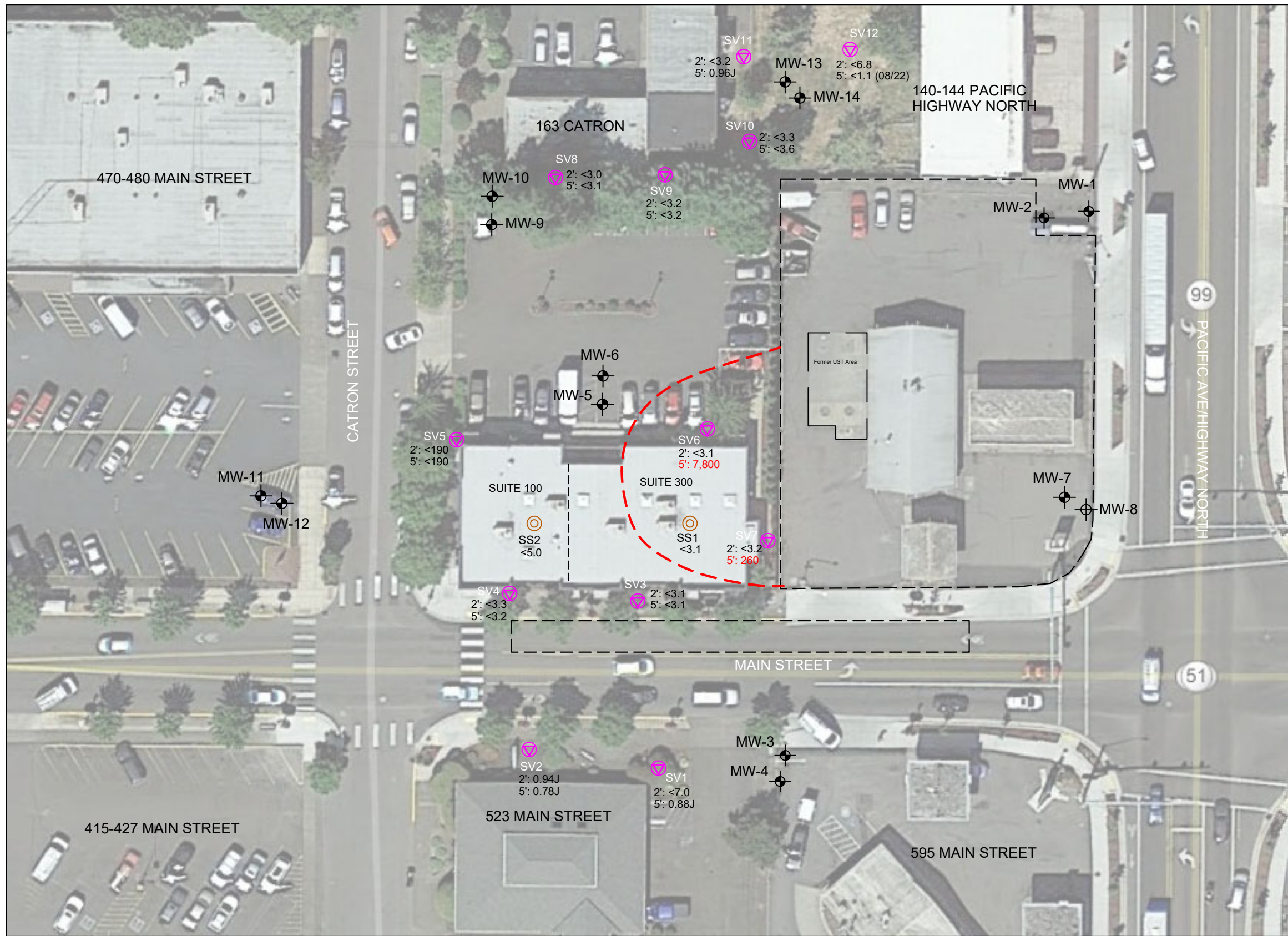


LEGEND

- SV1  SOIL VAPOR WELL LOCATION WITH REPORTED TPH CONCENTRATION AND DEPTH
2': 1,800
5': 3,300
- SS1  SUB-SLAB SAMPLING POINT LOCATION WITH REPORTED TPH CONCENTRATION
900
- MW-1  MONITORING WELL LOCATION AND DESIGNATION
MW-8  DEEP MONITORING WELL LOCATION (NOT INSTALLED)
- ALL 2-FOOT TPH CONCENTRATIONS BELOW RBC
- TPH EXTENT ABOVE RBC (5 FEET)
-  EXCAVATION AREA

Notes:
ALL UNITS REPORTED IN UG/M3 (MICROGRAMS PER CUBIC METER)
NON DETECT: LESS THAN REPORTING LIMIT
TPH: TOTAL PETROLEUM HYDROCARBONS AS GAS
RBC: RISK BASED CONCENTRATION (TPH= 58,000 UG/M3)
NA: NOT AVAILABLE
NS: NOT SAMPLED





LEGEND

SV1 SOIL VAPOR WELL LOCATION WITH REPORTED BENZENE CONCENTRATION AND DEPTH
2': 1.6
5': 3.8

SS1 SUB-SLAB SAMPLING POINT LOCATION WITH REPORTED BENZENE CONCENTRATION
2.0

MW-1 MONITORING WELL LOCATION AND DESIGNATION

MW-8 DEEP MONITORING WELL LOCATION (NOT INSTALLED)

ALL 2-FOOT BENZENE CONCENTRATIONS BELOW RBC

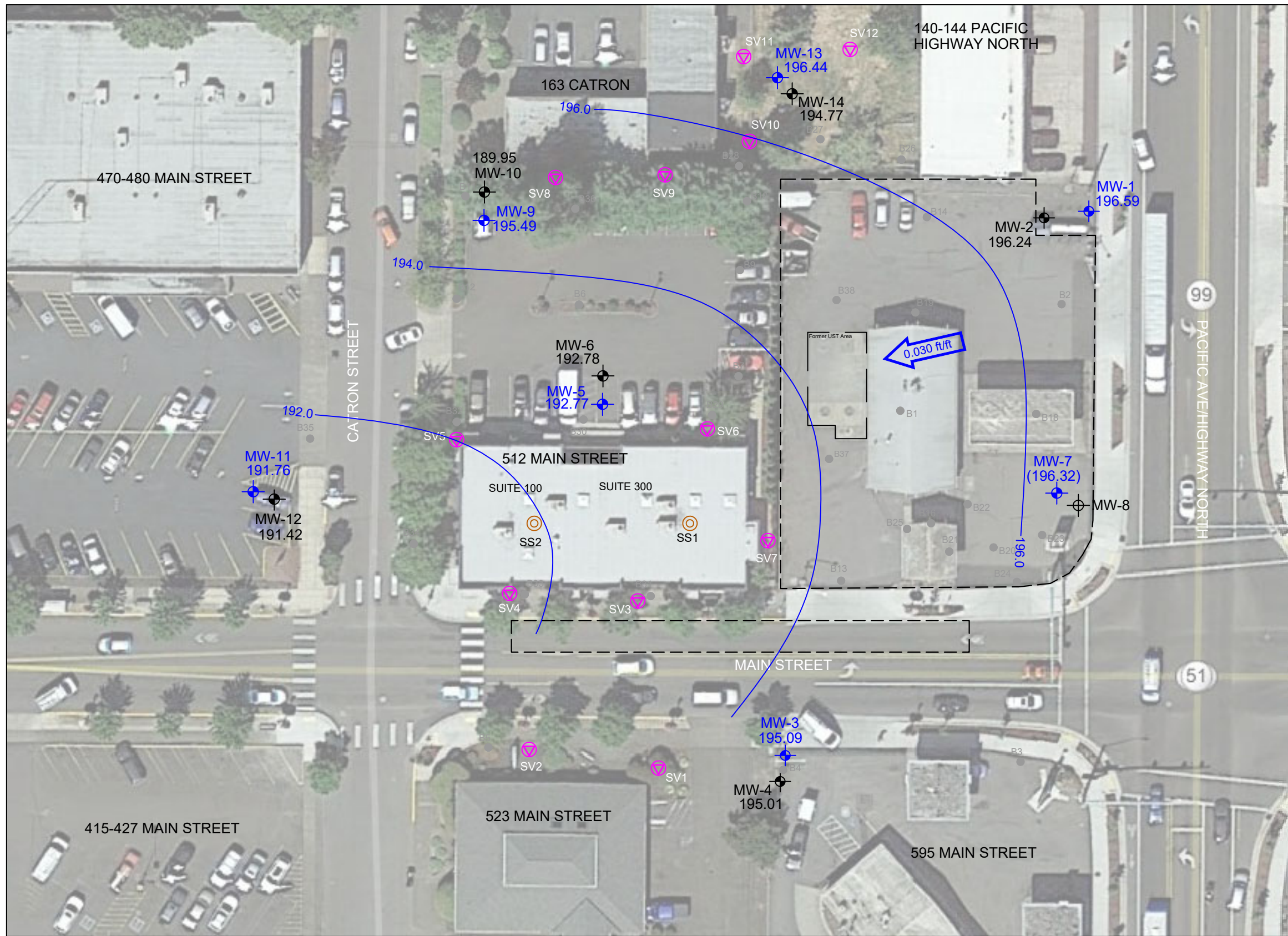
BENZENE EXTENT ABOVE RBC (5 FEET)

EXCAVATION AREA

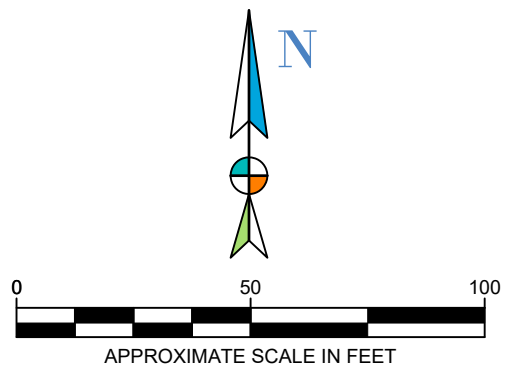
Notes:
ALL UNITS REPORTED IN UG/M3 (MICROGRAMS PER CUBIC METER)
NON DETECT: LESS THAN REPORTING LIMIT
RBC: RISK BASED CONCENTRATION (BENZENE = 52 UG/M3)
NA: NOT AVAILABLE
NS: NOT SAMPLED

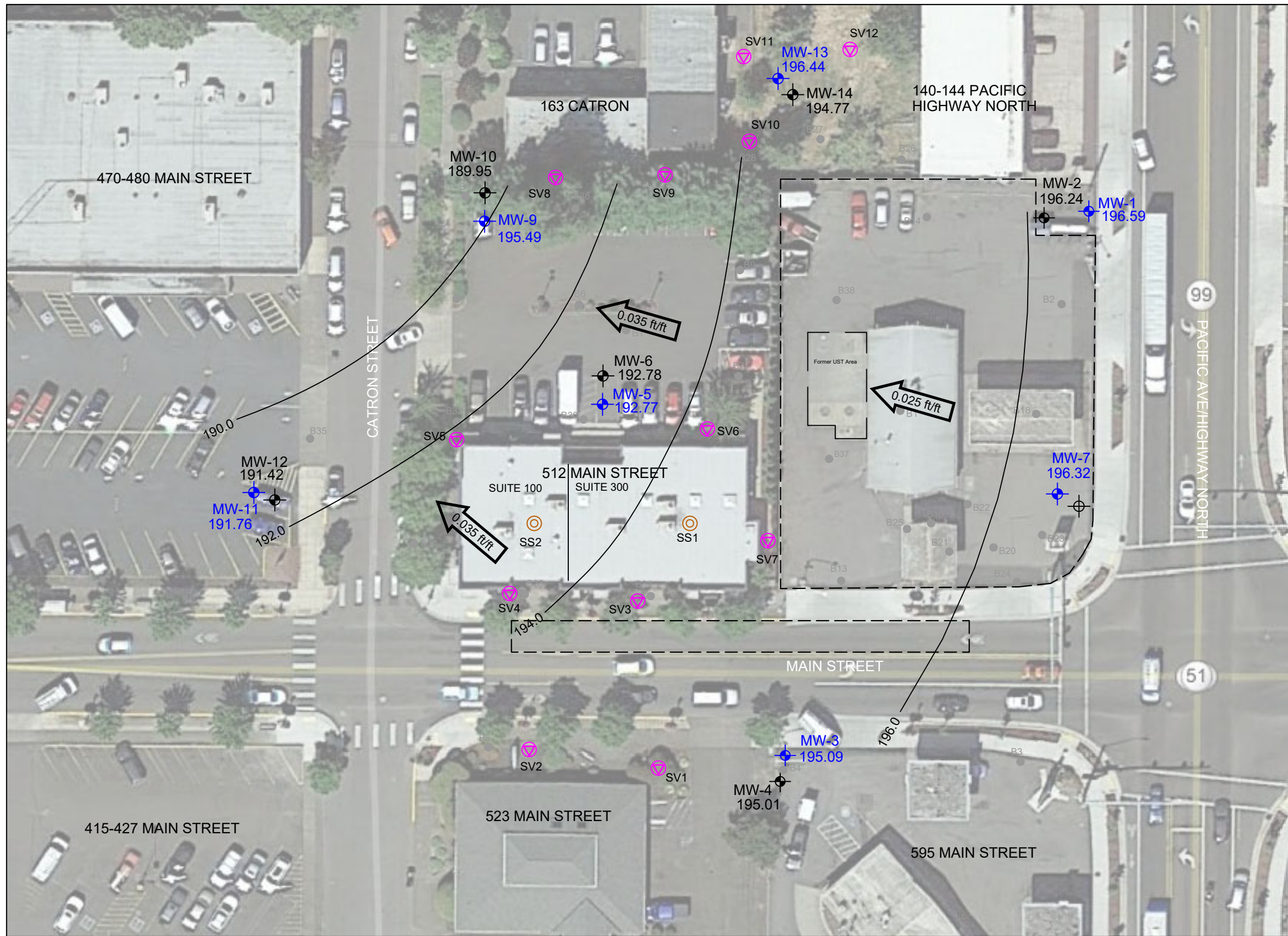
N

0 50 100
APPROXIMATE SCALE IN FEET

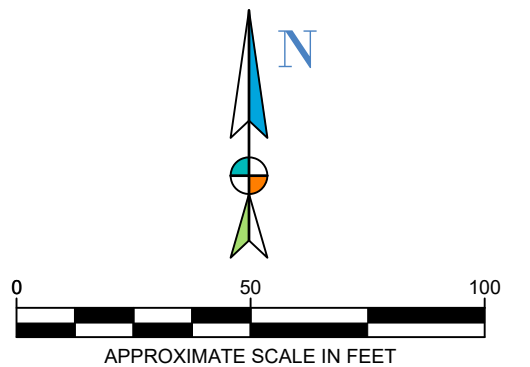


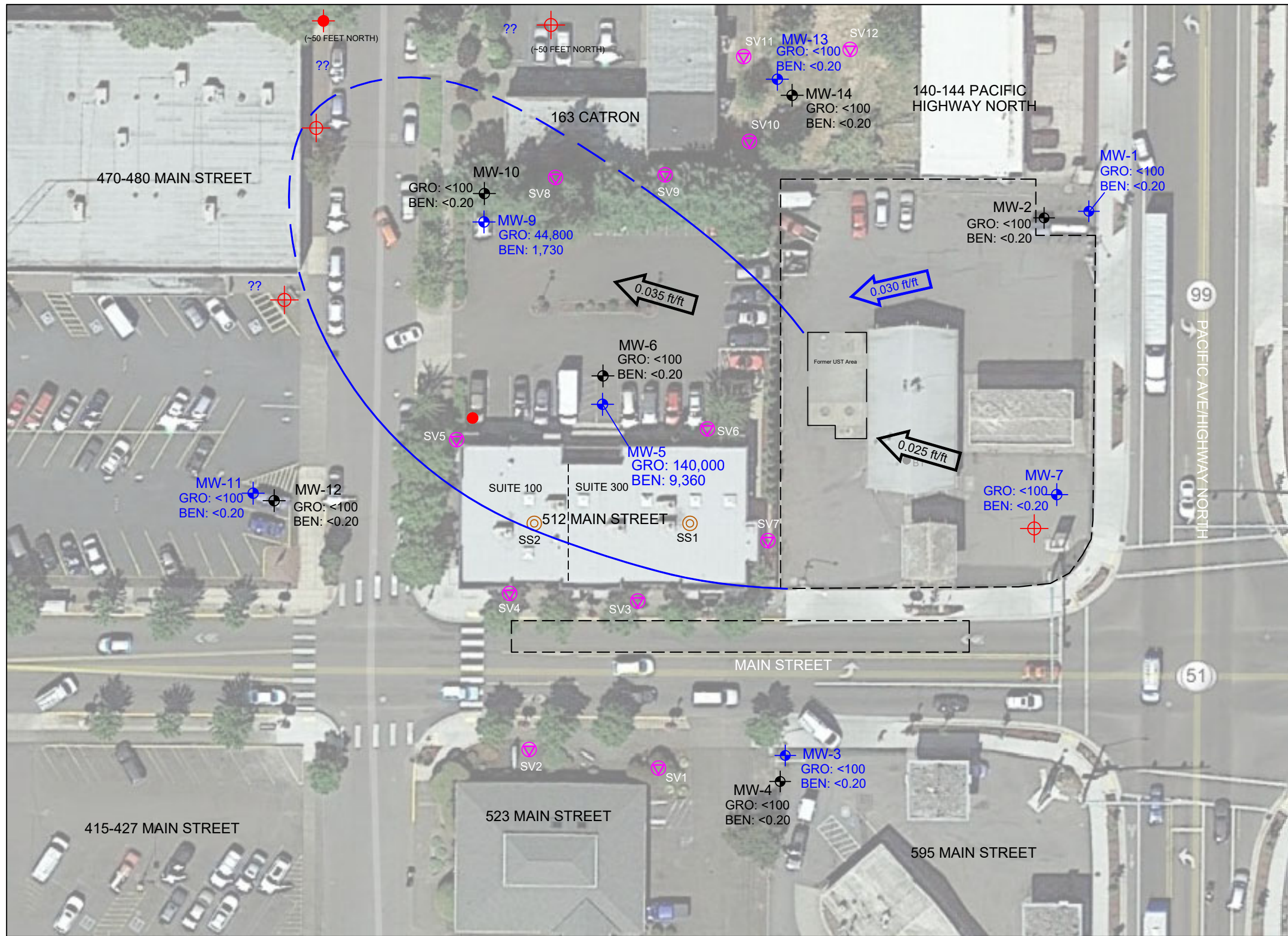
- ### LEGEND
- MW-1 193.93 SHALLOW MONITORING WELL LOCATION, DESIGNATION AND CALCULATED GROUNDWATER ELEVATION (NAVD88)
 - MW-2 197.47 DEEP MONITORING WELL LOCATION, DESIGNATION AND CALCULATED GROUNDWATER ELEVATION (NAVD88)
 - MW-8 DEEP MONITORING WELL LOCATION (NOT INSTALLED)
 - SHALLOW GROUNDWATER ELEVATION CONTOUR LINE
 - SHALLOW GROUNDWATER FLOW DIRECTION AND GRADIENT
 - EXCAVATION AREA
 - B6 SOIL BORING LOCATION AND DESIGNATION
 - SV1 SOIL VAPOR WELL LOCATION AND DESIGNATION
 - SS1 SUB-SLAB SAMPLING POINT LOCATION AND DESIGNATION





- LEGEND**
- MW-2 197.47 DEEP MONITORING WELL LOCATION, DESIGNATION AND CALCULATED GROUNDWATER ELEVATION (NAVD88)
 - MW-1 193.93 SHALLOW MONITORING WELL LOCATION, DESIGNATION AND CALCULATED GROUNDWATER ELEVATION (NAVD88)
 - MW-8 DEEP MONITORING WELL LOCATION (NOT INSTALLED)
 - DEEP GROUNDWATER ELEVATION CONTOUR LINE
 - DEEP GROUNDWATER FLOW DIRECTION AND GRADIENT
 - EXCAVATION AREA
 - B6 SOIL BORING LOCATION AND DESIGNATION
 - SV1 SOIL VAPOR WELL LOCATION AND DESIGNATION
 - SS1 SUB-SLAB SAMPLING POINT LOCATION AND DESIGNATION





LEGEND

MW-5 90,000 SHALLOW MONITORING WELL LOCATION AND TPH/BENZENE CONCENTRATION

MW-6 427 DEEP MONITORING WELL LOCATION AND TPH/BENZENE CONCENTRATION

0.018 ft/ft SHALLOW GROUNDWATER FLOW DIRECTION AND GRADIENT

0.007 ft/ft DEEP GROUNDWATER FLOW DIRECTION AND GRADIENT

EXCAVATION AREA

APPROXIMATE EXTENT OF GRO AND BENZENE IMPACT

SV1 SOIL VAPOR WELL LOCATION AND DESIGNATION

SS1 SUB-SLAB SAMPLING POINT LOCATION AND DESIGNATION

Notes:

ALL UNITS REPORTED IN UG/L (MICROGRAMS PER LITER)

ND: NON DETECT, <100 GRO/<0.2 BENZENE (LESS THAN REPORTING LIMIT)

GRO: GASOLINE RANGE ORGANICS

GROUNDWATER SAMPLES COLLECTED ON 14-15 JUNE 2023.

PROPOSED MONITORING WELL LOCATION

OPTIONAL SHALLOW AND DEEP MONITORING WELL LOCATION

PROPOSED SOIL BORING LOCATION

APPROXIMATE SCALE IN FEET

TABLES

TABLE 1
SUMMARY OF WELL CONTRUCTION DETAILS
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Well ID	Date Installed	Well Elevation (feet NAVD88)	Well Casing Diameter (inches)	Auger/Probe Rod Diameter (inches)	Total Depth of Boring (Feet bsg)	Total Depth of Well (Feet btoc)	Screen Interval (Feet bsg)	Filter Pack Interval (Feet bsg)	Bentonite Seal (Feet bsg)
MW-1	06/23/2021	201.83	2	4.5	15	15	5 - 15	4 - 15	1 - 4
MW-2	06/23/2021	201.73	2	4.5	35	20	20 - 35	18.5 - 35	1 - 18.5
MW-3	06/23/2021	200.19	2	4.5	15	15	5 - 15	4 - 15	1 - 4
MW-4	06/23/2021	200.30	2	4.5	25	25	20 - 25	19 - 25	1 - 19
MW-5	04/25/2022	200.40	2	4.5	15	15	5 - 15	4 - 15	1 - 4
MW-6	04/25/2022	200.13	2	4.5	34	34	19 - 34	18 - 34	1 - 18
MW-7	12/02/2022	201.20	2	4.0	15	15	5 - 15	4 - 15	1 - 4
MW-9	11/30/2022	200.75	2	4.0	15	15	5 - 15	4 - 15	1 - 4
MW-10	11/30/2022	200.86	2	4.0	35	35	20 - 35	19 - 35	1 - 19
MW-11	12/01/2022	200.44	2	4.0	15	15	5 - 15	4 - 15	1 - 4
MW-12	12/01/2022	200.57	2	4.0	35	35	20 - 35	19 - 35	1 - 19
MW-13	12/02/2022	200.78	2	4.0	15	15	5 - 15	4 - 15	1 - 4
MW-14	12/02/2022	200.52	2	4.0	33	33	18 - 33	17 - 33	1 - 17

Notes:

bsg Below surface grade.

btoc Below top of casing.

NAVD88 North American Vertical Datum 88

MW-1 through MW-6 Well elevations surveyed on 03 May 2022 by Ag Geospatial NW, LLC.

MW-7 and MW-9 through MW-14 Well elevations surveyed on 13 December 2022 by Ag Geospatial NW, LLC.

112 Pacific Highway North, Monmouth, Oregon

[illegible]

TABLE 2
ANALYTICAL RESULTS OF SOIL SAMPLES - SOIL BORINGS
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID	Depth bsg (Feet)	Date	NWTPH Methods/8260D: milligrams per kilogram (mg/kg)													
			NWTPH-gx	NWTPH-dx		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	EDB	EDC	Isopropylbenzene	1,2,4-TMB	1,3,5-TMB
				Diesel	Oil											
B5-8	8	04/22/21	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B5-14	14	04/22/21	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B6-9	9	04/14/21	177	ND	ND	2.94	13	2.32	15	ND	0.719	ND	ND	0.139	4.86	1.28
B6-12	12	04/14/21	314	ND	ND	3.52	16.1	3.99	27.2	ND	1.45	ND	ND	0.299	10.2	2.67
B6-14	14	04/14/21	ND	ND	ND	0.0417	0.277	0.0805	0.453	ND	ND	ND	ND	ND	0.194	ND
B7-3	3	04/15/21	ND	-	-	0.0119	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7-5	5	04/15/21	1,080	-	-	14	53.3	10.5	94.2	ND	9.47	ND	ND	ND	40	9.91
B7-7	7	04/15/21	883	-	-	17.1	64.5	14.7	84.7	ND	4.83	ND	ND	0.961	25.6	6.69
B7-9	9	04/15/21	433	-	-	6.23	20.8	5.6	33.9	ND	2.36	ND	ND	0.469	13.9	3.9
B7-12	12	04/15/21	7,140	-	-	136	610.0	127.0	738.0	ND	82.4	ND	ND	11.7	190	91.8
B7-14	14	04/15/21	28.6	-	-	0.183	1.160	0.35	2.16	ND	0.132	ND	ND	ND	0.912	0.248
B8-3	3	04/15/21	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8-7	7	04/15/21	623	-	-	9.49	38.5	9.12	50.1	ND	ND	ND	ND	ND	17.6	5.28
B8-9	9	04/15/21	166	-	-	4.15	2.11	-	13.9	ND	0.741	ND	ND	0.128	4.61	1.19
B8-14	14	04/15/21	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9-3	3	04/15/21	ND	-	-	0.017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9-5	5	04/15/21	17.5	-	-	1.1	1.97	0.191	1.02	ND	ND	ND	ND	ND	0.127	ND
B9-7	7	04/15/21	10.9	-	-	0.665	1.15	0.133	8.29	ND	ND	ND	ND	ND	0.125	0.0401
B9-12	12	04/15/21	145	-	-	2.34	7.98	1.76	10.5	ND	ND	ND	ND	ND	4.3	1.12
B9-14	14	04/15/21	6.3	-	-	0.0411	0.200	0.07	0.38	ND	ND	ND	ND	ND	0.18	0.0531

112 Pacific Highway North, Monmouth, Oregon

[illegible]

TABLE 2
ANALYTICAL RESULTS OF SOIL SAMPLES - SOIL BORINGS
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID	Depth bsg (Feet)	Date	NWTPH Methods/8260D: milligrams per kilogram (mg/kg)													
			NWTPH-gx	NWTPH-dx		Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Naph- thalene	EDB	EDC	Isopropyl- benzene	1,2,4- TMB	1,3,5- TMB
				Diesel	Oil											
B16-4	4	04/17/21	No Recovery													
B16-9	9	04/17/21	ND													
B16-13	13	04/17/21	Free Product Encountered													
B16-14	14	04/17/21	22.7	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
B17-2	2	04/17/21	Refusal													
B18-6	6	04/20/21	ND	ND	ND	0.0191	0.0697	0.0341	0.2243	ND	ND	ND	ND	ND	0.200	ND
B18-8	8	04/20/21	1,020	-	-	8.56	54.1	14.9	94.7	ND	5.13	ND	ND	1.15	38.3	10.2
B18-14	14	04/20/21	ND	-	-	0.0192	0.117	ND	0.223	ND	ND	ND	ND	ND	0.109	ND
B19-7	7	04/21/21	172	-	-	3.89	11.3	2.35	14	ND	0.418	ND	ND	0.139	3.96	1.11
B19-9	9	04/21/21	11.7	ND	ND	0.579	1.33	0.119	0.448	ND	ND	ND	ND	ND	ND	ND
B19-11	11	04/21/21	15.8	-	-	0.28	1.17	0.237	1.24	ND	ND	ND	ND	ND	0.207	0.0771
B19-14	14	04/21/21	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B20-5	5	04/21/21	ND	ND	6,730	5.41	4.48	ND	ND	ND	ND	ND	ND	ND	ND	ND
B21-5	5	04/21/21	ND	ND	2,720	2.84	0.709	ND	ND	ND	ND	ND	ND	ND	ND	ND
B21-14	14	04/21/21	140	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B22-5	5	04/21/21	4.68	-	-	0.376	0.421	0.0243	0.125	ND	ND	ND	ND	ND	ND	ND
B22-10	10	04/21/21	272	-	-	0.79	4.36	1.27	7.33	ND	ND	ND	ND	ND	2.87	ND
B22-14	14	04/21/21	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B23-10	10	04/21/21	21.3	-	-	ND	DN	ND	ND	ND	ND	ND	ND	ND	ND	ND
B23-14	14	04/21/21	69.3	-	-	ND	0.569	0.539	4.61	ND	0.61	ND	ND	ND	3.62	1.02

TABLE 2
ANALYTICAL RESULTS OF SOIL SAMPLES - SOIL BORINGS
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID	Depth bsg (Feet)	Date	NWTPH Methods/8260D: milligrams per kilogram (mg/kg)													
			NWTPH-gx	NWTPH-dx		Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Naph- thalene	EDB	EDC	Isopropyl- benzene	1,2,4- TMB	1,3,5- TMB
				Diesel	Oil											
B24-10	10	04/21/21	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B24-14	14	04/21/21	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B25-10	10	04/21/21	38.1	-	-	0.485	3.43	0.975	2.72	ND	ND	ND	ND	ND	0.698	ND
B25-14	14	04/21/21	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B26-10	10	04/21/21	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B26-14	14	04/21/21	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B27-8	8	04/21/21	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B27-10	10	04/21/21	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B27-14	14	04/21/21	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B28-6	6	04/21/21	20.2	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B28-11	11	04/21/21	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B28-14	14	04/21/21	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B29-6	6	04/21/21	373	-	-	10.4	24.8	4.83	32.4	ND	1.56	ND	ND	0.317	11.3	2.96
B29-11	11	04/21/21	23.3	-	-	0.51	1.28	0.27	1.65	ND	ND	ND	ND	ND	0.626	0.188
B29-14	14	04/21/21	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B30-6	6	04/21/21	ND	-	-	0.0347	0.0684	ND	ND	ND	ND	ND	ND	ND	ND	ND
B30-12	12	04/21/21	417	-	-	8.13	25.2	6.87	34.9	ND	2.77	ND	ND	0.52	4.69	13.5
B30-14	14	04/21/21	292	-	-	4.87	17.4	3.96	25.9	ND	1.31	ND	ND	0.269	9.21	2.5

112 Pacific Highway North, Monmouth, Oregon

[illegible]

TABLE 2
ANALYTICAL RESULTS OF SOIL SAMPLES - SOIL BORINGS
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID	Depth bsg (Feet)	Date	NWTPH Methods/8260D: milligrams per kilogram (mg/kg)													
			NWTPH-gx	NWTPH-dx		Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Naph- thalene	EDB	EDC	Isopropyl- benzene	1,2,4- TMB	1,3,5- TMB
				Diesel	Oil											
MW6-3	3	04/25/22	26.3	-	-	2.270	0.352	0.512	3.670	ND	ND	ND	ND	ND	0.644	0.158
MW6-6	6	04/25/22	225	-	-	4.450	15.500	3.080	19.000	ND	0.783	ND	ND	ND	5.650	1.520
MW6-9	9	04/25/22	459	-	-	6.500	25.900	5.990	36.700	ND	1.670	ND	ND	0.439	13.700	3.720
MW6-12	12	04/25/22	495	-	-	7.430	28.300	6.440	39.800	ND	1.870	ND	ND	ND	14.600	3.970
MW6-12D	12	04/25/22	497	-	-	7.580	28.800	6.550	40.000	ND	1.920	ND	ND	ND	14.700	4.100
MW6-15	15	04/25/22	403	-	-	7.380	25.700	5.360	32.800	ND	ND	ND	ND	ND	11.600	3.170
MW6-18	18	04/25/22	12.3	-	-	2.630	0.277	0.290	0.316	ND	ND	ND	ND	ND	0.151	ND
MW6-20	20	04/25/22	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW6-25	25	04/25/22	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW6-30	30	04/25/22	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SV1-3	3	04/25/22	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SV1-5	5	04/25/22	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SV2-3	3	04/25/22	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SV2-5	5	04/25/22	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SV3-3	3	04/25/22	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SV3-5	5	04/25/22	ND	-	-	0.123	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SV4-3	3	04/25/22	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SV4-5	5	04/25/22	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SV5-3	3	04/25/22	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SV5-5	5	04/25/22	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SV6-3	3	04/24/22	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SV6-5	5	04/24/22	828	-	-	2.060	7.680	2.670	50.000	ND	4.020	ND	ND	0.505	34.100	10.200

112 Pacific Highway North, Monmouth, Oregon

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112 Pacific Highway North, Monmouth, Oregon

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TABLE 2
ANALYTICAL RESULTS OF SOIL SAMPLES - SOIL BORINGS
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID	Depth bsg (Feet)	Date	NWTPH Methods/8260D: milligrams per kilogram (mg/kg)													
			NWTPH-gx	NWTPH-dx		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	EDB	EDC	Isopropyl-benzene	1,2,4-TMB	1,3,5-TMB
				Diesel	Oil											
RBCs	Soil Ingestion, Dermal Contact, and Inhalation	Res.	1,200	1,100		8.2	5,800	34	1,400	250	5.3	0.16	3.6	3,500	430	430
		Urban Res.	2,500	2,200		24.0	12,000	110	2,900	730	25	0.53	12.0	7,000	860	860
		Occ.	20,000	14,000		37	88,000	150	25,000	1,100	23	0.73	16.0	57,000	6,900	6,900
		Co. Worker	9,700	4,600		380	28,000	1,700	20,000	12,000	580	9.0	200	27,000	2,900	2900
		Ex. Worker	>Max	>Max		11,000	770,000	49,000	560,000	320,000	16000	250	5600	750,000	81,000	81,000
	Volatili-zation to Outdoor Air	Res.	5,900	>Max		11.0	-	36	-	340	6.4	0.15	3.4	-	-	-
		Urban Res.	5,900	>Max		27.0	-	85	-	810	15	0.35	8.1	-	-	-
		Occ.	69,000	>Max		50	-	160	-	1,500	83	0.65	15.0	-	-	-
	Vapor Intrusion into Buildings	Res.	94	>Max		0.16	-	1.30	160	8.5	6.4	0.012	0.077	-	140	98
		Urban Res.	94	>Max		0.36	-	3.00	160	20	15	0.028	0.18	-	140	98
		Occ.	>Max	>Max		2.10	-	17	-	110	83	0.160	1.0	-	-	-
	Leaching to Ground Water	Res.	31	9,500		0.023	84	0.22	23	0.11	0.077	0.00012	0.0028	96	10	11
		Urban Res.	31	9,500		0.10	340	0.94	87	0.50	0.37	0.00056	0.0130	-	43	45
		Occ.	130	>Max		0.10	490	0.90	100	0.54	0.34	0.00056	0.0130	-	48	53

Notes:

mg/kg: milligrams per kilogram, or parts per million (ppm)
NWTPH-gx: Northwest Total Petroleum Hydrocarbons - Gasoline Range Hydrocarbons
NWTPH-dx: Northwest Total Petroleum Hydrocarbons - Diesel and Oil Range Hydrocarbons
MTBE Methyl tertiary-butyl ether
EDB: 1,2-dibromoethane
EDC 1,2-dichloroethane
1,2,4-TMB: 1- Trimethylbenzene
1,3,5-TMB: 1- Trimethylbenzene
-: Not analyzed for constituent
RBCs: Risk Based Concentrations for Direct Contact (DC)
Res./Occ. Residential/Occupational
Co./Ex. Construction/Excavation

TABLE 3
ANALYTICAL RESULTS OF SOIL SAMPLES - UST REMOVAL AND SOIL EXCAVATION
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID	Depth bsg (Feet)	Date	NWTPH Methods/8260D: milligrams per kilogram (mg/kg)													
			NWTPH-gx	NWTPH-dx		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	EDB	EDC	Isopropylbenzene	1,2,4-TMB	1,3,5-TMB
				Diesel	Oil											
TK-1SE@11'	11	05/13/21	623	ND	ND	3.46	31.20	9.82	62.20	ND	3.58	ND	ND	0.702	26.50	7.18
TK-1NE@10'	10	05/13/21	139	ND	ND	2.40	7.18	1.71	11.50	ND	0.652	ND	ND	0.134	5.39	1.40
TK-2NW@10'	10	05/13/21	113	ND	ND	4.41	9.40	1.22	7.82	ND	0.417	ND	ND	0.049	1.99	0.48
TK-2SW@10	10	05/13/21	567	ND	ND	4.31	24.40	7.52	46.60	ND	5.81	ND	ND	0.711	23.7	7.74
TK-Southwall@10'	10	05/13/21	130	ND	ND	8.59	16.10	1.19	7.60	ND	0.547	ND	ND	ND	0.607	0.13
TK-Northwall@10'	10	05/13/21	241	ND	ND	1.31	11.50	3.67	23.20	ND	1.25	ND	ND	0.25	10.3	2.75
P1-2	2	05/13/21	ND	ND	ND	0.197	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
P2-2	2	05/13/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
P3-2	2	05/13/21	1060	43.8	ND	9.57	44.10	15.50	81.10	ND	7.59	ND	ND	1.23	37.20	12.20
P4-2	2	05/13/21	ND	ND	ND	0.523	0.697	ND	ND	ND	ND	ND	ND	ND	ND	ND
P5-2	2	05/13/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
P6-2	2	05/13/21	ND	ND	ND	0.167	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
P7-2	2	05/13/21	ND	ND	ND	0.327	0.069	ND	0.458	ND	ND	ND	ND	ND	ND	ND
D1-2	2	05/13/21	3.84	ND	68.7	0.041	ND	0.019	0.053	ND	ND	ND	ND	ND	0.114	0.041
D2-2	2	05/13/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.025	ND
D3-2	2	05/13/21	30.3	ND	ND	0.045	0.086	0.027	0.209	ND	0.088	ND	ND	ND	0.242	0.083
D4-2	2	05/13/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
D5-2	2	05/13/21	30.7	ND	ND	0.450	0.967	0.210	1.990	ND	0.171	ND	ND	ND	1.170	0.323
D6-2	2	05/13/21	ND	ND	ND	0.194	0.247	0.016	0.058	ND	ND	ND	ND	ND	ND	ND

TABLE 3
ANALYTICAL RESULTS OF SOIL SAMPLES - UST REMOVAL AND SOIL EXCAVATION
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

[illegible]

112 Pacific Highway North, Monmouth, Oregon

[illegible]

TABLE 3
ANALYTICAL RESULTS OF SOIL SAMPLES - UST REMOVAL AND SOIL EXCAVATION
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID	Depth bsg (Feet)	Date	NWTPH Methods/8260D: milligrams per kilogram (mg/kg)													
			NWTPH-gx	NWTPH-dx		Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Naph- thalene	EDB	EDC	Isopropyl- benzene	1,2,4- TMB	1,3,5- TMB
				Diesel	Oil											
EX1-3	3	05/21/21	17.8	ND	ND	1.220	2.190	0.248	1.230	ND	ND	ND	ND	ND	0.162	ND
EX2-3	3	05/21/21	1,780	ND	ND	1.690	88.200	23.900	142.000	ND	6.720	ND	ND	1.730	58.700	16.600
EX3-3	3	05/21/21	ND	ND	53.9	0.898	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EX4-10	10	05/21/21	809	ND	ND	7.010	41.000	10.900	69.100	ND	3.130	ND	ND	0.816	26.900	7.150
EX5-5	5	05/21/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EX6-7	7	06/02/21	ND	-	-	0.050	0.123	ND	0.329	ND	ND	ND	ND	ND	0.179	ND
EX7-5	5	06/02/21	ND	-	-	0.048	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EX8-5	5	06/05/21	746	-	-	7.690	33.900	10.300	60.400	ND	4.150	ND	ND	ND	24.000	6.720
EX9-7	7	06/16/21	34.6	-	-	0.522	1.720	0.403	2.510	ND	0.210	ND	ND	ND	1.270	0.351

TABLE 3
ANALYTICAL RESULTS OF SOIL SAMPLES - UST REMOVAL AND SOIL EXCAVATION
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID	Depth bsg (Feet)	Date	NWTPH Methods/8260D: milligrams per kilogram (mg/kg)													
			NWTPH-gx	NWTPH-dx		Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Naph- thalene	EDB	EDC	Isopropyl- benzene	1,2,4- TMB	1,3,5- TMB
				Diesel	Oil											
RBCs	Soil Ingestion, Dermal Contact, and Inhalation	Res.	1,200	1,100		8.2	5,800	34	1,400	250	5.3	0.16	3.6	3,500	430	430
		Urban Res.	2,500	2,200		24.0	12,000	110	2,900	730	25	0.53	12.0	7,000	860	860
		Occ.	20,000	14,000		37	88,000	150	25,000	1,100	23	0.73	16.0	57,000	6,900	6,900
		Co. Worker	9,700	4,600		380	28,000	1,700	20,000	12,000	580	9.0	200	27,000	2,900	2900
		Ex. Worker	>Max	>Max		11,000	770,000	49,000	560,000	320,000	16000	250	5600	750,000	81,000	81,000
	Volatili- zation to Outdoor Air	Res.	5,900	>Max		11.0	-	36	-	340	6.4	0.15	3.4	-	-	-
		Urban Res.	5,900	>Max		27.0	-	85	-	810	15	0.35	8.1	-	-	-
		Occ.	69,000	>Max		50	-	160	-	1,500	83	0.65	15.0	-	-	-
	Vapor Intrusion into Buildings	Res.	94	>Max		0.16	-	1.30	160	8.5	6.4	0.012	0.077	-	140	98
		Urban Res.	94	>Max		0.36	-	3.00	160	20	15	0.028	0.18	-	140	98
		Occ.	>Max	>Max		2.10	-	17	-	110	83	0.160	1.0	-	-	-
	Leaching to Ground Water	Res.	31	9,500		0.023	84	0.22	23	0.11	0.077	0.00012	0.0028	96	10	11
		Urban Res.	31	9,500		0.10	340	0.94	87	0.50	0.37	0.00056	0.0130	-	43	45
		Occ.	130	>Max		0.10	490	0.90	100	0.54	0.34	0.00056	0.0130	-	48	53

Notes:

mg/kg: milligrams per kilogram, or parts per million (ppm)
NWTPH-gx: Northwest Total Petroleum Hydrocarbons - Gasoline Range Hydrocarbons
NWTPH-dx: Northwest Total Petroleum Hydrocarbons - Diesel and Oil Range Hydrocarbons
MTBE: Methyl tertiary-butyl ether
EDB: 1,2-dibromoethane
EDC: 1,2-dichloroethane
1,2,4-TMB: 4- Trimethylbenzene
1,3,5-TMB: 4- Trimethylbenzene
-: Not analyzed for constituent
RBCs: Risk Based Concentrations for Direct Contact (DC)
Res./Occ. Residential/Occupational

TABLE 4
ANALYTICAL RESULTS OF SOIL VAPOR SAMPLES (SUMMA CANS)
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID	Date	TO15: micrograms per cubic meter (ug/m³)										
		Generic Gasoline (TPH)	Benzene	Toluene	Ethylbenzene	Xylenes	1,2,4-TMB	1,3,5-TMB	Naphthalene	EDB	EDC	1,1-DFA
Sub-Slab Samples												
SS1	05/03/22	900	<1.2	2.0J	<1.2	2.2J	<2.2	<1.6	<1.4	<1.7	<1.4	56
	08/30/22	1,200	<1.1	6.6	1.4J	6.8	<2.0	<1.5	<1.3	<1.6	<1.3	<3.4
	12/13/22	<380	<2.9	3.9	1.3J	5.7	<4.5	<4.5	<9.6	<7.1	<3.7	13
	06/13/23	<400	<3.1	1.9J	1.1J	3.6J	7.2	5.6	2.7J	<7.4	<3.9	<10
SS2	05/03/22	<8,000	<22	<13	<24	<25	<41	<31	<26	<32	<26	15,000
	08/30/22	1,100	<1.1	7.3	1.6J	8.7	<2.0	<1.5	<1.3	<1.6	<1.3	59
	12/13/22	<390	<3.0	3.1J	1.3J	5.0	<4.6	<4.6	<9.9	<7.3	<3.8	<10
	06/13/23	<630	<5.0	2.0J	<6.7	<13	<7.6	<7.6	<16	<12	<6.3	680
Soil Vapor Samples												
SV1-2'	05/03/22	2,500	<1.1	0.90J	<1.2	<1.3	4.5J	1.9J	<1.3	<1.6	<1.3	<3.4
	08/29/22	1,800	1.6J	6.8	2.0J	11.9	3.8J	2.5J	<1.4	<1.7	<1.4	68
	12/13/22	<370	<2.9	2.3J	<4.0	2.4J	<4.5	<4.5	<9.6	<7.0	<3.7	<9.9
	06/12/23	<900	<7.0	7.1J	<9.6	4.8J	<11	<11	28	<17	<8.9	1,800
SV1-5'	05/03/22 ¹	-	-	-	-	-	-	-	-	-	-	-
	08/29/22	3,300	3.8	19	5.7	35	3.8J	2.0J	<1.3	<1.6	<1.4	53
	12/13/22 ¹	-	-	-	-	-	-	-	-	-	-	-
	06/12/23	530	0.88J	8.8	2.3J	8.0J	<5.4	<5.4	1.8J	<8.5	<4.5	<12
Residential RBCs	RBCair	420	0.36	5,200	1.1	100.0	63	63	0.083	0.0047	0.11	-
	RBCsv	14,000	12	1.7E+05	37	3,500	2,100	2,100	2.8	0.16	3.6	-
	RBCwi	390	2.8	3.6E+04	7.1	780	560	400	11	0.34	4	-
Commercial RBCs	RBCair	1,800	1.6	2.2E+04	4.9	440	260	260	0.36	0.02	0.47	-
	RBCsv	58,000	52	7.3E+05	160	15,000	8,800	8,800	12	0.68	16	-
	RBCwi	1,700	12	1.5E+05	31	3,300	2,400	1,700	50	1.5	18	-

TABLE 4
ANALYTICAL RESULTS OF SOIL VAPOR SAMPLES (SUMMA CANS)
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID	Date	TO15: micrograms per cubic meter (ug/m ³)										
		Generic Gasoline (TPH)	Benzene	Toluene	Ethylbenzene	Xylenes	1,2,4-TMB	1,3,5-TMB	Naphthalene	EDB	EDC	1,1-DFA
SV2-2'	05/03/22	940	<1.1	2.0J	<1.1	5.9	<2.0	<1.5	<1.2	<1.5	<1.3	<3.3
	08/29/22	2,200	2.6J	13	3.6J	22.5	2.8J	<1.7	<1.4	<1.7	<1.4	<3.8
	12/13/22	<390	<3.0	2.2J	<4.1	1.8J	<4.6	<4.6	<9.9	<7.3	<3.8	<10
	06/12/23	<440	0.94J	4.4J	<4.7	4.9J	<5.3	<5.3	<9.9	<8.3	<4.4	160
SV2-5'	05/03/22 ¹	-	-	-	-	-	-	-	-	-	-	-
	08/29/22	2,000	2.3J	10	4.1J	25.3	4.5J	2.0J	5.3J	<1.6	<1.4	<3.6
	12/13/22 ¹	-	-	-	-	-	-	-	-	-	-	-
	06/12/23	450	0.78J	4.1J	<4.8	4.4J	<5.4	<5.4	<12	<8.4	<4.4	<12
SV3-2'	05/03/22	<220000	<260	<220	<840	<600	<680	<930	<1200	<960	<690	1,500,000
	08/30/22	2,100	1.7J	10	2.8J	16.3	4.3J	3.0J	<1.4	<1.7	<1.4	<3.6
	12/13/22	<360	<2.8	1.9J	<3.8	2.2J	<4.3	<4.3	<9.2	<6.8	<3.6	<9.5
	06/13/23	<400	<3.1	2.0J	<4.2	<8.5	<4.8	<4.8	5.0J	<7.5	<3.9	<10
SV3-5'	05/03/22 ¹	-	-	-	-	-	-	-	-	-	-	-
	08/30/22	2,000,000	930	160	<240	780	<420	<320	<270	<330	<270	<710
	12/13/22 ¹	-	-	-	-	-	-	-	-	-	-	-
	06/13/23	1,300	<3.1	1.9J	<4.2	<8.5	<4.8	<4.8	<10	<7.5	<4.0	<10
SV4-2'	05/03/22	1,300	<1.1	<0.66	<1.2	9.5	5.5	11	<1.3	<1.6	<1.3	440
	08/30/22	3,900	2.0J	15	3.3J	17.0	2.7J	<1.6	<1.4	<1.7	<1.4	<3.6
	12/13/22	<380	<3.0	2.2J	<4.0	2.4J	<4.6	<4.6	<9.8	<7.2	<3.8	<10
	06/13/23	<420	<3.3	1.4J	<4.4	<8.9	<5.0	<5.0	<11	<7.9	<4.1	<11
SV4-5'	05/03/22 ¹	-	-	-	-	-	-	-	-	-	-	-
	08/30/22	1,800	1.3J	8.1	2.5J	14.0	2.8J	<1.5	<1.3	<1.6	<1.3	25
	12/13/22 ¹	-	-	-	-	-	-	-	-	-	-	-
	06/13/23	<410	<3.2	1.5J	<4.3	<8.6	<4.9	<4.9	<10	<7.6	<4.0	<11
Residential RBCs	RBCair	420	0.36	5,200	1.1	100.0	63	63	0.083	0.0047	0.11	-
	RBCsv	14,000	12	1.7E+05	37	3,500	2,100	2,100	2.8	0.16	3.6	-
	RBCwi	390	2.8	3.6E+04	7.1	780	560	400	11	0.34	4	-
Commercial RBCs	RBCair	1,800	1.6	2.2E+04	4.9	440	260	260	0.36	0.02	0.47	-
	RBCsv	58,000	52	7.3E+05	160	15,000	8,800	8,800	12	0.68	16	-
	RBCwi	1,700	12	1.5E+05	31	3,300	2,400	1,700	50	1.5	18	-

TABLE 4
ANALYTICAL RESULTS OF SOIL VAPOR SAMPLES (SUMMA CANS)
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID	Date	TO15: micrograms per cubic meter (ug/m ³)										
		Generic Gasoline (TPH)	Benzene	Toluene	Ethylbenzene	Xylenes	1,2,4-TMB	1,3,5-TMB	Naphthalene	EDB	EDC	1,1-DFA
SV5-2'	05/03/22	530	<1.1	<0.66	<1.2	<1.2	<2.1	<1.5	<1.3	<1.6	<1.3	<3.4
	08/29/22	1,600	1.5J	16	3.2J	16.4	2.2J	<1.6	<1.3	<1.6	<1.3	<3.5
	12/13/22	<390	0.75J	2.5J	<4.1	3.03J	<4.6	<4.6	<9.9	<7.3	<3.8	<10
	06/13/23	<24000	<190	<220	<260	<260	<290	<290	<1200	<460	<240	280,000
SV5-5'	05/03/22	<380	<1.0	0.90J	<1.1	<1.2	<2.0	<1.5	<1.2	<1.5	<1.3	<3.3
	8/29/22 ²	-	-	-	-	-	-	-	-	-	-	-
	12/13/22	<360	<2.8	2.3J	<3.9	2.8J	<4.4	<4.4	<9.3	<6.8	<3.6	<9.6
	06/13/23	<24000	<190	<220	<260	<260	<290	<290	<1200	<450	<240	230,000
SV6-2'	05/03/22	1,100	<1.0	0.73J	<1.1	1.4J	3.3J	5.2	<1.2	<1.4	<1.2	<3.2
	08/30/22	900	1.2J	6.2	1.2J	6.3	<2.0	<1.5	<1.2	<1.5	<1.3	<3.3
	12/13/22	<370	<2.9	1.8J	<4.0	2.4J	<4.5	<4.5	<9.5	<7.0	<3.7	<9.8
	06/13/23	<390	<3.1	3.0J	<4.2	<8.3	<4.7	<4.7	<10	<7.4	<3.9	<10
SV6-5'	05/03/22 ¹	-	-	-	-	-	-	-	-	-	-	-
	08/30/22	16,000,000	130,000	85,000	32,000	215,000	14,000	11,000	<1200	<1500	<1200	<3200
	12/13/22 ¹	-	-	-	-	-	-	-	-	-	-	-
	06/13/23	860,000	7,800	560	4,700	18,000	9,600	8,900	160	<96	<50	<130
SV7-2'	05/03/22	30,000	140	12	2.0J	137	28	64	1.7J	<1.8	<1.5	<4.0
	08/30/22	1,400	1.2J	7.1	2.2J	15.1	9.1	3.4J	<1.3	<1.6	<1.3	<3.4
	12/13/22 ¹	-	-	-	-	-	-	-	-	-	-	-
	06/13/23	<400	<3.2	2.5J	<4.3	2.69J	<4.9	<4.9	<10	<7.6	<4.0	<11
SV7-5'	05/03/22 ¹	-	-	-	-	-	-	-	-	-	-	-
	08/30/22	12,000,000	20,000	1,100J	3,100	67,000	15,000	15,000	<490	<600	<500	<1,300
	12/13/22 ¹	-	-	-	-	-	-	-	-	-	-	-
	06/13/23	70,000	260	41	540	2,320	1,200	1,200	9.8J	<14	<7.6	<20
Residential RBCs	RBCair	420	0.36	5,200	1.1	100.0	63	63	0.083	0.0047	0.11	-
	RBCsv	14,000	12	1.7E+05	37	3,500	2,100	2,100	2.8	0.16	3.6	-
	RBCwi	390	2.8	3.6E+04	7.1	780	560	400	11	0.34	4	-
Commercial RBCs	RBCair	1,800	1.6	2.2E+04	4.9	440	260	260	0.36	0.02	0.47	-
	RBCsv	58,000	52	7.3E+05	160	15,000	8,800	8,800	12	0.68	16	-
	RBCwi	1,700	12	1.5E+05	31	3,300	2,400	1,700	50	1.5	18	-

TABLE 4
ANALYTICAL RESULTS OF SOIL VAPOR SAMPLES (SUMMA CANS)
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID	Date	TO15: micrograms per cubic meter (ug/m ³)										
		Generic Gasoline (TPH)	Benzene	Toluene	Ethylbenzene	Xylenes	1,2,4-TMB	1,3,5-TMB	Naphthalene	EDB	EDC	1,1-DFA
SV8-2'	05/03/22	570	<1.1	1.6J	<1.1	1.2J	<2.0	<1.5	<1.2	<1.5	<1.3	<3.3
	08/29/22	2,200	1.3J	14	2.8J	17.7	2.2J	<1.5	<1.3	<1.6	<1.3	<3.4
	12/13/22	<380	<2.9	2.6J	1.0J	3.70J	<4.5	<4.5	<9.6	<7.1	<3.7	<9.9
	06/13/23	<390	<3.0	5.1J	<4.1	2.3J	<4.7	<4.7	<10	<7.3	<3.8	<10
SV8-5'	05/03/22 ¹	-	-	-	-	-	-	-	-	-	-	-
	08/29/22 ²	-	-	-	-	-	-	-	-	-	-	-
	12/13/22	<390	<3.0	1.9J	<4.1	2.2J	<4.7	<4.7	<10	<7.3	<3.8	<10
	06/13/23	<400	<3.1	4.7J	<4.2	3.05J	<4.8	<4.8	<10	<7.4	<3.9	<10
SV9-2'	05/03/22	<390	<1.1	1.6J	<1.1	<1.2	<2.0	<1.5	<1.2	<1.5	<1.3	<3.3
	08/31/22	450	<1.0	2.8J	<1.1	5.8J	<2.0	<1.5	<1.2	<1.5	<1.3	<3.3
	12/14/22	<390	0.86J	2.1J	<4.1	<4.1	<4.7	<4.7	<10	<7.3	<3.8	<10
	06/12/23	<410	<3.2	<7.5	<4.3	<8.7	<4.9	<4.9	<10	<7.7	<4.0	<11
SV9-5'	05/03/22	4,000	5.1	22	5.8	71	20	13	10	<1.5	<1.3	<3.3
	08/31/22	41,000	<4.4	<2.7	<4.8	<5.3	<8.4	<6.2	<5.3	<6.4	<5.4	<14
	12/14/22	<360	<2.8	1.4J	<3.8	1.4J	<4.3	<4.3	<9.2	<6.7	<3.5	<9.4
	06/12/23	<410	<3.2	<7.5	<4.3	<8.6	<4.9	<4.9	<10	<7.6	<4.0	<11
SV10-2'	05/03/22	2,900	<1.2	9.2	2.1J	16.5	14	5.0J	<1.4	<1.7	<1.4	<3.7
	08/31/22	700	<1.1	2.8J	1.7J	7.2	3.5J	2.6J	<1.4	<1.6	<1.4	<3.6
	12/14/22	<380	<3.0	1.7J	<4.0	<4.0	<4.5	<4.5	<9.7	<7.1	<3.7	85
	06/12/23	<430	<3.3	1.1J	<4.5	<9.1	<5.1	<5.1	<11	<8.0	<4.2	<11
SV10-5'	05/03/22 ¹	-	-	-	-	-	-	-	-	-	-	-
	08/31/22	12,000	<2.7	3.7J	<2.9	5.5J	<5.2	<3.8	<3.2	<4.0	<3.3	<8.6
	12/14/22	<360	<2.8	1.8J	<3.8	1.8J	<4.3	<4.3	<9.1	<6.7	<3.5	<9.4
	06/12/23	<460	<3.6	<8.4	<4.9	<9.7	<5.5	<5.5	<12	<8.6	<4.5	<12
Residential RBCs	RBCair	420	0.36	5,200	1.1	100.0	63	63	0.083	0.0047	0.11	-
	RBCsv	14,000	12	1.7E+05	37	3,500	2,100	2,100	2.8	0.16	3.6	-
	RBCwi	390	2.8	3.6E+04	7.1	780	560	400	11	0.34	4	-
Commercial RBCs	RBCair	1,800	1.6	2.2E+04	4.9	440	260	260	0.36	0.02	0.47	-
	RBCsv	58,000	52	7.3E+05	160	15,000	8,800	8,800	12	0.68	16	-
	RBCwi	1,700	12	1.5E+05	31	3,300	2,400	1,700	50	1.5	18	-

TABLE 4
ANALYTICAL RESULTS OF SOIL VAPOR SAMPLES (SUMMA CANS)
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID	Date	TO15: micrograms per cubic meter (ug/m ³)										
		Generic Gasoline (TPH)	Benzene	Toluene	Ethylbenzene	Xylenes	1,2,4-TMB	1,3,5-TMB	Naphthalene	EDB	EDC	1,1-DFA
SV11-2'	05/03/22	2,100	<1.1	2.2J	1.2J	12.8	2.9J	1.7J	<1.3	<1.6	<1.3	<3.5
	08/31/22	700	<1.1	3.5J	<1.2	6.5J	<2.1	1.8J	<1.3	<1.6	<1.3	<3.5
	12/14/22	<380	<3.0	2.3J	<4.0	1.9J	<4.6	<4.6	<9.8	<7.2	<3.8	42
	06/12/23	<410	<3.2	2.5J	<4.4	2.6J	<4.9	<4.9	<10	<7.7	<4.1	<11
SV11-5'	05/03/22 ¹	-	-	-	-	-	-	-	-	-	-	-
	08/31/22	530	<1.1	2.8J	<1.2	5.2J	<2.1	1.6J	<1.3	<1.6	<1.4	5000E
	12/14/22 ¹	-	-	-	-	-	-	-	-	-	-	-
	06/12/23	<400	0.96J	2.1J	<4.3	3.2J	<4.9	<4.9	<10	<7.6	<4.0	<11
SV12-2'	05/03/22	2,000	<1.1	12	5.3	44	7.1	2.2J	<1.3	<1.6	<1.3	<3.4
	08/30/22	1,100	<1.2	4.1	<1.3	6.5J	<2.3	<1.7	<1.4	<1.7	<1.4	19
	12/14/22	<380	<3.0	2.3J	<4.0	2.3J	<4.6	<4.6	<9.8	<7.2	<3.8	10
	06/13/23	<870	<6.8	<16	<9.2	<18	4.5J	<10	<22	<16	<8.6	<23
SV12-5'	05/03/22 ¹	-	-	-	-	-	-	-	-	-	-	-
	08/30/22	980	<1.1	3.7J	<1.2	6.0J	2.2J	<1.6	<1.3	<1.6	<1.4	<3.6
	12/14/22 ¹	-	-	-	-	-	-	-	-	-	-	-
Residential RBCs	RBCair	420	0.36	5,200	1.1	100.0	63	63	0.083	0.0047	0.11	-
	RBCsv	14,000	12	1.7E+05	37	3,500	2,100	2,100	2.8	0.16	3.6	-
	RBCwi	390	2.8	3.6E+04	7.1	780	560	400	11	0.34	4	-
Commercial RBCs	RBCair	1,800	1.6	2.2E+04	4.9	440	260	260	0.36	0.02	0.47	-
	RBCsv	58,000	52	7.3E+05	160	15,000	8,800	8,800	12	0.68	16	-
	RBCwi	1,700	12	1.5E+05	31	3,300	2,400	1,700	50	1.5	18	-

Notes:

RBCs: Oregon DEQ CAO Risk Based Concentration
RBCair Risk Based Concentration for Indoor Air
RBCwo Risk Based Concentration for Soil Vapor Volatilization to Indoor Air
RBCwi Risk Based Concentration for groundwater volatilization to indoor air
EDB: 1,2-dibromoethane
EDC 1,2-dichloroethane
5/3/2022 ¹ Samples not collected because vapor points submerged in water
8/29/2022 ² Samples not collected due to malfunction with Summa Can

1,2,4-TMB: 1,2,4- Trimethylbenzene
1,3,5-TMB: 1,2,4- Trimethylbenzene
<1.2: Less than laboratory Method Detection Limit
0.79J: Concentration detected below laboratory reporting limit but above the method detection limit

TABLE 5
ANALYTICAL RESULTS OF SOIL VAPOR SAMPLES - FIXED GASES (SUMMA CANS)
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID	Date	Modified Natural Gas Analysis by ASTM D-1946: Percentage (%)		
		Oxygen (O ₂)	Methane (CH ₄)	Carbon Dioxide (CO ₂)
Sub-Slab Samples				
SS1	05/03/22	21	0.00066	<0.021
	08/30/22	21	0.00053	0.15
	12/13/22	22	0.00052	0.10
	06/13/23	21	0.00048	0.17
SS2	05/03/22	21	0.00040	0.10
	08/30/22	20	<0.00019	0.76
	12/13/22	22	<0.00019	0.16
	06/13/23	21	<0.00023	0.63
Soil Vapor Samples				
SV1-2'	05/03/22	19	0.00029	0.99
	08/29/22	20	<0.00021	0.50
	12/13/22	22	0.00019	0.48
	06/12/23	20	<0.00022	0.46
SV1-5'	5/3/2022 ¹	-	-	-
	08/29/22	13	<0.00020	7.8
	12/13/2022 ¹	-	-	-
	06/12/23	16	<0.00022	5.8
SV2-2'	05/03/22	5.7	<0.00019	9.1
	08/29/22	12	<0.00022	11
	12/13/22	13	<0.00019	5.4
	06/12/23	8.1	<0.00022	12
SV2-5'	5/3/2022 ¹	-	-	-
	08/29/22	11	<0.00020	13
	12/13/2022 ¹	-	-	-
	06/12/23	6.6	<0.00022	12

TABLE 5
ANALYTICAL RESULTS OF SOIL VAPOR SAMPLES - FIXED GASES (SUMMA CANS)
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID	Date	Modified Natural Gas Analysis by ASTM D-1946: Percentage (%)		
		Oxygen (O ₂)	Methane (CH ₄)	Carbon Dioxide (CO ₂)
SV3-2'	05/03/22	20	<0.00022	1.7
	08/30/22	20	<0.00021	0.27
	12/13/22	22	0.00022	0.20
	06/13/23	20	<0.00020	0.25
SV3-5'	5/3/2022 ¹	-	-	-
	08/30/22	15	0.00023	5.1
	12/13/2022 ¹	-	-	-
	06/13/23	18	0.00021	2.6
SV4-2'	05/03/22	17	<0.00022	4.7
	08/30/22	21	<0.00020	0.046
	12/13/22	22	<0.00019	0.39
	06/13/23	21	0.00022	0.080
SV4-5'	5/3/2022 ¹	-	-	-
	08/30/22	21	0.00021	0.12
	12/13/2022 ¹	-	-	-
	06/13/23	21	<0.00020	0.25
SV5-2'	05/03/22	21	<0.00022	<0.020
	08/29/22	21	<0.00020	0.044
	12/13/22	22	<0.00019	0.11
	06/13/23	20	0.00024	0.057
SV5-5'	05/03/22	19	<0.00019	3.1
	8/29/2022 ²	-	-	-
	12/13/22	21	<0.00018	0.59
	06/13/23	21	0.00020	0.19

TABLE 5
ANALYTICAL RESULTS OF SOIL VAPOR SAMPLES - FIXED GASES (SUMMA CANS)
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID	Date	Modified Natural Gas Analysis by ASTM D-1946: Percentage (%)		
		Oxygen (O ₂)	Methane (CH ₄)	Carbon Dioxide (CO ₂)
SV6-2'	05/03/22	21	<0.00018	0.70
	08/30/22	20	<0.00019	0.84
	12/13/22	22	<0.00018	0.55
	06/13/23	21	<0.00019	0.68
SV6-5'	5/3/2022 ¹	-	-	-
	08/30/22	4.6	0.0023	13
	12/13/2022 ¹	-	-	-
	06/13/23	8.4	0.0014	8.8
SV7-2'	05/03/22	12	<0.00023	4.6
	08/30/22	19	<0.00019	2.3
	12/13/2022 ¹	-	-	-
	06/13/23	21	<0.00020	0.94
SV7-5'	5/3/2022 ¹	-	-	-
	08/30/22	7.7	0.00078	12
	12/13/2022 ¹	-	-	-
	06/13/23	18	0.00034	3.7
SV8-2'	05/03/22	20	<0.00019	2.6
	08/29/22	19	<0.00019	2.8
	12/13/22	19	<0.00018	3.3
	06/13/23	19	<0.00019	2.9
SV8-5'	5/3/2022 ¹	-	-	-
	8/29/2022 ²	-	-	-
	12/13/22	19	<0.00019	4.1
	06/13/23	17	<0.00019	5.3

TABLE 5
ANALYTICAL RESULTS OF SOIL VAPOR SAMPLES - FIXED GASES (SUMMA CANS)
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID	Date	Modified Natural Gas Analysis by ASTM D-1946: Percentage (%)		
		Oxygen (O ₂)	Methane (CH ₄)	Carbon Dioxide (CO ₂)
SV9-2'	05/03/22	20	<0.00019	2.4
	08/31/22	20	<0.00019	2.0
	12/14/22	22	<0.00019	0.98
	06/12/23	19	<0.00020	2.4
SV9-5'	05/03/22	20	<0.00019	2.4
	08/31/22	18	<0.00020	4.3
	12/14/22	20	<0.00018	2.8
	06/12/23	18	<0.00020	4.2
SV10-2'	05/03/22	20	<0.00021	2.2
	08/31/22	19	<0.00020	2.1
	12/14/22	20	<0.00018	2.2
	06/12/23	20	<0.00021	1.4
SV10-5'	5/3/2022 ¹	-	-	-
	08/31/22	18	<0.00021	4.4
	12/14/22	20	<0.00017	3.0
	06/12/23	17	<0.00022	4.8
SV11-2'	05/03/22	17	<0.00020	2.7
	08/31/22	21	<0.00020	0.73
	12/14/22	22	0.00021	0.40
	06/12/23	21	<0.00020	0.25
SV11-5'	5/3/2022 ¹	-	-	-
	08/31/22	21	<0.00020	1.2
	12/14/2022 ¹	-	-	-
	06/12/23	20	<0.00020	0.94

TABLE 5
ANALYTICAL RESULTS OF SOIL VAPOR SAMPLES - FIXED GASES (SUMMA CANS)
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID	Date	Modified Natural Gas Analysis by ASTM D-1946: Percentage (%)		
		Oxygen (O ₂)	Methane (CH ₄)	Carbon Dioxide (CO ₂)
SV12-2'	05/03/22	20	<0.00019	1.1
	08/30/22	21	<0.00022	0.78
	12/14/22	20	<0.00019	1.6
	06/13/23	21	<0.00021	0.66
SV12-5'	5/3/2022 ¹	-	-	-
	08/30/22	20	<0.00020	2.5
	12/14/2022 ¹	-	-	-
	06/13/2023 ¹	-	-	-

Notes:

5/3/2022 ¹ Samples not collected because vapor points submerged in water
8/29/2022 ² Samples not collected due to malfunction with Summa Can

TABLE 6
GROUNDWATER ELEVATIONS
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Well ID Screen Interval (feet bsg)	Well Elevation (Feet)	Date	Depth to Water (Feet btoc)	Groundwater Elevation (Feet NAVD88)
SHALLOW -SCREENED WELLS				
MW-1 (5 - 15)	201.83	05/04/22	7.90	193.93
		08/25/22	5.68	196.15
		12/14/22	5.54	196.29
		03/14/23	4.64	197.19
		06/14/23	5.24	196.59
MW-3 (5 - 15)	200.19	05/04/22	5.91	194.28
		08/25/22	5.76	194.43
		12/14/22	4.44	195.75
		03/14/23	2.90	197.29
		06/14/23	5.10	195.09
MW-5 (5 - 15)	200.40	05/04/22	3.90	196.50
		08/25/22	8.89	191.51
		12/14/22	5.70	194.70
		03/14/23	3.59	196.81
		06/14/23	7.63	192.77
MW-7 (5 - 15)	201.20	12/12/22	3.96	197.24
		12/14/22	4.09	197.11
		03/14/23	3.29	197.91
		06/14/23	4.88	196.32
MW-9 (5 - 15)	200.75	12/12/22	9.39	191.36
		12/14/22	11.52	189.23
		03/14/23	4.61	196.14
		06/14/23	5.26	195.49
MW-11 (5 - 15)	200.44	12/12/22	6.20	194.24
		12/14/22	8.08	192.36
		03/14/23	5.31	195.13
		06/14/23	8.68	191.76
MW-13 (5 - 15)	200.78	12/12/22	4.04	196.74
		12/14/22	5.21	195.57
		03/14/23	2.78	198.00
		06/14/23	4.34	196.44

TABLE 6
GROUNDWATER ELEVATIONS
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Well ID Screen Interval (feet bsg)	Well Elevation (Feet)	Date	Depth to Water (Feet btoc)	Groundwater Elevation (Feet NAVD88)
DEEP -SCREENED WELLS				
MW-2 (20 - 35)	201.73	05/04/22	4.26	197.47
		08/25/22	5.25	196.48
		12/14/22	4.82	196.91
		03/14/23	4.15	197.58
		06/14/23	5.49	196.24
MW-4 (20 - 25)	200.30	05/04/22	3.86	196.44
		08/25/22	5.77	194.53
		12/14/22	4.18	196.12
		03/14/23	3.10	197.20
		06/14/23	5.29	195.01
MW-6 (20 - 35)	200.13	05/04/22	3.90	196.23
		08/25/22	8.21	191.92
		12/14/22	6.32	193.81
		03/14/23	2.79	197.34
		06/14/23	7.35	192.78
MW-10 (20 - 35)	200.86	12/12/22	8.95	191.91
		12/14/22	9.70	191.16
		03/14/23	6.10	194.76
		06/14/23	10.91	189.95
MW-12 (20 - 35)	200.57	12/12/22	7.51	193.06
		12/14/22	7.92	192.65
		03/14/23	6.58	193.99
		06/14/23	9.15	191.42
MW-14 (18 - 33)	200.52	12/12/22	4.06	196.46
		12/14/22	4.72	195.80
		03/14/23	3.10	197.42
		06/14/23	5.75	194.77

Notes:

bsg: below surface grade

btoc: below top of casing

NAVD88: North American Vertical Datum 88

TABLE 7
ANALYTICAL RESULTS OF GROUNDWATER SAMPLES
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID (Screen Interval)	Date	Depth to Groundwater (feet)	NWTPH Methods/8260D: micrograms per liter (µg/L)											
			GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	EDB	EDC	Isopropyl-benzene	1,2,4-TMB	1,3,5-TMB
SHALLOW - SCREENED WELLS														
MW-1 (5 - 15)	05/04/22	7.90	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	05/04/22 ^D	7.90	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	08/25/22	5.68	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	12/15/22	5.54	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	03/14/23	4.64	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	06/14/23	5.24	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
MW-3 (5 - 15)	05/04/22	5.91	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	08/25/22	5.76	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	12/15/22	4.44	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	03/14/23	2.90	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	06/14/23	5.10	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
MW-5 (5 - 15)	05/04/22	3.90	90,000	12,100	24,700	1,930	15,100	<10.0	682	<5.0	<5.0	56.2	1,630	501
	08/25/22	8.89	155,000	10,800	18,000	2,160	15,300	<100	388	<50	<50	<100	1,890	453
	12/15/22	5.70	84,700	6,750	7,960	1,340	7,660	<200	<400	<100	<100	<100	812	226
	03/14/23	3.59	84,900	6,950	5,950	1,740	8,290	<200	<400	<100	<100	<100	1,350	346
	06/15/23	7.63	140,000	9,360	13,100	2,020	12,100	<200	<400	<100	<100	<100	1,340	420
MW-7 (5 - 15)	12/15/22	4.09	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	03/15/23	3.29	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	06/14/23	4.88	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
MW-9 (5 - 15)	12/14/22	11.52	96,100	3,500	13,200	991	10,100	<10	438	<5.0	<5.0	19.7	1,450	358
	03/14/23	4.61	30,300	1,420	2,940	180	3,550	<100	<200	<50	<50	<100	384	148
	06/14/23	5.26	44,800	1,730	2,990	694	4,480	<100	<200	<50	<50	<100	547	202
MW-11 (5 - 15)	12/15/22	8.08	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	03/15/23	5.31	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	06/14/23	8.68	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
MW-13 (5 - 15)	12/15/22	5.21	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	03/14/23	2.78	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	06/15/23	4.34	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
RISK-BASED CONCENTRATIONS														
<i>RBC_{tw}</i>	<i>Res.</i>		<i>110</i>	<i>0.46</i>	<i>1,100</i>	<i>1.5</i>	<i>190</i>	<i>14</i>	<i>0.17</i>	<i>0.0075</i>	<i>0.17</i>	<i>440</i>	<i>54</i>	<i>59</i>
	<i>Urban Res.</i>		<i>110</i>	<i>2.0</i>	<i>4,400</i>	<i>6.7</i>	<i>710</i>	<i>64</i>	<i>0.78</i>	<i>0.0340</i>	<i>0.78</i>	<i>1,800</i>	<i>230</i>	<i>240</i>
	<i>Occ.</i>		<i>450</i>	<i>2.1</i>	<i>6,300</i>	<i>6.4</i>	<i>830</i>	<i>68</i>	<i>0.72</i>	<i>0.0340</i>	<i>0.78</i>	<i>2,000</i>	<i>250</i>	<i>280</i>
<i>RBC_{wo}</i>	<i>Res.</i>		>S	<i>3,100</i>	-	<i>9,900</i>	-	<i>3.5E+05</i>	<i>3,600</i>	<i>180</i>	<i>2,100</i>	-	-	-
	<i>Urban Res.</i>		>S	<i>7,400</i>	-	<i>23,000</i>	-	<i>8.3E+05</i>	<i>8,500</i>	<i>430</i>	<i>4,900</i>	-	-	-
	<i>Occ.</i>		>S	<i>14,000</i>	-	<i>43,000</i>	-	<i>1.5E+06</i>	<i>16,000</i>	<i>790</i>	<i>9,000</i>	-	-	-
<i>RBC_{wf}</i>	<i>Res.</i>		<i>22,000</i>	<i>210</i>	-	<i>620</i>	<i>86,000</i>	<i>6.7E+04</i>	<i>840</i>	<i>45</i>	<i>300</i>	-	<i>50,000</i>	<i>36,000</i>
	<i>Urban Res.</i>		<i>22,000</i>	<i>510</i>	-	<i>1,500</i>	<i>86,000</i>	<i>1.6E+05</i>	<i>2,000</i>	<i>110</i>	<i>700</i>	-	<i>50,000</i>	<i>36,000</i>
	<i>Occ.</i>		>S	<i>2,800</i>	-	<i>8,200</i>	-	<i>8.7E+05</i>	<i>11,000</i>	<i>590</i>	<i>3,900</i>	-	-	-
<i>RBC_{we}</i>	<i>Construction and Excavation Worker</i>		<i>14,000</i>	<i>1,800</i>	<i>220,000</i>	<i>4,500</i>	<i>23,000</i>	<i>6.3E+04</i>	<i>500</i>	<i>27</i>	<i>630</i>	<i>51,000</i>	<i>6,300</i>	<i>7,500</i>

TABLE 7
ANALYTICAL RESULTS OF GROUNDWATER SAMPLES
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID (Screen Interval)	Date	Depth to Groundwater (feet)	NWTPH Methods/8260D: micrograms per liter (µg/L)											
			GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Naph- thalene	EDB	EDC	Isopropyl- benzene	1,2,4- TMB	1,3,5- TMB
DEEP-SCREENED WELLS														
MW-2 (20 - 35)	05/04/22	4.26	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	08/25/22	5.25	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	12/15/22	4.82	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	03/14/23	4.15	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	06/14/23	5.49	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
MW-4 (20 - 25)	05/04/22	3.86	<100	<0.200	<1.00	<0.500	<1.50	1.17	<2.00	<0.500	3.11	<1.00	<1.00	<1.00
	08/25/22	5.77	<100	<0.200	<1.00	<0.500	<1.50	1.87	<2.00	<0.500	4.95	<1.00	<1.00	<1.00
	08/25/22 ^D	5.77	<100	<0.200	<1.00	<0.500	<1.50	1.95	<2.00	<0.500	5.03	<1.00	<1.00	<1.00
	12/15/22	4.18	<100	<0.200	<1.00	<0.500	<1.50	1.12	<2.00	<0.500	4.21	<1.00	<1.00	<1.00
	03/14/23	3.10	<100	<0.200	<1.00	<0.500	<1.50	1.65	<2.00	<0.500	3.65	<1.00	<1.00	<1.00
MW-6 (20 - 35)	06/14/23	5.29	<100	<0.200	<1.00	<0.500	<1.50	1.42	<2.00	<0.500	3.15	<1.00	<1.00	<1.00
	05/04/22	3.90	427	66.0	42.9	7.32	38.0	10.0	<2.00	<0.500	<0.500	<1.00	7.22	1.85
	08/25/22	8.21	<100	6.96	2.21	0.990	1.91	9.10	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	12/15/22	6.32	<100	<0.200	<1.00	<0.500	<1.50	5.60	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	03/14/23	2.79	<100	0.530	<1.00	<0.500	<1.50	8.50	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
MW-10 (20 - 35)	06/15/23	2.79	<100	<0.200	<1.00	<0.500	<1.50	7.33	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	12/14/22	9.70	678	7.37	6.05	<0.500	98.0	<1.00	<2.00	<0.500	<0.500	<1.00	14.6	11.8
	03/14/23	6.10	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
MW-12 (20 - 35)	06/14/23	10.91	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	12/15/22	7.92	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	03/15/23	6.58	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
MW-14 (18 - 33)	06/14/23	9.15	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	12/15/22	4.72	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	03/14/23	3.10	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	06/15/23	5.75	<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
QUALITY ASSURANCE/CONTROL (QA/QC)														
Trip Blank	05/04/22		<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	08/25/22		<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	12/15/22		<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	03/14/23		<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
	06/14/23		<100	<0.200	<1.00	<0.500	<1.50	<1.00	<2.00	<0.500	<0.500	<1.00	<1.00	<1.00
RISK-BASED CONCENTRATIONS														
<i>RBC_{tw}</i>	Res.		110	0.46	1,100	1.5	190	14	0.17	0.0075	0.17	440	54	59
	Urban Res.		110	2.0	4,400	6.7	710	64	0.78	0.0340	0.78	1,800	230	240
	Occ.		450	2.1	6,300	6.4	830	68	0.72	0.0340	0.78	2,000	250	280
<i>RBC_{wo}</i>	Res.		>S	3,100	-	9,900	-	3.5E+05	3,600	180	2,100	-	-	-
	Urban Res.		>S	7,400	-	23,000	-	8.3E+05	8,500	430	4,900	-	-	-
	Occ.		>S	14,000	-	43,000	-	1.5E+06	16,000	790	9,000	-	-	-
<i>RBC_{wi}</i>	Res.		22,000	210	-	620	86,000	6.7E+04	840	45	300	-	50,000	36,000
	Urban Res.		22,000	510	-	1,500	86,000	1.6E+05	2,000	110	700	-	50,000	36,000
	Occ.		>S	2,800	-	8,200	-	8.7E+05	11,000	590	3,900	-	-	-
<i>RBC_{we}</i>	Construction and Excavation Worker		14,000	1,800	220,000	4,500	23,000	6.3E+04	500	27	630	51,000	6,300	7,500

TABLE 7

ANALYTICAL RESULTS OF GROUNDWATER SAMPLES

PACIFIC HIGHWAY AUTO CARE

112 Pacific Highway North, Monmouth, Oregon

Sample ID (Screen Interval)	Date	Depth to Groundwater (feet)	NWTPH Methods/8260D: micrograms per liter (µg/L)										
			GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Naph- thalene	EDB	EDC	Isopropyl- benzene	1,2,4- TMB

Notes:

µg/L: micrograms per liter, or parts per billion (ppb)

NWTPH-gx: Northwest Total Petroleum Hydrocarbons - Gasoline Range Hydrocarbons

EDB: 1,2-dibromoethane

EDC: 1,2-dichloroethane

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

1,3,5-TMB: 1,2,4- Trimethylbenzene

-: Not analyzed for constituent

J: trace concentration, result between DF x MDL and DF x PQL

GRO: Gasoline range organics

05/04/22 ^D Duplicate sample

RBCtw Risk Based Concentration for Ingestion, dermal, and inhalation of tap water

RBCwo Risk Based Concentration for Volatilization to Outdoor Air

RBCwi Risk Based Concentration for Vapor Intrusion into Buildings

RBCwe Risk Based Concentration for Groundwater in Excavation

Res./Occ. Residential/Occupational

MTBE: Methyl tertiary-butyl ether

TABLE 8
ANALYTICAL RESULTS OF WASTEWATER AND DRINKING WATER SAMPLES
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID	Date	NWTPH Methods/8260D: micrograms per liter (µg/L)											
		NWTPH-gx	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	EDB	EDC	Isopropyl-benzene	1,2,4-TMB	1,3,5-TMB
DWC	04/09/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/16/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/14/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/16/21	27,700	1,940	4,500	291	2,120	ND	88.4	ND	ND	4.61	155	43.7
	08/24/21	ND	1.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/23/21	236	12.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/07/21	ND	1.61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DWC-1	03/15/22	1,580	143	145	11.3	ND	ND	ND	ND	ND	ND	ND	ND
DWC-2		ND	3.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DWC-1	08/31/22	222	17.1	27.2	1.77	13.1	355	ND	ND	ND	ND	ND	ND
DWC-2		ND	2.59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DWC/Pre	12/16/22	28,900	2,160	4,350	218	1,090	2.2	20.4	ND	ND	2.28	56	13
DWC/Post		ND	1.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DWC-1	04/24/23	1,760	60.4	200	13.6	69.3	84.2	ND	ND	ND	ND	ND	ND
DWC-2		ND	2.43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DWD	04/09/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/16/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/14/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/16/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/24/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/15/22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/31/22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DWU	04/09/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/16/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/14/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/16/21	ND	0.59	2.99	ND	ND	107	ND	ND	ND	ND	ND	ND
	08/24/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/23/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/15/22	ND	ND	ND	ND	ND	5.95	ND	ND	ND	ND	ND	ND
	08/31/22	ND	ND	ND	ND	ND	65.0	ND	ND	ND	ND	ND	ND
	12/16/22	ND	ND	ND	ND	ND	38.0	ND	ND	ND	ND	ND	ND
MH-1	04/19/21	40,500	513	4130	670	5700	-	258	-	-	-	992	-
	04/20/21	18,600	153	1450	275	2410	ND	154	ND	ND	28.4	474	133
	04/21/21	23,600	195	1850	379	3280	ND	ND	ND	ND	23	660	168
	04/22/21	2,230	17	158	33	298	ND	18.1	ND	ND	1.50	58.3	15
	04/23/21	8,670	55	590	156	1060	ND	67.2	ND	ND	7.28	218	64
RBC _{tw}	Res.	110	0.46	1,100	1.5	190	14	0.17	0.0075	0.17	440	54	59
	Urban Res.	110	2.0	4,400	6.7	710	64	0.78	0.0340	0.78	1,800	230	240
	Occ.	450	2.1	6,300	6.4	830	68	0.72	0.0340	0.78	2,000	250	280

TABLE 8
ANALYTICAL RESULTS OF WASTEWATER AND DRINKING WATER SAMPLES
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID	Date	NWTPH Methods/8260D: micrograms per liter (µg/L)											
		NWTPH-gx	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	EDB	EDC	Isopropyl-benzene	1,2,4-TMB	1,3,5-TMB
WWW	04/13/21	2,800	30.0	133	34.5	254	ND	39.7	ND	ND	2.44	102	27.9
	04/15/21	515	10.8	24.8	3.29	46.5	ND	5.12	ND	ND	ND	15.6	5.96
	04/16/21	2,940	31.3	146	32.1	276	ND	48.5	ND	ND	2.28	120	32.6
	04/19/21	705	13.7	69.6	9.1	91.8	ND	5.98	ND	ND	ND	14.3	3.9
	04/20/21	577	8.87	38.1	6.08	58.7	ND	5.74	ND	ND	ND	15	4.27
	04/21/21	333	6.24	25.8	3.49	35.4	ND	ND	ND	ND	ND	5.78	1.62
	04/22/21	250	5.45	18.2	2.27	23.0	ND	ND	ND	ND	ND	3.7	1.08
	04/23/21	255	5.47	18.4	2.43	24.8	ND	ND	ND	ND	ND	4.88	1.34
	04/24/21	196	5.26	15.5	1.82	18.5	ND	ND	ND	ND	ND	2.74	ND
	04/25/21	240	5.04	15.4	2.09	23.6	ND	ND	ND	ND	ND	4.22	1.30
	04/26/21	232	7.00	19.3	2.26	24.1	ND	ND	ND	ND	ND	4.11	1.22
	04/27/21	293	8.03	27.8	2.85	29.2	ND	ND	ND	ND	ND	3.66	1.38
	04/28/21	276	6.83	23.9	2.72	26.2	ND	ND	ND	ND	ND	3.56	1.35
	04/30/21	270	6.47	20.5	2.70	26.8	ND	ND	ND	ND	ND	3.71	1.37
	05/07/21	267	4.03	21.6	3.06	25.8	ND	ND	ND	ND	ND	4.69	1.44
	05/11/21	201	2.50	13.8	2.25	19.4	ND	ND	ND	ND	ND	3.69	1.09
	05/14/21	185	1.58	9.90	1.61	14.7	ND	ND	ND	ND	ND	3.01	ND
	05/18/21	134	1.01	6.89	1.28	10.8	ND	ND	ND	ND	ND	2.14	ND
	05/21/21	715	1.55	9.40	2.36	20.0	ND	2.17	ND	ND	ND	30.0	9.63
	05/26/21	194	1.70	13.0	2.05	18.2	ND	ND	ND	ND	ND	3.00	1.03
	05/27/21	219	1.50	13.1	2.06	18.2	ND	ND	ND	ND	ND	3.35	1.11
	06/03/21	157	1.13	7.37	1.57	13.3	ND	ND	ND	ND	ND	2.49	ND
	06/17/21	315	0.91	11.8	3.76	38.7	ND	ND	ND	ND	ND	6.56	2.26
	07/19/21	136	ND	1.40	0.630	4.50	ND	ND	ND	ND	ND	1.36	ND
	08/16/21	834	ND	2.33	2.25	44.1	ND	16.1	ND	ND	ND	44.4	16.0
	09/20/21	827	ND	4.90	2.75	49.5	ND	15.4	ND	ND	ND	45.3	17.1
	10/19/21	340	ND	ND	0.86	7.06	ND	ND	ND	ND	ND	5.00	6.64
	11/23/21	119	ND	ND	ND	1.52	ND	ND	ND	ND	ND	2.66	1.87
	01/18/22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/17/22	167	ND	1.64	ND	4.81	ND	ND	ND	ND	ND	4.69	4.29
	03/15/22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/05/22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/07/22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/13/22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/31/22	ND	ND	1.10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/27/22	411	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/27/22	508	ND	1.35	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/22	ND	ND	1.07	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/21/22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/15/23	246	ND	1.29	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/15/23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/24/23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23	ND	ND	8.68	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/15/23	ND	ND	2.12	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/17/23	ND	ND	1.27	ND	ND	ND	ND	ND	ND	ND	ND	ND
RBC _{tw}	Res.	110	0.46	1,100	1.5	190	14	0.17	0.0075	0.17	440	54	59
	Urban Res.	110	2.0	4,400	6.7	710	64	0.78	0.0340	0.78	1,800	230	240
	Occ.	450	2.1	6,300	6.4	830	68	0.72	0.0340	0.78	2,000	250	280

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PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

Sample ID	Date	NWTPH Methods/8260D: micrograms per liter (µg/L)											
		NWTPH-gx	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	EDB	EDC	Isopropyl-benzene	1,2,4-TMB	1,3,5-TMB
WP-1	04/16/21	124	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.01
	04/20/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/21/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/23/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/26/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/27/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/28/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/30/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/07/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WP-2	04/13/21	1,620	8.66	39.5	10.1	123.0	ND	14.8	ND	ND	ND	34.5	27.4
	04/15/21	439	2.10	5.65	1.15	26.10	ND	ND	ND	ND	ND	3.99	8.57
	04/16/21	212	ND	ND	ND	6.66	ND	ND	ND	ND	ND	ND	3.53
	04/19/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/20/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/21/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/23/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/26/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/27/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/30/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/13/22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/31/22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/27/22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/27/22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/21/22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/15/23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/15/23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/24/23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/15/23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
RBC _{tw}	Res.	110	0.46	1,100	1.5	190	14	0.17	0.0075	0.17	440	54	59
	Urban Res.	110	2.0	4,400	6.7	710	64	0.78	0.0340	0.78	1,800	230	240
	Occ.	450	2.1	6,300	6.4	830	68	0.72	0.0340	0.78	2,000	250	280

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Sample ID	Date	NWTPH Methods/8260D: micrograms per liter (µg/L)											
		NWTPH-gx	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	EDB	EDC	Isopropyl-benzene	1,2,4-TMB	1,3,5-TMB
WP-2B	04/13/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/16/21	246	ND	ND	6.59	ND	ND	ND	ND	ND	ND	ND	4.37
	04/20/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/21/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/23/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/26/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/27/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/28/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/30/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/07/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/18/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/21/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/26/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/27/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WP-3	04/13/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/15/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/16/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/19/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/20/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/21/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/23/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/26/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/27/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/28/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/30/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/07/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/11/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/14/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/17/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/19/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/16/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/20/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/19/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/23/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/18/22	ND	ND	1.66	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/17/22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/15/22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/05/22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/07/22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
RBC _{tw}	Res.	110	0.46	1,100	1.5	190	14	0.17	0.0075	0.17	440	54	59
	Urban Res.	110	2.0	4,400	6.7	710	64	0.78	0.0340	0.78	1,800	230	240
	Occ.	450	2.1	6,300	6.4	830	68	0.72	0.0340	0.78	2,000	250	280

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112 Pacific Highway North, Monmouth, Oregon

Sample ID	Date	NWTPH Methods/8260D: micrograms per liter (µg/L)											
		NWTPH-gx	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	EDB	EDC	Isopropylbenzene	1,2,4-TMB	1,3,5-TMB
Effluent	04/23/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/30/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/07/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EX1-Water	05/26/21	30,200	408	1,860	124	3,690	ND	308	ND	ND	17.3	960	240
EX2-Water	06/02/21	825	21.9	62.4	7.98	93.0	2.26	5.03	ND	ND	ND	18.2	6.07
RBC _{tw}	Res.	110	0.46	1,100	1.5	190	14	0.17	0.0075	0.17	440	54	59
	Urban Res.	110	2.0	4,400	6.7	710	64	0.78	0.0340	0.78	1,800	230	240
	Occ.	450	2.1	6,300	6.4	830	68	0.72	0.0340	0.78	2,000	250	280
RBC _{wo}	Res.	>S	3,100	-	9,900	-	3.5E+05	3,600	180	2,100	-	-	-
	Urban Res.	>S	7,400	-	23,000	-	8.3E+05	8,500	430	4,900	-	-	-
	Occ.	>S	14,000	-	43,000	-	1.5E+06	16,000	790	9,000	-	-	-
RBC _{wi}	Res.	22,000	210	-	620	86,000	6.7E+04	840	45	300	-	50,000	36,000
	Urban Res.	22,000	510	-	1,500	86,000	1.6E+05	2,000	110	700	-	50,000	36,000
	Occ.	>S	2,800	-	8,200	-	8.7E+05	11,000	590	3,900	-	-	-
RBC _{we}	Construction and Excavation Worker	14,000	1,800	220,000	4,500	23,000	6.3E+04	500	27	630	51,000	6,300	7,500

Notes:

mg/kg: milligrams per kilogram, or parts per million (ppm)
 NWTPH-gx: Northwest Total Petroleum Hydrocarbons - Gasoline Range Hydrocarbons
 NWTPH-dx: Northwest Total Petroleum Hydrocarbons - Diesel and Oil Range Hydrocarbons
 MTBE: Methyl tertiary-butyl ether
 EDB: 1,2-dibromoethane
 EDC: 1,2-dichloroethane
 1,2,4-TMB: 4- Trimethylbenzene
 1,3,5-TMB: 4- Trimethylbenzene
 -: Not analyzed for constituent
 RBCs: Risk Based Concentration for Ingestion, dermal, and inhalation of tap water
 Res./Occ. Residential/Occupational
 RBC_{tw}: Risk Based Concentration for Ingestion, dermal, and inhalation of tap water
 RBC_{wo}: Risk Based Concentration for Volatilization to Outdoor Air
 RBC_{wi}: Risk Based Concentration for Vapor Intrusion into Buildings
 RBC_{we}: Risk Based Concentration for Groundwater in Excavation

DWC: Drinking water center (site)
 DWD: Drinking water down-gradient (Catron St)
 DWU: Drinking water up-gradient (Carl's Jr.)
 MH-1: Manhole 1
 WWW: Wet water well at waste water pond (between 1-2)
 WP-1: Waste water pond 1
 WP-2: Waste water pond 2
 WP-2B: Waste water pond 2 (influent)
 WP-3: Waste water pond 3
 EFF: Effluent at waste water pond
 NS: Not sampled - no pressure

APPENDIX A

Oregon DEQ Email Approval

Brian Millman

From: OSCILIA Margaret * DEQ <Margaret.OSCILIA@deq.oregon.gov>
Sent: Monday, February 7, 2022 12:44 PM
To: Brian Millman; Lisa Thompson
Cc: SCHERZINGER Bruce * DEQ; KUCINSKI Michael * DEQ; Robert Marty; Rob Loeffler
Subject: RE: Former Monmouth Service Station (112 Pacific Hwy North): Site Assessment Work Plan

Hi Brian,

Thank you for addressing DEQ's comments in the *Updated Site Assessment Work Plan*. Can you provide me a rough timeline for the work proposed in the work plan to be completed? Also, am I correct in thinking the next deliverable is an email addendum to *Updated Site Assessment Work Plan* which will include a site plan with proposed additional boring/well locations and appropriate procedures to expedite the investigation? If so, please provide an estimate when I might receive the next deliverable.

Thanks!

Margaret L. Oscilia, P.E.
Senior Project Manager/Environmental Engineer
Western Region Environmental Cleanup and Emergency Response
Mobile: 503.726.6522
Pronouns: she/her/hers

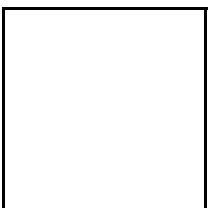
From: Brian Millman <bmillman@advancedgeo.biz>
Sent: Friday, December 3, 2021 3:48 PM
To: OSCILIA Margaret * DEQ <Margaret.OSCILIA@deq.state.or.us>; Lisa Thompson <lthompson@gsg.email>
Cc: SCHERZINGER Bruce * DEQ <bruce.scherzinger@deq.state.or.us>; KUCINSKI Michael * DEQ <michael.kucinski@deq.state.or.us>; Robert Marty <rmarty@advancedgeo.biz>; Rob Loeffler <rloeffler@advancedgeo.biz>
Subject: RE: Former Monmouth Service Station (112 Pacific Hwy North): Site Assessment Work Plan

Hi Margaret,

The *Updated Site Assessment Work Plan* is attached for the Pacific Highway Auto Care project at 112 Pacific Highway North, Monmouth, Oregon

Please don't hesitate to contact me with any questions or comments.

Thanks,



Brian Millman

From: OSCILIA Margaret * DEQ <Margaret.OSCILIA@deq.oregon.gov>
Sent: Monday, October 17, 2022 5:21 PM
To: Brian Millman; Lisa Thompson
Cc: SCHERZINGER Bruce * DEQ; KUCINSKI Michael * DEQ; Robert Marty; Rob Loeffler; Brian Whalen; Daniel Villanueva
Subject: RE: Former Monmouth Service Station (112 Pacific Hwy North): Work Plan Addendum

Hi Brian,

Please keep us updated on the timeline for completing the below-described work plan addendum. DEQ agrees with the proposed work and recommends extending the Locality of Facility (LOF), i.e. extent of contamination, to the eastern edge of the sidewalk near SW15 and SW16 in the final Site Investigation Report.

Thanks!

Margaret L. Oscilia, P.E.
Senior Project Manager/Environmental Engineer
Western Region Environmental Cleanup and Emergency Response
Mobile: 503.726.6522
Pronouns: she/her/hers

From: Brian Millman <bmillman@advancedgeo.biz>
Sent: Thursday, August 4, 2022 4:31 PM
To: OSCILIA Margaret * DEQ <Margaret.OSCILIA@deq.oregon.gov>; Lisa Thompson <lthompson@gsg.email>
Cc: SCHERZINGER Bruce * DEQ <Bruce.SCHERZINGER@deq.oregon.gov>; KUCINSKI Michael * DEQ <Michael.KUCINSKI@deq.oregon.gov>; Robert Marty <rmarty@advancedgeo.biz>; Rob Loeffler <rloeffler@advancedgeo.biz>; Brian Whalen <bwhalen@platinum-energy.net>; Daniel Villanueva <dvillanueva@advancedgeo.biz>
Subject: RE: Former Monmouth Service Station (112 Pacific Hwy North): Work Plan Addendum

Hi Margaret,

AdvancedGeo, Inc. (AGI) has developed the following scope of work for additional investigation at 112 Pacific Highway North, Monmouth, Oregon. The scope of work was developed in accordance with the recommendations provided in DEQ email dated 26 July 2022.

AGI proposes to advance two (2) soil borings for soil sample collection and install four (4) pairs of groundwater monitoring wells for soil and groundwater sample collection. The scope of work includes the following:

Soil:

- Advance two soil borings to 25 feet below surface grade (bsg) for collection of soil samples to define the extent of impacted soil. Boring advancement, sample collection, and sample analysis will follow the procedures outlined in the *Updated Site Assessment Work Plan* dated 03 December 2021.
 - One soil boring is proposed to the west of B32 to define the lateral and vertical extent of soil contamination.

- One soil boring is proposed adjacent to B7 to define the vertical extent of soil contamination.
- Soil samples collected from the northern most monitoring well pilot boring will be used to define the extent of impact to the north of B28.
- Soil borings are not proposed near SW15 and SW16 based on the information provided in DEQ email dated 26 July 2022.
- Soil borings are not proposed south of SW2 and SW3 based on the non-detect samples collected from the Main Street excavation. The data collected from the Main Street excavation has been added to Figure 5 for review.
- Proposed soil boring locations are depicted in Figures 4 – 6 attached.

Soil Vapor:

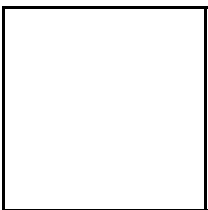
- Soil Vapor wells will be on a quarterly sampling schedule for a minimum of one year.

Groundwater:

- Advance four pilot soil borings to 20 feet bsg and four pilot soil borings to 35 feet bsg for the installation of monitoring wells. Well Installation and completion, soil and groundwater sample collection, well development and survey, and sample analysis will follow the procedures outlined in the *Updated Site Assessment Work Plan* dated 03 December 2021.
 - Wells will be screened from 5-15 feet bsg and 20-35 feet bsg.
 - Soil samples collected from the northern most pilot boring will be used to define the extent of impact to the north of B28.
 - Groundwater elevation data from the well proposed in the southeast corner of the subject property will not be used to infer or calculate groundwater flow and gradient.
 - Proposed monitoring well locations are depicted in Figures 4 – 6 attached.
 - Groundwater monitoring wells will be on a quarterly sampling schedule for a minimum of one year.

Please don't hesitate to contact me with any questions or comments. And please let me know as soon as possible if this email is not sufficient for the proposed scope of work/addendum.

Thanks,



Brian Millman
Senior Geologist

CA Professional Geologist No. 8574

OR Registered Geologist No. G2663

CA QSP/QSD No. 26882

AdvancedGeo, Inc.

Environmental • Compliance • Industrial Hygiene • Geotechnical

Phone: 800-511-9300

Fax: 888-445-8786

bmillman@advancedgeo.biz

www.advancedgeo.biz

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From: OSCILIA Margaret * DEQ <Margaret.OSCILIA@deq.oregon.gov>

Sent: Tuesday, July 26, 2022 10:07 AM

To: Brian Millman <bmillman@advancedgeo.biz>; Lisa Thompson <lthompson@gsg.email>

Cc: SCHERZINGER Bruce * DEQ <Bruce.SCHERZINGER@deq.oregon.gov>; KUCINSKI Michael * DEQ <Michael.KUCINSKI@deq.oregon.gov>; Robert Marty <rmarty@advancedgeo.biz>; Rob Loeffler <rloeffler@advancedgeo.biz>; Brian Whalen <bwhalen@platinum-energy.net>

Subject: RE: Former Monmouth Service Station (112 Pacific Hwy North): Work Plan Addendum

Hi Brian,

Below are DEQ's recommendations for the additional investigation work:

- The extents of impacted soil:
 - DEQ recommends a few more horizontal and vertical soil sample locations to fully delineated impacted soil:
 - Near SW2 and SW3
 - Confirm ND to the south and below 7ft below ground surface (bgs)
 - Near B32
 - Confirm ND to the west and below 14ft bgs
 - Near B28
 - Confirm ND to the north at 6ft bgs. Can possibly use soil samples from the proposed monitoring well to the north.
 - Near SW15 and SW16
 - These are eastern-most samples at 7ft bgs with detections. Detections are low so I would be comfortable extending the Locality of Facility (LOF), i.e. extent of contamination, to the eastern edge of the sidewalk in this area.
- The extents of VOC-impacted soil-vapor.
 - The extents of TPH-impacted soil-vapor appear to be defined to below Risk-Based Concentrations (RBCs), but we still need to continue collecting quarterly samples and eventually develop a conceptual site model.
 - Can you tell us why the Method Detection Limits (MDLs) are so high for SV3-2' and SS2? The MDL for SS2 exceeds Occupational RBC for EDB.
- The extents of impacted groundwater
 - Advance Geo proposes four additional groundwater well locations to confirm groundwater flow direction and extents of contamination in groundwater.
 - DEQ agrees with the proposed additional monitoring well (MW) locations.
 - The on-site MW in the SE corner of the property will be within the former excavation/backfill area (about 0 to 15 ft bgs). This location could present a challenge in calculating the GW flow direction, but

will probably provide delineation in that direction. DEQ recommends not using the proposed shallow MW in the SE property corner in the GW flow calculations.

- DEQ recommends the four proposed monitoring wells be paired wells, both shallow (screened 5-15 ft bgs) and deep (screened 20-35 ft bgs). Since there were detections and exceedances in the previous shallow and deep groundwater samples, DEQ recommends continuing to collect samples from both shallow and deep groundwater aquifers to determine groundwater flow directions and extents of contamination.

Please let us know the final work plan and timeline. And of course, if you have any questions.

Thanks!

Margaret L. Oscilia, P.E.
Senior Project Manager/Environmental Engineer
Western Region Environmental Cleanup and Emergency Response
Mobile: 503.726.6522
Pronouns: she/her/hers

From: Brian Millman <bmillman@advancedgeo.biz>

Sent: Monday, June 6, 2022 4:58 PM

To: OSCILIA Margaret * DEQ <Margaret.OSCILIA@deq.oregon.gov>; Lisa Thompson <lthompson@gsg.email>

Cc: SCHERZINGER Bruce * DEQ <Bruce.SCHERZINGER@deq.oregon.gov>; KUCINSKI Michael * DEQ <Michael.KUCINSKI@deq.oregon.gov>; Robert Marty <rmarty@advancedgeo.biz>; Rob Loeffler <rloeffler@advancedgeo.biz>; Brian Whalen <bwhalen@platinum-energy.net>

Subject: Former Monmouth Service Station (112 Pacific Hwy North): Work Plan Addendum

Hi Margaret,

AdvancedGeo, Inc. (AGI) has received and evaluated all the sampling data from the investigation performed in April and May 2022 at 112 Pacific Hwy North, Monmouth, Oregon. Figures and tables are attached depicting and summarizing soil, soil-vapor, and groundwater data.

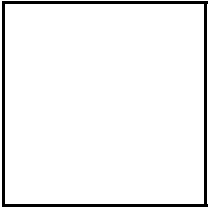
Based on the data, AGI concludes:

- The extents of soil impact are defined.
- The extents of VOC-impacted soil-vapor are defined.
 - The extents of TPH-impacted soil-vapor are defined to below Risk-Based Concentrations (RBCs).
- The extents of groundwater are not defined.
 - At least 3-4 additional wells will be necessary to define groundwater impact.

Proposed monitoring well locations are depicted on Figure 4. I would like to schedule a call with you to discuss the data, the proposed monitoring wells, and finalize the scope for the next phase of investigation.

Please don't hesitate to contact me with any questions.

Thanks,



Brian Millman
Senior Geologist

CA Professional Geologist No. 8574

OR Registered Geologist No. G2663

CA QSP/QSD No. 26882

AdvancedGeo, Inc.

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APPENDIX B

Purge Volume Calculations



714-449-9937
562-646-1611
805-399-0060

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

Project Name:	Pacific Highway Auto Care
Project Address:	112 Pacific Highway North
	Monmouth Oregon

3 Purge Volumes
724 cc

Purging Time
3.62 min.

Form Completed By:	BWM
--------------------	-----

Well Construction Inputs	
Depth of Probe (ft.)	2.5
Tubing Type	1/4" Nylaflo
Boring Diameter (in.)	2
Sand Pack Height (ft.)	1
Dry Bentonite Height (ft.)	

Purging Rate (cc/min)	200
-----------------------	-----

Default Parameters	
Above Ground Tubing (ft.)	2
Sand Porosity	35%
Bentonite Porosity	30%

Former Soil Gas Advisory Calculations		
Purge Number	Purge Volume	Purging Time
1	241 cc	1.21 min.
3	724 cc	3.62 min.
7	1690 cc	8.45 min.
10	2410 cc	12.1 min.
Tubing Vol.	Sand Pack Vol.	Dry Bent. Vol.
25.1 cc	216 cc	0 cc

** Purging times greater than one minute are notated in fractions of a minute (e.g. 7.20 min. = 7 min. & 12 sec.)



714-449-9937
562-646-1611
805-399-0060

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

Project Name: Pacific Highway Auto Care
Project Address: 112 Pacific Highway North
Monmouth Oregon

3 Purge Volumes

1050 cc

Purging Time

5.26 min.

Form Completed By: BWM

Well Construction Inputs

Depth of Probe (ft.)	5.5
Tubing Type	1/4" Nylaflow
Boring Diameter (in.)	2
Sand Pack Height (ft.)	1
Dry Bentonite Height (ft.)	0.5

Purging Rate (cc/min) 200

Default Parameters

Above Ground Tubing (ft.)	2
Sand Porosity	35%
Bentonite Porosity	30%

Former Soil Gas Advisory Calculations

Purge Number	Purge Volume	Purging Time
1	351 cc	1.75 min.
3	1050 cc	5.26 min.
7	2450 cc	12.3 min.
10	3510 cc	17.5 min.
Tubing Vol.	Sand Pack Vol.	Dry Bent. Vol.
41.8 cc	216 cc	92.7 cc

** Purging times greater than one minute are notated in fractions of a minute (e.g. 7.20 min. = 7 min. & 12 sec.)



714-449-9937
562-646-1611
805-399-0060

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

Project Name:

Pacific Highway Auto Care

Project Address:

112 Pacific Highway North

Monmouth Oregon

3 Purge Volumes

1530 cc

Purging Time

7.67 min.

Form Completed By:

BWM

Well Construction Inputs

Depth of Probe (ft.)	2.5
Tubing Type	1/4" Nylaflow
Boring Diameter (in.)	3
Sand Pack Height (ft.)	1
Dry Bentonite Height (ft.)	

Purging Rate (cc/min)

200

Default Parameters

Above Ground Tubing (ft.)	2
Sand Porosity	35%
Bentonite Porosity	30%

Former Soil Gas Advisory Calculations

Purge Number	Purge Volume	Purging Time
1	512 cc	2.56 min.
3	1530 cc	7.67 min.
7	3580 cc	17.9 min.
10	5120 cc	25.6 min.
Tubing Vol.	Sand Pack Vol.	Dry Bent. Vol.
25.1 cc	486 cc	0 cc

** Purging times greater than one minute are notated in fractions of a minute (e.g. 7.20 min. = 7 min. & 12 sec.)



714-449-9937
562-646-1611
805-399-0060

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

Project Name: Pacific Highway Auto Care
Project Address: 112 Pacific Highway North
Monmouth Oregon

3 Purge Volumes

2210 cc

Purging Time

11.1 min.

Form Completed By: BWM

Well Construction Inputs

Depth of Probe (ft.)	5.5
Tubing Type	1/4" Nylaflo
Boring Diameter (in.)	3
Sand Pack Height (ft.)	1
Dry Bentonite Height (ft.)	0.5

Purging Rate (cc/min) 200

Default Parameters

Above Ground Tubing (ft.)	2
Sand Porosity	35%
Bentonite Porosity	30%

Former Soil Gas Advisory Calculations

Purge Number	Purge Volume	Purging Time
1	737 cc	3.68 min.
3	2210 cc	11.1 min.
7	5160 cc	25.8 min.
10	7370 cc	36.8 min.
Tubing Vol.	Sand Pack Vol.	Dry Bent. Vol.
41.8 cc	486 cc	208 cc

** Purging times greater than one minute are notated in fractions of a minute (e.g. 7.20 min. = 7 min. & 12 sec.)

APPENDIX C

Soil Vapor Sampling Field Logs

Soil Vapor Sampling Field Log

Date: 6-13-23 Field Personnel: VL

Purge Apparatus:	
Purge Volume:	
Purge Time:	
Sample Canister Total Volume:	

PID (PPM) 4.0

Sample ID: 552

Canister #: <u>5LC041</u>	Purge		Sample	
Manifold#: <u>23744</u>	Initial	Post	Initial	Post
Time	<u>150 ml</u>		<u>1205</u>	<u>1212</u>
Pressure (in Hg)			<u>23</u>	<u>4</u>
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:		End Time:		

PID (PPM) .5

Sample ID: 551

Canister #: <u>1L3929</u>	Purge		Sample	
Manifold#: <u>23230</u>	Initial	Post	Initial	Post
Time	<u>150 ml</u>		<u>1230</u>	<u>1237</u>
Pressure (in Hg)			<u>26</u>	<u>4</u>
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:		End Time:		

PID (PPM) 7.2

Sample ID: SV12-02

Canister #: <u>1L1908</u>	Purge		Sample	
Manifold#: <u>23594</u>	Initial	Post	Initial	Post
Time	<u>724 ml</u>		<u>1300</u>	<u>1308</u>
Pressure (in Hg)			<u>29</u>	<u>4</u>
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:		End Time:		

PID (PPM)

Sample ID:

Canister #:	Purge		Sample	
Manifold#:	Initial	Post	Initial	Post
Time				
Pressure (in Hg)				
Manifold Leak Test ☐ Pass ☐ Fail				
Start Time:		End Time:		

Soil Vapor Sampling Field Log

Date: 6-12-23 Field Personnel: KL

Purge Apparatus:	
Purge Volume:	
Purge Time:	
Sample Canister Total Volume:	

PID (PPM) 8.4 Sample ID: SV1-2

Canister #:	Purge		Sample	
<u>1L4150</u>	Initial	Post	Initial	Post
Manifold#: <u>23479</u>				
Time	<u>724 ml</u>		<u>1158</u>	<u>1204</u>
Pressure (in Hg)			<u>27</u>	<u>4</u>
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:		End Time:		

PID (PPM) 9.9 Sample ID: SV1-5

Canister #:	Purge		Sample	
<u>1L2910</u>	Initial	Post	Initial	Post
Manifold#: <u>25229</u>				
Time	<u>1050 ml</u>		<u>1212</u>	<u>1220</u>
Pressure (in Hg)			<u>28</u>	<u>4</u>
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:		End Time:		

PID (PPM) 10.3 Sample ID: SV2-2

Canister #:	Purge		Sample	
<u>1L4062</u>	Initial	Post	Initial	Post
Manifold#: <u>23547</u>				
Time	<u>724 ml</u>		<u>1239</u>	<u>1246</u>
Pressure (in Hg)			<u>26</u>	<u>4</u>
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:		End Time:		

PID (PPM) 9.6 Sample ID: SV2-5

Canister #:	Purge		Sample	
<u>1L3466</u>	Initial	Post	Initial	Post
Manifold#: <u>25261</u>				
Time	<u>1050 ml</u>		<u>1237</u>	<u>1244</u>
Pressure (in Hg)			<u>27</u>	<u>4</u>
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:		End Time:		

Soil Vapor Sampling Field Log

Date: 6-13-23 Field Personnel: LL

Purge Apparatus:	
Purge Volume:	
Purge Time:	
Sample Canister Total Volume:	

PID (PPM) 6.2 Sample ID: SV3-2

Canister #:	Purge		Sample	
Manifold#:	Initial	Post	Initial	Post
Time	<u>1530 m</u>		<u>1015</u>	<u>1022</u>
Pressure (in Hg)			<u>26.3</u>	<u>4</u>
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:			End Time:	

PID (PPM) 6.1 Sample ID: SV3-5

Canister #:	Purge		Sample	
Manifold#:	Initial	Post	Initial	Post
Time	<u>2210</u>		<u>1030</u>	<u>1037</u>
Pressure (in Hg)			<u>2A</u>	<u>4</u>
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:			End Time:	

PID (PPM) 6.3 Sample ID: SV4-2

Canister #:	Purge		Sample	
Manifold#:	Initial	Post	Initial	Post
Time	<u>1530</u>		<u>1100</u>	<u>1107</u>
Pressure (in Hg)			<u>26</u>	<u>4</u>
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:			End Time:	

PID (PPM) Sample ID: SV4-5

Canister #:	Purge		Sample	
Manifold#:	Initial	Post	Initial	Post
Time	<u>2210</u>		<u>1125</u>	<u>1132</u>
Pressure (in Hg)			<u>26.5</u>	<u>4</u>
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:			End Time:	

Soil Vapor Sampling Field Log

Date: 6-13-23 Field Personnel: KL

Purge Apparatus:	
Purge Volume:	
Purge Time:	
Sample Canister Total Volume:	

PID (PPM) 8.2

Sample ID: SV6-2

Canister #:	Purge		Sample	
Manifold#:	Initial	Post	Initial	Post
Time	724 ml		0845	0852
Pressure (in Hg)			27	4
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:			End Time:	

PID (PPM) 23.5

Sample ID: SV6-5

Canister #:	Purge		Sample	
Manifold#:	Initial	Post	Initial	Post
Time	1050 ml		0900	0907
Pressure (in Hg)			26	4
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:			End Time:	

PID (PPM)

Sample ID: SV7-2

Canister #:	Purge		Sample	
Manifold#:	Initial	Post	Initial	Post
Time	724 ml		0920	0928
Pressure (in Hg)			27	4
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:			End Time:	

PID (PPM)

Sample ID: SV7-5

Canister #:	Purge		Sample	
Manifold#:	Initial	Post	Initial	Post
Time	1050 ml		0940	0947
Pressure (in Hg)			26.5	4
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:			End Time:	

Soil Vapor Sampling Field Log

Date: 6-18-23 Field Personnel: VC

Purge Apparatus:	
Purge Volume:	
Purge Time:	
Sample Canister Total Volume:	

PID (PPM) 5.6

Sample ID: SV5-2

Canister #:	Purge		Sample	
Manifold#:	Initial	Post	Initial	Post
Time	<u>1530 ml</u>		<u>0722</u>	<u>0730</u>
Pressure (in Hg)			<u>27</u>	<u>4</u>
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:	End Time:			

PID (PPM) 5.8

Sample ID: SV5-5

Canister #:	Purge		Sample	
Manifold#:	Initial	Post	Initial	Post
Time	<u>2210 ml</u>		<u>0743</u>	<u>0750</u>
Pressure (in Hg)			<u>28</u>	<u>4</u>
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:	End Time:			

PID (PPM) 5.5

Sample ID: SV8-2

Canister #:	Purge		Sample	
Manifold#:	Initial	Post	Initial	Post
Time	<u>1530 ml</u>		<u>0804</u>	<u>0812</u>
Pressure (in Hg)			<u>29</u>	<u>4</u>
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:	End Time:			

PID (PPM) 6.2

Sample ID: SV8-5

Canister #:	Purge		Sample	
Manifold#:	Initial	Post	Initial	Post
Time	<u>2210 ml</u>		<u>0820</u>	<u>0827</u>
Pressure (in Hg)			<u>28</u>	<u>4</u>
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:	End Time:			

Soil Vapor Sampling Field Log

Date: 6-12-23 Field Personnel: LC

Purge Apparatus:	
Purge Volume:	
Purge Time:	
Sample Canister Total Volume:	

PID (PPM) 0 12436 Sample ID: SV9-2

Canister #:	Purge		Sample	
Manifold#:	Initial	Post	Initial	Post
Time	<u>724 ml</u>		<u>1435</u>	<u>1442</u>
Pressure (in Hg)			<u>28</u>	<u>4</u>
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:		End Time:		

PID (PPM) 0 Sample ID: SV9-5

Canister #:	Purge		Sample	
Manifold#:	Initial	Post	Initial	Post
Time	<u>1050 ml</u>		<u>1452</u>	<u>1459</u>
Pressure (in Hg)			<u>28</u>	<u>4</u>
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:		End Time:		

PID (PPM) Sample ID:

Canister #:	Purge		Sample	
Manifold#:	Initial	Post	Initial	Post
Time				
Pressure (in Hg)				
Manifold Leak Test ☐ Pass ☐ Fail				
Start Time:		End Time:		

PID (PPM) Sample ID:

Canister #:	Purge		Sample	
Manifold#:	Initial	Post	Initial	Post
Time				
Pressure (in Hg)				
Manifold Leak Test ☐ Pass ☐ Fail				
Start Time:		End Time:		

Soil Vapor Sampling Field Log

Date: 6-12-23 Field Personnel: KL

Purge Apparatus:	
Purge Volume:	
Purge Time:	
Sample Canister Total Volume:	

PID (PPM) .1 Sample ID: SV11-2

Canister #: <u>1L4125</u>	Purge		Sample	
Manifold#: <u>24065</u>	Initial	Post	Initial	Post
Time	<u>724 ml</u>		<u>1330</u>	<u>1337</u>
Pressure (in Hg)			<u>28.5</u>	<u>4</u>
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:		End Time:		

PID (PPM) 8.8 Sample ID: SV11-5

Canister #: <u>1L4075</u>	Purge		Sample	
Manifold#: <u>23727</u>	Initial	Post	Initial	Post
Time	<u>1050 ml</u>		<u>1345</u>	<u>1353</u>
Pressure (in Hg)			<u>28.5</u>	<u>4</u>
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:		End Time:		

PID (PPM) .2 Sample ID: SV10-2

Canister #: <u>1L4364</u>	Purge		Sample	
Manifold#: <u>23331</u>	Initial	Post	Initial	Post
Time	<u>724 ml</u>		<u>1359</u>	<u>1406</u>
Pressure (in Hg)			<u>27</u>	<u>4</u>
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:		End Time:		

PID (PPM) .1 Sample ID: SV10-5

Canister #: <u>1L3482</u>	Purge		Sample	
Manifold#: <u>23247</u>	Initial	Post	Initial	Post
Time	<u>1050 ml</u>		<u>1415</u>	<u>1422</u>
Pressure (in Hg)			<u>27</u>	<u>4</u>
Manifold Leak Test ☒ Pass ☐ Fail				
Start Time:		End Time:		

APPENDIX D

Soil Vapor Lab Report

6/29/2023

Mr. Brian Millman
AdvancedGeo, Inc
837 Shaw Road

Stockton CA 95215

Project Name: Pacific Highway Auto Care (PHAC)

Project #:

Workorder #: 2306303A

Dear Mr. Brian Millman

The following report includes the data for the above referenced project for sample(s) received on 6/14/2023 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Monica Tran at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Monica Tran
Project Manager

WORK ORDER #: 2306303A

Work Order Summary

CLIENT: Mr. Brian Millman
AdvancedGeo, Inc
837 Shaw Road
Stockton, CA 95215

BILL TO: Mr. Brian Millman
AdvancedGeo, Inc
837 Shaw Road
Stockton, CA 95215

PHONE: 209-467-1006

P.O. # 21.6410

FAX: 209-467-1118

PROJECT # Pacific Highway Auto Care (PHAC)

DATE RECEIVED: 06/14/2023

CONTACT: Monica Tran

DATE COMPLETED: 06/29/2023

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	SV1-2	TO-15	7.3 "Hg	9.8 psi
02A	SV1-5	TO-15	7.1 "Hg	10.2 psi
03A	SV2-2	TO-15	6.9 "Hg	9.7 psi
04A	SV2-5	TO-15	6.9 "Hg	10.2 psi
05A	SV3-2	TO-15	4.5 "Hg	9.7 psi
06A	SV3-5	TO-15	4.7 "Hg	9.6 psi
07A	SV4-2	TO-15	5.3 "Hg	10.1 psi
08A	SV4-5	TO-15	4.9 "Hg	9.8 psi
09A	SV5-2	TO-15	3.9 "Hg	9.6 psi
10A	SV5-5	TO-15	3.5 "Hg	9.9 psi
11A	SV6-2	TO-15	3.9 "Hg	9.9 psi
12A	SV6-5	TO-15	3.3 "Hg	9.7 psi
13A	SV7-2	TO-15	4.5 "Hg	10 psi
14A	SV7-5	TO-15	3.3 "Hg	9.8 psi
15A	SV8-2	TO-15	3.3 "Hg	10.1 psi
16A	SV8-5	TO-15	4.5 "Hg	9.6 psi
17A	SV9-2	TO-15	4.5 "Hg	10.3 psi
18A	SV9-5	TO-15	4.9 "Hg	9.8 psi
19A	SV10-2	TO-15	5.9 "Hg	10 psi
20A	SV10-5	TO-15	7.8 "Hg	9.7 psi
21A	SV11-2	TO-15	4.9 "Hg	10 psi
22A	SV11-5	TO-15	4.5 "Hg	10.1 psi
23A	SV12-2	TO-15	5.9 "Hg	10.3 psi

Continued on next page

WORK ORDER #: 2306303A

Work Order Summary

CLIENT: Mr. Brian Millman
AdvancedGeo, Inc
837 Shaw Road
Stockton, CA 95215

BILL TO: Mr. Brian Millman
AdvancedGeo, Inc
837 Shaw Road
Stockton, CA 95215

PHONE: 209-467-1006

P.O. # 21.6410

FAX: 209-467-1118

PROJECT # Pacific Highway Auto Care (PHAC)

DATE RECEIVED: 06/14/2023

CONTACT: Monica Tran

DATE COMPLETED: 06/29/2023

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
24A	SS1	TO-15	4.1 "Hg	9.9 psi
25A	SS2	TO-15	8.4 "Hg	9.9 psi
26A	Lab Blank	TO-15	NA	NA
26B	Lab Blank	TO-15	NA	NA
26C	Lab Blank	TO-15	NA	NA
26D	Lab Blank	TO-15	NA	NA
26E	Lab Blank	TO-15	NA	NA
27A	CCV	TO-15	NA	NA
27B	CCV	TO-15	NA	NA
27C	CCV	TO-15	NA	NA
27D	CCV	TO-15	NA	NA
27E	CCV	TO-15	NA	NA
28A	LCS	TO-15	NA	NA
28AA	LCSD	TO-15	NA	NA
28B	LCS	TO-15	NA	NA
28BB	LCSD	TO-15	NA	NA
28C	LCS	TO-15	NA	NA
28CC	LCSD	TO-15	NA	NA
28D	LCS	TO-15	NA	NA
28DD	LCSD	TO-15	NA	NA
28E	LCS	TO-15	NA	NA
28EE	LCSD	TO-15	NA	NA

CERTIFIED BY:



Technical Director

DATE: 06/29/23

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP – 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP – T104704434-22-18, UT NELAP – CA009332022-14, VA NELAP - 12240, WA ELAP - C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-017

Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
EPA Method TO-15
AdvancedGeo, Inc
Workorder# 2306303A

Twenty-five 1 Liter Summa Canister samples were received on June 14, 2023. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

The Chain of Custody (COC) information for samples SV4-2 and SV9-2 did not match the information on the canister with regard to canister barcode. The samples labeled 1L3832 and 1L436 on the COC are labeled as 1L3823 and 1L4368 on the canister. The client was notified of the discrepancy and the information on the canister was used to process and report the samples.

Analytical Notes

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

The summa canister for sample SV12-2 was initially pressurized to approximately 10 psi per project specifications. After multiple analyses were performed, the sample was found to be at ambient pressure at the time of TO-15 analysis. The sample canister was subsequently re-pressurized which resulted in elevated reporting limits for TO-15. Analysis proceeded.

Dilution was performed on samples SV1-2, SV5-2, SV5-5, SV6-5, SV7-5 and SS2 due to the presence of high level target species.

The recovery of surrogate 1,2-Dichloroethane-d4 in samples SV6-5 and SV7-5 was outside laboratory control limits due to high level hydrocarbon matrix interference. The surrogate recovery is flagged.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.
M - Reported value may be biased due to apparent matrix interferences.
CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV1-2	Date/Time Analyzed:	6/22/23 05:08 PM
Lab ID:	2306303A-01A	Dilution Factor:	4.40
Date/Time Collected:	6/12/23 12:04 PM	Instrument/Filename:	msdp.i / p062209
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	2.2	6.0	12	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	2.8	11	15	Not Detected
1,1,2-Trichloroethane	79-00-5	1.8	9.0	12	Not Detected
1,1-Dichloroethane	75-34-3	1.8	4.4	8.9	Not Detected
1,1-Dichloroethene	75-35-4	2.2	6.5	8.7	Not Detected
1,1-Difluoroethane	75-37-6	5.2	D	24	1800
1,2,4-Trichlorobenzene	120-82-1	23	56	65	Not Detected
1,2,4-Trimethylbenzene	95-63-6	3.8	8.1	11	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	3.8	13	17	Not Detected
1,2-Dichlorobenzene	95-50-1	4.3	9.9	13	Not Detected
1,2-Dichloroethane	107-06-2	2.0	6.7	8.9	Not Detected
1,2-Dichloropropane	78-87-5	2.0	7.6	10	Not Detected
1,3,5-Trimethylbenzene	108-67-8	3.7	8.1	11	Not Detected
1,3-Butadiene	106-99-0	2.0	3.6	4.9	Not Detected
1,3-Dichlorobenzene	541-73-1	2.8	9.9	13	Not Detected
1,4-Dichlorobenzene	106-46-7	4.7	9.9	13	Not Detected
1,4-Dioxane	123-91-1	1.8	12	32	Not Detected
2,2,4-Trimethylpentane	540-84-1	2.2	7.7	10	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	3.1	22	26	28
2-Hexanone	591-78-6	13	31	36	Not Detected
2-Propanol	67-63-0	6.8	18	22	Not Detected
3-Chloropropene	107-05-1	3.7	10	28	Not Detected
4-Ethyltoluene	622-96-8	2.6	8.1	11	Not Detected
4-Methyl-2-pentanone	108-10-1	5.4	6.8	9.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV1-2	Date/Time Analyzed:	6/22/23 05:08 PM
Lab ID:	2306303A-01A	Dilution Factor:	4.40
Date/Time Collected:	6/12/23 12:04 PM	Instrument/Filename:	msdp.i / p062209
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	19	26	52	47 J
alpha-Chlorotoluene	100-44-7	3.8	8.5	11	Not Detected
Benzene	71-43-2	1.5	5.3	7.0	Not Detected
Bromodichloromethane	75-27-4	2.6	7.4	15	Not Detected
Bromoform	75-25-2	5.8	17	23	Not Detected
Bromomethane	74-83-9	25	29	85	Not Detected
Carbon Disulfide	75-15-0	21	23	27	Not Detected
Carbon Tetrachloride	56-23-5	2.6	10	14	Not Detected
Chlorobenzene	108-90-7	1.5	5.1	10	Not Detected
Chloroethane	75-00-3	7.5	20	23	Not Detected
Chloroform	67-66-3	1.7	5.4	11	Not Detected
Chloromethane	74-87-3	6.9	15	45	Not Detected
cis-1,2-Dichloroethene	156-59-2	2.0	6.5	8.7	Not Detected
cis-1,3-Dichloropropene	10061-01-5	2.5	7.5	10	Not Detected
Cumene	98-82-8	3.9	8.1	11	Not Detected
Cyclohexane	110-82-7	1.5	5.7	7.6	Not Detected
Dibromochloromethane	124-48-1	3.9	14	19	Not Detected
Ethanol	64-17-5	17	21	41	Not Detected
Ethyl Benzene	100-41-4	2.1	7.2	9.6	Not Detected
Freon 11	75-69-4	2.4	9.3	12	Not Detected
Freon 113	76-13-1	3.9	13	17	Not Detected
Freon 114	76-14-2	4.8	12	15	Not Detected
Freon 12	75-71-8	1.6	8.2	11	2.1 J
Heptane	142-82-5	2.5	6.8	9.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV1-2	Date/Time Analyzed:	6/22/23 05:08 PM
Lab ID:	2306303A-01A	Dilution Factor:	4.40
Date/Time Collected:	6/12/23 12:04 PM	Instrument/Filename:	msdp.i / p062209
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	34	80	94	Not Detected
Hexane	110-54-3	2.2	5.8	7.8	Not Detected
m,p-Xylene	108-38-3	3.4	7.2	19	4.8 J
Methyl tert-butyl ether	1634-04-4	1.9	12	32	Not Detected
Methylene Chloride	75-09-2	5.4	26	76	Not Detected
Naphthalene	91-20-3	2.8	5.8	23	28
o-Xylene	95-47-6	1.8	7.2	9.6	Not Detected
Propylbenzene	103-65-1	1.4	8.1	11	Not Detected
Styrene	100-42-5	1.9	7.0	9.4	Not Detected
Tetrachloroethene	127-18-4	2.8	11	15	21
Tetrahydrofuran	109-99-9	2.0	4.9	6.5	150
Toluene	108-88-3	2.1	6.2	16	7.1 J
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	900	Not Detected
trans-1,2-Dichloroethene	156-60-5	2.0	6.5	8.7	Not Detected
trans-1,3-Dichloropropene	10061-02-6	1.8	7.5	10	Not Detected
Trichloroethene	79-01-6	2.6	8.9	12	Not Detected
Vinyl Chloride	75-01-4	1.3	4.2	5.6	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	124
4-Bromofluorobenzene	460-00-4	70-130	121
Toluene-d8	2037-26-5	70-130	104

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV1-5	Date/Time Analyzed:	6/23/23 12:16 AM
Lab ID:	2306303A-02A	Dilution Factor:	2.22
Date/Time Collected:	6/12/23 12:20 PM	Instrument/Filename:	msdp.i / p062219
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	1.1	3.0	6.0	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	1.4	5.7	7.6	Not Detected
1,1,2-Trichloroethane	79-00-5	0.90	4.5	6.0	Not Detected
1,1-Dichloroethane	75-34-3	0.94	2.2	4.5	Not Detected
1,1-Dichloroethene	75-35-4	1.1	3.3	4.4	Not Detected
1,1-Difluoroethane	75-37-6	2.6	D	12	Not Detected
1,2,4-Trichlorobenzene	120-82-1	12	28	33	Not Detected
1,2,4-Trimethylbenzene	95-63-6	1.9	4.1	5.4	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	1.9	6.4	8.5	Not Detected
1,2-Dichlorobenzene	95-50-1	2.2	5.0	6.7	Not Detected
1,2-Dichloroethane	107-06-2	1.0	3.4	4.5	Not Detected
1,2-Dichloropropane	78-87-5	1.0	3.8	5.1	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.8	4.1	5.4	Not Detected
1,3-Butadiene	106-99-0	1.0	1.8	2.4	Not Detected
1,3-Dichlorobenzene	541-73-1	1.4	5.0	6.7	Not Detected
1,4-Dichlorobenzene	106-46-7	2.4	5.0	6.7	Not Detected
1,4-Dioxane	123-91-1	0.89	6.0	16	Not Detected
2,2,4-Trimethylpentane	540-84-1	1.1	3.9	5.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.6	11	13	40
2-Hexanone	591-78-6	6.5	15	18	Not Detected
2-Propanol	67-63-0	3.4	9.3	11	5.2 J
3-Chloropropene	107-05-1	1.9	5.2	14	Not Detected
4-Ethyltoluene	622-96-8	1.3	4.1	5.4	Not Detected
4-Methyl-2-pentanone	108-10-1	2.7	3.4	4.5	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV1-5	Date/Time Analyzed:	6/23/23 12:16 AM
Lab ID:	2306303A-02A	Dilution Factor:	2.22
Date/Time Collected:	6/12/23 12:20 PM	Instrument/Filename:	msdp.i / p062219
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	9.7	13	26	46
alpha-Chlorotoluene	100-44-7	1.9	4.3	5.7	Not Detected
Benzene	71-43-2	0.78	2.6	3.5	0.88 J
Bromodichloromethane	75-27-4	1.3	3.7	7.4	Not Detected
Bromoform	75-25-2	3.0	8.6	11	Not Detected
Bromomethane	74-83-9	13	15	43	Not Detected
Carbon Disulfide	75-15-0	11	12	14	15
Carbon Tetrachloride	56-23-5	1.3	5.2	7.0	Not Detected
Chlorobenzene	108-90-7	0.78	2.6	5.1	Not Detected
Chloroethane	75-00-3	3.8	10	12	Not Detected
Chloroform	67-66-3	0.84	2.7	5.4	1.3 J
Chloromethane	74-87-3	3.5	7.8	23	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.99	3.3	4.4	Not Detected
cis-1,3-Dichloropropene	10061-01-5	1.3	3.8	5.0	Not Detected
Cumene	98-82-8	1.9	4.1	5.4	Not Detected
Cyclohexane	110-82-7	0.74	2.9	3.8	Not Detected
Dibromochloromethane	124-48-1	2.0	7.1	9.4	Not Detected
Ethanol	64-17-5	8.8	10	21	30
Ethyl Benzene	100-41-4	1.1	3.6	4.8	2.3 J
Freon 11	75-69-4	1.2	4.7	6.2	1.3 J
Freon 113	76-13-1	2.0	6.4	8.5	Not Detected
Freon 114	76-14-2	2.4	5.8	7.8	Not Detected
Freon 12	75-71-8	0.81	4.1	5.5	2.4 J
Heptane	142-82-5	1.3	3.4	4.5	1.4 J

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV1-5	Date/Time Analyzed:	6/23/23 12:16 AM
Lab ID:	2306303A-02A	Dilution Factor:	2.22
Date/Time Collected:	6/12/23 12:20 PM	Instrument/Filename:	msdp.i / p062219
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	17	40	47	Not Detected
Hexane	110-54-3	1.1	2.9	3.9	1.9 J
m,p-Xylene	108-38-3	1.7	3.6	9.6	6.0 J
Methyl tert-butyl ether	1634-04-4	0.97	6.0	16	Not Detected
Methylene Chloride	75-09-2	2.7	13	38	Not Detected
Naphthalene	91-20-3	1.4	2.9	12	1.8 J
o-Xylene	95-47-6	0.89	3.6	4.8	2.0 J
Propylbenzene	103-65-1	0.70	4.1	5.4	Not Detected
Styrene	100-42-5	0.96	3.5	4.7	Not Detected
Tetrachloroethene	127-18-4	1.4	5.6	7.5	Not Detected
Tetrahydrofuran	109-99-9	1.0	2.4	3.3	220
Toluene	108-88-3	1.1	3.1	8.4	8.8
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	450	530
trans-1,2-Dichloroethene	156-60-5	0.99	3.3	4.4	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.89	3.8	5.0	Not Detected
Trichloroethene	79-01-6	1.3	4.5	6.0	Not Detected
Vinyl Chloride	75-01-4	0.67	2.1	2.8	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	122
4-Bromofluorobenzene	460-00-4	70-130	121
Toluene-d8	2037-26-5	70-130	103

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV2-2	Date/Time Analyzed:	6/22/23 07:41 PM
Lab ID:	2306303A-03A	Dilution Factor:	2.16
Date/Time Collected:	6/12/23 12:46 PM	Instrument/Filename:	msdp.i / p062214
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	1.1	2.9	5.9	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	1.4	5.6	7.4	Not Detected
1,1,2-Trichloroethane	79-00-5	0.88	4.4	5.9	Not Detected
1,1-Dichloroethane	75-34-3	0.91	2.2	4.4	Not Detected
1,1-Dichloroethene	75-35-4	1.1	3.2	4.3	Not Detected
1,1-Difluoroethane	75-37-6	2.5	D	12	160
1,2,4-Trichlorobenzene	120-82-1	12	27	32	Not Detected
1,2,4-Trimethylbenzene	95-63-6	1.9	4.0	5.3	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	1.9	6.2	8.3	Not Detected
1,2-Dichlorobenzene	95-50-1	2.1	4.9	6.5	Not Detected
1,2-Dichloroethane	107-06-2	1.0	3.3	4.4	Not Detected
1,2-Dichloropropane	78-87-5	0.98	3.7	5.0	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.8	4.0	5.3	Not Detected
1,3-Butadiene	106-99-0	0.99	1.8	2.4	Not Detected
1,3-Dichlorobenzene	541-73-1	1.4	4.9	6.5	Not Detected
1,4-Dichlorobenzene	106-46-7	2.3	4.9	6.5	Not Detected
1,4-Dioxane	123-91-1	0.86	5.8	16	Not Detected
2,2,4-Trimethylpentane	540-84-1	1.1	3.8	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.5	11	13	24
2-Hexanone	591-78-6	6.3	15	18	Not Detected
2-Propanol	67-63-0	3.3	9.0	11	3.4 J
3-Chloropropene	107-05-1	1.8	5.1	14	Not Detected
4-Ethyltoluene	622-96-8	1.3	4.0	5.3	Not Detected
4-Methyl-2-pentanone	108-10-1	2.7	3.3	4.4	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV2-2	Date/Time Analyzed:	6/22/23 07:41 PM
Lab ID:	2306303A-03A	Dilution Factor:	2.16
Date/Time Collected:	6/12/23 12:46 PM	Instrument/Filename:	msdp.i / p062214
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	9.4	13	26	32
alpha-Chlorotoluene	100-44-7	1.9	4.2	5.6	Not Detected
Benzene	71-43-2	0.76	2.6	3.4	0.94 J
Bromodichloromethane	75-27-4	1.3	3.6	7.2	Not Detected
Bromoform	75-25-2	2.9	8.4	11	Not Detected
Bromomethane	74-83-9	12	14	42	Not Detected
Carbon Disulfide	75-15-0	10	11	13	Not Detected
Carbon Tetrachloride	56-23-5	1.2	5.1	6.8	Not Detected
Chlorobenzene	108-90-7	0.75	2.5	5.0	Not Detected
Chloroethane	75-00-3	3.7	9.7	11	Not Detected
Chloroform	67-66-3	0.82	2.6	5.3	1.2 J
Chloromethane	74-87-3	3.4	7.6	22	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.96	3.2	4.3	Not Detected
cis-1,3-Dichloropropene	10061-01-5	1.2	3.7	4.9	Not Detected
Cumene	98-82-8	1.9	4.0	5.3	Not Detected
Cyclohexane	110-82-7	0.72	2.8	3.7	Not Detected
Dibromochloromethane	124-48-1	1.9	6.9	9.2	Not Detected
Ethanol	64-17-5	8.6	10	20	18 J
Ethyl Benzene	100-41-4	1.0	3.5	4.7	Not Detected
Freon 11	75-69-4	1.2	4.6	6.1	1.2 J
Freon 113	76-13-1	1.9	6.2	8.3	Not Detected
Freon 114	76-14-2	2.3	5.7	7.6	Not Detected
Freon 12	75-71-8	0.79	4.0	5.3	2.3 J
Heptane	142-82-5	1.2	3.3	4.4	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV2-2	Date/Time Analyzed:	6/22/23 07:41 PM
Lab ID:	2306303A-03A	Dilution Factor:	2.16
Date/Time Collected:	6/12/23 12:46 PM	Instrument/Filename:	msdp.i / p062214
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	17	39	46	Not Detected
Hexane	110-54-3	1.1	2.8	3.8	Not Detected
m,p-Xylene	108-38-3	1.6	3.5	9.4	3.7 J
Methyl tert-butyl ether	1634-04-4	0.95	5.8	16	Not Detected
Methylene Chloride	75-09-2	2.6	13	38	Not Detected
Naphthalene	91-20-3	1.4	2.8	11	Not Detected
o-Xylene	95-47-6	0.87	3.5	4.7	1.2 J
Propylbenzene	103-65-1	0.68	4.0	5.3	Not Detected
Styrene	100-42-5	0.93	3.4	4.6	Not Detected
Tetrachloroethene	127-18-4	1.4	5.5	7.3	Not Detected
Tetrahydrofuran	109-99-9	0.98	2.4	3.2	130
Toluene	108-88-3	1.0	3.0	8.1	4.4 J
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	440	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.97	3.2	4.3	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.86	3.7	4.9	Not Detected
Trichloroethene	79-01-6	1.3	4.4	5.8	Not Detected
Vinyl Chloride	75-01-4	0.66	2.1	2.8	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	124
4-Bromofluorobenzene	460-00-4	70-130	120
Toluene-d8	2037-26-5	70-130	102

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV2-5	Date/Time Analyzed:	6/22/23 08:13 PM
Lab ID:	2306303A-04A	Dilution Factor:	2.20
Date/Time Collected:	6/12/23 01:04 PM	Instrument/Filename:	msdp.i / p062215
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	1.1	3.0	6.0	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	1.4	5.7	7.6	Not Detected
1,1,2-Trichloroethane	79-00-5	0.89	4.5	6.0	Not Detected
1,1-Dichloroethane	75-34-3	0.93	2.2	4.4	Not Detected
1,1-Dichloroethene	75-35-4	1.1	3.3	4.4	Not Detected
1,1-Difluoroethane	75-37-6	2.6	D	12	Not Detected
1,2,4-Trichlorobenzene	120-82-1	12	28	33	Not Detected
1,2,4-Trimethylbenzene	95-63-6	1.9	4.0	5.4	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	1.9	6.3	8.4	Not Detected
1,2-Dichlorobenzene	95-50-1	2.2	5.0	6.6	Not Detected
1,2-Dichloroethane	107-06-2	1.0	3.3	4.4	Not Detected
1,2-Dichloropropane	78-87-5	1.0	3.8	5.1	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.8	4.0	5.4	Not Detected
1,3-Butadiene	106-99-0	1.0	1.8	2.4	Not Detected
1,3-Dichlorobenzene	541-73-1	1.4	5.0	6.6	Not Detected
1,4-Dichlorobenzene	106-46-7	2.4	5.0	6.6	Not Detected
1,4-Dioxane	123-91-1	0.88	5.9	16	Not Detected
2,2,4-Trimethylpentane	540-84-1	1.1	3.8	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.6	11	13	33
2-Hexanone	591-78-6	6.4	15	18	Not Detected
2-Propanol	67-63-0	3.4	9.2	11	5.6 J
3-Chloropropene	107-05-1	1.8	5.2	14	Not Detected
4-Ethyltoluene	622-96-8	1.3	4.0	5.4	Not Detected
4-Methyl-2-pentanone	108-10-1	2.7	3.4	4.5	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV2-5	Date/Time Analyzed:	6/22/23 08:13 PM
Lab ID:	2306303A-04A	Dilution Factor:	2.20
Date/Time Collected:	6/12/23 01:04 PM	Instrument/File name:	msdp.i / p062215
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	9.6	13	26	50
alpha-Chlorotoluene	100-44-7	1.9	4.3	5.7	Not Detected
Benzene	71-43-2	0.77	2.6	3.5	0.78 J
Bromodichloromethane	75-27-4	1.3	3.7	7.4	Not Detected
Bromoform	75-25-2	2.9	8.5	11	Not Detected
Bromomethane	74-83-9	13	14	43	Not Detected
Carbon Disulfide	75-15-0	10	12	14	Not Detected
Carbon Tetrachloride	56-23-5	1.3	5.2	6.9	Not Detected
Chlorobenzene	108-90-7	0.77	2.5	5.1	Not Detected
Chloroethane	75-00-3	3.8	9.9	12	Not Detected
Chloroform	67-66-3	0.83	2.7	5.4	1.4 J
Chloromethane	74-87-3	3.4	7.7	23	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.98	3.3	4.4	Not Detected
cis-1,3-Dichloropropene	10061-01-5	1.3	3.7	5.0	Not Detected
Cumene	98-82-8	1.9	4.0	5.4	Not Detected
Cyclohexane	110-82-7	0.73	2.8	3.8	Not Detected
Dibromochloromethane	124-48-1	1.9	7.0	9.4	Not Detected
Ethanol	64-17-5	8.7	10	21	19 J
Ethyl Benzene	100-41-4	1.1	3.6	4.8	Not Detected
Freon 11	75-69-4	1.2	4.6	6.2	Not Detected
Freon 113	76-13-1	1.9	6.3	8.4	Not Detected
Freon 114	76-14-2	2.4	5.8	7.7	Not Detected
Freon 12	75-71-8	0.80	4.1	5.4	2.9 J
Heptane	142-82-5	1.2	3.4	4.5	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV2-5	Date/Time Analyzed:	6/22/23 08:13 PM
Lab ID:	2306303A-04A	Dilution Factor:	2.20
Date/Time Collected:	6/12/23 01:04 PM	Instrument/Filename:	msdp.i / p062215
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	17	40	47	Not Detected
Hexane	110-54-3	1.1	2.9	3.9	Not Detected
m,p-Xylene	108-38-3	1.7	3.6	9.6	3.3 J
Methyl tert-butyl ether	1634-04-4	0.96	5.9	16	Not Detected
Methylene Chloride	75-09-2	2.7	13	38	Not Detected
Naphthalene	91-20-3	1.4	2.9	12	Not Detected
o-Xylene	95-47-6	0.88	3.6	4.8	1.1 J
Propylbenzene	103-65-1	0.70	4.0	5.4	Not Detected
Styrene	100-42-5	0.95	3.5	4.7	Not Detected
Tetrachloroethene	127-18-4	1.4	5.6	7.5	Not Detected
Tetrahydrofuran	109-99-9	0.99	2.4	3.2	160
Toluene	108-88-3	1.1	3.1	8.3	4.1 J
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	450	450
trans-1,2-Dichloroethene	156-60-5	0.98	3.3	4.4	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.88	3.7	5.0	Not Detected
Trichloroethene	79-01-6	1.3	4.4	5.9	Not Detected
Vinyl Chloride	75-01-4	0.67	2.1	2.8	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	124
4-Bromofluorobenzene	460-00-4	70-130	125
Toluene-d8	2037-26-5	70-130	102

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV3-2	Date/Time Analyzed:	6/22/23 11:44 PM
Lab ID:	2306303A-05A	Dilution Factor:	1.95
Date/Time Collected:	6/13/23 10:22 AM	Instrument/Filename:	msdp.i / p062218
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	1.0	2.7	5.3	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	1.2	5.0	6.7	Not Detected
1,1,2-Trichloroethane	79-00-5	0.79	4.0	5.3	Not Detected
1,1-Dichloroethane	75-34-3	0.82	2.0	3.9	Not Detected
1,1-Dichloroethene	75-35-4	0.98	2.9	3.9	Not Detected
1,1-Difluoroethane	75-37-6	2.3	D	10	Not Detected
1,2,4-Trichlorobenzene	120-82-1	10	25	29	Not Detected
1,2,4-Trimethylbenzene	95-63-6	1.7	3.6	4.8	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	1.7	5.6	7.5	Not Detected
1,2-Dichlorobenzene	95-50-1	1.9	4.4	5.9	Not Detected
1,2-Dichloroethane	107-06-2	0.90	3.0	3.9	Not Detected
1,2-Dichloropropane	78-87-5	0.88	3.4	4.5	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.6	3.6	4.8	Not Detected
1,3-Butadiene	106-99-0	0.89	1.6	2.2	Not Detected
1,3-Dichlorobenzene	541-73-1	1.3	4.4	5.9	Not Detected
1,4-Dichlorobenzene	106-46-7	2.1	4.4	5.9	Not Detected
1,4-Dioxane	123-91-1	0.78	5.3	14	Not Detected
2,2,4-Trimethylpentane	540-84-1	1.0	3.4	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.4	9.8	12	17
2-Hexanone	591-78-6	5.7	14	16	Not Detected
2-Propanol	67-63-0	3.0	8.1	9.6	3.6 J
3-Chloropropene	107-05-1	1.6	4.6	12	Not Detected
4-Ethyltoluene	622-96-8	1.2	3.6	4.8	Not Detected
4-Methyl-2-pentanone	108-10-1	2.4	3.0	4.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV3-2	Date/Time Analyzed:	6/22/23 11:44 PM
Lab ID:	2306303A-05A	Dilution Factor:	1.95
Date/Time Collected:	6/13/23 10:22 AM	Instrument/Filename:	msdp.i / p062218
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	8.5	12	23	30
alpha-Chlorotoluene	100-44-7	1.7	3.8	5.0	Not Detected
Benzene	71-43-2	0.68	2.3	3.1	Not Detected
Bromodichloromethane	75-27-4	1.2	3.3	6.5	Not Detected
Bromoform	75-25-2	2.6	7.6	10	Not Detected
Bromomethane	74-83-9	11	13	38	Not Detected
Carbon Disulfide	75-15-0	9.3	10	12	Not Detected
Carbon Tetrachloride	56-23-5	1.1	4.6	6.1	Not Detected
Chlorobenzene	108-90-7	0.68	2.2	4.5	Not Detected
Chloroethane	75-00-3	3.3	8.7	10	Not Detected
Chloroform	67-66-3	0.74	2.4	4.8	Not Detected
Chloromethane	74-87-3	3.1	6.8	20	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.87	2.9	3.9	Not Detected
cis-1,3-Dichloropropene	10061-01-5	1.1	3.3	4.4	Not Detected
Cumene	98-82-8	1.7	3.6	4.8	Not Detected
Cyclohexane	110-82-7	0.65	2.5	3.4	0.73 J
Dibromochloromethane	124-48-1	1.7	6.2	8.3	Not Detected
Ethanol	64-17-5	7.7	9.2	18	12 J
Ethyl Benzene	100-41-4	0.95	3.2	4.2	Not Detected
Freon 11	75-69-4	1.1	4.1	5.5	1.4 J
Freon 113	76-13-1	1.7	5.6	7.5	Not Detected
Freon 114	76-14-2	2.1	5.1	6.8	Not Detected
Freon 12	75-71-8	0.71	3.6	4.8	2.3 J
Heptane	142-82-5	1.1	3.0	4.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV3-2	Date/Time Analyzed:	6/22/23 11:44 PM
Lab ID:	2306303A-05A	Dilution Factor:	1.95
Date/Time Collected:	6/13/23 10:22 AM	Instrument/Filename:	msdp.i / p062218
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	15	35	42	Not Detected
Hexane	110-54-3	0.98	2.6	3.4	Not Detected
m,p-Xylene	108-38-3	1.5	3.2	8.5	Not Detected
Methyl tert-butyl ether	1634-04-4	0.86	5.3	14	Not Detected
Methylene Chloride	75-09-2	2.4	12	34	Not Detected
Naphthalene	91-20-3	1.2	2.6	10	5.0 J
o-Xylene	95-47-6	0.78	3.2	4.2	Not Detected
Propylbenzene	103-65-1	0.62	3.6	4.8	Not Detected
Styrene	100-42-5	0.84	3.1	4.2	Not Detected
Tetrachloroethene	127-18-4	1.2	5.0	6.6	Not Detected
Tetrahydrofuran	109-99-9	0.88	2.2	2.9	93
Toluene	108-88-3	0.95	2.8	7.3	2.0 J
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	400	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.87	2.9	3.9	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.78	3.3	4.4	Not Detected
Trichloroethene	79-01-6	1.1	3.9	5.2	Not Detected
Vinyl Chloride	75-01-4	0.59	1.9	2.5	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	121
4-Bromofluorobenzene	460-00-4	70-130	122
Toluene-d8	2037-26-5	70-130	102

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV3-5	Date/Time Analyzed:	6/23/23 01:20 AM
Lab ID:	2306303A-06A	Dilution Factor:	1.96
Date/Time Collected:	6/13/23 10:37 AM	Instrument/Filename:	msdp.i / p062221
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	1.0	2.7	5.3	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	1.2	5.0	6.7	Not Detected
1,1,2-Trichloroethane	79-00-5	0.79	4.0	5.3	Not Detected
1,1-Dichloroethane	75-34-3	0.83	2.0	4.0	Not Detected
1,1-Dichloroethene	75-35-4	0.98	2.9	3.9	Not Detected
1,1-Difluoroethane	75-37-6	2.3	D	10	Not Detected
1,2,4-Trichlorobenzene	120-82-1	10	25	29	Not Detected
1,2,4-Trimethylbenzene	95-63-6	1.7	3.6	4.8	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	1.7	5.6	7.5	Not Detected
1,2-Dichlorobenzene	95-50-1	1.9	4.4	5.9	Not Detected
1,2-Dichloroethane	107-06-2	0.91	3.0	4.0	Not Detected
1,2-Dichloropropane	78-87-5	0.89	3.4	4.5	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.6	3.6	4.8	Not Detected
1,3-Butadiene	106-99-0	0.90	1.6	2.2	Not Detected
1,3-Dichlorobenzene	541-73-1	1.3	4.4	5.9	Not Detected
1,4-Dichlorobenzene	106-46-7	2.1	4.4	5.9	Not Detected
1,4-Dioxane	123-91-1	0.78	5.3	14	Not Detected
2,2,4-Trimethylpentane	540-84-1	1.0	3.4	4.6	140
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.4	9.8	12	16
2-Hexanone	591-78-6	5.7	14	16	Not Detected
2-Propanol	67-63-0	3.0	8.2	9.6	3.2 J
3-Chloropropene	107-05-1	1.6	4.6	12	Not Detected
4-Ethyltoluene	622-96-8	1.2	3.6	4.8	Not Detected
4-Methyl-2-pentanone	108-10-1	2.4	3.0	4.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV3-5	Date/Time Analyzed:	6/23/23 01:20 AM
Lab ID:	2306303A-06A	Dilution Factor:	1.96
Date/Time Collected:	6/13/23 10:37 AM	Instrument/File Name:	msdp.i / p062221
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	8.6	12	23	29
alpha-Chlorotoluene	100-44-7	1.7	3.8	5.1	Not Detected
Benzene	71-43-2	0.69	2.3	3.1	Not Detected
Bromodichloromethane	75-27-4	1.2	3.3	6.6	Not Detected
Bromoform	75-25-2	2.6	7.6	10	Not Detected
Bromomethane	74-83-9	11	13	38	Not Detected
Carbon Disulfide	75-15-0	9.4	10	12	Not Detected
Carbon Tetrachloride	56-23-5	1.1	4.6	6.2	Not Detected
Chlorobenzene	108-90-7	0.68	2.2	4.5	Not Detected
Chloroethane	75-00-3	3.3	8.8	10	Not Detected
Chloroform	67-66-3	0.74	2.4	4.8	1.6 J
Chloromethane	74-87-3	3.1	6.9	20	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.87	2.9	3.9	Not Detected
cis-1,3-Dichloropropene	10061-01-5	1.1	3.3	4.4	Not Detected
Cumene	98-82-8	1.7	3.6	4.8	Not Detected
Cyclohexane	110-82-7	0.65	2.5	3.4	7.6
Dibromochloromethane	124-48-1	1.7	6.3	8.3	Not Detected
Ethanol	64-17-5	7.8	9.2	18	13 J
Ethyl Benzene	100-41-4	0.95	3.2	4.2	Not Detected
Freon 11	75-69-4	1.1	4.1	5.5	1.4 J
Freon 113	76-13-1	1.7	5.6	7.5	Not Detected
Freon 114	76-14-2	2.1	5.1	6.8	Not Detected
Freon 12	75-71-8	0.71	3.6	4.8	2.1 J
Heptane	142-82-5	1.1	3.0	4.0	3.6 J

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV3-5	Date/Time Analyzed:	6/23/23 01:20 AM
Lab ID:	2306303A-06A	Dilution Factor:	1.96
Date/Time Collected:	6/13/23 10:37 AM	Instrument/Filename:	msdp.i / p062221
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	15	36	42	Not Detected
Hexane	110-54-3	0.98	2.6	3.4	20
m,p-Xylene	108-38-3	1.5	3.2	8.5	Not Detected
Methyl tert-butyl ether	1634-04-4	0.86	5.3	14	Not Detected
Methylene Chloride	75-09-2	2.4	12	34	Not Detected
Naphthalene	91-20-3	1.2	2.6	10	Not Detected
o-Xylene	95-47-6	0.79	3.2	4.2	Not Detected
Propylbenzene	103-65-1	0.62	3.6	4.8	Not Detected
Styrene	100-42-5	0.85	3.1	4.2	Not Detected
Tetrachloroethene	127-18-4	1.2	5.0	6.6	Not Detected
Tetrahydrofuran	109-99-9	0.89	2.2	2.9	80
Toluene	108-88-3	0.95	2.8	7.4	1.9 J
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	400	1300
trans-1,2-Dichloroethene	156-60-5	0.88	2.9	3.9	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.78	3.3	4.4	Not Detected
Trichloroethene	79-01-6	1.2	3.9	5.3	8.1
Vinyl Chloride	75-01-4	0.59	1.9	2.5	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	125
4-Bromofluorobenzene	460-00-4	70-130	121
Toluene-d8	2037-26-5	70-130	102

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV4-2	Date/Time Analyzed:	6/23/23 01:51 AM
Lab ID:	2306303A-07A	Dilution Factor:	2.05
Date/Time Collected:	6/13/23 11:07 AM	Instrument/File name:	msdp.i / p062222
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	1.0	2.8	5.6	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	1.3	5.3	7.0	Not Detected
1,1,2-Trichloroethane	79-00-5	0.83	4.2	5.6	Not Detected
1,1-Dichloroethane	75-34-3	0.86	2.1	4.1	Not Detected
1,1-Dichloroethene	75-35-4	1.0	3.0	4.1	Not Detected
1,1-Difluoroethane	75-37-6	2.4	D	11	Not Detected
1,2,4-Trichlorobenzene	120-82-1	11	26	30	Not Detected
1,2,4-Trimethylbenzene	95-63-6	1.8	3.8	5.0	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	1.8	5.9	7.9	Not Detected
1,2-Dichlorobenzene	95-50-1	2.0	4.6	6.2	Not Detected
1,2-Dichloroethane	107-06-2	0.95	3.1	4.1	Not Detected
1,2-Dichloropropane	78-87-5	0.93	3.6	4.7	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.7	3.8	5.0	Not Detected
1,3-Butadiene	106-99-0	0.94	1.7	2.3	Not Detected
1,3-Dichlorobenzene	541-73-1	1.3	4.6	6.2	Not Detected
1,4-Dichlorobenzene	106-46-7	2.2	4.6	6.2	Not Detected
1,4-Dioxane	123-91-1	0.82	5.5	15	Not Detected
2,2,4-Trimethylpentane	540-84-1	1.0	3.6	4.8	4.7 J
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.4	10	12	11 J
2-Hexanone	591-78-6	6.0	14	17	Not Detected
2-Propanol	67-63-0	3.2	8.6	10	Not Detected
3-Chloropropene	107-05-1	1.7	4.8	13	Not Detected
4-Ethyltoluene	622-96-8	1.2	3.8	5.0	Not Detected
4-Methyl-2-pentanone	108-10-1	2.5	3.1	4.2	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV4-2	Date/Time Analyzed:	6/23/23 01:51 AM
Lab ID:	2306303A-07A	Dilution Factor:	2.05
Date/Time Collected:	6/13/23 11:07 AM	Instrument/Filename:	msdp.i / p062222
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	9.0	12	24	17 J
alpha-Chlorotoluene	100-44-7	1.8	4.0	5.3	Not Detected
Benzene	71-43-2	0.72	2.4	3.3	Not Detected
Bromodichloromethane	75-27-4	1.2	3.4	6.9	Not Detected
Bromoform	75-25-2	2.7	7.9	10	Not Detected
Bromomethane	74-83-9	12	14	40	Not Detected
Carbon Disulfide	75-15-0	9.8	11	13	Not Detected
Carbon Tetrachloride	56-23-5	1.2	4.8	6.4	Not Detected
Chlorobenzene	108-90-7	0.72	2.4	4.7	Not Detected
Chloroethane	75-00-3	3.5	9.2	11	Not Detected
Chloroform	67-66-3	0.78	2.5	5.0	Not Detected
Chloromethane	74-87-3	3.2	7.2	21	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.91	3.0	4.1	Not Detected
cis-1,3-Dichloropropene	10061-01-5	1.2	3.5	4.6	Not Detected
Cumene	98-82-8	1.8	3.8	5.0	Not Detected
Cyclohexane	110-82-7	0.68	2.6	3.5	Not Detected
Dibromochloromethane	124-48-1	1.8	6.5	8.7	Not Detected
Ethanol	64-17-5	8.1	9.6	19	9.9 J
Ethyl Benzene	100-41-4	1.0	3.3	4.4	Not Detected
Freon 11	75-69-4	1.1	4.3	5.8	1.2 J
Freon 113	76-13-1	1.8	5.9	7.8	Not Detected
Freon 114	76-14-2	2.2	5.4	7.2	Not Detected
Freon 12	75-71-8	0.75	3.8	5.1	2.5 J
Heptane	142-82-5	1.2	3.2	4.2	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV4-2	Date/Time Analyzed:	6/23/23 01:51 AM
Lab ID:	2306303A-07A	Dilution Factor:	2.05
Date/Time Collected:	6/13/23 11:07 AM	Instrument/Filename:	msdp.i / p062222
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	16	37	44	Not Detected
Hexane	110-54-3	1.0	2.7	3.6	Not Detected
m,p-Xylene	108-38-3	1.6	3.3	8.9	Not Detected
Methyl tert-butyl ether	1634-04-4	0.90	5.5	15	Not Detected
Methylene Chloride	75-09-2	2.5	12	36	Not Detected
Naphthalene	91-20-3	1.3	2.7	11	Not Detected
o-Xylene	95-47-6	0.82	3.3	4.4	Not Detected
Propylbenzene	103-65-1	0.65	3.8	5.0	Not Detected
Styrene	100-42-5	0.88	3.3	4.4	Not Detected
Tetrachloroethene	127-18-4	1.3	5.2	7.0	Not Detected
Tetrahydrofuran	109-99-9	0.93	2.3	3.0	62
Toluene	108-88-3	1.0	2.9	7.7	1.4 J
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	420	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.92	3.0	4.1	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.82	3.5	4.6	Not Detected
Trichloroethene	79-01-6	1.2	4.1	5.5	Not Detected
Vinyl Chloride	75-01-4	0.62	2.0	2.6	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	124
4-Bromofluorobenzene	460-00-4	70-130	125
Toluene-d8	2037-26-5	70-130	102

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV4-5	Date/Time Analyzed:	6/23/23 02:23 AM
Lab ID:	2306303A-08A	Dilution Factor:	1.99
Date/Time Collected:	6/13/23 11:32 AM	Instrument/Filename:	msdp.i / p062223
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	1.0	2.7	5.4	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	1.3	5.1	6.8	Not Detected
1,1,2-Trichloroethane	79-00-5	0.81	4.1	5.4	Not Detected
1,1-Dichloroethane	75-34-3	0.84	2.0	4.0	Not Detected
1,1-Dichloroethene	75-35-4	1.0	3.0	3.9	Not Detected
1,1-Difluoroethane	75-37-6	2.3	D	11	Not Detected
1,2,4-Trichlorobenzene	120-82-1	11	25	30	Not Detected
1,2,4-Trimethylbenzene	95-63-6	1.7	3.7	4.9	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	1.7	5.7	7.6	Not Detected
1,2-Dichlorobenzene	95-50-1	2.0	4.5	6.0	Not Detected
1,2-Dichloroethane	107-06-2	0.92	3.0	4.0	Not Detected
1,2-Dichloropropane	78-87-5	0.90	3.4	4.6	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.7	3.7	4.9	Not Detected
1,3-Butadiene	106-99-0	0.91	1.6	2.2	Not Detected
1,3-Dichlorobenzene	541-73-1	1.3	4.5	6.0	Not Detected
1,4-Dichlorobenzene	106-46-7	2.1	4.5	6.0	Not Detected
1,4-Dioxane	123-91-1	0.80	5.4	14	Not Detected
2,2,4-Trimethylpentane	540-84-1	1.0	3.5	4.6	6.8
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.4	10	12	15
2-Hexanone	591-78-6	5.8	14	16	Not Detected
2-Propanol	67-63-0	3.1	8.3	9.8	3.2 J
3-Chloropropene	107-05-1	1.7	4.7	12	Not Detected
4-Ethyltoluene	622-96-8	1.2	3.7	4.9	Not Detected
4-Methyl-2-pentanone	108-10-1	2.4	3.0	4.1	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV4-5	Date/Time Analyzed:	6/23/23 02:23 AM
Lab ID:	2306303A-08A	Dilution Factor:	1.99
Date/Time Collected:	6/13/23 11:32 AM	Instrument/Filename:	msdp.i / p062223
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	8.7	12	24	38
alpha-Chlorotoluene	100-44-7	1.7	3.9	5.2	Not Detected
Benzene	71-43-2	0.70	2.4	3.2	Not Detected
Bromodichloromethane	75-27-4	1.2	3.3	6.7	Not Detected
Bromoform	75-25-2	2.6	7.7	10	Not Detected
Bromomethane	74-83-9	12	13	39	Not Detected
Carbon Disulfide	75-15-0	9.5	10	12	Not Detected
Carbon Tetrachloride	56-23-5	1.2	4.7	6.3	Not Detected
Chlorobenzene	108-90-7	0.70	2.3	4.6	Not Detected
Chloroethane	75-00-3	3.4	8.9	10	Not Detected
Chloroform	67-66-3	0.75	2.4	4.8	Not Detected
Chloromethane	74-87-3	3.1	7.0	20	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.89	3.0	3.9	Not Detected
cis-1,3-Dichloropropene	10061-01-5	1.1	3.4	4.5	Not Detected
Cumene	98-82-8	1.7	3.7	4.9	Not Detected
Cyclohexane	110-82-7	0.66	2.6	3.4	Not Detected
Dibromochloromethane	124-48-1	1.8	6.4	8.5	Not Detected
Ethanol	64-17-5	7.9	9.4	19	12 J
Ethyl Benzene	100-41-4	0.96	3.2	4.3	Not Detected
Freon 11	75-69-4	1.1	4.2	5.6	1.3 J
Freon 113	76-13-1	1.8	5.7	7.6	Not Detected
Freon 114	76-14-2	2.1	5.2	7.0	Not Detected
Freon 12	75-71-8	0.72	3.7	4.9	2.2 J
Heptane	142-82-5	1.1	3.0	4.1	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV4-5	Date/Time Analyzed:	6/23/23 02:23 AM
Lab ID:	2306303A-08A	Dilution Factor:	1.99
Date/Time Collected:	6/13/23 11:32 AM	Instrument/Filename:	msdp.i / p062223
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	15	36	42	Not Detected
Hexane	110-54-3	1.0	2.6	3.5	Not Detected
m,p-Xylene	108-38-3	1.5	3.2	8.6	Not Detected
Methyl tert-butyl ether	1634-04-4	0.87	5.4	14	Not Detected
Methylene Chloride	75-09-2	2.4	12	34	Not Detected
Naphthalene	91-20-3	1.3	2.6	10	Not Detected
o-Xylene	95-47-6	0.80	3.2	4.3	Not Detected
Propylbenzene	103-65-1	0.63	3.7	4.9	Not Detected
Styrene	100-42-5	0.86	3.2	4.2	Not Detected
Tetrachloroethene	127-18-4	1.3	5.1	6.7	Not Detected
Tetrahydrofuran	109-99-9	0.90	2.2	2.9	63
Toluene	108-88-3	0.97	2.8	7.5	1.5 J
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	410	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.89	3.0	3.9	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.80	3.4	4.5	Not Detected
Trichloroethene	79-01-6	1.2	4.0	5.3	Not Detected
Vinyl Chloride	75-01-4	0.60	1.9	2.5	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	123
4-Bromofluorobenzene	460-00-4	70-130	124
Toluene-d8	2037-26-5	70-130	103

EPA METHOD TO-15 GC/MS
Pacific Highway Auto Care (PHAC)

Client ID:	SV5-2	Date/Time Analyzed:	6/23/23 08:21 PM
Lab ID:	2306303A-09A	Dilution Factor:	11.9
Date/Time Collected:	6/13/23 07:30 AM	Instrument/Filename:	msd14.i / 14062316
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	66	190	320	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	48	240	410	Not Detected
1,1,2-Trichloroethane	79-00-5	110	190	320	Not Detected
1,1-Dichloroethane	75-34-3	50	140	240	Not Detected
1,1-Dichloroethene	75-35-4	49	140	240	Not Detected
1,1-Difluoroethane	75-37-6	110	D	640	280000
1,2,4-Trichlorobenzene	120-82-1	840	1300	1800	Not Detected
1,2,4-Trimethylbenzene	95-63-6	30	180	290	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	36	270	460	Not Detected
1,2-Dichlorobenzene	95-50-1	84	210	360	Not Detected
1,2-Dichloroethane	107-06-2	78	140	240	Not Detected
1,2-Dichloropropane	78-87-5	69	160	270	Not Detected
1,3,5-Trimethylbenzene	108-67-8	60	180	290	Not Detected
1,3-Butadiene	106-99-0	44	79	130	Not Detected
1,3-Dichlorobenzene	541-73-1	40	210	360	Not Detected
1,4-Dichlorobenzene	106-46-7	48	210	360	Not Detected
1,4-Dioxane	123-91-1	210	640	860	Not Detected
2,2,4-Trimethylpentane	540-84-1	32	170	280	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	140	530	700	Not Detected
2-Hexanone	591-78-6	99	730	970	Not Detected
2-Propanol	67-63-0	150	440	730	Not Detected
3-Chloropropene	107-05-1	180	560	740	Not Detected
4-Ethyltoluene	622-96-8	130	180	290	Not Detected
4-Methyl-2-pentanone	108-10-1	120	730	970	Not Detected

EPA METHOD TO-15 GC/MS
Pacific Highway Auto Care (PHAC)

Client ID:	SV5-2	Date/Time Analyzed:	6/23/23 08:21 PM
Lab ID:	2306303A-09A	Dilution Factor:	11.9
Date/Time Collected:	6/13/23 07:30 AM	Instrument/Filename:	msd14.i / 14062316
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	63	420	560	68 J
alpha-Chlorotoluene	100-44-7	40	180	310	Not Detected
Benzene	71-43-2	22	110	190	Not Detected
Bromodichloromethane	75-27-4	74	240	400	Not Detected
Bromoform	75-25-2	84	370	620	Not Detected
Bromomethane	74-83-9	300	690	920	Not Detected
Carbon Disulfide	75-15-0	94	560	740	Not Detected
Carbon Tetrachloride	56-23-5	72	220	370	Not Detected
Chlorobenzene	108-90-7	52	160	270	Not Detected
Chloroethane	75-00-3	120	470	630	Not Detected
Chloroform	67-66-3	57	170	290	Not Detected
Chloromethane	74-87-3	190	370	490	Not Detected
cis-1,2-Dichloroethene	156-59-2	66	140	240	Not Detected
cis-1,3-Dichloropropene	10061-01-5	68	160	270	Not Detected
Cumene	98-82-8	30	180	290	Not Detected
Cyclohexane	110-82-7	42	120	200	Not Detected
Dibromochloromethane	124-48-1	96	300	510	Not Detected
Ethanol	64-17-5	150	340	560	Not Detected
Ethyl Benzene	100-41-4	56	160	260	Not Detected
Freon 11	75-69-4	70	200	330	Not Detected
Freon 113	76-13-1	67	270	460	Not Detected
Freon 114	76-14-2	72	250	420	Not Detected
Freon 12	75-71-8	98	180	290	Not Detected
Heptane	142-82-5	69	150	240	Not Detected

EPA METHOD TO-15 GC/MS
Pacific Highway Auto Care (PHAC)

Client ID:	SV5-2	Date/Time Analyzed:	6/23/23 08:21 PM
Lab ID:	2306303A-09A	Dilution Factor:	11.9
Date/Time Collected:	6/13/23 07:30 AM	Instrument/Filename:	msd14.i / 14062316
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	1400	1900	2500	Not Detected
Hexane	110-54-3	46	120	210	Not Detected
m,p-Xylene	108-38-3	41	160	260	Not Detected
Methyl tert-butyl ether	1634-04-4	54	130	210	Not Detected
Methylene Chloride	75-09-2	120	620	830	Not Detected
Naphthalene	91-20-3	54	190	1200	Not Detected
o-Xylene	95-47-6	41	160	260	Not Detected
Propylbenzene	103-65-1	74	180	290	Not Detected
Styrene	100-42-5	38	150	250	Not Detected
Tetrachloroethene	127-18-4	57	240	400	Not Detected
Tetrahydrofuran	109-99-9	49	100	180	Not Detected
Toluene	108-88-3	33	130	220	Not Detected
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	24000	Not Detected
trans-1,2-Dichloroethene	156-60-5	66	140	240	Not Detected
trans-1,3-Dichloropropene	10061-02-6	59	160	270	Not Detected
Trichloroethene	79-01-6	78	190	320	Not Detected
Vinyl Chloride	75-01-4	64	91	150	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	95
Toluene-d8	2037-26-5	70-130	102

EPA METHOD TO-15 GC/MS
Pacific Highway Auto Care (PHAC)

Client ID:	SV5-5	Date/Time Analyzed:	6/23/23 09:19 PM
Lab ID:	2306303A-10A	Dilution Factor:	11.8
Date/Time Collected:	6/13/23 07:50 AM	Instrument/Filename:	msd14.i / 14062318
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	65	190	320	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	47	240	400	Not Detected
1,1,2-Trichloroethane	79-00-5	110	190	320	Not Detected
1,1-Dichloroethane	75-34-3	50	140	240	Not Detected
1,1-Dichloroethene	75-35-4	49	140	230	Not Detected
1,1-Difluoroethane	75-37-6	110	D	640	230000
1,2,4-Trichlorobenzene	120-82-1	830	1300	1800	Not Detected
1,2,4-Trimethylbenzene	95-63-6	29	170	290	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	36	270	450	Not Detected
1,2-Dichlorobenzene	95-50-1	83	210	350	Not Detected
1,2-Dichloroethane	107-06-2	77	140	240	Not Detected
1,2-Dichloropropane	78-87-5	69	160	270	Not Detected
1,3,5-Trimethylbenzene	108-67-8	60	170	290	Not Detected
1,3-Butadiene	106-99-0	44	78	130	Not Detected
1,3-Dichlorobenzene	541-73-1	40	210	350	Not Detected
1,4-Dichlorobenzene	106-46-7	48	210	350	Not Detected
1,4-Dioxane	123-91-1	210	640	850	Not Detected
2,2,4-Trimethylpentane	540-84-1	32	160	280	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	140	520	700	Not Detected
2-Hexanone	591-78-6	98	720	970	Not Detected
2-Propanol	67-63-0	150	440	720	Not Detected
3-Chloropropene	107-05-1	180	550	740	Not Detected
4-Ethyltoluene	622-96-8	130	170	290	Not Detected
4-Methyl-2-pentanone	108-10-1	120	720	970	Not Detected

EPA METHOD TO-15 GC/MS
Pacific Highway Auto Care (PHAC)

Client ID:	SV5-5	Date/Time Analyzed:	6/23/23 09:19 PM
Lab ID:	2306303A-10A	Dilution Factor:	11.8
Date/Time Collected:	6/13/23 07:50 AM	Instrument/Filename:	msd14.i / 14062318
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	62	420	560	Not Detected
alpha-Chlorotoluene	100-44-7	40	180	300	Not Detected
Benzene	71-43-2	22	110	190	Not Detected
Bromodichloromethane	75-27-4	73	240	400	Not Detected
Bromoform	75-25-2	83	360	610	Not Detected
Bromomethane	74-83-9	300	690	920	Not Detected
Carbon Disulfide	75-15-0	93	550	730	Not Detected
Carbon Tetrachloride	56-23-5	71	220	370	Not Detected
Chlorobenzene	108-90-7	52	160	270	Not Detected
Chloroethane	75-00-3	120	470	620	Not Detected
Chloroform	67-66-3	56	170	290	Not Detected
Chloromethane	74-87-3	180	360	490	Not Detected
cis-1,2-Dichloroethene	156-59-2	66	140	230	Not Detected
cis-1,3-Dichloropropene	10061-01-5	67	160	270	Not Detected
Cumene	98-82-8	30	170	290	Not Detected
Cyclohexane	110-82-7	41	120	200	Not Detected
Dibromochloromethane	124-48-1	95	300	500	Not Detected
Ethanol	64-17-5	150	330	560	Not Detected
Ethyl Benzene	100-41-4	56	150	260	Not Detected
Freon 11	75-69-4	69	200	330	Not Detected
Freon 113	76-13-1	67	270	450	Not Detected
Freon 114	76-14-2	72	250	410	Not Detected
Freon 12	75-71-8	97	180	290	Not Detected
Heptane	142-82-5	69	140	240	Not Detected

EPA METHOD TO-15 GC/MS
Pacific Highway Auto Care (PHAC)

Client ID:	SV5-5	Date/Time Analyzed:	6/23/23 09:19 PM
Lab ID:	2306303A-10A	Dilution Factor:	11.8
Date/Time Collected:	6/13/23 07:50 AM	Instrument/Filename:	msd14.i / 14062318
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	1400	1900	2500	Not Detected
Hexane	110-54-3	46	120	210	Not Detected
m,p-Xylene	108-38-3	41	150	260	Not Detected
Methyl tert-butyl ether	1634-04-4	54	130	210	Not Detected
Methylene Chloride	75-09-2	120	610	820	Not Detected
Naphthalene	91-20-3	54	180	1200	Not Detected
o-Xylene	95-47-6	41	150	260	Not Detected
Propylbenzene	103-65-1	74	170	290	Not Detected
Styrene	100-42-5	38	150	250	Not Detected
Tetrachloroethene	127-18-4	56	240	400	Not Detected
Tetrahydrofuran	109-99-9	49	100	170	Not Detected
Toluene	108-88-3	32	130	220	Not Detected
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	24000	Not Detected
trans-1,2-Dichloroethene	156-60-5	65	140	230	Not Detected
trans-1,3-Dichloropropene	10061-02-6	59	160	270	Not Detected
Trichloroethene	79-01-6	77	190	320	Not Detected
Vinyl Chloride	75-01-4	64	90	150	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	117
4-Bromofluorobenzene	460-00-4	70-130	97
Toluene-d8	2037-26-5	70-130	103

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV6-2	Date/Time Analyzed:	6/23/23 02:55 AM
Lab ID:	2306303A-11A	Dilution Factor:	1.92
Date/Time Collected:	6/13/23 08:52 AM	Instrument/Filename:	msdp.i / p062224
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.98	2.6	5.2	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	1.2	4.9	6.6	Not Detected
1,1,2-Trichloroethane	79-00-5	0.78	3.9	5.2	Not Detected
1,1-Dichloroethane	75-34-3	0.81	1.9	3.9	Not Detected
1,1-Dichloroethene	75-35-4	0.96	2.8	3.8	Not Detected
1,1-Difluoroethane	75-37-6	2.2	D	10	Not Detected
1,2,4-Trichlorobenzene	120-82-1	10	24	28	Not Detected
1,2,4-Trimethylbenzene	95-63-6	1.6	3.5	4.7	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	1.7	5.5	7.4	Not Detected
1,2-Dichlorobenzene	95-50-1	1.9	4.3	5.8	Not Detected
1,2-Dichloroethane	107-06-2	0.89	2.9	3.9	Not Detected
1,2-Dichloropropane	78-87-5	0.87	3.3	4.4	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.6	3.5	4.7	Not Detected
1,3-Butadiene	106-99-0	0.88	1.6	2.1	Not Detected
1,3-Dichlorobenzene	541-73-1	1.2	4.3	5.8	Not Detected
1,4-Dichlorobenzene	106-46-7	2.1	4.3	5.8	Not Detected
1,4-Dioxane	123-91-1	0.77	5.2	14	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.98	3.4	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.4	9.6	11	14
2-Hexanone	591-78-6	5.6	13	16	Not Detected
2-Propanol	67-63-0	3.0	8.0	9.4	4.0 J
3-Chloropropene	107-05-1	1.6	4.5	12	Not Detected
4-Ethyltoluene	622-96-8	1.2	3.5	4.7	Not Detected
4-Methyl-2-pentanone	108-10-1	2.4	2.9	3.9	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV6-2	Date/Time Analyzed:	6/23/23 02:55 AM
Lab ID:	2306303A-11A	Dilution Factor:	1.92
Date/Time Collected:	6/13/23 08:52 AM	Instrument/Filename:	msdp.i / p062224
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	8.4	11	23	69
alpha-Chlorotoluene	100-44-7	1.7	3.7	5.0	Not Detected
Benzene	71-43-2	0.68	2.3	3.1	Not Detected
Bromodichloromethane	75-27-4	1.1	3.2	6.4	Not Detected
Bromoform	75-25-2	2.6	7.4	9.9	Not Detected
Bromomethane	74-83-9	11	13	37	Not Detected
Carbon Disulfide	75-15-0	9.2	10	12	Not Detected
Carbon Tetrachloride	56-23-5	1.1	4.5	6.0	Not Detected
Chlorobenzene	108-90-7	0.67	2.2	4.4	Not Detected
Chloroethane	75-00-3	3.3	8.6	10	Not Detected
Chloroform	67-66-3	0.72	2.3	4.7	1.7 J
Chloromethane	74-87-3	3.0	6.7	20	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.86	2.8	3.8	Not Detected
cis-1,3-Dichloropropene	10061-01-5	1.1	3.3	4.4	Not Detected
Cumene	98-82-8	1.7	3.5	4.7	Not Detected
Cyclohexane	110-82-7	0.64	2.5	3.3	1.2 J
Dibromochloromethane	124-48-1	1.7	6.1	8.2	Not Detected
Ethanol	64-17-5	7.6	9.0	18	23
Ethyl Benzene	100-41-4	0.93	3.1	4.2	Not Detected
Freon 11	75-69-4	1.0	4.0	5.4	1.3 J
Freon 113	76-13-1	1.7	5.5	7.4	Not Detected
Freon 114	76-14-2	2.1	5.0	6.7	Not Detected
Freon 12	75-71-8	0.70	3.6	4.7	2.2 J
Heptane	142-82-5	1.1	3.0	3.9	3.7 J

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV6-2	Date/Time Analyzed:	6/23/23 02:55 AM
Lab ID:	2306303A-11A	Dilution Factor:	1.92
Date/Time Collected:	6/13/23 08:52 AM	Instrument/Filename:	msdp.i / p062224
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	15	35	41	Not Detected
Hexane	110-54-3	0.96	2.5	3.4	Not Detected
m,p-Xylene	108-38-3	1.5	3.1	8.3	Not Detected
Methyl tert-butyl ether	1634-04-4	0.84	5.2	14	Not Detected
Methylene Chloride	75-09-2	2.4	11	33	Not Detected
Naphthalene	91-20-3	1.2	2.5	10	Not Detected
o-Xylene	95-47-6	0.77	3.1	4.2	Not Detected
Propylbenzene	103-65-1	0.61	3.5	4.7	Not Detected
Styrene	100-42-5	0.83	3.1	4.1	Not Detected
Tetrachloroethene	127-18-4	1.2	4.9	6.5	12
Tetrahydrofuran	109-99-9	0.87	2.1	2.8	81
Toluene	108-88-3	0.93	2.7	7.2	3.0 J
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	390	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.86	2.8	3.8	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.77	3.3	4.4	Not Detected
Trichloroethene	79-01-6	1.1	3.9	5.2	4.4 J
Vinyl Chloride	75-01-4	0.58	1.8	2.4	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	125
4-Bromofluorobenzene	460-00-4	70-130	122
Toluene-d8	2037-26-5	70-130	103

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV6-5	Date/Time Analyzed:	6/24/23 04:20 AM
Lab ID:	2306303A-12A	Dilution Factor:	24.9
Date/Time Collected:	6/13/23 09:07 AM	Instrument/Filename:	msdp.i / p062332
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	13	34	68	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	16	64	85	Not Detected
1,1,2-Trichloroethane	79-00-5	10	51	68	Not Detected
1,1-Dichloroethane	75-34-3	10	25	50	Not Detected
1,1-Dichloroethene	75-35-4	12	37	49	Not Detected
1,1-Difluoroethane	75-37-6	29	D	130	Not Detected
1,2,4-Trichlorobenzene	120-82-1	130	310	370	Not Detected
1,2,4-Trimethylbenzene	95-63-6	21	46	61	9600
1,2-Dibromoethane (EDB)	106-93-4	22	72	96	Not Detected
1,2-Dichlorobenzene	95-50-1	24	56	75	Not Detected
1,2-Dichloroethane	107-06-2	12	38	50	Not Detected
1,2-Dichloropropane	78-87-5	11	43	58	Not Detected
1,3,5-Trimethylbenzene	108-67-8	21	46	61	8900
1,3-Butadiene	106-99-0	11	21	28	Not Detected
1,3-Dichlorobenzene	541-73-1	16	56	75	Not Detected
1,4-Dichlorobenzene	106-46-7	27	56	75	Not Detected
1,4-Dioxane	123-91-1	10	67	180	Not Detected
2,2,4-Trimethylpentane	540-84-1	13	44	58	39000 E
2-Butanone (Methyl Ethyl Ketone)	78-93-3	18	120	150	Not Detected
2-Hexanone	591-78-6	73	170	200	Not Detected
2-Propanol	67-63-0	38	100	120	Not Detected
3-Chloropropene	107-05-1	21	58	160	Not Detected
4-Ethyltoluene	622-96-8	15	46	61	13000
4-Methyl-2-pentanone	108-10-1	31	38	51	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV6-5	Date/Time Analyzed:	6/24/23 04:20 AM
Lab ID:	2306303A-12A	Dilution Factor:	24.9
Date/Time Collected:	6/13/23 09:07 AM	Instrument/Filename:	msdp.i / p062332
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	110	150	300	Not Detected
alpha-Chlorotoluene	100-44-7	22	48	64	Not Detected
Benzene	71-43-2	8.8	30	40	7800
Bromodichloromethane	75-27-4	15	42	83	Not Detected
Bromoform	75-25-2	33	96	130	Not Detected
Bromomethane	74-83-9	140	160	480	Not Detected
Carbon Disulfide	75-15-0	120	130	160	Not Detected
Carbon Tetrachloride	56-23-5	14	59	78	Not Detected
Chlorobenzene	108-90-7	8.7	29	57	Not Detected
Chloroethane	75-00-3	42	110	130	Not Detected
Chloroform	67-66-3	9.4	30	61	Not Detected
Chloromethane	74-87-3	39	87	260	Not Detected
cis-1,2-Dichloroethene	156-59-2	11	37	49	Not Detected
cis-1,3-Dichloropropene	10061-01-5	14	42	56	Not Detected
Cumene	98-82-8	22	46	61	380
Cyclohexane	110-82-7	8.3	32	43	6400
Dibromochloromethane	124-48-1	22	80	110	Not Detected
Ethanol	64-17-5	99	120	230	Not Detected
Ethyl Benzene	100-41-4	12	40	54	4700
Freon 11	75-69-4	14	52	70	Not Detected
Freon 113	76-13-1	22	72	95	Not Detected
Freon 114	76-14-2	27	65	87	Not Detected
Freon 12	75-71-8	9.1	46	62	Not Detected
Heptane	142-82-5	14	38	51	17000

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV6-5	Date/Time Analyzed:	6/24/23 04:20 AM
Lab ID:	2306303A-12A	Dilution Factor:	24.9
Date/Time Collected:	6/13/23 09:07 AM	Instrument/Filename:	msdp.i / p062332
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	190	450	530	Not Detected
Hexane	110-54-3	12	33	44	14000
m,p-Xylene	108-38-3	19	40	110	15000
Methyl tert-butyl ether	1634-04-4	11	67	180	Not Detected
Methylene Chloride	75-09-2	31	150	430	Not Detected
Naphthalene	91-20-3	16	33	130	160
o-Xylene	95-47-6	10	40	54	3000
Propylbenzene	103-65-1	7.9	46	61	870
Styrene	100-42-5	11	40	53	Not Detected
Tetrachloroethene	127-18-4	16	63	84	Not Detected
Tetrahydrofuran	109-99-9	11	28	37	Not Detected
Toluene	108-88-3	12	35	94	560
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	5100	860000
trans-1,2-Dichloroethene	156-60-5	11	37	49	Not Detected
trans-1,3-Dichloropropene	10061-02-6	10	42	56	Not Detected
Trichloroethene	79-01-6	15	50	67	Not Detected
Vinyl Chloride	75-01-4	7.6	24	32	Not Detected

E = Exceeds instrument calibration range.

Q = Exceeds Quality Control limits.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	173 Q
4-Bromofluorobenzene	460-00-4	70-130	127

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV6-5	Date/Time Analyzed:	6/24/23 04:20 AM
Lab ID:	2306303A-12A	Dilution Factor:	24.9
Date/Time Collected:	6/13/23 09:07 AM	Instrument/Filename:	msdp.i / p062332
Media:	1 Liter Summa Canister		

Surrogates	CAS#	Limits	%Recovery
Toluene-d8	2037-26-5	70-130	109

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV7-2	Date/Time Analyzed:	6/23/23 07:00 PM
Lab ID:	2306303A-13A	Dilution Factor:	1.98
Date/Time Collected:	6/13/23 09:28 AM	Instrument/Filename:	msdp.i / p062317
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	1.0	2.7	5.4	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	1.2	5.1	6.8	Not Detected
1,1,2-Trichloroethane	79-00-5	0.80	4.0	5.4	Not Detected
1,1-Dichloroethane	75-34-3	0.84	2.0	4.0	Not Detected
1,1-Dichloroethene	75-35-4	1.0	2.9	3.9	Not Detected
1,1-Difluoroethane	75-37-6	2.3	D	11	Not Detected
1,2,4-Trichlorobenzene	120-82-1	10	25	29	Not Detected
1,2,4-Trimethylbenzene	95-63-6	1.7	3.6	4.9	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	1.7	5.7	7.6	Not Detected
1,2-Dichlorobenzene	95-50-1	1.9	4.5	6.0	Not Detected
1,2-Dichloroethane	107-06-2	0.92	3.0	4.0	Not Detected
1,2-Dichloropropane	78-87-5	0.90	3.4	4.6	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.6	3.6	4.9	Not Detected
1,3-Butadiene	106-99-0	0.90	1.6	2.2	Not Detected
1,3-Dichlorobenzene	541-73-1	1.3	4.5	6.0	Not Detected
1,4-Dichlorobenzene	106-46-7	2.1	4.5	6.0	Not Detected
1,4-Dioxane	123-91-1	0.79	5.4	14	Not Detected
2,2,4-Trimethylpentane	540-84-1	1.0	3.5	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.4	9.9	12	12
2-Hexanone	591-78-6	5.8	14	16	Not Detected
2-Propanol	67-63-0	3.0	8.3	9.7	4.0 J
3-Chloropropene	107-05-1	1.7	4.6	12	Not Detected
4-Ethyltoluene	622-96-8	1.2	3.6	4.9	Not Detected
4-Methyl-2-pentanone	108-10-1	2.4	3.0	4.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV7-2	Date/Time Analyzed:	6/23/23 07:00 PM
Lab ID:	2306303A-13A	Dilution Factor:	1.98
Date/Time Collected:	6/13/23 09:28 AM	Instrument/Filename:	msdp.i / p062317
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	8.7	12	24	26
alpha-Chlorotoluene	100-44-7	1.7	3.8	5.1	Not Detected
Benzene	71-43-2	0.70	2.4	3.2	Not Detected
Bromodichloromethane	75-27-4	1.2	3.3	6.6	Not Detected
Bromoform	75-25-2	2.6	7.7	10	Not Detected
Bromomethane	74-83-9	11	13	38	Not Detected
Carbon Disulfide	75-15-0	9.5	10	12	16
Carbon Tetrachloride	56-23-5	1.2	4.7	6.2	Not Detected
Chlorobenzene	108-90-7	0.69	2.3	4.6	Not Detected
Chloroethane	75-00-3	3.4	8.9	10	Not Detected
Chloroform	67-66-3	0.75	2.4	4.8	0.97 J
Chloromethane	74-87-3	3.1	7.0	20	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.88	2.9	3.9	Not Detected
cis-1,3-Dichloropropene	10061-01-5	1.1	3.4	4.5	Not Detected
Cumene	98-82-8	1.7	3.6	4.9	Not Detected
Cyclohexane	110-82-7	0.66	2.6	3.4	Not Detected
Dibromochloromethane	124-48-1	1.7	6.3	8.4	Not Detected
Ethanol	64-17-5	7.8	9.3	19	Not Detected
Ethyl Benzene	100-41-4	0.96	3.2	4.3	Not Detected
Freon 11	75-69-4	1.1	4.2	5.6	1.4 J
Freon 113	76-13-1	1.7	5.7	7.6	Not Detected
Freon 114	76-14-2	2.1	5.2	6.9	Not Detected
Freon 12	75-71-8	0.72	3.7	4.9	2.5 J
Heptane	142-82-5	1.1	3.0	4.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV7-2	Date/Time Analyzed:	6/23/23 07:00 PM
Lab ID:	2306303A-13A	Dilution Factor:	1.98
Date/Time Collected:	6/13/23 09:28 AM	Instrument/Filename:	msdp.i / p062317
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	15	36	42	Not Detected
Hexane	110-54-3	0.99	2.6	3.5	Not Detected
m,p-Xylene	108-38-3	1.5	3.2	8.6	1.8 J
Methyl tert-butyl ether	1634-04-4	0.87	5.4	14	Not Detected
Methylene Chloride	75-09-2	2.4	12	34	Not Detected
Naphthalene	91-20-3	1.2	2.6	10	Not Detected
o-Xylene	95-47-6	0.80	3.2	4.3	0.89 J
Propylbenzene	103-65-1	0.63	3.6	4.9	Not Detected
Styrene	100-42-5	0.85	3.2	4.2	Not Detected
Tetrachloroethene	127-18-4	1.3	5.0	6.7	Not Detected
Tetrahydrofuran	109-99-9	0.90	2.2	2.9	72
Toluene	108-88-3	0.96	2.8	7.5	2.5 J
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	400	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.89	2.9	3.9	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.79	3.4	4.5	Not Detected
Trichloroethene	79-01-6	1.2	4.0	5.3	Not Detected
Vinyl Chloride	75-01-4	0.60	1.9	2.5	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	125
4-Bromofluorobenzene	460-00-4	70-130	127
Toluene-d8	2037-26-5	70-130	103

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV7-5	Date/Time Analyzed:	6/23/23 07:30 PM
Lab ID:	2306303A-14A	Dilution Factor:	3.74
Date/Time Collected:	6/13/23 09:47 AM	Instrument/Filename:	msdp.i / p062318
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	1.9	5.1	10	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	2.4	9.6	13	Not Detected
1,1,2-Trichloroethane	79-00-5	1.5	7.6	10	Not Detected
1,1-Dichloroethane	75-34-3	1.6	3.8	7.6	Not Detected
1,1-Dichloroethene	75-35-4	1.9	5.6	7.4	Not Detected
1,1-Difluoroethane	75-37-6	4.4	D	20	Not Detected
1,2,4-Trichlorobenzene	120-82-1	20	47	56	Not Detected
1,2,4-Trimethylbenzene	95-63-6	3.2	6.9	9.2	1200
1,2-Dibromoethane (EDB)	106-93-4	3.3	11	14	Not Detected
1,2-Dichlorobenzene	95-50-1	3.7	8.4	11	Not Detected
1,2-Dichloroethane	107-06-2	1.7	5.7	7.6	Not Detected
1,2-Dichloropropane	78-87-5	1.7	6.5	8.6	Not Detected
1,3,5-Trimethylbenzene	108-67-8	3.1	6.9	9.2	1200
1,3-Butadiene	106-99-0	1.7	3.1	4.1	Not Detected
1,3-Dichlorobenzene	541-73-1	2.4	8.4	11	Not Detected
1,4-Dichlorobenzene	106-46-7	4.0	8.4	11	Not Detected
1,4-Dioxane	123-91-1	1.5	10	27	Not Detected
2,2,4-Trimethylpentane	540-84-1	1.9	6.6	8.7	2100
2-Butanone (Methyl Ethyl Ketone)	78-93-3	2.6	19	22	12 J
2-Hexanone	591-78-6	11	26	31	Not Detected
2-Propanol	67-63-0	5.8	16	18	Not Detected
3-Chloropropene	107-05-1	3.2	8.8	23	Not Detected
4-Ethyltoluene	622-96-8	2.2	6.9	9.2	1700
4-Methyl-2-pentanone	108-10-1	4.6	5.7	7.7	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV7-5	Date/Time Analyzed:	6/23/23 07:30 PM
Lab ID:	2306303A-14A	Dilution Factor:	3.74
Date/Time Collected:	6/13/23 09:47 AM	Instrument/Filename:	msdp.i / p062318
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	16	22	44	Not Detected
alpha-Chlorotoluene	100-44-7	3.2	7.3	9.7	Not Detected
Benzene	71-43-2	1.3	4.5	6.0	260
Bromodichloromethane	75-27-4	2.2	6.3	12	Not Detected
Bromoform	75-25-2	5.0	14	19	Not Detected
Bromomethane	74-83-9	22	25	73	Not Detected
Carbon Disulfide	75-15-0	18	20	23	Not Detected
Carbon Tetrachloride	56-23-5	2.2	8.8	12	Not Detected
Chlorobenzene	108-90-7	1.3	4.3	8.6	Not Detected
Chloroethane	75-00-3	6.4	17	20	Not Detected
Chloroform	67-66-3	1.4	4.6	9.1	Not Detected
Chloromethane	74-87-3	5.9	13	39	Not Detected
cis-1,2-Dichloroethene	156-59-2	1.7	5.6	7.4	Not Detected
cis-1,3-Dichloropropene	10061-01-5	2.1	6.4	8.5	Not Detected
Cumene	98-82-8	3.3	6.9	9.2	50
Cyclohexane	110-82-7	1.2	4.8	6.4	190
Dibromochloromethane	124-48-1	3.3	12	16	Not Detected
Ethanol	64-17-5	15	18	35	Not Detected
Ethyl Benzene	100-41-4	1.8	6.1	8.1	540
Freon 11	75-69-4	2.0	7.9	10	Not Detected
Freon 113	76-13-1	3.3	11	14	Not Detected
Freon 114	76-14-2	4.0	9.8	13	Not Detected
Freon 12	75-71-8	1.4	6.9	9.2	1.9 J
Heptane	142-82-5	2.1	5.7	7.7	680

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV7-5	Date/Time Analyzed:	6/23/23 07:30 PM
Lab ID:	2306303A-14A	Dilution Factor:	3.74
Date/Time Collected:	6/13/23 09:47 AM	Instrument/File name:	msdp.i / p062318
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	29	68	80	Not Detected
Hexane	110-54-3	1.9	4.9	6.6	270
m,p-Xylene	108-38-3	2.8	6.1	16	1900
Methyl tert-butyl ether	1634-04-4	1.6	10	27	Not Detected
Methylene Chloride	75-09-2	4.6	22	65	Not Detected
Naphthalene	91-20-3	2.4	4.9	20	9.8 J
o-Xylene	95-47-6	1.5	6.1	8.1	420
Propylbenzene	103-65-1	1.2	6.9	9.2	120
Styrene	100-42-5	1.6	6.0	8.0	Not Detected
Tetrachloroethene	127-18-4	2.4	9.5	13	Not Detected
Tetrahydrofuran	109-99-9	1.7	4.1	5.5	63
Toluene	108-88-3	1.8	5.3	14	41
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	760	70000
trans-1,2-Dichloroethene	156-60-5	1.7	5.6	7.4	Not Detected
trans-1,3-Dichloropropene	10061-02-6	1.5	6.4	8.5	Not Detected
Trichloroethene	79-01-6	2.2	7.5	10	Not Detected
Vinyl Chloride	75-01-4	1.1	3.6	4.8	Not Detected

J = Estimated value.

Q = Exceeds Quality Control limits.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	141 Q
4-Bromofluorobenzene	460-00-4	70-130	126

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV7-5	Date/Time Analyzed:	6/23/23 07:30 PM
Lab ID:	2306303A-14A	Dilution Factor:	3.74
Date/Time Collected:	6/13/23 09:47 AM	Instrument/Filename:	msdp.i / p062318
Media:	1 Liter Summa Canister		

Surrogates	CAS#	Limits	%Recovery
Toluene-d8	2037-26-5	70-130	105

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV8-2	Date/Time Analyzed:	6/23/23 08:02 PM
Lab ID:	2306303A-15A	Dilution Factor:	1.90
Date/Time Collected:	6/13/23 08:12 AM	Instrument/File name:	msdp.i / p062319
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.97	2.6	5.2	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	1.2	4.9	6.5	Not Detected
1,1,2-Trichloroethane	79-00-5	0.77	3.9	5.2	Not Detected
1,1-Dichloroethane	75-34-3	0.80	1.9	3.8	Not Detected
1,1-Dichloroethene	75-35-4	0.95	2.8	3.8	Not Detected
1,1-Difluoroethane	75-37-6	2.2	D	10	Not Detected
1,2,4-Trichlorobenzene	120-82-1	10	24	28	Not Detected
1,2,4-Trimethylbenzene	95-63-6	1.6	3.5	4.7	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	1.7	5.5	7.3	Not Detected
1,2-Dichlorobenzene	95-50-1	1.9	4.3	5.7	Not Detected
1,2-Dichloroethane	107-06-2	0.88	2.9	3.8	Not Detected
1,2-Dichloropropane	78-87-5	0.86	3.3	4.4	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.6	3.5	4.7	Not Detected
1,3-Butadiene	106-99-0	0.87	1.6	2.1	Not Detected
1,3-Dichlorobenzene	541-73-1	1.2	4.3	5.7	Not Detected
1,4-Dichlorobenzene	106-46-7	2.0	4.3	5.7	Not Detected
1,4-Dioxane	123-91-1	0.76	5.1	14	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.98	3.3	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.3	9.5	11	10 J
2-Hexanone	591-78-6	5.6	13	16	Not Detected
2-Propanol	67-63-0	2.9	7.9	9.3	6.4 J
3-Chloropropene	107-05-1	1.6	4.5	12	Not Detected
4-Ethyltoluene	622-96-8	1.1	3.5	4.7	Not Detected
4-Methyl-2-pentanone	108-10-1	2.3	2.9	3.9	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV8-2	Date/Time Analyzed:	6/23/23 08:02 PM
Lab ID:	2306303A-15A	Dilution Factor:	1.90
Date/Time Collected:	6/13/23 08:12 AM	Instrument/Filename:	msdp.i / p062319
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	8.3	11	22	20 J
alpha-Chlorotoluene	100-44-7	1.6	3.7	4.9	Not Detected
Benzene	71-43-2	0.67	2.3	3.0	Not Detected
Bromodichloromethane	75-27-4	1.1	3.2	6.4	Not Detected
Bromoform	75-25-2	2.5	7.4	9.8	Not Detected
Bromomethane	74-83-9	11	12	37	Not Detected
Carbon Disulfide	75-15-0	9.1	10	12	Not Detected
Carbon Tetrachloride	56-23-5	1.1	4.5	6.0	Not Detected
Chlorobenzene	108-90-7	0.66	2.2	4.4	Not Detected
Chloroethane	75-00-3	3.2	8.5	10	Not Detected
Chloroform	67-66-3	0.72	2.3	4.6	Not Detected
Chloromethane	74-87-3	3.0	6.7	20	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.85	2.8	3.8	Not Detected
cis-1,3-Dichloropropene	10061-01-5	1.1	3.2	4.3	Not Detected
Cumene	98-82-8	1.7	3.5	4.7	Not Detected
Cyclohexane	110-82-7	0.63	2.4	3.3	1.7 J
Dibromochloromethane	124-48-1	1.7	6.1	8.1	Not Detected
Ethanol	64-17-5	7.5	9.0	18	22
Ethyl Benzene	100-41-4	0.92	3.1	4.1	Not Detected
Freon 11	75-69-4	1.0	4.0	5.3	2.0 J
Freon 113	76-13-1	1.7	5.5	7.3	Not Detected
Freon 114	76-14-2	2.0	5.0	6.6	Not Detected
Freon 12	75-71-8	0.69	3.5	4.7	2.4 J
Heptane	142-82-5	1.1	2.9	3.9	2.0 J

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV8-2	Date/Time Analyzed:	6/23/23 08:02 PM
Lab ID:	2306303A-15A	Dilution Factor:	1.90
Date/Time Collected:	6/13/23 08:12 AM	Instrument/Filename:	msdp.i / p062319
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	15	34	40	Not Detected
Hexane	110-54-3	0.95	2.5	3.3	Not Detected
m,p-Xylene	108-38-3	1.4	3.1	8.2	2.3 J
Methyl tert-butyl ether	1634-04-4	0.83	5.1	14	Not Detected
Methylene Chloride	75-09-2	2.3	11	33	Not Detected
Naphthalene	91-20-3	1.2	2.5	10	Not Detected
o-Xylene	95-47-6	0.76	3.1	4.1	Not Detected
Propylbenzene	103-65-1	0.60	3.5	4.7	Not Detected
Styrene	100-42-5	0.82	3.0	4.0	Not Detected
Tetrachloroethene	127-18-4	1.2	4.8	6.4	Not Detected
Tetrahydrofuran	109-99-9	0.86	2.1	2.8	58
Toluene	108-88-3	0.92	2.7	7.2	5.1 J
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	390	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.85	2.8	3.8	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.76	3.2	4.3	Not Detected
Trichloroethene	79-01-6	1.1	3.8	5.1	Not Detected
Vinyl Chloride	75-01-4	0.58	1.8	2.4	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	119
4-Bromofluorobenzene	460-00-4	70-130	121
Toluene-d8	2037-26-5	70-130	103

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV8-5	Date/Time Analyzed:	6/23/23 11:39 PM
Lab ID:	2306303A-16A	Dilution Factor:	1.94
Date/Time Collected:	6/13/23 08:27 AM	Instrument/Filename:	msdp.i / p062323
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.99	2.6	5.3	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	1.2	5.0	6.6	Not Detected
1,1,2-Trichloroethane	79-00-5	0.79	4.0	5.3	Not Detected
1,1-Dichloroethane	75-34-3	0.82	2.0	3.9	Not Detected
1,1-Dichloroethene	75-35-4	0.98	2.9	3.8	Not Detected
1,1-Difluoroethane	75-37-6	2.3	D	10	Not Detected
1,2,4-Trichlorobenzene	120-82-1	10	24	29	Not Detected
1,2,4-Trimethylbenzene	95-63-6	1.7	3.6	4.8	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	1.7	5.6	7.4	Not Detected
1,2-Dichlorobenzene	95-50-1	1.9	4.4	5.8	Not Detected
1,2-Dichloroethane	107-06-2	0.90	2.9	3.9	Not Detected
1,2-Dichloropropane	78-87-5	0.88	3.4	4.5	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.6	3.6	4.8	Not Detected
1,3-Butadiene	106-99-0	0.89	1.6	2.1	Not Detected
1,3-Dichlorobenzene	541-73-1	1.3	4.4	5.8	Not Detected
1,4-Dichlorobenzene	106-46-7	2.1	4.4	5.8	Not Detected
1,4-Dioxane	123-91-1	0.78	5.2	14	Not Detected
2,2,4-Trimethylpentane	540-84-1	1.0	3.4	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.4	9.7	11	16
2-Hexanone	591-78-6	5.7	14	16	Not Detected
2-Propanol	67-63-0	3.0	8.1	9.5	Not Detected
3-Chloropropene	107-05-1	1.6	4.6	12	Not Detected
4-Ethyltoluene	622-96-8	1.2	3.6	4.8	Not Detected
4-Methyl-2-pentanone	108-10-1	2.4	3.0	4.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV8-5	Date/Time Analyzed:	6/23/23 11:39 PM
Lab ID:	2306303A-16A	Dilution Factor:	1.94
Date/Time Collected:	6/13/23 08:27 AM	Instrument/Filename:	msdp.i / p062323
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	8.5	12	23	21 J
alpha-Chlorotoluene	100-44-7	1.7	3.8	5.0	Not Detected
Benzene	71-43-2	0.68	2.3	3.1	Not Detected
Bromodichloromethane	75-27-4	1.2	3.2	6.5	Not Detected
Bromoform	75-25-2	2.6	7.5	10	Not Detected
Bromomethane	74-83-9	11	13	38	Not Detected
Carbon Disulfide	75-15-0	9.3	10	12	Not Detected
Carbon Tetrachloride	56-23-5	1.1	4.6	6.1	Not Detected
Chlorobenzene	108-90-7	0.68	2.2	4.5	Not Detected
Chloroethane	75-00-3	3.3	8.7	10	Not Detected
Chloroform	67-66-3	0.73	2.4	4.7	17
Chloromethane	74-87-3	3.0	6.8	20	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.86	2.9	3.8	Not Detected
cis-1,3-Dichloropropene	10061-01-5	1.1	3.3	4.4	Not Detected
Cumene	98-82-8	1.7	3.6	4.8	Not Detected
Cyclohexane	110-82-7	0.65	2.5	3.3	1.5 J
Dibromochloromethane	124-48-1	1.7	6.2	8.3	Not Detected
Ethanol	64-17-5	7.7	9.1	18	10 J
Ethyl Benzene	100-41-4	0.94	3.2	4.2	Not Detected
Freon 11	75-69-4	1.1	4.1	5.4	2.4 J
Freon 113	76-13-1	1.7	5.6	7.4	Not Detected
Freon 114	76-14-2	2.1	5.1	6.8	Not Detected
Freon 12	75-71-8	0.71	3.6	4.8	2.2 J
Heptane	142-82-5	1.1	3.0	4.0	1.8 J

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV8-5	Date/Time Analyzed:	6/23/23 11:39 PM
Lab ID:	2306303A-16A	Dilution Factor:	1.94
Date/Time Collected:	6/13/23 08:27 AM	Instrument/Filename:	msdp.i / p062323
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	15	35	41	Not Detected
Hexane	110-54-3	0.97	2.6	3.4	Not Detected
m,p-Xylene	108-38-3	1.5	3.2	8.4	2.2 J
Methyl tert-butyl ether	1634-04-4	0.85	5.2	14	Not Detected
Methylene Chloride	75-09-2	2.4	11	34	Not Detected
Naphthalene	91-20-3	1.2	2.5	10	Not Detected
o-Xylene	95-47-6	0.78	3.2	4.2	0.85 J
Propylbenzene	103-65-1	0.61	3.6	4.8	Not Detected
Styrene	100-42-5	0.84	3.1	4.1	Not Detected
Tetrachloroethene	127-18-4	1.2	4.9	6.6	Not Detected
Tetrahydrofuran	109-99-9	0.88	2.1	2.9	74
Toluene	108-88-3	0.94	2.7	7.3	4.7 J
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	400	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.87	2.9	3.8	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.78	3.3	4.4	Not Detected
Trichloroethene	79-01-6	1.1	3.9	5.2	Not Detected
Vinyl Chloride	75-01-4	0.59	1.8	2.5	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	129
4-Bromofluorobenzene	460-00-4	70-130	124
Toluene-d8	2037-26-5	70-130	104

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV9-2	Date/Time Analyzed:	6/24/23 12:11 AM
Lab ID:	2306303A-17A	Dilution Factor:	2.00
Date/Time Collected:	6/12/23 02:42 PM	Instrument/Filename:	msdp.i / p062324
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	1.0	2.7	5.4	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	1.3	5.1	6.9	Not Detected
1,1,2-Trichloroethane	79-00-5	0.81	4.1	5.4	Not Detected
1,1-Dichloroethane	75-34-3	0.84	2.0	4.0	Not Detected
1,1-Dichloroethene	75-35-4	1.0	3.0	4.0	Not Detected
1,1-Difluoroethane	75-37-6	2.3	D	11	Not Detected
1,2,4-Trichlorobenzene	120-82-1	11	25	30	Not Detected
1,2,4-Trimethylbenzene	95-63-6	1.7	3.7	4.9	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	1.8	5.8	7.7	Not Detected
1,2-Dichlorobenzene	95-50-1	2.0	4.5	6.0	Not Detected
1,2-Dichloroethane	107-06-2	0.93	3.0	4.0	Not Detected
1,2-Dichloropropane	78-87-5	0.91	3.5	4.6	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.7	3.7	4.9	Not Detected
1,3-Butadiene	106-99-0	0.91	1.6	2.2	Not Detected
1,3-Dichlorobenzene	541-73-1	1.3	4.5	6.0	Not Detected
1,4-Dichlorobenzene	106-46-7	2.2	4.5	6.0	Not Detected
1,4-Dioxane	123-91-1	0.80	5.4	14	Not Detected
2,2,4-Trimethylpentane	540-84-1	1.0	3.5	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.4	10	12	13
2-Hexanone	591-78-6	5.8	14	16	Not Detected
2-Propanol	67-63-0	3.1	8.4	9.8	4.0 J
3-Chloropropene	107-05-1	1.7	4.7	12	Not Detected
4-Ethyltoluene	622-96-8	1.2	3.7	4.9	Not Detected
4-Methyl-2-pentanone	108-10-1	2.5	3.1	4.1	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV9-2	Date/Time Analyzed:	6/24/23 12:11 AM
Lab ID:	2306303A-17A	Dilution Factor:	2.00
Date/Time Collected:	6/12/23 02:42 PM	Instrument/Filename:	msdp.i / p062324
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	8.8	12	24	45
alpha-Chlorotoluene	100-44-7	1.7	3.9	5.2	Not Detected
Benzene	71-43-2	0.70	2.4	3.2	Not Detected
Bromodichloromethane	75-27-4	1.2	3.4	6.7	Not Detected
Bromoform	75-25-2	2.7	7.8	10	Not Detected
Bromomethane	74-83-9	12	13	39	Not Detected
Carbon Disulfide	75-15-0	9.6	10	12	Not Detected
Carbon Tetrachloride	56-23-5	1.2	4.7	6.3	Not Detected
Chlorobenzene	108-90-7	0.70	2.3	4.6	Not Detected
Chloroethane	75-00-3	3.4	9.0	10	Not Detected
Chloroform	67-66-3	0.76	2.4	4.9	1.8 J
Chloromethane	74-87-3	3.1	7.0	21	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.89	3.0	4.0	Not Detected
cis-1,3-Dichloropropene	10061-01-5	1.1	3.4	4.5	Not Detected
Cumene	98-82-8	1.8	3.7	4.9	Not Detected
Cyclohexane	110-82-7	0.67	2.6	3.4	Not Detected
Dibromochloromethane	124-48-1	1.8	6.4	8.5	Not Detected
Ethanol	64-17-5	7.9	9.4	19	11 J
Ethyl Benzene	100-41-4	0.97	3.2	4.3	Not Detected
Freon 11	75-69-4	1.1	4.2	5.6	1.2 J
Freon 113	76-13-1	1.8	5.7	7.7	Not Detected
Freon 114	76-14-2	2.2	5.2	7.0	Not Detected
Freon 12	75-71-8	0.73	3.7	4.9	2.6 J
Heptane	142-82-5	1.1	3.1	4.1	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV9-2	Date/Time Analyzed:	6/24/23 12:11 AM
Lab ID:	2306303A-17A	Dilution Factor:	2.00
Date/Time Collected:	6/12/23 02:42 PM	Instrument/Filename:	msdp.i / p062324
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	16	36	43	Not Detected
Hexane	110-54-3	1.0	2.6	3.5	Not Detected
m,p-Xylene	108-38-3	1.5	3.2	8.7	Not Detected
Methyl tert-butyl ether	1634-04-4	0.88	5.4	14	Not Detected
Methylene Chloride	75-09-2	2.4	12	35	Not Detected
Naphthalene	91-20-3	1.3	2.6	10	Not Detected
o-Xylene	95-47-6	0.80	3.2	4.3	Not Detected
Propylbenzene	103-65-1	0.63	3.7	4.9	Not Detected
Styrene	100-42-5	0.86	3.2	4.2	Not Detected
Tetrachloroethene	127-18-4	1.3	5.1	6.8	Not Detected
Tetrahydrofuran	109-99-9	0.90	2.2	2.9	44
Toluene	108-88-3	0.97	2.8	7.5	Not Detected
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	410	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.90	3.0	4.0	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.80	3.4	4.5	Not Detected
Trichloroethene	79-01-6	1.2	4.0	5.4	Not Detected
Vinyl Chloride	75-01-4	0.61	1.9	2.6	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	125
4-Bromofluorobenzene	460-00-4	70-130	127
Toluene-d8	2037-26-5	70-130	101

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV9-5	Date/Time Analyzed:	6/24/23 12:42 AM
Lab ID:	2306303A-18A	Dilution Factor:	1.99
Date/Time Collected:	6/12/23 02:59 PM	Instrument/Filename:	msdp.i / p062325
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	1.0	2.7	5.4	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	1.3	5.1	6.8	Not Detected
1,1,2-Trichloroethane	79-00-5	0.81	4.1	5.4	Not Detected
1,1-Dichloroethane	75-34-3	0.84	2.0	4.0	Not Detected
1,1-Dichloroethene	75-35-4	1.0	3.0	3.9	Not Detected
1,1-Difluoroethane	75-37-6	2.3	D	11	Not Detected
1,2,4-Trichlorobenzene	120-82-1	11	25	30	Not Detected
1,2,4-Trimethylbenzene	95-63-6	1.7	3.7	4.9	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	1.7	5.7	7.6	Not Detected
1,2-Dichlorobenzene	95-50-1	2.0	4.5	6.0	Not Detected
1,2-Dichloroethane	107-06-2	0.92	3.0	4.0	Not Detected
1,2-Dichloropropane	78-87-5	0.90	3.4	4.6	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.7	3.7	4.9	Not Detected
1,3-Butadiene	106-99-0	0.91	1.6	2.2	Not Detected
1,3-Dichlorobenzene	541-73-1	1.3	4.5	6.0	Not Detected
1,4-Dichlorobenzene	106-46-7	2.1	4.5	6.0	Not Detected
1,4-Dioxane	123-91-1	0.80	5.4	14	Not Detected
2,2,4-Trimethylpentane	540-84-1	1.0	3.5	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.4	10	12	9.2 J
2-Hexanone	591-78-6	5.8	14	16	Not Detected
2-Propanol	67-63-0	3.1	8.3	9.8	Not Detected
3-Chloropropene	107-05-1	1.7	4.7	12	Not Detected
4-Ethyltoluene	622-96-8	1.2	3.7	4.9	Not Detected
4-Methyl-2-pentanone	108-10-1	2.4	3.0	4.1	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV9-5	Date/Time Analyzed:	6/24/23 12:42 AM
Lab ID:	2306303A-18A	Dilution Factor:	1.99
Date/Time Collected:	6/12/23 02:59 PM	Instrument/Filename:	msdp.i / p062325
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	8.7	12	24	25
alpha-Chlorotoluene	100-44-7	1.7	3.9	5.2	Not Detected
Benzene	71-43-2	0.70	2.4	3.2	Not Detected
Bromodichloromethane	75-27-4	1.2	3.3	6.7	Not Detected
Bromoform	75-25-2	2.6	7.7	10	Not Detected
Bromomethane	74-83-9	12	13	39	Not Detected
Carbon Disulfide	75-15-0	9.5	10	12	Not Detected
Carbon Tetrachloride	56-23-5	1.2	4.7	6.3	Not Detected
Chlorobenzene	108-90-7	0.70	2.3	4.6	Not Detected
Chloroethane	75-00-3	3.4	8.9	10	Not Detected
Chloroform	67-66-3	0.75	2.4	4.8	Not Detected
Chloromethane	74-87-3	3.1	7.0	20	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.89	3.0	3.9	Not Detected
cis-1,3-Dichloropropene	10061-01-5	1.1	3.4	4.5	Not Detected
Cumene	98-82-8	1.7	3.7	4.9	Not Detected
Cyclohexane	110-82-7	0.66	2.6	3.4	Not Detected
Dibromochloromethane	124-48-1	1.8	6.4	8.5	Not Detected
Ethanol	64-17-5	7.9	9.4	19	8.8 J
Ethyl Benzene	100-41-4	0.96	3.2	4.3	Not Detected
Freon 11	75-69-4	1.1	4.2	5.6	1.4 J
Freon 113	76-13-1	1.8	5.7	7.6	Not Detected
Freon 114	76-14-2	2.1	5.2	7.0	Not Detected
Freon 12	75-71-8	0.72	3.7	4.9	2.4 J
Heptane	142-82-5	1.1	3.0	4.1	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV9-5	Date/Time Analyzed:	6/24/23 12:42 AM
Lab ID:	2306303A-18A	Dilution Factor:	1.99
Date/Time Collected:	6/12/23 02:59 PM	Instrument/Filename:	msdp.i / p062325
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	15	36	42	Not Detected
Hexane	110-54-3	1.0	2.6	3.5	Not Detected
m,p-Xylene	108-38-3	1.5	3.2	8.6	Not Detected
Methyl tert-butyl ether	1634-04-4	0.87	5.4	14	Not Detected
Methylene Chloride	75-09-2	2.4	12	34	Not Detected
Naphthalene	91-20-3	1.3	2.6	10	Not Detected
o-Xylene	95-47-6	0.80	3.2	4.3	Not Detected
Propylbenzene	103-65-1	0.63	3.7	4.9	Not Detected
Styrene	100-42-5	0.86	3.2	4.2	Not Detected
Tetrachloroethene	127-18-4	1.3	5.1	6.7	1.3 J
Tetrahydrofuran	109-99-9	0.90	2.2	2.9	42
Toluene	108-88-3	0.97	2.8	7.5	Not Detected
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	410	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.89	3.0	3.9	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.80	3.4	4.5	Not Detected
Trichloroethene	79-01-6	1.2	4.0	5.3	Not Detected
Vinyl Chloride	75-01-4	0.60	1.9	2.5	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	124
4-Bromofluorobenzene	460-00-4	70-130	126
Toluene-d8	2037-26-5	70-130	102

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV10-2	Date/Time Analyzed:	6/24/23 01:14 AM
Lab ID:	2306303A-19A	Dilution Factor:	2.09
Date/Time Collected:	6/12/23 02:06 PM	Instrument/Filename:	msdp.i / p062326
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	1.1	2.8	5.7	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	1.3	5.4	7.2	Not Detected
1,1,2-Trichloroethane	79-00-5	0.85	4.3	5.7	Not Detected
1,1-Dichloroethane	75-34-3	0.88	2.1	4.2	Not Detected
1,1-Dichloroethene	75-35-4	1.0	3.1	4.1	Not Detected
1,1-Difluoroethane	75-37-6	2.4	D	11	Not Detected
1,2,4-Trichlorobenzene	120-82-1	11	26	31	Not Detected
1,2,4-Trimethylbenzene	95-63-6	1.8	3.8	5.1	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	1.8	6.0	8.0	Not Detected
1,2-Dichlorobenzene	95-50-1	2.0	4.7	6.3	Not Detected
1,2-Dichloroethane	107-06-2	0.97	3.2	4.2	Not Detected
1,2-Dichloropropane	78-87-5	0.95	3.6	4.8	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.7	3.8	5.1	Not Detected
1,3-Butadiene	106-99-0	0.96	1.7	2.3	Not Detected
1,3-Dichlorobenzene	541-73-1	1.4	4.7	6.3	Not Detected
1,4-Dichlorobenzene	106-46-7	2.2	4.7	6.3	Not Detected
1,4-Dioxane	123-91-1	0.84	5.6	15	Not Detected
2,2,4-Trimethylpentane	540-84-1	1.1	3.7	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.5	10	12	11 J
2-Hexanone	591-78-6	6.1	14	17	Not Detected
2-Propanol	67-63-0	3.2	8.7	10	4.6 J
3-Chloropropene	107-05-1	1.8	4.9	13	Not Detected
4-Ethyltoluene	622-96-8	1.2	3.8	5.1	Not Detected
4-Methyl-2-pentanone	108-10-1	2.6	3.2	4.3	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV10-2	Date/Time Analyzed:	6/24/23 01:14 AM
Lab ID:	2306303A-19A	Dilution Factor:	2.09
Date/Time Collected:	6/12/23 02:06 PM	Instrument/Filename:	msdp.i / p062326
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	9.1	12	25	37
alpha-Chlorotoluene	100-44-7	1.8	4.0	5.4	Not Detected
Benzene	71-43-2	0.74	2.5	3.3	Not Detected
Bromodichloromethane	75-27-4	1.2	3.5	7.0	Not Detected
Bromoform	75-25-2	2.8	8.1	11	Not Detected
Bromomethane	74-83-9	12	14	40	Not Detected
Carbon Disulfide	75-15-0	10	11	13	Not Detected
Carbon Tetrachloride	56-23-5	1.2	4.9	6.6	Not Detected
Chlorobenzene	108-90-7	0.73	2.4	4.8	Not Detected
Chloroethane	75-00-3	3.6	9.4	11	Not Detected
Chloroform	67-66-3	0.79	2.6	5.1	2.7 J
Chloromethane	74-87-3	3.3	7.3	22	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.93	3.1	4.1	Not Detected
cis-1,3-Dichloropropene	10061-01-5	1.2	3.6	4.7	Not Detected
Cumene	98-82-8	1.8	3.8	5.1	Not Detected
Cyclohexane	110-82-7	0.70	2.7	3.6	Not Detected
Dibromochloromethane	124-48-1	1.8	6.7	8.9	Not Detected
Ethanol	64-17-5	8.3	9.8	20	Not Detected
Ethyl Benzene	100-41-4	1.0	3.4	4.5	Not Detected
Freon 11	75-69-4	1.1	4.4	5.9	1.3 J
Freon 113	76-13-1	1.8	6.0	8.0	Not Detected
Freon 114	76-14-2	2.2	5.5	7.3	Not Detected
Freon 12	75-71-8	0.76	3.9	5.2	2.2 J
Heptane	142-82-5	1.2	3.2	4.3	1.3 J

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV10-2	Date/Time Analyzed:	6/24/23 01:14 AM
Lab ID:	2306303A-19A	Dilution Factor:	2.09
Date/Time Collected:	6/12/23 02:06 PM	Instrument/Filename:	msdp.i / p062326
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	16	38	44	Not Detected
Hexane	110-54-3	1.0	2.8	3.7	Not Detected
m,p-Xylene	108-38-3	1.6	3.4	9.1	Not Detected
Methyl tert-butyl ether	1634-04-4	0.92	5.6	15	Not Detected
Methylene Chloride	75-09-2	2.6	12	36	Not Detected
Naphthalene	91-20-3	1.3	2.7	11	Not Detected
o-Xylene	95-47-6	0.84	3.4	4.5	Not Detected
Propylbenzene	103-65-1	0.66	3.8	5.1	Not Detected
Styrene	100-42-5	0.90	3.3	4.4	Not Detected
Tetrachloroethene	127-18-4	1.3	5.3	7.1	7.7
Tetrahydrofuran	109-99-9	0.94	2.3	3.1	57
Toluene	108-88-3	1.0	3.0	7.9	1.1 J
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	430	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.94	3.1	4.1	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.84	3.6	4.7	Not Detected
Trichloroethene	79-01-6	1.2	4.2	5.6	Not Detected
Vinyl Chloride	75-01-4	0.63	2.0	2.7	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	122
4-Bromofluorobenzene	460-00-4	70-130	126
Toluene-d8	2037-26-5	70-130	103

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV10-5	Date/Time Analyzed:	6/24/23 01:46 AM
Lab ID:	2306303A-20A	Dilution Factor:	2.24
Date/Time Collected:	6/12/23 02:22 PM	Instrument/Filename:	msdp.i / p062327
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	1.1	3.0	6.1	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	1.4	5.8	7.7	Not Detected
1,1,2-Trichloroethane	79-00-5	0.91	4.6	6.1	Not Detected
1,1-Dichloroethane	75-34-3	0.94	2.3	4.5	Not Detected
1,1-Dichloroethene	75-35-4	1.1	3.3	4.4	Not Detected
1,1-Difluoroethane	75-37-6	2.6	D	12	Not Detected
1,2,4-Trichlorobenzene	120-82-1	12	28	33	Not Detected
1,2,4-Trimethylbenzene	95-63-6	1.9	4.1	5.5	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	2.0	6.4	8.6	Not Detected
1,2-Dichlorobenzene	95-50-1	2.2	5.0	6.7	Not Detected
1,2-Dichloroethane	107-06-2	1.0	3.4	4.5	Not Detected
1,2-Dichloropropane	78-87-5	1.0	3.9	5.2	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.9	4.1	5.5	Not Detected
1,3-Butadiene	106-99-0	1.0	1.8	2.5	Not Detected
1,3-Dichlorobenzene	541-73-1	1.4	5.0	6.7	Not Detected
1,4-Dichlorobenzene	106-46-7	2.4	5.0	6.7	Not Detected
1,4-Dioxane	123-91-1	0.90	6.0	16	Not Detected
2,2,4-Trimethylpentane	540-84-1	1.2	3.9	5.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.6	11	13	10 J
2-Hexanone	591-78-6	6.6	16	18	Not Detected
2-Propanol	67-63-0	3.4	9.4	11	Not Detected
3-Chloropropene	107-05-1	1.9	5.2	14	Not Detected
4-Ethyltoluene	622-96-8	1.3	4.1	5.5	Not Detected
4-Methyl-2-pentanone	108-10-1	2.8	3.4	4.6	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV10-5	Date/Time Analyzed:	6/24/23 01:46 AM
Lab ID:	2306303A-20A	Dilution Factor:	2.24
Date/Time Collected:	6/12/23 02:22 PM	Instrument/Filename:	msdp.i / p062327
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	9.8	13	27	21 J
alpha-Chlorotoluene	100-44-7	1.9	4.3	5.8	Not Detected
Benzene	71-43-2	0.79	2.7	3.6	Not Detected
Bromodichloromethane	75-27-4	1.3	3.8	7.5	Not Detected
Bromoform	75-25-2	3.0	8.7	12	Not Detected
Bromomethane	74-83-9	13	15	43	Not Detected
Carbon Disulfide	75-15-0	11	12	14	Not Detected
Carbon Tetrachloride	56-23-5	1.3	5.3	7.0	Not Detected
Chlorobenzene	108-90-7	0.78	2.6	5.2	Not Detected
Chloroethane	75-00-3	3.8	10	12	Not Detected
Chloroform	67-66-3	0.85	2.7	5.5	Not Detected
Chloromethane	74-87-3	3.5	7.9	23	Not Detected
cis-1,2-Dichloroethene	156-59-2	1.0	3.3	4.4	Not Detected
cis-1,3-Dichloropropene	10061-01-5	1.3	3.8	5.1	Not Detected
Cumene	98-82-8	2.0	4.1	5.5	Not Detected
Cyclohexane	110-82-7	0.75	2.9	3.8	Not Detected
Dibromochloromethane	124-48-1	2.0	7.2	9.5	Not Detected
Ethanol	64-17-5	8.9	10	21	9.0 J
Ethyl Benzene	100-41-4	1.1	3.6	4.9	Not Detected
Freon 11	75-69-4	1.2	4.7	6.3	Not Detected
Freon 113	76-13-1	2.0	6.4	8.6	Not Detected
Freon 114	76-14-2	2.4	5.9	7.8	Not Detected
Freon 12	75-71-8	0.82	4.2	5.5	2.2 J
Heptane	142-82-5	1.3	3.4	4.6	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV10-5	Date/Time Analyzed:	6/24/23 01:46 AM
Lab ID:	2306303A-20A	Dilution Factor:	2.24
Date/Time Collected:	6/12/23 02:22 PM	Instrument/Filename:	msdp.i / p062327
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	17	41	48	Not Detected
Hexane	110-54-3	1.1	3.0	3.9	Not Detected
m,p-Xylene	108-38-3	1.7	3.6	9.7	Not Detected
Methyl tert-butyl ether	1634-04-4	0.98	6.0	16	Not Detected
Methylene Chloride	75-09-2	2.8	13	39	Not Detected
Naphthalene	91-20-3	1.4	2.9	12	Not Detected
o-Xylene	95-47-6	0.90	3.6	4.9	Not Detected
Propylbenzene	103-65-1	0.71	4.1	5.5	Not Detected
Styrene	100-42-5	0.97	3.6	4.8	Not Detected
Tetrachloroethene	127-18-4	1.4	5.7	7.6	Not Detected
Tetrahydrofuran	109-99-9	1.0	2.5	3.3	53
Toluene	108-88-3	1.1	3.2	8.4	Not Detected
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	460	Not Detected
trans-1,2-Dichloroethene	156-60-5	1.0	3.3	4.4	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.90	3.8	5.1	Not Detected
Trichloroethene	79-01-6	1.3	4.5	6.0	Not Detected
Vinyl Chloride	75-01-4	0.68	2.1	2.9	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	126
4-Bromofluorobenzene	460-00-4	70-130	127
Toluene-d8	2037-26-5	70-130	102

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV11-2	Date/Time Analyzed:	6/27/23 12:34 AM
Lab ID:	2306303A-21A	Dilution Factor:	2.01
Date/Time Collected:	6/12/23 01:37 PM	Instrument/Filename:	msdp.i / p062622
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	1.0	2.7	5.5	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	1.3	5.2	6.9	Not Detected
1,1,2-Trichloroethane	79-00-5	0.81	4.1	5.5	Not Detected
1,1-Dichloroethane	75-34-3	0.85	2.0	4.1	Not Detected
1,1-Dichloroethene	75-35-4	1.0	3.0	4.0	Not Detected
1,1-Difluoroethane	75-37-6	2.4	D	11	Not Detected
1,2,4-Trichlorobenzene	120-82-1	11	25	30	Not Detected
1,2,4-Trimethylbenzene	95-63-6	1.7	3.7	4.9	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	1.8	5.8	7.7	Not Detected
1,2-Dichlorobenzene	95-50-1	2.0	4.5	6.0	Not Detected
1,2-Dichloroethane	107-06-2	0.93	3.0	4.1	Not Detected
1,2-Dichloropropane	78-87-5	0.91	3.5	4.6	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.7	3.7	4.9	Not Detected
1,3-Butadiene	106-99-0	0.92	1.7	2.2	Not Detected
1,3-Dichlorobenzene	541-73-1	1.3	4.5	6.0	Not Detected
1,4-Dichlorobenzene	106-46-7	2.2	4.5	6.0	Not Detected
1,4-Dioxane	123-91-1	0.80	5.4	14	Not Detected
2,2,4-Trimethylpentane	540-84-1	1.0	3.5	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.4	10	12	27
2-Hexanone	591-78-6	5.9	14	16	Not Detected
2-Propanol	67-63-0	3.1	8.4	9.9	5.3 J
3-Chloropropene	107-05-1	1.7	4.7	12	Not Detected
4-Ethyltoluene	622-96-8	1.2	3.7	4.9	Not Detected
4-Methyl-2-pentanone	108-10-1	2.5	3.1	4.1	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV11-2	Date/Time Analyzed:	6/27/23 12:34 AM
Lab ID:	2306303A-21A	Dilution Factor:	2.01
Date/Time Collected:	6/12/23 01:37 PM	Instrument/File name:	msdp.i / p062622
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	8.8	12	24	40
alpha-Chlorotoluene	100-44-7	1.7	3.9	5.2	Not Detected
Benzene	71-43-2	0.71	2.4	3.2	Not Detected
Bromodichloromethane	75-27-4	1.2	3.4	6.7	Not Detected
Bromoform	75-25-2	2.7	7.8	10	Not Detected
Bromomethane	74-83-9	12	13	39	Not Detected
Carbon Disulfide	75-15-0	9.6	11	12	Not Detected
Carbon Tetrachloride	56-23-5	1.2	4.7	6.3	Not Detected
Chlorobenzene	108-90-7	0.70	2.3	4.6	Not Detected
Chloroethane	75-00-3	3.4	9.0	11	Not Detected
Chloroform	67-66-3	0.76	2.4	4.9	Not Detected
Chloromethane	74-87-3	3.2	7.0	21	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.90	3.0	4.0	Not Detected
cis-1,3-Dichloropropene	10061-01-5	1.2	3.4	4.6	Not Detected
Cumene	98-82-8	1.8	3.7	4.9	Not Detected
Cyclohexane	110-82-7	0.67	2.6	3.4	Not Detected
Dibromochloromethane	124-48-1	1.8	6.4	8.6	Not Detected
Ethanol	64-17-5	8.0	9.5	19	44
Ethyl Benzene	100-41-4	0.98	3.3	4.4	Not Detected
Freon 11	75-69-4	1.1	4.2	5.6	1.5 J
Freon 113	76-13-1	1.8	5.8	7.7	Not Detected
Freon 114	76-14-2	2.2	5.3	7.0	Not Detected
Freon 12	75-71-8	0.73	3.7	5.0	2.2 J
Heptane	142-82-5	1.1	3.1	4.1	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV11-2	Date/Time Analyzed:	6/27/23 12:34 AM
Lab ID:	2306303A-21A	Dilution Factor:	2.01
Date/Time Collected:	6/12/23 01:37 PM	Instrument/Filename:	msdp.i / p062622
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	16	36	43	Not Detected
Hexane	110-54-3	1.0	2.6	3.5	Not Detected
m,p-Xylene	108-38-3	1.5	3.3	8.7	2.6 J
Methyl tert-butyl ether	1634-04-4	0.88	5.4	14	Not Detected
Methylene Chloride	75-09-2	2.5	12	35	Not Detected
Naphthalene	91-20-3	1.3	2.6	10	Not Detected
o-Xylene	95-47-6	0.81	3.3	4.4	Not Detected
Propylbenzene	103-65-1	0.64	3.7	4.9	Not Detected
Styrene	100-42-5	0.87	3.2	4.3	Not Detected
Tetrachloroethene	127-18-4	1.3	5.1	6.8	Not Detected
Tetrahydrofuran	109-99-9	0.91	2.2	3.0	100
Toluene	108-88-3	0.98	2.8	7.6	2.5 J
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	410	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.90	3.0	4.0	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.80	3.4	4.6	Not Detected
Trichloroethene	79-01-6	1.2	4.0	5.4	Not Detected
Vinyl Chloride	75-01-4	0.61	1.9	2.6	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	129
4-Bromofluorobenzene	460-00-4	70-130	128
Toluene-d8	2037-26-5	70-130	102

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV11-5	Date/Time Analyzed:	6/27/23 01:06 AM
Lab ID:	2306303A-22A	Dilution Factor:	1.98
Date/Time Collected:	6/12/23 01:53 PM	Instrument/Filename:	msdp.i / p062623
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	1.0	2.7	5.4	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	1.2	5.1	6.8	Not Detected
1,1,2-Trichloroethane	79-00-5	0.80	4.0	5.4	Not Detected
1,1-Dichloroethane	75-34-3	0.84	2.0	4.0	Not Detected
1,1-Dichloroethene	75-35-4	1.0	2.9	3.9	Not Detected
1,1-Difluoroethane	75-37-6	2.3	D	11	Not Detected
1,2,4-Trichlorobenzene	120-82-1	10	25	29	Not Detected
1,2,4-Trimethylbenzene	95-63-6	1.7	3.6	4.9	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	1.7	5.7	7.6	Not Detected
1,2-Dichlorobenzene	95-50-1	1.9	4.5	6.0	Not Detected
1,2-Dichloroethane	107-06-2	0.92	3.0	4.0	Not Detected
1,2-Dichloropropane	78-87-5	0.90	3.4	4.6	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.6	3.6	4.9	Not Detected
1,3-Butadiene	106-99-0	0.90	1.6	2.2	Not Detected
1,3-Dichlorobenzene	541-73-1	1.3	4.5	6.0	Not Detected
1,4-Dichlorobenzene	106-46-7	2.1	4.5	6.0	Not Detected
1,4-Dioxane	123-91-1	0.79	5.4	14	Not Detected
2,2,4-Trimethylpentane	540-84-1	1.0	3.5	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.4	9.9	12	30
2-Hexanone	591-78-6	5.8	14	16	Not Detected
2-Propanol	67-63-0	3.0	8.3	9.7	5.1 J
3-Chloropropene	107-05-1	1.7	4.6	12	Not Detected
4-Ethyltoluene	622-96-8	1.2	3.6	4.9	Not Detected
4-Methyl-2-pentanone	108-10-1	2.4	3.0	4.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV11-5	Date/Time Analyzed:	6/27/23 01:06 AM
Lab ID:	2306303A-22A	Dilution Factor:	1.98
Date/Time Collected:	6/12/23 01:53 PM	Instrument/Filename:	msdp.i / p062623
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	8.7	12	24	40
alpha-Chlorotoluene	100-44-7	1.7	3.8	5.1	Not Detected
Benzene	71-43-2	0.70	2.4	3.2	0.96 J
Bromodichloromethane	75-27-4	1.2	3.3	6.6	Not Detected
Bromoform	75-25-2	2.6	7.7	10	Not Detected
Bromomethane	74-83-9	11	13	38	Not Detected
Carbon Disulfide	75-15-0	9.5	10	12	Not Detected
Carbon Tetrachloride	56-23-5	1.2	4.7	6.2	Not Detected
Chlorobenzene	108-90-7	0.69	2.3	4.6	Not Detected
Chloroethane	75-00-3	3.4	8.9	10	Not Detected
Chloroform	67-66-3	0.75	2.4	4.8	4.7 J
Chloromethane	74-87-3	3.1	7.0	20	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.88	2.9	3.9	Not Detected
cis-1,3-Dichloropropene	10061-01-5	1.1	3.4	4.5	Not Detected
Cumene	98-82-8	1.7	3.6	4.9	Not Detected
Cyclohexane	110-82-7	0.66	2.6	3.4	Not Detected
Dibromochloromethane	124-48-1	1.7	6.3	8.4	Not Detected
Ethanol	64-17-5	7.8	9.3	19	22
Ethyl Benzene	100-41-4	0.96	3.2	4.3	Not Detected
Freon 11	75-69-4	1.1	4.2	5.6	1.4 J
Freon 113	76-13-1	1.7	5.7	7.6	Not Detected
Freon 114	76-14-2	2.1	5.2	6.9	Not Detected
Freon 12	75-71-8	0.72	3.7	4.9	2.1 J
Heptane	142-82-5	1.1	3.0	4.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV11-5	Date/Time Analyzed:	6/27/23 01:06 AM
Lab ID:	2306303A-22A	Dilution Factor:	1.98
Date/Time Collected:	6/12/23 01:53 PM	Instrument/Filename:	msdp.i / p062623
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	15	36	42	Not Detected
Hexane	110-54-3	0.99	2.6	3.5	Not Detected
m,p-Xylene	108-38-3	1.5	3.2	8.6	2.2 J
Methyl tert-butyl ether	1634-04-4	0.87	5.4	14	Not Detected
Methylene Chloride	75-09-2	2.4	12	34	Not Detected
Naphthalene	91-20-3	1.2	2.6	10	Not Detected
o-Xylene	95-47-6	0.80	3.2	4.3	1.0 J
Propylbenzene	103-65-1	0.63	3.6	4.9	Not Detected
Styrene	100-42-5	0.85	3.2	4.2	Not Detected
Tetrachloroethene	127-18-4	1.3	5.0	6.7	Not Detected
Tetrahydrofuran	109-99-9	0.90	2.2	2.9	160
Toluene	108-88-3	0.96	2.8	7.5	2.1 J
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	400	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.89	2.9	3.9	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.79	3.4	4.5	Not Detected
Trichloroethene	79-01-6	1.2	4.0	5.3	Not Detected
Vinyl Chloride	75-01-4	0.60	1.9	2.5	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	124
4-Bromofluorobenzene	460-00-4	70-130	128
Toluene-d8	2037-26-5	70-130	101

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV12-2	Date/Time Analyzed:	6/27/23 10:46 PM
Lab ID:	2306303A-23A	Dilution Factor:	4.24
Date/Time Collected:	6/13/23 01:08 PM	Instrument/Filename:	msdp.i / p062719
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	2.2	5.8	12	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	2.7	11	14	Not Detected
1,1,2-Trichloroethane	79-00-5	1.7	8.7	12	Not Detected
1,1-Dichloroethane	75-34-3	1.8	4.3	8.6	Not Detected
1,1-Dichloroethene	75-35-4	2.1	6.3	8.4	Not Detected
1,1-Difluoroethane	75-37-6	5.0	D	23	Not Detected
1,2,4-Trichlorobenzene	120-82-1	23	53	63	Not Detected
1,2,4-Trimethylbenzene	95-63-6	3.7	7.8	10	4.5 J
1,2-Dibromoethane (EDB)	106-93-4	3.7	12	16	Not Detected
1,2-Dichlorobenzene	95-50-1	4.2	9.6	13	Not Detected
1,2-Dichloroethane	107-06-2	2.0	6.4	8.6	Not Detected
1,2-Dichloropropane	78-87-5	1.9	7.3	9.8	Not Detected
1,3,5-Trimethylbenzene	108-67-8	3.5	7.8	10	Not Detected
1,3-Butadiene	106-99-0	1.9	3.5	4.7	Not Detected
1,3-Dichlorobenzene	541-73-1	2.8	9.6	13	Not Detected
1,4-Dichlorobenzene	106-46-7	4.6	9.6	13	Not Detected
1,4-Dioxane	123-91-1	1.7	11	30	Not Detected
2,2,4-Trimethylpentane	540-84-1	2.2	7.4	9.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	3.0	21	25	30
2-Hexanone	591-78-6	12	30	35	Not Detected
2-Propanol	67-63-0	6.5	18	21	67
3-Chloropropene	107-05-1	3.6	10	26	Not Detected
4-Ethyltoluene	622-96-8	2.5	7.8	10	Not Detected
4-Methyl-2-pentanone	108-10-1	5.2	6.5	8.7	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV12-2	Date/Time Analyzed:	6/27/23 10:46 PM
Lab ID:	2306303A-23A	Dilution Factor:	4.24
Date/Time Collected:	6/13/23 01:08 PM	Instrument/Filename:	msdp.i / p062719
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	18	25	50	62
alpha-Chlorotoluene	100-44-7	3.7	8.2	11	Not Detected
Benzene	71-43-2	1.5	5.1	6.8	Not Detected
Bromodichloromethane	75-27-4	2.5	7.1	14	Not Detected
Bromoform	75-25-2	5.6	16	22	Not Detected
Bromomethane	74-83-9	24	28	82	Not Detected
Carbon Disulfide	75-15-0	20	22	26	Not Detected
Carbon Tetrachloride	56-23-5	2.5	10	13	Not Detected
Chlorobenzene	108-90-7	1.5	4.9	9.8	Not Detected
Chloroethane	75-00-3	7.2	19	22	Not Detected
Chloroform	67-66-3	1.6	5.2	10	Not Detected
Chloromethane	74-87-3	6.7	15	44	Not Detected
cis-1,2-Dichloroethene	156-59-2	1.9	6.3	8.4	Not Detected
cis-1,3-Dichloropropene	10061-01-5	2.4	7.2	9.6	Not Detected
Cumene	98-82-8	3.7	7.8	10	Not Detected
Cyclohexane	110-82-7	1.4	5.5	7.3	Not Detected
Dibromochloromethane	124-48-1	3.7	14	18	Not Detected
Ethanol	64-17-5	17	20	40	46
Ethyl Benzene	100-41-4	2.0	6.9	9.2	Not Detected
Freon 11	75-69-4	2.3	8.9	12	Not Detected
Freon 113	76-13-1	3.7	12	16	Not Detected
Freon 114	76-14-2	4.6	11	15	Not Detected
Freon 12	75-71-8	1.5	7.9	10	2.8 J
Heptane	142-82-5	2.4	6.5	8.7	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SV12-2	Date/Time Analyzed:	6/27/23 10:46 PM
Lab ID:	2306303A-23A	Dilution Factor:	4.24
Date/Time Collected:	6/13/23 01:08 PM	Instrument/Filename:	msdp.i / p062719
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	33	77	90	Not Detected
Hexane	110-54-3	2.1	5.6	7.5	Not Detected
m,p-Xylene	108-38-3	3.2	6.9	18	Not Detected
Methyl tert-butyl ether	1634-04-4	1.9	11	30	Not Detected
Methylene Chloride	75-09-2	5.2	25	74	Not Detected
Naphthalene	91-20-3	2.7	5.6	22	Not Detected
o-Xylene	95-47-6	1.7	6.9	9.2	Not Detected
Propylbenzene	103-65-1	1.3	7.8	10	Not Detected
Styrene	100-42-5	1.8	6.8	9.0	Not Detected
Tetrachloroethene	127-18-4	2.7	11	14	12 J
Tetrahydrofuran	109-99-9	1.9	4.7	6.2	150
Toluene	108-88-3	2.0	6.0	16	Not Detected
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	870	Not Detected
trans-1,2-Dichloroethene	156-60-5	1.9	6.3	8.4	Not Detected
trans-1,3-Dichloropropene	10061-02-6	1.7	7.2	9.6	Not Detected
Trichloroethene	79-01-6	2.5	8.5	11	Not Detected
Vinyl Chloride	75-01-4	1.3	4.1	5.4	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	128
4-Bromofluorobenzene	460-00-4	70-130	120
Toluene-d8	2037-26-5	70-130	102

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SS1	Date/Time Analyzed:	6/27/23 07:56 AM
Lab ID:	2306303A-24A	Dilution Factor:	1.94
Date/Time Collected:	6/13/23 12:37 PM	Instrument/File name:	msdp.i / p062628
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.99	2.6	5.3	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	1.2	5.0	6.6	Not Detected
1,1,2-Trichloroethane	79-00-5	0.79	4.0	5.3	Not Detected
1,1-Dichloroethane	75-34-3	0.82	2.0	3.9	Not Detected
1,1-Dichloroethene	75-35-4	0.98	2.9	3.8	Not Detected
1,1-Difluoroethane	75-37-6	2.3	D	10	Not Detected
1,2,4-Trichlorobenzene	120-82-1	10	24	29	Not Detected
1,2,4-Trimethylbenzene	95-63-6	1.7	3.6	4.8	7.2
1,2-Dibromoethane (EDB)	106-93-4	1.7	5.6	7.4	Not Detected
1,2-Dichlorobenzene	95-50-1	1.9	4.4	5.8	Not Detected
1,2-Dichloroethane	107-06-2	0.90	2.9	3.9	Not Detected
1,2-Dichloropropane	78-87-5	0.88	3.4	4.5	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.6	3.6	4.8	5.6
1,3-Butadiene	106-99-0	0.89	1.6	2.1	Not Detected
1,3-Dichlorobenzene	541-73-1	1.3	4.4	5.8	Not Detected
1,4-Dichlorobenzene	106-46-7	2.1	4.4	5.8	Not Detected
1,4-Dioxane	123-91-1	0.78	5.2	14	Not Detected
2,2,4-Trimethylpentane	540-84-1	1.0	3.4	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.4	9.7	11	27
2-Hexanone	591-78-6	5.7	14	16	Not Detected
2-Propanol	67-63-0	3.0	8.1	9.5	1300 E
3-Chloropropene	107-05-1	1.6	4.6	12	Not Detected
4-Ethyltoluene	622-96-8	1.2	3.6	4.8	5.8
4-Methyl-2-pentanone	108-10-1	2.4	3.0	4.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SS1	Date/Time Analyzed:	6/27/23 07:56 AM
Lab ID:	2306303A-24A	Dilution Factor:	1.94
Date/Time Collected:	6/13/23 12:37 PM	Instrument/Filename:	msdp.i / p062628
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	8.5	12	23	79
alpha-Chlorotoluene	100-44-7	1.7	3.8	5.0	Not Detected
Benzene	71-43-2	0.68	2.3	3.1	Not Detected
Bromodichloromethane	75-27-4	1.2	3.2	6.5	Not Detected
Bromoform	75-25-2	2.6	7.5	10	Not Detected
Bromomethane	74-83-9	11	13	38	Not Detected
Carbon Disulfide	75-15-0	9.3	10	12	Not Detected
Carbon Tetrachloride	56-23-5	1.1	4.6	6.1	Not Detected
Chlorobenzene	108-90-7	0.68	2.2	4.5	Not Detected
Chloroethane	75-00-3	3.3	8.7	10	Not Detected
Chloroform	67-66-3	0.73	2.4	4.7	Not Detected
Chloromethane	74-87-3	3.0	6.8	20	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.86	2.9	3.8	Not Detected
cis-1,3-Dichloropropene	10061-01-5	1.1	3.3	4.4	Not Detected
Cumene	98-82-8	1.7	3.6	4.8	Not Detected
Cyclohexane	110-82-7	0.65	2.5	3.3	0.76 J
Dibromochloromethane	124-48-1	1.7	6.2	8.3	Not Detected
Ethanol	64-17-5	7.7	9.1	18	410
Ethyl Benzene	100-41-4	0.94	3.2	4.2	1.1 J
Freon 11	75-69-4	1.1	4.1	5.4	1.5 J
Freon 113	76-13-1	1.7	5.6	7.4	Not Detected
Freon 114	76-14-2	2.1	5.1	6.8	Not Detected
Freon 12	75-71-8	0.71	3.6	4.8	3.0 J
Heptane	142-82-5	1.1	3.0	4.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SS1	Date/Time Analyzed:	6/27/23 07:56 AM
Lab ID:	2306303A-24A	Dilution Factor:	1.94
Date/Time Collected:	6/13/23 12:37 PM	Instrument/Filename:	msdp.i / p062628
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	15	35	41	Not Detected
Hexane	110-54-3	0.97	2.6	3.4	Not Detected
m,p-Xylene	108-38-3	1.5	3.2	8.4	2.6 J
Methyl tert-butyl ether	1634-04-4	0.85	5.2	14	Not Detected
Methylene Chloride	75-09-2	2.4	11	34	Not Detected
Naphthalene	91-20-3	1.2	2.5	10	2.7 J
o-Xylene	95-47-6	0.78	3.2	4.2	1.0 J
Propylbenzene	103-65-1	0.61	3.6	4.8	Not Detected
Styrene	100-42-5	0.84	3.1	4.1	Not Detected
Tetrachloroethene	127-18-4	1.2	4.9	6.6	Not Detected
Tetrahydrofuran	109-99-9	0.88	2.1	2.9	160
Toluene	108-88-3	0.94	2.7	7.3	1.9 J
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	400	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.87	2.9	3.8	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.78	3.3	4.4	Not Detected
Trichloroethene	79-01-6	1.1	3.9	5.2	Not Detected
Vinyl Chloride	75-01-4	0.59	1.8	2.5	Not Detected

J = Estimated value.

E = Exceeds instrument calibration range.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	127
4-Bromofluorobenzene	460-00-4	70-130	118

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SS1	Date/Time Analyzed:	6/27/23 07:56 AM
Lab ID:	2306303A-24A	Dilution Factor:	1.94
Date/Time Collected:	6/13/23 12:37 PM	Instrument/Filename:	msdp.i / p062628
Media:	1 Liter Summa Canister		

Surrogates	CAS#	Limits	%Recovery
Toluene-d8	2037-26-5	70-130	99

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SS2	Date/Time Analyzed:	6/27/23 02:09 AM
Lab ID:	2306303A-25A	Dilution Factor:	3.10
Date/Time Collected:	6/13/23 12:12 PM	Instrument/Filename:	msdp.i / p062625
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	1.6	4.2	8.4	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	2.0	8.0	11	Not Detected
1,1,2-Trichloroethane	79-00-5	1.2	6.3	8.4	Not Detected
1,1-Dichloroethane	75-34-3	1.3	3.1	6.3	Not Detected
1,1-Dichloroethene	75-35-4	1.6	4.6	6.1	Not Detected
1,1-Difluoroethane	75-37-6	3.6	D	17	680
1,2,4-Trichlorobenzene	120-82-1	16	39	46	Not Detected
1,2,4-Trimethylbenzene	95-63-6	2.7	5.7	7.6	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	2.7	8.9	12	Not Detected
1,2-Dichlorobenzene	95-50-1	3.0	7.0	9.3	Not Detected
1,2-Dichloroethane	107-06-2	1.4	4.7	6.3	Not Detected
1,2-Dichloropropane	78-87-5	1.4	5.4	7.2	Not Detected
1,3,5-Trimethylbenzene	108-67-8	2.6	5.7	7.6	Not Detected
1,3-Butadiene	106-99-0	1.4	2.6	3.4	Not Detected
1,3-Dichlorobenzene	541-73-1	2.0	7.0	9.3	Not Detected
1,4-Dichlorobenzene	106-46-7	3.3	7.0	9.3	Not Detected
1,4-Dioxane	123-91-1	1.2	8.4	22	Not Detected
2,2,4-Trimethylpentane	540-84-1	1.6	5.4	7.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	2.2	16	18	22
2-Hexanone	591-78-6	9.1	22	25	Not Detected
2-Propanol	67-63-0	4.8	13	15	4.9 J
3-Chloropropene	107-05-1	2.6	7.3	19	Not Detected
4-Ethyltoluene	622-96-8	1.9	5.7	7.6	Not Detected
4-Methyl-2-pentanone	108-10-1	3.8	4.8	6.3	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SS2	Date/Time Analyzed:	6/27/23 02:09 AM
Lab ID:	2306303A-25A	Dilution Factor:	3.10
Date/Time Collected:	6/13/23 12:12 PM	Instrument/Filename:	msdp.i / p062625
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	14	18	37	26 J
alpha-Chlorotoluene	100-44-7	2.7	6.0	8.0	Not Detected
Benzene	71-43-2	1.1	3.7	5.0	Not Detected
Bromodichloromethane	75-27-4	1.8	5.2	10	Not Detected
Bromoform	75-25-2	4.1	12	16	Not Detected
Bromomethane	74-83-9	18	20	60	Not Detected
Carbon Disulfide	75-15-0	15	16	19	Not Detected
Carbon Tetrachloride	56-23-5	1.8	7.3	9.8	Not Detected
Chlorobenzene	108-90-7	1.1	3.6	7.1	Not Detected
Chloroethane	75-00-3	5.3	14	16	Not Detected
Chloroform	67-66-3	1.2	3.8	7.6	Not Detected
Chloromethane	74-87-3	4.9	11	32	Not Detected
cis-1,2-Dichloroethene	156-59-2	1.4	4.6	6.1	Not Detected
cis-1,3-Dichloropropene	10061-01-5	1.8	5.3	7.0	Not Detected
Cumene	98-82-8	2.7	5.7	7.6	Not Detected
Cyclohexane	110-82-7	1.0	4.0	5.3	Not Detected
Dibromochloromethane	124-48-1	2.7	9.9	13	Not Detected
Ethanol	64-17-5	12	15	29	19 J
Ethyl Benzene	100-41-4	1.5	5.0	6.7	Not Detected
Freon 11	75-69-4	1.7	6.5	8.7	Not Detected
Freon 113	76-13-1	2.7	8.9	12	Not Detected
Freon 114	76-14-2	3.3	8.1	11	Not Detected
Freon 12	75-71-8	1.1	5.7	7.7	2.6 J
Heptane	142-82-5	1.8	4.8	6.4	4.8 J

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	SS2	Date/Time Analyzed:	6/27/23 02:09 AM
Lab ID:	2306303A-25A	Dilution Factor:	3.10
Date/Time Collected:	6/13/23 12:12 PM	Instrument/Filename:	msdp.i / p062625
Media:	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	24	56	66	Not Detected
Hexane	110-54-3	1.6	4.1	5.5	Not Detected
m,p-Xylene	108-38-3	2.4	5.0	13	Not Detected
Methyl tert-butyl ether	1634-04-4	1.4	8.4	22	Not Detected
Methylene Chloride	75-09-2	3.8	18	54	Not Detected
Naphthalene	91-20-3	2.0	4.1	16	Not Detected
o-Xylene	95-47-6	1.2	5.0	6.7	Not Detected
Propylbenzene	103-65-1	0.98	5.7	7.6	Not Detected
Styrene	100-42-5	1.3	5.0	6.6	Not Detected
Tetrachloroethene	127-18-4	2.0	7.9	10	Not Detected
Tetrahydrofuran	109-99-9	1.4	3.4	4.6	120
Toluene	108-88-3	1.5	4.4	12	2.0 J
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	630	Not Detected
trans-1,2-Dichloroethene	156-60-5	1.4	4.6	6.1	Not Detected
trans-1,3-Dichloropropene	10061-02-6	1.2	5.3	7.0	Not Detected
Trichloroethene	79-01-6	1.8	6.2	8.3	Not Detected
Vinyl Chloride	75-01-4	0.94	3.0	4.0	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	127
4-Bromofluorobenzene	460-00-4	70-130	127
Toluene-d8	2037-26-5	70-130	101

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	Lab Blank	Date/Time Analyzed:	6/22/23 03:47 PM
Lab ID:	2306303A-26A	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/File name:	msdp.i / p062208c
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.51	1.4	2.7	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.63	2.6	3.4	Not Detected
1,1,2-Trichloroethane	79-00-5	0.40	2.0	2.7	Not Detected
1,1-Dichloroethane	75-34-3	0.42	1.0	2.0	Not Detected
1,1-Dichloroethene	75-35-4	0.50	1.5	2.0	Not Detected
1,1-Difluoroethane	75-37-6	1.2	D	5.4	Not Detected
1,2,4-Trichlorobenzene	120-82-1	5.3	13	15	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.86	1.8	2.4	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.88	2.9	3.8	Not Detected
1,2-Dichlorobenzene	95-50-1	0.98	2.2	3.0	Not Detected
1,2-Dichloroethane	107-06-2	0.46	1.5	2.0	Not Detected
1,2-Dichloropropane	78-87-5	0.45	1.7	2.3	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.84	1.8	2.4	Not Detected
1,3-Butadiene	106-99-0	0.46	0.83	1.1	Not Detected
1,3-Dichlorobenzene	541-73-1	0.65	2.2	3.0	Not Detected
1,4-Dichlorobenzene	106-46-7	1.1	2.2	3.0	Not Detected
1,4-Dioxane	123-91-1	0.40	2.7	7.2	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.51	1.8	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.71	5.0	5.9	Not Detected
2-Hexanone	591-78-6	2.9	7.0	8.2	Not Detected
2-Propanol	67-63-0	1.5	4.2	4.9	Not Detected
3-Chloropropene	107-05-1	0.84	2.3	6.3	Not Detected
4-Ethyltoluene	622-96-8	0.60	1.8	2.4	Not Detected
4-Methyl-2-pentanone	108-10-1	1.2	1.5	2.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	Lab Blank	Date/Time Analyzed:	6/22/23 03:47 PM
Lab ID:	2306303A-26A	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/File name:	msdp.i / p062208c
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	4.4	5.9	12	Not Detected
alpha-Chlorotoluene	100-44-7	0.87	1.9	2.6	Not Detected
Benzene	71-43-2	0.35	1.2	1.6	Not Detected
Bromodichloromethane	75-27-4	0.60	1.7	3.4	Not Detected
Bromoform	75-25-2	1.3	3.9	5.2	Not Detected
Bromomethane	74-83-9	5.8	6.6	19	Not Detected
Carbon Disulfide	75-15-0	4.8	5.3	6.2	Not Detected
Carbon Tetrachloride	56-23-5	0.58	2.4	3.1	Not Detected
Chlorobenzene	108-90-7	0.35	1.2	2.3	Not Detected
Chloroethane	75-00-3	1.7	4.5	5.3	Not Detected
Chloroform	67-66-3	0.38	1.2	2.4	Not Detected
Chloromethane	74-87-3	1.6	3.5	10	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.45	1.5	2.0	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.57	1.7	2.3	Not Detected
Cumene	98-82-8	0.88	1.8	2.4	Not Detected
Cyclohexane	110-82-7	0.33	1.3	1.7	Not Detected
Dibromochloromethane	124-48-1	0.88	3.2	4.2	Not Detected
Ethanol	64-17-5	4.0	4.7	9.4	Not Detected
Ethyl Benzene	100-41-4	0.48	1.6	2.2	Not Detected
Freon 11	75-69-4	0.55	2.1	2.8	Not Detected
Freon 113	76-13-1	0.88	2.9	3.8	Not Detected
Freon 114	76-14-2	1.1	2.6	3.5	Not Detected
Freon 12	75-71-8	0.36	1.8	2.5	Not Detected
Heptane	142-82-5	0.57	1.5	2.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	Lab Blank	Date/Time Analyzed:	6/22/23 03:47 PM
Lab ID:	2306303A-26A	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062208c
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	7.8	18	21	Not Detected
Hexane	110-54-3	0.50	1.3	1.8	Not Detected
m,p-Xylene	108-38-3	0.76	1.6	4.3	Not Detected
Methyl tert-butyl ether	1634-04-4	0.44	2.7	7.2	Not Detected
Methylene Chloride	75-09-2	1.2	5.9	17	Not Detected
Naphthalene	91-20-3	0.63	1.3	5.2	Not Detected
o-Xylene	95-47-6	0.40	1.6	2.2	Not Detected
Propylbenzene	103-65-1	0.32	1.8	2.4	Not Detected
Styrene	100-42-5	0.43	1.6	2.1	Not Detected
Tetrachloroethene	127-18-4	0.64	2.5	3.4	Not Detected
Tetrahydrofuran	109-99-9	0.45	1.1	1.5	Not Detected
Toluene	108-88-3	0.48	1.4	3.8	Not Detected
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	200	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.45	1.5	2.0	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.40	1.7	2.3	Not Detected
Trichloroethene	79-01-6	0.59	2.0	2.7	Not Detected
Vinyl Chloride	75-01-4	0.30	0.96	1.3	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	116
4-Bromofluorobenzene	460-00-4	70-130	115
Toluene-d8	2037-26-5	70-130	102

EPA METHOD TO-15 GC/MS
Pacific Highway Auto Care (PHAC)

Client ID:	Lab Blank	Date/Time Analyzed:	6/23/23 03:58 PM
Lab ID:	2306303A-26B	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msd14.i / 14062306e
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	5.5	16	27	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	4.0	20	34	Not Detected
1,1,2-Trichloroethane	79-00-5	9.1	16	27	Not Detected
1,1-Dichloroethane	75-34-3	4.2	12	20	Not Detected
1,1-Dichloroethene	75-35-4	4.1	12	20	Not Detected
1,1-Difluoroethane	75-37-6	9.3	D	54	Not Detected
1,2,4-Trichlorobenzene	120-82-1	70	110	150	Not Detected
1,2,4-Trimethylbenzene	95-63-6	2.5	15	24	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	3.1	23	38	Not Detected
1,2-Dichlorobenzene	95-50-1	7.0	18	30	Not Detected
1,2-Dichloroethane	107-06-2	6.5	12	20	Not Detected
1,2-Dichloropropane	78-87-5	5.8	14	23	Not Detected
1,3,5-Trimethylbenzene	108-67-8	5.1	15	24	Not Detected
1,3-Butadiene	106-99-0	3.7	6.6	11	Not Detected
1,3-Dichlorobenzene	541-73-1	3.4	18	30	Not Detected
1,4-Dichlorobenzene	106-46-7	4.1	18	30	Not Detected
1,4-Dioxane	123-91-1	18	54	72	Not Detected
2,2,4-Trimethylpentane	540-84-1	2.7	14	23	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	12	44	59	Not Detected
2-Hexanone	591-78-6	8.3	61	82	Not Detected
2-Propanol	67-63-0	12	37	61	Not Detected
3-Chloropropene	107-05-1	15	47	63	Not Detected
4-Ethyltoluene	622-96-8	11	15	24	Not Detected
4-Methyl-2-pentanone	108-10-1	10	61	82	Not Detected

EPA METHOD TO-15 GC/MS
Pacific Highway Auto Care (PHAC)

Client ID:	Lab Blank	Date/Time Analyzed:	6/23/23 03:58 PM
Lab ID:	2306303A-26B	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msd14.i / 14062306e
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	5.3	36	48	Not Detected
alpha-Chlorotoluene	100-44-7	3.4	16	26	Not Detected
Benzene	71-43-2	1.8	9.6	16	Not Detected
Bromodichloromethane	75-27-4	6.2	20	34	Not Detected
Bromoform	75-25-2	7.0	31	52	Not Detected
Bromomethane	74-83-9	25	58	78	Not Detected
Carbon Disulfide	75-15-0	7.9	47	62	Not Detected
Carbon Tetrachloride	56-23-5	6.0	19	31	Not Detected
Chlorobenzene	108-90-7	4.4	14	23	Not Detected
Chloroethane	75-00-3	9.8	40	53	Not Detected
Chloroform	67-66-3	4.8	15	24	Not Detected
Chloromethane	74-87-3	16	31	41	Not Detected
cis-1,2-Dichloroethene	156-59-2	5.6	12	20	Not Detected
cis-1,3-Dichloropropene	10061-01-5	5.7	14	23	Not Detected
Cumene	98-82-8	2.5	15	24	Not Detected
Cyclohexane	110-82-7	3.5	10	17	Not Detected
Dibromochloromethane	124-48-1	8.1	26	42	Not Detected
Ethanol	64-17-5	13	28	47	Not Detected
Ethyl Benzene	100-41-4	4.7	13	22	Not Detected
Freon 11	75-69-4	5.8	17	28	Not Detected
Freon 113	76-13-1	5.7	23	38	Not Detected
Freon 114	76-14-2	6.1	21	35	Not Detected
Freon 12	75-71-8	8.2	15	25	Not Detected
Heptane	142-82-5	5.8	12	20	Not Detected

EPA METHOD TO-15 GC/MS
Pacific Highway Auto Care (PHAC)

Client ID:	Lab Blank	Date/Time Analyzed:	6/23/23 03:58 PM
Lab ID:	2306303A-26B	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msd14.i / 14062306e
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	120	160	210	Not Detected
Hexane	110-54-3	3.9	10	18	Not Detected
m,p-Xylene	108-38-3	3.5	13	22	Not Detected
Methyl tert-butyl ether	1634-04-4	4.5	11	18	Not Detected
Methylene Chloride	75-09-2	10	52	69	Not Detected
Naphthalene	91-20-3	4.6	16	100	Not Detected
o-Xylene	95-47-6	3.5	13	22	Not Detected
Propylbenzene	103-65-1	6.2	15	24	Not Detected
Styrene	100-42-5	3.2	13	21	Not Detected
Tetrachloroethene	127-18-4	4.8	20	34	Not Detected
Tetrahydrofuran	109-99-9	4.2	8.8	15	Not Detected
Toluene	108-88-3	2.7	11	19	Not Detected
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	2000	Not Detected
trans-1,2-Dichloroethene	156-60-5	5.6	12	20	Not Detected
trans-1,3-Dichloropropene	10061-02-6	5.0	14	23	Not Detected
Trichloroethene	79-01-6	6.6	16	27	Not Detected
Vinyl Chloride	75-01-4	5.4	7.7	13	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	115
4-Bromofluorobenzene	460-00-4	70-130	96
Toluene-d8	2037-26-5	70-130	102

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	Lab Blank	Date/Time Analyzed:	6/23/23 03:33 PM
Lab ID:	2306303A-26C	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/File name:	msdp.i / p062311c
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.51	1.4	2.7	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.63	2.6	3.4	Not Detected
1,1,2-Trichloroethane	79-00-5	0.40	2.0	2.7	Not Detected
1,1-Dichloroethane	75-34-3	0.42	1.0	2.0	Not Detected
1,1-Dichloroethene	75-35-4	0.50	1.5	2.0	Not Detected
1,1-Difluoroethane	75-37-6	1.2	D	5.4	Not Detected
1,2,4-Trichlorobenzene	120-82-1	5.3	13	15	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.86	1.8	2.4	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.88	2.9	3.8	Not Detected
1,2-Dichlorobenzene	95-50-1	0.98	2.2	3.0	Not Detected
1,2-Dichloroethane	107-06-2	0.46	1.5	2.0	Not Detected
1,2-Dichloropropane	78-87-5	0.45	1.7	2.3	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.84	1.8	2.4	Not Detected
1,3-Butadiene	106-99-0	0.46	0.83	1.1	Not Detected
1,3-Dichlorobenzene	541-73-1	0.65	2.2	3.0	Not Detected
1,4-Dichlorobenzene	106-46-7	1.1	2.2	3.0	Not Detected
1,4-Dioxane	123-91-1	0.40	2.7	7.2	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.51	1.8	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.71	5.0	5.9	Not Detected
2-Hexanone	591-78-6	2.9	7.0	8.2	Not Detected
2-Propanol	67-63-0	1.5	4.2	4.9	Not Detected
3-Chloropropene	107-05-1	0.84	2.3	6.3	Not Detected
4-Ethyltoluene	622-96-8	0.60	1.8	2.4	Not Detected
4-Methyl-2-pentanone	108-10-1	1.2	1.5	2.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	Lab Blank	Date/Time Analyzed:	6/23/23 03:33 PM
Lab ID:	2306303A-26C	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062311c
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	4.4	5.9	12	Not Detected
alpha-Chlorotoluene	100-44-7	0.87	1.9	2.6	Not Detected
Benzene	71-43-2	0.35	1.2	1.6	Not Detected
Bromodichloromethane	75-27-4	0.60	1.7	3.4	Not Detected
Bromoform	75-25-2	1.3	3.9	5.2	Not Detected
Bromomethane	74-83-9	5.8	6.6	19	Not Detected
Carbon Disulfide	75-15-0	4.8	5.3	6.2	Not Detected
Carbon Tetrachloride	56-23-5	0.58	2.4	3.1	Not Detected
Chlorobenzene	108-90-7	0.35	1.2	2.3	Not Detected
Chloroethane	75-00-3	1.7	4.5	5.3	Not Detected
Chloroform	67-66-3	0.38	1.2	2.4	Not Detected
Chloromethane	74-87-3	1.6	3.5	10	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.45	1.5	2.0	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.57	1.7	2.3	Not Detected
Cumene	98-82-8	0.88	1.8	2.4	Not Detected
Cyclohexane	110-82-7	0.33	1.3	1.7	Not Detected
Dibromochloromethane	124-48-1	0.88	3.2	4.2	Not Detected
Ethanol	64-17-5	4.0	4.7	9.4	Not Detected
Ethyl Benzene	100-41-4	0.48	1.6	2.2	Not Detected
Freon 11	75-69-4	0.55	2.1	2.8	Not Detected
Freon 113	76-13-1	0.88	2.9	3.8	Not Detected
Freon 114	76-14-2	1.1	2.6	3.5	Not Detected
Freon 12	75-71-8	0.36	1.8	2.5	Not Detected
Heptane	142-82-5	0.57	1.5	2.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	Lab Blank	Date/Time Analyzed:	6/23/23 03:33 PM
Lab ID:	2306303A-26C	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062311c
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	7.8	18	21	Not Detected
Hexane	110-54-3	0.50	1.3	1.8	Not Detected
m,p-Xylene	108-38-3	0.76	1.6	4.3	Not Detected
Methyl tert-butyl ether	1634-04-4	0.44	2.7	7.2	Not Detected
Methylene Chloride	75-09-2	1.2	5.9	17	Not Detected
Naphthalene	91-20-3	0.63	1.3	5.2	Not Detected
o-Xylene	95-47-6	0.40	1.6	2.2	Not Detected
Propylbenzene	103-65-1	0.32	1.8	2.4	Not Detected
Styrene	100-42-5	0.43	1.6	2.1	Not Detected
Tetrachloroethene	127-18-4	0.64	2.5	3.4	Not Detected
Tetrahydrofuran	109-99-9	0.45	1.1	1.5	Not Detected
Toluene	108-88-3	0.48	1.4	3.8	Not Detected
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	200	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.45	1.5	2.0	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.40	1.7	2.3	Not Detected
Trichloroethene	79-01-6	0.59	2.0	2.7	Not Detected
Vinyl Chloride	75-01-4	0.30	0.96	1.3	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	119
4-Bromofluorobenzene	460-00-4	70-130	122
Toluene-d8	2037-26-5	70-130	103

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	Lab Blank	Date/Time Analyzed:	6/26/23 02:19 PM
Lab ID:	2306303A-26D	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/File name:	msdp.i / p062608a
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.51	1.4	2.7	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.63	2.6	3.4	Not Detected
1,1,2-Trichloroethane	79-00-5	0.40	2.0	2.7	Not Detected
1,1-Dichloroethane	75-34-3	0.42	1.0	2.0	Not Detected
1,1-Dichloroethene	75-35-4	0.50	1.5	2.0	Not Detected
1,1-Difluoroethane	75-37-6	1.2	D	5.4	Not Detected
1,2,4-Trichlorobenzene	120-82-1	5.3	13	15	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.86	1.8	2.4	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.88	2.9	3.8	Not Detected
1,2-Dichlorobenzene	95-50-1	0.98	2.2	3.0	Not Detected
1,2-Dichloroethane	107-06-2	0.46	1.5	2.0	Not Detected
1,2-Dichloropropane	78-87-5	0.45	1.7	2.3	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.84	1.8	2.4	Not Detected
1,3-Butadiene	106-99-0	0.46	0.83	1.1	Not Detected
1,3-Dichlorobenzene	541-73-1	0.65	2.2	3.0	Not Detected
1,4-Dichlorobenzene	106-46-7	1.1	2.2	3.0	Not Detected
1,4-Dioxane	123-91-1	0.40	2.7	7.2	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.51	1.8	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.71	5.0	5.9	1.1 J
2-Hexanone	591-78-6	2.9	7.0	8.2	Not Detected
2-Propanol	67-63-0	1.5	4.2	4.9	Not Detected
3-Chloropropene	107-05-1	0.84	2.3	6.3	Not Detected
4-Ethyltoluene	622-96-8	0.60	1.8	2.4	Not Detected
4-Methyl-2-pentanone	108-10-1	1.2	1.5	2.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	Lab Blank	Date/Time Analyzed:	6/26/23 02:19 PM
Lab ID:	2306303A-26D	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/File Name:	msdp.i / p062608a
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	4.4	5.9	12	7.7 J
alpha-Chlorotoluene	100-44-7	0.87	1.9	2.6	Not Detected
Benzene	71-43-2	0.35	1.2	1.6	Not Detected
Bromodichloromethane	75-27-4	0.60	1.7	3.4	Not Detected
Bromoform	75-25-2	1.3	3.9	5.2	Not Detected
Bromomethane	74-83-9	5.8	6.6	19	Not Detected
Carbon Disulfide	75-15-0	4.8	5.3	6.2	Not Detected
Carbon Tetrachloride	56-23-5	0.58	2.4	3.1	Not Detected
Chlorobenzene	108-90-7	0.35	1.2	2.3	Not Detected
Chloroethane	75-00-3	1.7	4.5	5.3	Not Detected
Chloroform	67-66-3	0.38	1.2	2.4	Not Detected
Chloromethane	74-87-3	1.6	3.5	10	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.45	1.5	2.0	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.57	1.7	2.3	Not Detected
Cumene	98-82-8	0.88	1.8	2.4	Not Detected
Cyclohexane	110-82-7	0.33	1.3	1.7	Not Detected
Dibromochloromethane	124-48-1	0.88	3.2	4.2	Not Detected
Ethanol	64-17-5	4.0	4.7	9.4	Not Detected
Ethyl Benzene	100-41-4	0.48	1.6	2.2	Not Detected
Freon 11	75-69-4	0.55	2.1	2.8	Not Detected
Freon 113	76-13-1	0.88	2.9	3.8	Not Detected
Freon 114	76-14-2	1.1	2.6	3.5	Not Detected
Freon 12	75-71-8	0.36	1.8	2.5	Not Detected
Heptane	142-82-5	0.57	1.5	2.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	Lab Blank	Date/Time Analyzed:	6/26/23 02:19 PM
Lab ID:	2306303A-26D	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062608a
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	7.8	18	21	Not Detected
Hexane	110-54-3	0.50	1.3	1.8	Not Detected
m,p-Xylene	108-38-3	0.76	1.6	4.3	Not Detected
Methyl tert-butyl ether	1634-04-4	0.44	2.7	7.2	Not Detected
Methylene Chloride	75-09-2	1.2	5.9	17	Not Detected
Naphthalene	91-20-3	0.63	1.3	5.2	Not Detected
o-Xylene	95-47-6	0.40	1.6	2.2	Not Detected
Propylbenzene	103-65-1	0.32	1.8	2.4	Not Detected
Styrene	100-42-5	0.43	1.6	2.1	Not Detected
Tetrachloroethene	127-18-4	0.64	2.5	3.4	Not Detected
Tetrahydrofuran	109-99-9	0.45	1.1	1.5	Not Detected
Toluene	108-88-3	0.48	1.4	3.8	Not Detected
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	200	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.45	1.5	2.0	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.40	1.7	2.3	Not Detected
Trichloroethene	79-01-6	0.59	2.0	2.7	Not Detected
Vinyl Chloride	75-01-4	0.30	0.96	1.3	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	123
4-Bromofluorobenzene	460-00-4	70-130	114
Toluene-d8	2037-26-5	70-130	104

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	Lab Blank	Date/Time Analyzed:	6/27/23 02:37 PM
Lab ID:	2306303A-26E	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062708d
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.51	1.4	2.7	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.63	2.6	3.4	Not Detected
1,1,2-Trichloroethane	79-00-5	0.40	2.0	2.7	Not Detected
1,1-Dichloroethane	75-34-3	0.42	1.0	2.0	Not Detected
1,1-Dichloroethene	75-35-4	0.50	1.5	2.0	Not Detected
1,1-Difluoroethane	75-37-6	1.2	D	5.4	Not Detected
1,2,4-Trichlorobenzene	120-82-1	5.3	13	15	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.86	1.8	2.4	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.88	2.9	3.8	Not Detected
1,2-Dichlorobenzene	95-50-1	0.98	2.2	3.0	Not Detected
1,2-Dichloroethane	107-06-2	0.46	1.5	2.0	Not Detected
1,2-Dichloropropane	78-87-5	0.45	1.7	2.3	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.84	1.8	2.4	Not Detected
1,3-Butadiene	106-99-0	0.46	0.83	1.1	Not Detected
1,3-Dichlorobenzene	541-73-1	0.65	2.2	3.0	Not Detected
1,4-Dichlorobenzene	106-46-7	1.1	2.2	3.0	Not Detected
1,4-Dioxane	123-91-1	0.40	2.7	7.2	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.51	1.8	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.71	5.0	5.9	1.3 J
2-Hexanone	591-78-6	2.9	7.0	8.2	Not Detected
2-Propanol	67-63-0	1.5	4.2	4.9	Not Detected
3-Chloropropene	107-05-1	0.84	2.3	6.3	Not Detected
4-Ethyltoluene	622-96-8	0.60	1.8	2.4	Not Detected
4-Methyl-2-pentanone	108-10-1	1.2	1.5	2.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	Lab Blank	Date/Time Analyzed:	6/27/23 02:37 PM
Lab ID:	2306303A-26E	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/File name:	msdp.i / p062708d
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	67-64-1	4.4	5.9	12	8.1 J
alpha-Chlorotoluene	100-44-7	0.87	1.9	2.6	Not Detected
Benzene	71-43-2	0.35	1.2	1.6	Not Detected
Bromodichloromethane	75-27-4	0.60	1.7	3.4	Not Detected
Bromoform	75-25-2	1.3	3.9	5.2	Not Detected
Bromomethane	74-83-9	5.8	6.6	19	Not Detected
Carbon Disulfide	75-15-0	4.8	5.3	6.2	Not Detected
Carbon Tetrachloride	56-23-5	0.58	2.4	3.1	Not Detected
Chlorobenzene	108-90-7	0.35	1.2	2.3	Not Detected
Chloroethane	75-00-3	1.7	4.5	5.3	Not Detected
Chloroform	67-66-3	0.38	1.2	2.4	Not Detected
Chloromethane	74-87-3	1.6	3.5	10	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.45	1.5	2.0	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.57	1.7	2.3	Not Detected
Cumene	98-82-8	0.88	1.8	2.4	Not Detected
Cyclohexane	110-82-7	0.33	1.3	1.7	Not Detected
Dibromochloromethane	124-48-1	0.88	3.2	4.2	Not Detected
Ethanol	64-17-5	4.0	4.7	9.4	Not Detected
Ethyl Benzene	100-41-4	0.48	1.6	2.2	Not Detected
Freon 11	75-69-4	0.55	2.1	2.8	Not Detected
Freon 113	76-13-1	0.88	2.9	3.8	Not Detected
Freon 114	76-14-2	1.1	2.6	3.5	Not Detected
Freon 12	75-71-8	0.36	1.8	2.5	Not Detected
Heptane	142-82-5	0.57	1.5	2.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	Lab Blank	Date/Time Analyzed:	6/27/23 02:37 PM
Lab ID:	2306303A-26E	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062708d
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexachlorobutadiene	87-68-3	7.8	18	21	Not Detected
Hexane	110-54-3	0.50	1.3	1.8	Not Detected
m,p-Xylene	108-38-3	0.76	1.6	4.3	Not Detected
Methyl tert-butyl ether	1634-04-4	0.44	2.7	7.2	Not Detected
Methylene Chloride	75-09-2	1.2	5.9	17	Not Detected
Naphthalene	91-20-3	0.63	1.3	5.2	Not Detected
o-Xylene	95-47-6	0.40	1.6	2.2	Not Detected
Propylbenzene	103-65-1	0.32	1.8	2.4	Not Detected
Styrene	100-42-5	0.43	1.6	2.1	Not Detected
Tetrachloroethene	127-18-4	0.64	2.5	3.4	Not Detected
Tetrahydrofuran	109-99-9	0.45	1.1	1.5	Not Detected
Toluene	108-88-3	0.48	1.4	3.8	Not Detected
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	200	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.45	1.5	2.0	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.40	1.7	2.3	Not Detected
Trichloroethene	79-01-6	0.59	2.0	2.7	Not Detected
Vinyl Chloride	75-01-4	0.30	0.96	1.3	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	118
4-Bromofluorobenzene	460-00-4	70-130	116
Toluene-d8	2037-26-5	70-130	103

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	CCV	Date/Time Analyzed:	6/22/23 12:44 PM
Lab ID:	2306303A-27A	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062203
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	114
1,1,2,2-Tetrachloroethane	79-34-5	102
1,1,2-Trichloroethane	79-00-5	97
1,1-Dichloroethane	75-34-3	102
1,1-Dichloroethene	75-35-4	90
1,1-Difluoroethane	75-37-6	95
1,2,4-Trichlorobenzene	120-82-1	115
1,2,4-Trimethylbenzene	95-63-6	116
1,2-Dibromoethane (EDB)	106-93-4	100
1,2-Dichlorobenzene	95-50-1	106
1,2-Dichloroethane	107-06-2	112
1,2-Dichloropropane	78-87-5	99
1,3,5-Trimethylbenzene	108-67-8	105
1,3-Butadiene	106-99-0	102
1,3-Dichlorobenzene	541-73-1	106
1,4-Dichlorobenzene	106-46-7	105
1,4-Dioxane	123-91-1	100
2,2,4-Trimethylpentane	540-84-1	114
2-Butanone (Methyl Ethyl Ketone)	78-93-3	99
2-Hexanone	591-78-6	120
2-Propanol	67-63-0	104
3-Chloropropene	107-05-1	92
4-Ethyltoluene	622-96-8	108
4-Methyl-2-pentanone	108-10-1	123

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	CCV	Date/Time Analyzed:	6/22/23 12:44 PM
Lab ID:	2306303A-27A	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062203
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Acetone	67-64-1	93
alpha-Chlorotoluene	100-44-7	120
Benzene	71-43-2	97
Bromodichloromethane	75-27-4	110
Bromoform	75-25-2	111
Bromomethane	74-83-9	91
Carbon Disulfide	75-15-0	95
Carbon Tetrachloride	56-23-5	114
Chlorobenzene	108-90-7	97
Chloroethane	75-00-3	90
Chloroform	67-66-3	106
Chloromethane	74-87-3	95
cis-1,2-Dichloroethene	156-59-2	99
cis-1,3-Dichloropropene	10061-01-5	110
Cumene	98-82-8	108
Cyclohexane	110-82-7	101
Dibromochloromethane	124-48-1	102
Ethanol	64-17-5	105
Ethyl Benzene	100-41-4	102
Freon 11	75-69-4	110
Freon 113	76-13-1	93
Freon 114	76-14-2	89
Freon 12	75-71-8	107
Heptane	142-82-5	102

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	CCV	Date/Time Analyzed:	6/22/23 12:44 PM
Lab ID:	2306303A-27A	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062203
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexachlorobutadiene	87-68-3	131 Q
Hexane	110-54-3	103
m,p-Xylene	108-38-3	104
Methyl tert-butyl ether	1634-04-4	105
Methylene Chloride	75-09-2	113
Naphthalene	91-20-3	109
o-Xylene	95-47-6	102
Propylbenzene	103-65-1	105
Styrene	100-42-5	108
Tetrachloroethene	127-18-4	101
Tetrahydrofuran	109-99-9	110
Toluene	108-88-3	102
TPH ref. to Gasoline (MW=100)	9999-9999-038	100
trans-1,2-Dichloroethene	156-60-5	94
trans-1,3-Dichloropropene	10061-02-6	111
Trichloroethene	79-01-6	100
Vinyl Chloride	75-01-4	92

Q = Exceeds Quality Control limits.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	122
4-Bromofluorobenzene	460-00-4	70-130	124
Toluene-d8	2037-26-5	70-130	104

EPA METHOD TO-15 GC/MS
Pacific Highway Auto Care (PHAC)

Client ID:	CCV	Date/Time Analyzed:	6/23/23 02:21 PM
Lab ID:	2306303A-27B	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msd14.i / 14062302
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	100
1,1,2,2-Tetrachloroethane	79-34-5	84
1,1,2-Trichloroethane	79-00-5	89
1,1-Dichloroethane	75-34-3	93
1,1-Dichloroethene	75-35-4	96
1,1-Difluoroethane	75-37-6	97
1,2,4-Trichlorobenzene	120-82-1	102
1,2,4-Trimethylbenzene	95-63-6	92
1,2-Dibromoethane (EDB)	106-93-4	89
1,2-Dichlorobenzene	95-50-1	95
1,2-Dichloroethane	107-06-2	100
1,2-Dichloropropane	78-87-5	90
1,3,5-Trimethylbenzene	108-67-8	94
1,3-Butadiene	106-99-0	82
1,3-Dichlorobenzene	541-73-1	87
1,4-Dichlorobenzene	106-46-7	91
1,4-Dioxane	123-91-1	87
2,2,4-Trimethylpentane	540-84-1	87
2-Butanone (Methyl Ethyl Ketone)	78-93-3	91
2-Hexanone	591-78-6	83
2-Propanol	67-63-0	88
3-Chloropropene	107-05-1	87
4-Ethyltoluene	622-96-8	87
4-Methyl-2-pentanone	108-10-1	81

EPA METHOD TO-15 GC/MS
Pacific Highway Auto Care (PHAC)

Client ID:	CCV	Date/Time Analyzed:	6/23/23 02:21 PM
Lab ID:	2306303A-27B	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msd14.i / 14062302
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Acetone	67-64-1	85
alpha-Chlorotoluene	100-44-7	97
Benzene	71-43-2	88
Bromodichloromethane	75-27-4	95
Bromoform	75-25-2	84
Bromomethane	74-83-9	134 Q
Carbon Disulfide	75-15-0	90
Carbon Tetrachloride	56-23-5	96
Chlorobenzene	108-90-7	84
Chloroethane	75-00-3	85
Chloroform	67-66-3	98
Chloromethane	74-87-3	89
cis-1,2-Dichloroethene	156-59-2	90
cis-1,3-Dichloropropene	10061-01-5	89
Cumene	98-82-8	85
Cyclohexane	110-82-7	90
Dibromochloromethane	124-48-1	88
Ethanol	64-17-5	85
Ethyl Benzene	100-41-4	81
Freon 11	75-69-4	107
Freon 113	76-13-1	93
Freon 114	76-14-2	93
Freon 12	75-71-8	98
Heptane	142-82-5	91

EPA METHOD TO-15 GC/MS
Pacific Highway Auto Care (PHAC)

Client ID:	CCV	Date/Time Analyzed:	6/23/23 02:21 PM
Lab ID:	2306303A-27B	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msd14.i / 14062302
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexachlorobutadiene	87-68-3	96
Hexane	110-54-3	85
m,p-Xylene	108-38-3	82
Methyl tert-butyl ether	1634-04-4	103
Methylene Chloride	75-09-2	100
Naphthalene	91-20-3	114
o-Xylene	95-47-6	82
Propylbenzene	103-65-1	84
Styrene	100-42-5	86
Tetrachloroethene	127-18-4	85
Tetrahydrofuran	109-99-9	88
Toluene	108-88-3	85
TPH ref. to Gasoline (MW=100)	9999-9999-038	100
trans-1,2-Dichloroethene	156-60-5	90
trans-1,3-Dichloropropene	10061-02-6	98
Trichloroethene	79-01-6	90
Vinyl Chloride	75-01-4	93

Q = Exceeds Quality Control limits.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	103
Toluene-d8	2037-26-5	70-130	99

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	CCV	Date/Time Analyzed:	6/23/23 12:54 PM
Lab ID:	2306303A-27C	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062307
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	112
1,1,2,2-Tetrachloroethane	79-34-5	100
1,1,2-Trichloroethane	79-00-5	96
1,1-Dichloroethane	75-34-3	98
1,1-Dichloroethene	75-35-4	87
1,1-Difluoroethane	75-37-6	90
1,2,4-Trichlorobenzene	120-82-1	118
1,2,4-Trimethylbenzene	95-63-6	116
1,2-Dibromoethane (EDB)	106-93-4	99
1,2-Dichlorobenzene	95-50-1	106
1,2-Dichloroethane	107-06-2	116
1,2-Dichloropropane	78-87-5	100
1,3,5-Trimethylbenzene	108-67-8	104
1,3-Butadiene	106-99-0	94
1,3-Dichlorobenzene	541-73-1	106
1,4-Dichlorobenzene	106-46-7	106
1,4-Dioxane	123-91-1	100
2,2,4-Trimethylpentane	540-84-1	106
2-Butanone (Methyl Ethyl Ketone)	78-93-3	94
2-Hexanone	591-78-6	116
2-Propanol	67-63-0	98
3-Chloropropene	107-05-1	88
4-Ethyltoluene	622-96-8	105
4-Methyl-2-pentanone	108-10-1	122

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	CCV	Date/Time Analyzed:	6/23/23 12:54 PM
Lab ID:	2306303A-27C	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062307
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Acetone	67-64-1	88
alpha-Chlorotoluene	100-44-7	118
Benzene	71-43-2	98
Bromodichloromethane	75-27-4	113
Bromoform	75-25-2	112
Bromomethane	74-83-9	90
Carbon Disulfide	75-15-0	91
Carbon Tetrachloride	56-23-5	112
Chlorobenzene	108-90-7	95
Chloroethane	75-00-3	88
Chloroform	67-66-3	103
Chloromethane	74-87-3	90
cis-1,2-Dichloroethene	156-59-2	94
cis-1,3-Dichloropropene	10061-01-5	110
Cumene	98-82-8	106
Cyclohexane	110-82-7	96
Dibromochloromethane	124-48-1	100
Ethanol	64-17-5	100
Ethyl Benzene	100-41-4	98
Freon 11	75-69-4	110
Freon 113	76-13-1	91
Freon 114	76-14-2	89
Freon 12	75-71-8	105
Heptane	142-82-5	99

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	CCV	Date/Time Analyzed:	6/23/23 12:54 PM
Lab ID:	2306303A-27C	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062307
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexachlorobutadiene	87-68-3	135 Q
Hexane	110-54-3	97
m,p-Xylene	108-38-3	101
Methyl tert-butyl ether	1634-04-4	101
Methylene Chloride	75-09-2	103
Naphthalene	91-20-3	108
o-Xylene	95-47-6	101
Propylbenzene	103-65-1	103
Styrene	100-42-5	106
Tetrachloroethene	127-18-4	100
Tetrahydrofuran	109-99-9	104
Toluene	108-88-3	102
TPH ref. to Gasoline (MW=100)	9999-9999-038	100
trans-1,2-Dichloroethene	156-60-5	89
trans-1,3-Dichloropropene	10061-02-6	110
Trichloroethene	79-01-6	100
Vinyl Chloride	75-01-4	88

Q = Exceeds Quality Control limits.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	122
4-Bromofluorobenzene	460-00-4	70-130	130
Toluene-d8	2037-26-5	70-130	105

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	CCV	Date/Time Analyzed:	6/26/23 10:24 AM
Lab ID:	2306303A-27D	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062603
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	118
1,1,2,2-Tetrachloroethane	79-34-5	103
1,1,2-Trichloroethane	79-00-5	99
1,1-Dichloroethane	75-34-3	104
1,1-Dichloroethene	75-35-4	92
1,1-Difluoroethane	75-37-6	92
1,2,4-Trichlorobenzene	120-82-1	121
1,2,4-Trimethylbenzene	95-63-6	119
1,2-Dibromoethane (EDB)	106-93-4	103
1,2-Dichlorobenzene	95-50-1	110
1,2-Dichloroethane	107-06-2	115
1,2-Dichloropropane	78-87-5	101
1,3,5-Trimethylbenzene	108-67-8	107
1,3-Butadiene	106-99-0	102
1,3-Dichlorobenzene	541-73-1	109
1,4-Dichlorobenzene	106-46-7	109
1,4-Dioxane	123-91-1	102
2,2,4-Trimethylpentane	540-84-1	111
2-Butanone (Methyl Ethyl Ketone)	78-93-3	98
2-Hexanone	591-78-6	119
2-Propanol	67-63-0	100
3-Chloropropene	107-05-1	92
4-Ethyltoluene	622-96-8	110
4-Methyl-2-pentanone	108-10-1	121

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	CCV	Date/Time Analyzed:	6/26/23 10:24 AM
Lab ID:	2306303A-27D	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062603
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Acetone	67-64-1	93
alpha-Chlorotoluene	100-44-7	123
Benzene	71-43-2	99
Bromodichloromethane	75-27-4	114
Bromoform	75-25-2	116
Bromomethane	74-83-9	89
Carbon Disulfide	75-15-0	96
Carbon Tetrachloride	56-23-5	117
Chlorobenzene	108-90-7	98
Chloroethane	75-00-3	93
Chloroform	67-66-3	108
Chloromethane	74-87-3	92
cis-1,2-Dichloroethene	156-59-2	103
cis-1,3-Dichloropropene	10061-01-5	109
Cumene	98-82-8	110
Cyclohexane	110-82-7	101
Dibromochloromethane	124-48-1	104
Ethanol	64-17-5	100
Ethyl Benzene	100-41-4	103
Freon 11	75-69-4	116
Freon 113	76-13-1	98
Freon 114	76-14-2	94
Freon 12	75-71-8	112
Heptane	142-82-5	99

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	CCV	Date/Time Analyzed:	6/26/23 10:24 AM
Lab ID:	2306303A-27D	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062603
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexachlorobutadiene	87-68-3	138 Q
Hexane	110-54-3	101
m,p-Xylene	108-38-3	104
Methyl tert-butyl ether	1634-04-4	106
Methylene Chloride	75-09-2	110
Naphthalene	91-20-3	110
o-Xylene	95-47-6	104
Propylbenzene	103-65-1	106
Styrene	100-42-5	111
Tetrachloroethene	127-18-4	104
Tetrahydrofuran	109-99-9	105
Toluene	108-88-3	103
TPH ref. to Gasoline (MW=100)	9999-9999-038	100
trans-1,2-Dichloroethene	156-60-5	93
trans-1,3-Dichloropropene	10061-02-6	113
Trichloroethene	79-01-6	102
Vinyl Chloride	75-01-4	93

Q = Exceeds Quality Control limits.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	125
4-Bromofluorobenzene	460-00-4	70-130	125
Toluene-d8	2037-26-5	70-130	104

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	CCV	Date/Time Analyzed:	6/27/23 01:18 PM
Lab ID:	2306303A-27E	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062706
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	113
1,1,2,2-Tetrachloroethane	79-34-5	98
1,1,2-Trichloroethane	79-00-5	95
1,1-Dichloroethane	75-34-3	101
1,1-Dichloroethene	75-35-4	92
1,1-Difluoroethane	75-37-6	94
1,2,4-Trichlorobenzene	120-82-1	116
1,2,4-Trimethylbenzene	95-63-6	112
1,2-Dibromoethane (EDB)	106-93-4	99
1,2-Dichlorobenzene	95-50-1	102
1,2-Dichloroethane	107-06-2	111
1,2-Dichloropropane	78-87-5	95
1,3,5-Trimethylbenzene	108-67-8	102
1,3-Butadiene	106-99-0	99
1,3-Dichlorobenzene	541-73-1	101
1,4-Dichlorobenzene	106-46-7	102
1,4-Dioxane	123-91-1	99
2,2,4-Trimethylpentane	540-84-1	111
2-Butanone (Methyl Ethyl Ketone)	78-93-3	97
2-Hexanone	591-78-6	114
2-Propanol	67-63-0	100
3-Chloropropene	107-05-1	93
4-Ethyltoluene	622-96-8	102
4-Methyl-2-pentanone	108-10-1	117

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	CCV	Date/Time Analyzed:	6/27/23 01:18 PM
Lab ID:	2306303A-27E	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062706
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Acetone	67-64-1	91
alpha-Chlorotoluene	100-44-7	115
Benzene	71-43-2	97
Bromodichloromethane	75-27-4	110
Bromoform	75-25-2	110
Bromomethane	74-83-9	94
Carbon Disulfide	75-15-0	95
Carbon Tetrachloride	56-23-5	116
Chlorobenzene	108-90-7	95
Chloroethane	75-00-3	88
Chloroform	67-66-3	106
Chloromethane	74-87-3	92
cis-1,2-Dichloroethene	156-59-2	97
cis-1,3-Dichloropropene	10061-01-5	108
Cumene	98-82-8	105
Cyclohexane	110-82-7	100
Dibromochloromethane	124-48-1	101
Ethanol	64-17-5	95
Ethyl Benzene	100-41-4	100
Freon 11	75-69-4	114
Freon 113	76-13-1	96
Freon 114	76-14-2	93
Freon 12	75-71-8	109
Heptane	142-82-5	100

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	CCV	Date/Time Analyzed:	6/27/23 01:18 PM
Lab ID:	2306303A-27E	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062706
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexachlorobutadiene	87-68-3	130
Hexane	110-54-3	102
m,p-Xylene	108-38-3	101
Methyl tert-butyl ether	1634-04-4	107
Methylene Chloride	75-09-2	104
Naphthalene	91-20-3	105
o-Xylene	95-47-6	100
Propylbenzene	103-65-1	101
Styrene	100-42-5	106
Tetrachloroethene	127-18-4	99
Tetrahydrofuran	109-99-9	102
Toluene	108-88-3	99
TPH ref. to Gasoline (MW=100)	9999-9999-038	100
trans-1,2-Dichloroethene	156-60-5	96
trans-1,3-Dichloropropene	10061-02-6	110
Trichloroethene	79-01-6	96
Vinyl Chloride	75-01-4	93

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	121
4-Bromofluorobenzene	460-00-4	70-130	124
Toluene-d8	2037-26-5	70-130	104

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCS	Date/Time Analyzed:	6/22/23 01:14 PM
Lab ID:	2306303A-28A	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062204
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	109
1,1,2,2-Tetrachloroethane	79-34-5	97
1,1,2-Trichloroethane	79-00-5	96
1,1-Dichloroethane	75-34-3	104
1,1-Dichloroethene	75-35-4	89
1,1-Difluoroethane	75-37-6	96
1,2,4-Trichlorobenzene	120-82-1	106
1,2,4-Trimethylbenzene	95-63-6	109
1,2-Dibromoethane (EDB)	106-93-4	98
1,2-Dichlorobenzene	95-50-1	99
1,2-Dichloroethane	107-06-2	115
1,2-Dichloropropane	78-87-5	98
1,3,5-Trimethylbenzene	108-67-8	99
1,3-Butadiene	106-99-0	103
1,3-Dichlorobenzene	541-73-1	98
1,4-Dichlorobenzene	106-46-7	98
1,4-Dioxane	123-91-1	97
2,2,4-Trimethylpentane	540-84-1	114
2-Butanone (Methyl Ethyl Ketone)	78-93-3	100
2-Hexanone	591-78-6	106
2-Propanol	67-63-0	106
3-Chloropropene	107-05-1	96
4-Ethyltoluene	622-96-8	99
4-Methyl-2-pentanone	108-10-1	112

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCS	Date/Time Analyzed:	6/22/23 01:14 PM
Lab ID:	2306303A-28A	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/File name:	msdp.i / p062204
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Acetone	67-64-1	96
alpha-Chlorotoluene	100-44-7	110
Benzene	71-43-2	98
Bromodichloromethane	75-27-4	108
Bromoform	75-25-2	104
Bromomethane	74-83-9	104
Carbon Disulfide	75-15-0	100
Carbon Tetrachloride	56-23-5	109
Chlorobenzene	108-90-7	95
Chloroethane	75-00-3	95
Chloroform	67-66-3	105
Chloromethane	74-87-3	97
cis-1,2-Dichloroethene	156-59-2	101
cis-1,3-Dichloropropene	10061-01-5	110
Cumene	98-82-8	103
Cyclohexane	110-82-7	103
Dibromochloromethane	124-48-1	96
Ethanol	64-17-5	121
Ethyl Benzene	100-41-4	101
Freon 11	75-69-4	111
Freon 113	76-13-1	90
Freon 114	76-14-2	92
Freon 12	75-71-8	108
Heptane	142-82-5	102

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCS	Date/Time Analyzed:	6/22/23 01:14 PM
Lab ID:	2306303A-28A	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062204
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexachlorobutadiene	87-68-3	121
Hexane	110-54-3	103
m,p-Xylene	108-38-3	99
Methyl tert-butyl ether	1634-04-4	105
Methylene Chloride	75-09-2	108
Naphthalene	91-20-3	106
o-Xylene	95-47-6	100
Propylbenzene	103-65-1	99
Styrene	100-42-5	103
Tetrachloroethene	127-18-4	98
Tetrahydrofuran	109-99-9	116
Toluene	108-88-3	100
TPH ref. to Gasoline (MW=100)	9999-9999-038	Not Spiked
trans-1,2-Dichloroethene	156-60-5	94
trans-1,3-Dichloropropene	10061-02-6	108
Trichloroethene	79-01-6	101
Vinyl Chloride	75-01-4	96

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	118
4-Bromofluorobenzene	460-00-4	70-130	123
Toluene-d8	2037-26-5	70-130	104

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCSD	Date/Time Analyzed:	6/22/23 01:43 PM
Lab ID:	2306303A-28AA	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062205
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	110
1,1,2,2-Tetrachloroethane	79-34-5	95
1,1,2-Trichloroethane	79-00-5	95
1,1-Dichloroethane	75-34-3	103
1,1-Dichloroethene	75-35-4	91
1,1-Difluoroethane	75-37-6	100
1,2,4-Trichlorobenzene	120-82-1	106
1,2,4-Trimethylbenzene	95-63-6	107
1,2-Dibromoethane (EDB)	106-93-4	97
1,2-Dichlorobenzene	95-50-1	96
1,2-Dichloroethane	107-06-2	111
1,2-Dichloropropane	78-87-5	97
1,3,5-Trimethylbenzene	108-67-8	98
1,3-Butadiene	106-99-0	104
1,3-Dichlorobenzene	541-73-1	96
1,4-Dichlorobenzene	106-46-7	96
1,4-Dioxane	123-91-1	97
2,2,4-Trimethylpentane	540-84-1	117
2-Butanone (Methyl Ethyl Ketone)	78-93-3	99
2-Hexanone	591-78-6	104
2-Propanol	67-63-0	110
3-Chloropropene	107-05-1	100
4-Ethyltoluene	622-96-8	96
4-Methyl-2-pentanone	108-10-1	111

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCSD	Date/Time Analyzed:	6/22/23 01:43 PM
Lab ID:	2306303A-28AA	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/File name:	msdp.i / p062205
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Acetone	67-64-1	98
alpha-Chlorotoluene	100-44-7	107
Benzene	71-43-2	100
Bromodichloromethane	75-27-4	106
Bromoform	75-25-2	102
Bromomethane	74-83-9	107
Carbon Disulfide	75-15-0	102
Carbon Tetrachloride	56-23-5	110
Chlorobenzene	108-90-7	94
Chloroethane	75-00-3	94
Chloroform	67-66-3	107
Chloromethane	74-87-3	99
cis-1,2-Dichloroethene	156-59-2	102
cis-1,3-Dichloropropene	10061-01-5	108
Cumene	98-82-8	102
Cyclohexane	110-82-7	106
Dibromochloromethane	124-48-1	95
Ethanol	64-17-5	122
Ethyl Benzene	100-41-4	100
Freon 11	75-69-4	111
Freon 113	76-13-1	91
Freon 114	76-14-2	94
Freon 12	75-71-8	110
Heptane	142-82-5	103

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCSD	Date/Time Analyzed:	6/22/23 01:43 PM
Lab ID:	2306303A-28AA	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062205
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexachlorobutadiene	87-68-3	122
Hexane	110-54-3	106
m,p-Xylene	108-38-3	97
Methyl tert-butyl ether	1634-04-4	108
Methylene Chloride	75-09-2	110
Naphthalene	91-20-3	109
o-Xylene	95-47-6	99
Propylbenzene	103-65-1	97
Styrene	100-42-5	102
Tetrachloroethene	127-18-4	97
Tetrahydrofuran	109-99-9	117
Toluene	108-88-3	98
TPH ref. to Gasoline (MW=100)	9999-9999-038	Not Spiked
trans-1,2-Dichloroethene	156-60-5	98
trans-1,3-Dichloropropene	10061-02-6	108
Trichloroethene	79-01-6	100
Vinyl Chloride	75-01-4	98

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	120
4-Bromofluorobenzene	460-00-4	70-130	124
Toluene-d8	2037-26-5	70-130	103

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS
Pacific Highway Auto Care (PHAC)

Client ID:	LCS	Date/Time Analyzed:	6/23/23 02:46 PM
Lab ID:	2306303A-28B	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msd14.i / 14062303
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	105
1,1,2,2-Tetrachloroethane	79-34-5	88
1,1,2-Trichloroethane	79-00-5	93
1,1-Dichloroethane	75-34-3	97
1,1-Dichloroethene	75-35-4	99
1,1-Difluoroethane	75-37-6	98
1,2,4-Trichlorobenzene	120-82-1	100
1,2,4-Trimethylbenzene	95-63-6	90
1,2-Dibromoethane (EDB)	106-93-4	89
1,2-Dichlorobenzene	95-50-1	94
1,2-Dichloroethane	107-06-2	105
1,2-Dichloropropane	78-87-5	93
1,3,5-Trimethylbenzene	108-67-8	94
1,3-Butadiene	106-99-0	90
1,3-Dichlorobenzene	541-73-1	86
1,4-Dichlorobenzene	106-46-7	86
1,4-Dioxane	123-91-1	93
2,2,4-Trimethylpentane	540-84-1	92
2-Butanone (Methyl Ethyl Ketone)	78-93-3	90
2-Hexanone	591-78-6	90
2-Propanol	67-63-0	100
3-Chloropropene	107-05-1	89
4-Ethyltoluene	622-96-8	86
4-Methyl-2-pentanone	108-10-1	91

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS
Pacific Highway Auto Care (PHAC)

Client ID:	LCS	Date/Time Analyzed:	6/23/23 02:46 PM
Lab ID:	2306303A-28B	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msd14.i / 14062303
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Acetone	67-64-1	96
alpha-Chlorotoluene	100-44-7	99
Benzene	71-43-2	94
Bromodichloromethane	75-27-4	98
Bromoform	75-25-2	84
Bromomethane	74-83-9	120
Carbon Disulfide	75-15-0	97
Carbon Tetrachloride	56-23-5	102
Chlorobenzene	108-90-7	86
Chloroethane	75-00-3	89
Chloroform	67-66-3	102
Chloromethane	74-87-3	85
cis-1,2-Dichloroethene	156-59-2	96
cis-1,3-Dichloropropene	10061-01-5	92
Cumene	98-82-8	85
Cyclohexane	110-82-7	96
Dibromochloromethane	124-48-1	89
Ethanol	64-17-5	86
Ethyl Benzene	100-41-4	86
Freon 11	75-69-4	112
Freon 113	76-13-1	96
Freon 114	76-14-2	97
Freon 12	75-71-8	99
Heptane	142-82-5	94

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS
Pacific Highway Auto Care (PHAC)

Client ID:	LCS	Date/Time Analyzed:	6/23/23 02:46 PM
Lab ID:	2306303A-28B	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msd14.i / 14062303
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexachlorobutadiene	87-68-3	99
Hexane	110-54-3	93
m,p-Xylene	108-38-3	83
Methyl tert-butyl ether	1634-04-4	93
Methylene Chloride	75-09-2	99
Naphthalene	91-20-3	126
o-Xylene	95-47-6	85
Propylbenzene	103-65-1	83
Styrene	100-42-5	87
Tetrachloroethene	127-18-4	89
Tetrahydrofuran	109-99-9	101
Toluene	108-88-3	88
TPH ref. to Gasoline (MW=100)	9999-9999-038	Not Spiked
trans-1,2-Dichloroethene	156-60-5	94
trans-1,3-Dichloropropene	10061-02-6	97
Trichloroethene	79-01-6	94
Vinyl Chloride	75-01-4	101

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	116
4-Bromofluorobenzene	460-00-4	70-130	102
Toluene-d8	2037-26-5	70-130	100

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS
Pacific Highway Auto Care (PHAC)

Client ID:	LCSD	Date/Time Analyzed:	6/23/23 03:11 PM
Lab ID:	2306303A-28BB	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msd14.i / 14062304
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	103
1,1,2,2-Tetrachloroethane	79-34-5	87
1,1,2-Trichloroethane	79-00-5	92
1,1-Dichloroethane	75-34-3	97
1,1-Dichloroethene	75-35-4	97
1,1-Difluoroethane	75-37-6	103
1,2,4-Trichlorobenzene	120-82-1	109
1,2,4-Trimethylbenzene	95-63-6	94
1,2-Dibromoethane (EDB)	106-93-4	91
1,2-Dichlorobenzene	95-50-1	95
1,2-Dichloroethane	107-06-2	102
1,2-Dichloropropane	78-87-5	92
1,3,5-Trimethylbenzene	108-67-8	93
1,3-Butadiene	106-99-0	87
1,3-Dichlorobenzene	541-73-1	88
1,4-Dichlorobenzene	106-46-7	88
1,4-Dioxane	123-91-1	92
2,2,4-Trimethylpentane	540-84-1	91
2-Butanone (Methyl Ethyl Ketone)	78-93-3	96
2-Hexanone	591-78-6	94
2-Propanol	67-63-0	99
3-Chloropropene	107-05-1	98
4-Ethyltoluene	622-96-8	87
4-Methyl-2-pentanone	108-10-1	93

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS
Pacific Highway Auto Care (PHAC)

Client ID:	LCSD	Date/Time Analyzed:	6/23/23 03:11 PM
Lab ID:	2306303A-28BB	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msd14.i / 14062304
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Acetone	67-64-1	98
alpha-Chlorotoluene	100-44-7	100
Benzene	71-43-2	92
Bromodichloromethane	75-27-4	96
Bromoform	75-25-2	84
Bromomethane	74-83-9	117
Carbon Disulfide	75-15-0	96
Carbon Tetrachloride	56-23-5	101
Chlorobenzene	108-90-7	87
Chloroethane	75-00-3	91
Chloroform	67-66-3	100
Chloromethane	74-87-3	92
cis-1,2-Dichloroethene	156-59-2	98
cis-1,3-Dichloropropene	10061-01-5	93
Cumene	98-82-8	85
Cyclohexane	110-82-7	94
Dibromochloromethane	124-48-1	90
Ethanol	64-17-5	102
Ethyl Benzene	100-41-4	84
Freon 11	75-69-4	112
Freon 113	76-13-1	94
Freon 114	76-14-2	97
Freon 12	75-71-8	107
Heptane	142-82-5	91

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS
Pacific Highway Auto Care (PHAC)

Client ID:	LCSD	Date/Time Analyzed:	6/23/23 03:11 PM
Lab ID:	2306303A-28BB	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msd14.i / 14062304
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexachlorobutadiene	87-68-3	100
Hexane	110-54-3	92
m,p-Xylene	108-38-3	84
Methyl tert-butyl ether	1634-04-4	111
Methylene Chloride	75-09-2	98
Naphthalene	91-20-3	140
o-Xylene	95-47-6	86
Propylbenzene	103-65-1	83
Styrene	100-42-5	88
Tetrachloroethene	127-18-4	89
Tetrahydrofuran	109-99-9	102
Toluene	108-88-3	86
TPH ref. to Gasoline (MW=100)	9999-9999-038	Not Spiked
trans-1,2-Dichloroethene	156-60-5	94
trans-1,3-Dichloropropene	10061-02-6	102
Trichloroethene	79-01-6	94
Vinyl Chloride	75-01-4	102

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	116
4-Bromofluorobenzene	460-00-4	70-130	104
Toluene-d8	2037-26-5	70-130	100

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCS	Date/Time Analyzed:	6/23/23 01:51 PM
Lab ID:	2306303A-28C	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/File name:	msdp.i / p062308
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	115
1,1,2,2-Tetrachloroethane	79-34-5	95
1,1,2-Trichloroethane	79-00-5	94
1,1-Dichloroethane	75-34-3	106
1,1-Dichloroethene	75-35-4	91
1,1-Difluoroethane	75-37-6	99
1,2,4-Trichlorobenzene	120-82-1	110
1,2,4-Trimethylbenzene	95-63-6	109
1,2-Dibromoethane (EDB)	106-93-4	97
1,2-Dichlorobenzene	95-50-1	97
1,2-Dichloroethane	107-06-2	114
1,2-Dichloropropane	78-87-5	96
1,3,5-Trimethylbenzene	108-67-8	97
1,3-Butadiene	106-99-0	106
1,3-Dichlorobenzene	541-73-1	98
1,4-Dichlorobenzene	106-46-7	98
1,4-Dioxane	123-91-1	94
2,2,4-Trimethylpentane	540-84-1	114
2-Butanone (Methyl Ethyl Ketone)	78-93-3	101
2-Hexanone	591-78-6	105
2-Propanol	67-63-0	110
3-Chloropropene	107-05-1	95
4-Ethyltoluene	622-96-8	98
4-Methyl-2-pentanone	108-10-1	108

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCS	Date/Time Analyzed:	6/23/23 01:51 PM
Lab ID:	2306303A-28C	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062308
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Acetone	67-64-1	98
alpha-Chlorotoluene	100-44-7	109
Benzene	71-43-2	97
Bromodichloromethane	75-27-4	108
Bromoform	75-25-2	105
Bromomethane	74-83-9	108
Carbon Disulfide	75-15-0	102
Carbon Tetrachloride	56-23-5	114
Chlorobenzene	108-90-7	94
Chloroethane	75-00-3	95
Chloroform	67-66-3	109
Chloromethane	74-87-3	98
cis-1,2-Dichloroethene	156-59-2	104
cis-1,3-Dichloropropene	10061-01-5	105
Cumene	98-82-8	102
Cyclohexane	110-82-7	105
Dibromochloromethane	124-48-1	96
Ethanol	64-17-5	116
Ethyl Benzene	100-41-4	98
Freon 11	75-69-4	116
Freon 113	76-13-1	94
Freon 114	76-14-2	97
Freon 12	75-71-8	112
Heptane	142-82-5	97

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCS	Date/Time Analyzed:	6/23/23 01:51 PM
Lab ID:	2306303A-28C	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062308
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexachlorobutadiene	87-68-3	126
Hexane	110-54-3	105
m,p-Xylene	108-38-3	98
Methyl tert-butyl ether	1634-04-4	108
Methylene Chloride	75-09-2	111
Naphthalene	91-20-3	109
o-Xylene	95-47-6	98
Propylbenzene	103-65-1	98
Styrene	100-42-5	102
Tetrachloroethene	127-18-4	97
Tetrahydrofuran	109-99-9	116
Toluene	108-88-3	97
TPH ref. to Gasoline (MW=100)	9999-9999-038	Not Spiked
trans-1,2-Dichloroethene	156-60-5	97
trans-1,3-Dichloropropene	10061-02-6	107
Trichloroethene	79-01-6	100
Vinyl Chloride	75-01-4	98

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	126
4-Bromofluorobenzene	460-00-4	70-130	125
Toluene-d8	2037-26-5	70-130	102

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCSD	Date/Time Analyzed:	6/23/23 02:21 PM
Lab ID:	2306303A-28CC	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062309
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	111
1,1,2,2-Tetrachloroethane	79-34-5	97
1,1,2-Trichloroethane	79-00-5	95
1,1-Dichloroethane	75-34-3	104
1,1-Dichloroethene	75-35-4	90
1,1-Difluoroethane	75-37-6	98
1,2,4-Trichlorobenzene	120-82-1	111
1,2,4-Trimethylbenzene	95-63-6	110
1,2-Dibromoethane (EDB)	106-93-4	100
1,2-Dichlorobenzene	95-50-1	100
1,2-Dichloroethane	107-06-2	112
1,2-Dichloropropane	78-87-5	94
1,3,5-Trimethylbenzene	108-67-8	99
1,3-Butadiene	106-99-0	102
1,3-Dichlorobenzene	541-73-1	99
1,4-Dichlorobenzene	106-46-7	99
1,4-Dioxane	123-91-1	95
2,2,4-Trimethylpentane	540-84-1	113
2-Butanone (Methyl Ethyl Ketone)	78-93-3	98
2-Hexanone	591-78-6	105
2-Propanol	67-63-0	107
3-Chloropropene	107-05-1	98
4-Ethyltoluene	622-96-8	100
4-Methyl-2-pentanone	108-10-1	110

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCSD	Date/Time Analyzed:	6/23/23 02:21 PM
Lab ID:	2306303A-28CC	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/File name:	msdp.i / p062309
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Acetone	67-64-1	99
alpha-Chlorotoluene	100-44-7	111
Benzene	71-43-2	96
Bromodichloromethane	75-27-4	107
Bromoform	75-25-2	105
Bromomethane	74-83-9	104
Carbon Disulfide	75-15-0	101
Carbon Tetrachloride	56-23-5	110
Chlorobenzene	108-90-7	96
Chloroethane	75-00-3	94
Chloroform	67-66-3	106
Chloromethane	74-87-3	94
cis-1,2-Dichloroethene	156-59-2	103
cis-1,3-Dichloropropene	10061-01-5	105
Cumene	98-82-8	104
Cyclohexane	110-82-7	103
Dibromochloromethane	124-48-1	98
Ethanol	64-17-5	116
Ethyl Benzene	100-41-4	101
Freon 11	75-69-4	113
Freon 113	76-13-1	91
Freon 114	76-14-2	93
Freon 12	75-71-8	109
Heptane	142-82-5	99

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCSD	Date/Time Analyzed:	6/23/23 02:21 PM
Lab ID:	2306303A-28CC	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062309
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexachlorobutadiene	87-68-3	128
Hexane	110-54-3	102
m,p-Xylene	108-38-3	100
Methyl tert-butyl ether	1634-04-4	106
Methylene Chloride	75-09-2	108
Naphthalene	91-20-3	110
o-Xylene	95-47-6	102
Propylbenzene	103-65-1	99
Styrene	100-42-5	103
Tetrachloroethene	127-18-4	100
Tetrahydrofuran	109-99-9	115
Toluene	108-88-3	96
TPH ref. to Gasoline (MW=100)	9999-9999-038	Not Spiked
trans-1,2-Dichloroethene	156-60-5	96
trans-1,3-Dichloropropene	10061-02-6	108
Trichloroethene	79-01-6	99
Vinyl Chloride	75-01-4	97

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	119
4-Bromofluorobenzene	460-00-4	70-130	125
Toluene-d8	2037-26-5	70-130	101

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCS	Date/Time Analyzed:	6/26/23 11:15 AM
Lab ID:	2306303A-28D	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062604
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	118
1,1,2,2-Tetrachloroethane	79-34-5	97
1,1,2-Trichloroethane	79-00-5	96
1,1-Dichloroethane	75-34-3	108
1,1-Dichloroethene	75-35-4	94
1,1-Difluoroethane	75-37-6	98
1,2,4-Trichlorobenzene	120-82-1	109
1,2,4-Trimethylbenzene	95-63-6	110
1,2-Dibromoethane (EDB)	106-93-4	101
1,2-Dichlorobenzene	95-50-1	100
1,2-Dichloroethane	107-06-2	113
1,2-Dichloropropane	78-87-5	95
1,3,5-Trimethylbenzene	108-67-8	101
1,3-Butadiene	106-99-0	107
1,3-Dichlorobenzene	541-73-1	100
1,4-Dichlorobenzene	106-46-7	101
1,4-Dioxane	123-91-1	94
2,2,4-Trimethylpentane	540-84-1	117
2-Butanone (Methyl Ethyl Ketone)	78-93-3	103
2-Hexanone	591-78-6	107
2-Propanol	67-63-0	109
3-Chloropropene	107-05-1	100
4-Ethyltoluene	622-96-8	100
4-Methyl-2-pentanone	108-10-1	106

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCS	Date/Time Analyzed:	6/26/23 11:15 AM
Lab ID:	2306303A-28D	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/File name:	msdp.i / p062604
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Acetone	67-64-1	101
alpha-Chlorotoluene	100-44-7	111
Benzene	71-43-2	97
Bromodichloromethane	75-27-4	108
Bromoform	75-25-2	108
Bromomethane	74-83-9	107
Carbon Disulfide	75-15-0	106
Carbon Tetrachloride	56-23-5	117
Chlorobenzene	108-90-7	97
Chloroethane	75-00-3	97
Chloroform	67-66-3	111
Chloromethane	74-87-3	98
cis-1,2-Dichloroethene	156-59-2	106
cis-1,3-Dichloropropene	10061-01-5	105
Cumene	98-82-8	106
Cyclohexane	110-82-7	107
Dibromochloromethane	124-48-1	101
Ethanol	64-17-5	115
Ethyl Benzene	100-41-4	101
Freon 11	75-69-4	117
Freon 113	76-13-1	96
Freon 114	76-14-2	99
Freon 12	75-71-8	115
Heptane	142-82-5	98

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCS	Date/Time Analyzed:	6/26/23 11:15 AM
Lab ID:	2306303A-28D	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062604
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexachlorobutadiene	87-68-3	128
Hexane	110-54-3	106
m,p-Xylene	108-38-3	101
Methyl tert-butyl ether	1634-04-4	110
Methylene Chloride	75-09-2	112
Naphthalene	91-20-3	104
o-Xylene	95-47-6	101
Propylbenzene	103-65-1	100
Styrene	100-42-5	104
Tetrachloroethene	127-18-4	102
Tetrahydrofuran	109-99-9	118
Toluene	108-88-3	97
TPH ref. to Gasoline (MW=100)	9999-9999-038	Not Spiked
trans-1,2-Dichloroethene	156-60-5	99
trans-1,3-Dichloropropene	10061-02-6	111
Trichloroethene	79-01-6	102
Vinyl Chloride	75-01-4	102

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	123
4-Bromofluorobenzene	460-00-4	70-130	122
Toluene-d8	2037-26-5	70-130	102

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCSD	Date/Time Analyzed:	6/26/23 11:45 AM
Lab ID:	2306303A-28DD	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062605
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	113
1,1,2,2-Tetrachloroethane	79-34-5	97
1,1,2-Trichloroethane	79-00-5	96
1,1-Dichloroethane	75-34-3	105
1,1-Dichloroethene	75-35-4	92
1,1-Difluoroethane	75-37-6	96
1,2,4-Trichlorobenzene	120-82-1	110
1,2,4-Trimethylbenzene	95-63-6	110
1,2-Dibromoethane (EDB)	106-93-4	100
1,2-Dichlorobenzene	95-50-1	99
1,2-Dichloroethane	107-06-2	112
1,2-Dichloropropane	78-87-5	94
1,3,5-Trimethylbenzene	108-67-8	98
1,3-Butadiene	106-99-0	104
1,3-Dichlorobenzene	541-73-1	98
1,4-Dichlorobenzene	106-46-7	99
1,4-Dioxane	123-91-1	95
2,2,4-Trimethylpentane	540-84-1	114
2-Butanone (Methyl Ethyl Ketone)	78-93-3	102
2-Hexanone	591-78-6	105
2-Propanol	67-63-0	105
3-Chloropropene	107-05-1	95
4-Ethyltoluene	622-96-8	99
4-Methyl-2-pentanone	108-10-1	108

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCSD	Date/Time Analyzed:	6/26/23 11:45 AM
Lab ID:	2306303A-28DD	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062605
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Acetone	67-64-1	98
alpha-Chlorotoluene	100-44-7	108
Benzene	71-43-2	99
Bromodichloromethane	75-27-4	107
Bromoform	75-25-2	106
Bromomethane	74-83-9	106
Carbon Disulfide	75-15-0	103
Carbon Tetrachloride	56-23-5	112
Chlorobenzene	108-90-7	96
Chloroethane	75-00-3	96
Chloroform	67-66-3	106
Chloromethane	74-87-3	96
cis-1,2-Dichloroethene	156-59-2	104
cis-1,3-Dichloropropene	10061-01-5	106
Cumene	98-82-8	104
Cyclohexane	110-82-7	104
Dibromochloromethane	124-48-1	99
Ethanol	64-17-5	117
Ethyl Benzene	100-41-4	102
Freon 11	75-69-4	114
Freon 113	76-13-1	94
Freon 114	76-14-2	95
Freon 12	75-71-8	110
Heptane	142-82-5	99

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCSD	Date/Time Analyzed:	6/26/23 11:45 AM
Lab ID:	2306303A-28DD	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062605
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexachlorobutadiene	87-68-3	126
Hexane	110-54-3	104
m,p-Xylene	108-38-3	100
Methyl tert-butyl ether	1634-04-4	108
Methylene Chloride	75-09-2	107
Naphthalene	91-20-3	107
o-Xylene	95-47-6	100
Propylbenzene	103-65-1	99
Styrene	100-42-5	104
Tetrachloroethene	127-18-4	101
Tetrahydrofuran	109-99-9	115
Toluene	108-88-3	98
TPH ref. to Gasoline (MW=100)	9999-9999-038	Not Spiked
trans-1,2-Dichloroethene	156-60-5	96
trans-1,3-Dichloropropene	10061-02-6	110
Trichloroethene	79-01-6	101
Vinyl Chloride	75-01-4	99

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	121
4-Bromofluorobenzene	460-00-4	70-130	120
Toluene-d8	2037-26-5	70-130	101

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCS	Date/Time Analyzed:	6/27/23 12:03 PM
Lab ID:	2306303A-28E	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062704
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	117
1,1,2,2-Tetrachloroethane	79-34-5	96
1,1,2-Trichloroethane	79-00-5	96
1,1-Dichloroethane	75-34-3	104
1,1-Dichloroethene	75-35-4	89
1,1-Difluoroethane	75-37-6	95
1,2,4-Trichlorobenzene	120-82-1	114
1,2,4-Trimethylbenzene	95-63-6	113
1,2-Dibromoethane (EDB)	106-93-4	101
1,2-Dichlorobenzene	95-50-1	103
1,2-Dichloroethane	107-06-2	118
1,2-Dichloropropane	78-87-5	95
1,3,5-Trimethylbenzene	108-67-8	102
1,3-Butadiene	106-99-0	103
1,3-Dichlorobenzene	541-73-1	102
1,4-Dichlorobenzene	106-46-7	103
1,4-Dioxane	123-91-1	96
2,2,4-Trimethylpentane	540-84-1	113
2-Butanone (Methyl Ethyl Ketone)	78-93-3	98
2-Hexanone	591-78-6	103
2-Propanol	67-63-0	105
3-Chloropropene	107-05-1	94
4-Ethyltoluene	622-96-8	101
4-Methyl-2-pentanone	108-10-1	109

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCS	Date/Time Analyzed:	6/27/23 12:03 PM
Lab ID:	2306303A-28E	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/File name:	msdp.i / p062704
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Acetone	67-64-1	98
alpha-Chlorotoluene	100-44-7	112
Benzene	71-43-2	96
Bromodichloromethane	75-27-4	112
Bromoform	75-25-2	110
Bromomethane	74-83-9	106
Carbon Disulfide	75-15-0	100
Carbon Tetrachloride	56-23-5	119
Chlorobenzene	108-90-7	95
Chloroethane	75-00-3	93
Chloroform	67-66-3	110
Chloromethane	74-87-3	97
cis-1,2-Dichloroethene	156-59-2	102
cis-1,3-Dichloropropene	10061-01-5	105
Cumene	98-82-8	106
Cyclohexane	110-82-7	103
Dibromochloromethane	124-48-1	102
Ethanol	64-17-5	116
Ethyl Benzene	100-41-4	101
Freon 11	75-69-4	121
Freon 113	76-13-1	96
Freon 114	76-14-2	98
Freon 12	75-71-8	115
Heptane	142-82-5	96

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCS	Date/Time Analyzed:	6/27/23 12:03 PM
Lab ID:	2306303A-28E	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062704
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexachlorobutadiene	87-68-3	134 Q
Hexane	110-54-3	102
m,p-Xylene	108-38-3	101
Methyl tert-butyl ether	1634-04-4	106
Methylene Chloride	75-09-2	109
Naphthalene	91-20-3	107
o-Xylene	95-47-6	100
Propylbenzene	103-65-1	101
Styrene	100-42-5	104
Tetrachloroethene	127-18-4	103
Tetrahydrofuran	109-99-9	113
Toluene	108-88-3	98
TPH ref. to Gasoline (MW=100)	9999-9999-038	Not Spiked
trans-1,2-Dichloroethene	156-60-5	95
trans-1,3-Dichloropropene	10061-02-6	109
Trichloroethene	79-01-6	103
Vinyl Chloride	75-01-4	95

Q = Exceeds Quality Control limits.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	129
4-Bromofluorobenzene	460-00-4	70-130	129
Toluene-d8	2037-26-5	70-130	102

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCSD	Date/Time Analyzed:	6/27/23 12:49 PM
Lab ID:	2306303A-28EE	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062705
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	116
1,1,2,2-Tetrachloroethane	79-34-5	93
1,1,2-Trichloroethane	79-00-5	92
1,1-Dichloroethane	75-34-3	105
1,1-Dichloroethene	75-35-4	90
1,1-Difluoroethane	75-37-6	96
1,2,4-Trichlorobenzene	120-82-1	110
1,2,4-Trimethylbenzene	95-63-6	109
1,2-Dibromoethane (EDB)	106-93-4	98
1,2-Dichlorobenzene	95-50-1	99
1,2-Dichloroethane	107-06-2	115
1,2-Dichloropropane	78-87-5	93
1,3,5-Trimethylbenzene	108-67-8	99
1,3-Butadiene	106-99-0	104
1,3-Dichlorobenzene	541-73-1	97
1,4-Dichlorobenzene	106-46-7	99
1,4-Dioxane	123-91-1	91
2,2,4-Trimethylpentane	540-84-1	113
2-Butanone (Methyl Ethyl Ketone)	78-93-3	101
2-Hexanone	591-78-6	101
2-Propanol	67-63-0	105
3-Chloropropene	107-05-1	97
4-Ethyltoluene	622-96-8	96
4-Methyl-2-pentanone	108-10-1	105

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCSD	Date/Time Analyzed:	6/27/23 12:49 PM
Lab ID:	2306303A-28EE	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062705
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Acetone	67-64-1	97
alpha-Chlorotoluene	100-44-7	108
Benzene	71-43-2	96
Bromodichloromethane	75-27-4	108
Bromoform	75-25-2	106
Bromomethane	74-83-9	105
Carbon Disulfide	75-15-0	101
Carbon Tetrachloride	56-23-5	115
Chlorobenzene	108-90-7	94
Chloroethane	75-00-3	93
Chloroform	67-66-3	109
Chloromethane	74-87-3	95
cis-1,2-Dichloroethene	156-59-2	102
cis-1,3-Dichloropropene	10061-01-5	105
Cumene	98-82-8	103
Cyclohexane	110-82-7	104
Dibromochloromethane	124-48-1	97
Ethanol	64-17-5	120
Ethyl Benzene	100-41-4	98
Freon 11	75-69-4	119
Freon 113	76-13-1	94
Freon 114	76-14-2	96
Freon 12	75-71-8	115
Heptane	142-82-5	97

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Pacific Highway Auto Care (PHAC)

Client ID:	LCSD	Date/Time Analyzed:	6/27/23 12:49 PM
Lab ID:	2306303A-28EE	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdp.i / p062705
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexachlorobutadiene	87-68-3	130
Hexane	110-54-3	104
m,p-Xylene	108-38-3	99
Methyl tert-butyl ether	1634-04-4	108
Methylene Chloride	75-09-2	108
Naphthalene	91-20-3	106
o-Xylene	95-47-6	99
Propylbenzene	103-65-1	97
Styrene	100-42-5	102
Tetrachloroethene	127-18-4	101
Tetrahydrofuran	109-99-9	112
Toluene	108-88-3	96
TPH ref. to Gasoline (MW=100)	9999-9999-038	Not Spiked
trans-1,2-Dichloroethene	156-60-5	97
trans-1,3-Dichloropropene	10061-02-6	108
Trichloroethene	79-01-6	101
Vinyl Chloride	75-01-4	96

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	126
4-Bromofluorobenzene	460-00-4	70-130	126
Toluene-d8	2037-26-5	70-130	102

* % Recovery is calculated using unrounded analytical results.



Air Toxics

Analysis Request /Canister Chain of Custody

For Laboratory Use Only

PID: _____

Workorder #: _____

2306303

180 Blue Ravine Rd. Suite B, Folsom, CA 95630

Phone (800) 985-5955; Fax (916) 351-8279

page 1 of 2

Client: <u>Advancedco, INC</u>				Special Instructions/Notes:				Turnaround Time (Rush surcharges may apply)															
Project Name: <u>Pacific Highway Auto Care (PHAC)</u>								Standard ☒ Rush _____ (specify)															
Project Manager: <u>Brian Millman</u> Project # _____								Canister Vacuum/Pressure				Requested Analyses											
Sampler: <u>KL</u>								Lab Use Only				TPH-6 TO-15 CH4 VOCs DR, CO2 LIDFA											
Site Name: _____								Initial (in Hg)				Final (in Hg)				Receipt				Final (psig) Gas: N ₂ / He			
Lab ID	Field Sample Identification(Location)	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N ₂ / He	TPH-6	TO-15	CH4	VOCs	DR, CO2	LIDFA						
				Date	Time	Date	Time																
01A	SV1-2	1L4150	23479	6/12/23	1158	---	1204	27	4			X	X	X	X								
02A	SV1-5	1L2910	25229	6/12/23	1212	---	1220	28	4														
03A	SV2-2	1L4062	23547	6/12/23	1239	---	1246	26	4														
04A	SV2-5	1L3466	25261	6/12/23	1257	---	1304	27	4														
05A	SV3-2	1L4222	23370	6/13/23	1015	---	1022	26.5	4														
06A	SV3-5	1L3424	24082	6/13/23	1030	---	1037	29	4														
07A	SV4-2	1L3832	23345	6/13/23	1100	---	1107	26	4														
08A	SV4-5	1L4272	24699	6/13/23	1125	---	1132	26.5	4														
09A	SV5-2	1L4524	23429	6/13/23	0722	---	0730	27	4														
10A	SV5-5	1L2795	25216	6/13/23	0743	---	0750	28	4														
11A	SV6-2	1L2059	24039	6/13/23	0845	---	0852	27	4														
12A	SV6-5	1L3187	25311	6/13/23	0900	---	0907	26	4														
13A	SV7-2	1L2368	24687	6/13/23	0920	---	0928	27	4														
14A	SV7-5	1L2111	23774	6/13/23	0940	---	0947	26.5	4														
15A	SV8-2	1L4310	24314	6/13/23	0804	---	0812	29	4														
16A	SV8-5	35660	25269	6/13/23	0820	---	0827	28	4														
Relinquished by: (Signature/Affiliation)				Date		Time		Received by: (Signature/Affiliation)				Date		Time									
<u>[Signature]</u>				6/13/23		1500		<u>K. Mitchell</u> EATL				6/14/23		0957									
Relinquished by: (Signature/Affiliation)				Date		Time		Received by: (Signature/Affiliation)				Date		Time									
Relinquished by: (Signature/Affiliation)				Date		Time		Received by: (Signature/Affiliation)				Date		Time									
Lab Use Only																							
Shipper Name: <u>UPS</u>				Custody Seals Intact?				Yes No <u>None</u>															
Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T Hotline (800) 467-4922																							



Air Toxics

Analysis Request /Canister Chain of Custody

For Laboratory Use Only

PID: _____ Workorder #: 2306303

180 Blue Ravine Rd. Suite B, Folsom, CA 95630

Phone (800) 985-5955; Fax (916) 351-8279

22
page-of

Client: <u>Advanced Geo, INC</u>				Special Instructions/Notes:				Turnaround Time (Rush surcharges may apply)							
Project Name: <u>Pacific Highway Auto Care (PHAC)</u>								Standard _____ Rush _____ (specify)							
Project Manager: <u>Brian Millman</u> Project # _____								Canister Vacuum/Pressure		Requested Analyses					
Sampler: <u>ILL</u>								Lab Use Only							
Site Name: _____															
Lab ID	Field Sample Identification(Location)	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N ₂ / He	TPH-6	VOCs	OR, CO ₂ , CH ₄	L, IDEFA
				Date	Time	Date	Time								
17A	SV9-2	1L436	23531	6/12/23	1435	---	1442	28	4			X	X	X	X
18A	SV9-5	1L2720	25256	6/12/23	1452	---	1459	28	4						
19A	SV10-2	1L4364	23331	6/12/23	1359	---	1406	27	4						
20A	SV10-5	1L3482	23247	6/12/23	1415	---	1422	27	4						
21A	SV11-2	1L4125	24065	6/12/23	1330	---	1337	28.5	4						
22A	SV11-5	1L4075	23727	6/12/23	1345	---	1353	28.5	4						
23A	SV12-2	1L1908	23594	6/13/23	1300	---	1308	29	4						
24A	SS1	1L3929	23230	6/13/23	1230	---	1237	26	4						
25A	SS2	5LC041	23744	6/13/23	1205	---	1212	23	4						
Relinquished by: (Signature/Affiliation) <u>[Signature]</u>				Date: <u>6/13/23</u>		Time: <u>1500</u>		Received by: (Signature/Affiliation) <u>[Signature]</u>				Date: <u>6/14/23</u>		Time: <u>0957</u>	
Relinquished by: (Signature/Affiliation)				Date		Time		Received by: (Signature/Affiliation)				Date		Time	
Relinquished by: (Signature/Affiliation)				Date		Time		Received by: (Signature/Affiliation)				Date		Time	
Lab Use Only															
Shipper Name: <u>UPS</u>		Custody Seals Intact?		Yes		No		<u>None</u>							
Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922															

6/21/2023

Mr. Brian Millman
AdvancedGeo, Inc
837 Shaw Road

Stockton CA 95215

Project Name: Pacific Highway Auto Care (PHAC)

Project #:

Workorder #: 2306303B

Dear Mr. Brian Millman

The following report includes the data for the above referenced project for sample(s) received on 6/14/2023 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Monica Tran at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Monica Tran
Project Manager

WORK ORDER #: 2306303B

Work Order Summary

CLIENT: Mr. Brian Millman
AdvancedGeo, Inc
837 Shaw Road
Stockton, CA 95215

BILL TO: Mr. Brian Millman
AdvancedGeo, Inc
837 Shaw Road
Stockton, CA 95215

PHONE: 209-467-1006

P.O. # 21.6410

FAX: 209-467-1118

PROJECT # Pacific Highway Auto Care (PHAC)

DATE RECEIVED: 06/14/2023

CONTACT: Monica Tran

DATE COMPLETED: 06/21/2023

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	SV1-2	Modified ASTM D-1946	7.3 "Hg	9.8 psi
02A	SV1-5	Modified ASTM D-1946	7.1 "Hg	10.2 psi
03A	SV2-2	Modified ASTM D-1946	6.9 "Hg	9.7 psi
04A	SV2-5	Modified ASTM D-1946	6.9 "Hg	10.2 psi
05A	SV3-2	Modified ASTM D-1946	4.5 "Hg	9.7 psi
06A	SV3-5	Modified ASTM D-1946	4.7 "Hg	9.6 psi
07A	SV4-2	Modified ASTM D-1946	5.3 "Hg	10.1 psi
08A	SV4-5	Modified ASTM D-1946	4.9 "Hg	9.8 psi
09A	SV5-2	Modified ASTM D-1946	3.9 "Hg	9.6 psi
10A	SV5-5	Modified ASTM D-1946	3.5 "Hg	9.9 psi
11A	SV6-2	Modified ASTM D-1946	3.9 "Hg	9.9 psi
12A	SV6-5	Modified ASTM D-1946	3.3 "Hg	9.7 psi
13A	SV7-2	Modified ASTM D-1946	4.5 "Hg	10 psi
14A	SV7-5	Modified ASTM D-1946	3.3 "Hg	9.8 psi
15A	SV8-2	Modified ASTM D-1946	3.3 "Hg	10.1 psi
16A	SV8-5	Modified ASTM D-1946	4.5 "Hg	9.6 psi
17A	SV9-2	Modified ASTM D-1946	4.5 "Hg	10.3 psi
18A	SV9-5	Modified ASTM D-1946	4.9 "Hg	9.8 psi
19A	SV10-2	Modified ASTM D-1946	5.9 "Hg	10 psi
20A	SV10-5	Modified ASTM D-1946	7.8 "Hg	9.7 psi
21A	SV11-2	Modified ASTM D-1946	4.9 "Hg	10 psi
22A	SV11-5	Modified ASTM D-1946	4.5 "Hg	10.1 psi
23A	SV12-2	Modified ASTM D-1946	5.9 "Hg	10.3 psi

Continued on next page

WORK ORDER #: 2306303B

Work Order Summary

CLIENT: Mr. Brian Millman
AdvancedGeo, Inc
837 Shaw Road
Stockton, CA 95215

BILL TO: Mr. Brian Millman
AdvancedGeo, Inc
837 Shaw Road
Stockton, CA 95215

PHONE: 209-467-1006

P.O. # 21.6410

FAX: 209-467-1118

PROJECT # Pacific Highway Auto Care (PHAC)

DATE RECEIVED: 06/14/2023

CONTACT: Monica Tran

DATE COMPLETED: 06/21/2023

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
24A	SS1	Modified ASTM D-1946	4.1 "Hg	9.9 psi
25A	SS2	Modified ASTM D-1946	8.4 "Hg	9.9 psi
26A	Lab Blank	Modified ASTM D-1946	NA	NA
26B	Lab Blank	Modified ASTM D-1946	NA	NA
27A	CCV	Modified ASTM D-1946	NA	NA
27B	CCV	Modified ASTM D-1946	NA	NA
28A	LCS	Modified ASTM D-1946	NA	NA
28AA	LCSD	Modified ASTM D-1946	NA	NA
28B	LCS	Modified ASTM D-1946	NA	NA
28BB	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY:



Technical Director

DATE: 06/21/23

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP – 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP – T104704434-22-18, UT NELAP – CA009332022-14, VA NELAP - 12240, WA ELAP - C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-017

Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
Modified ASTM D-1946
AdvancedGeo, Inc
Workorder# 2306303B

Twenty-five 1 Liter Summa Canister samples were received on June 14, 2023. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

<i>Requirement</i>	<i>ASTM D-1946</i>	<i>ATL Modifications</i>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A minimum of 5-point calibration curve is performed. Quantitation is based on average Response Factor.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

The Chain of Custody (COC) information for samples SV4-2 and SV9-2 did not match the information on the canister with regard to canister barcode. The samples labeled 1L3832 and 1L436

on the COC are labeled as 1L3823 and 1L4368 on the canister. The client was notified of the discrepancy and the information on the canister was used to process and report the samples.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

Client Sample ID: SV1-2

Lab ID#: 2306303B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	20
Carbon Dioxide	0.022	0.46

Client Sample ID: SV1-5

Lab ID#: 2306303B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	16
Carbon Dioxide	0.022	5.8

Client Sample ID: SV2-2

Lab ID#: 2306303B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	8.1
Carbon Dioxide	0.022	12

Client Sample ID: SV2-5

Lab ID#: 2306303B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	6.6
Carbon Dioxide	0.022	12

Client Sample ID: SV3-2

Lab ID#: 2306303B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	20
Carbon Dioxide	0.020	0.25

Summary of Detected Compounds

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

Client Sample ID: SV3-5

Lab ID#: 2306303B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	18
Methane	0.00020	0.00021
Carbon Dioxide	0.020	2.6

Client Sample ID: SV4-2

Lab ID#: 2306303B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	21
Methane	0.00020	0.00022
Carbon Dioxide	0.020	0.080

Client Sample ID: SV4-5

Lab ID#: 2306303B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	21
Carbon Dioxide	0.020	0.25

Client Sample ID: SV5-2

Lab ID#: 2306303B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	20
Methane	0.00019	0.00024
Carbon Dioxide	0.019	0.057

Client Sample ID: SV5-5

Lab ID#: 2306303B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	21

Summary of Detected Compounds

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

Client Sample ID: SV5-5

Lab ID#: 2306303B-10A

Methane	0.00019	0.00020
Carbon Dioxide	0.019	0.19

Client Sample ID: SV6-2

Lab ID#: 2306303B-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	21
Carbon Dioxide	0.019	0.68

Client Sample ID: SV6-5

Lab ID#: 2306303B-12A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	8.4
Methane	0.00019	0.0014
Carbon Dioxide	0.019	8.8

Client Sample ID: SV7-2

Lab ID#: 2306303B-13A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	21
Carbon Dioxide	0.020	0.94

Client Sample ID: SV7-5

Lab ID#: 2306303B-14A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	18
Methane	0.00019	0.00034
Carbon Dioxide	0.019	3.7

Summary of Detected Compounds

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

Client Sample ID: SV8-2

Lab ID#: 2306303B-15A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	19
Carbon Dioxide	0.019	2.9

Client Sample ID: SV8-5

Lab ID#: 2306303B-16A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	17
Carbon Dioxide	0.019	5.3

Client Sample ID: SV9-2

Lab ID#: 2306303B-17A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	19
Carbon Dioxide	0.020	2.4

Client Sample ID: SV9-5

Lab ID#: 2306303B-18A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	18
Carbon Dioxide	0.020	4.2

Client Sample ID: SV10-2

Lab ID#: 2306303B-19A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	20
Carbon Dioxide	0.021	1.4

Summary of Detected Compounds

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

Client Sample ID: SV10-5

Lab ID#: 2306303B-20A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	17
Carbon Dioxide	0.022	4.8

Client Sample ID: SV11-2

Lab ID#: 2306303B-21A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	21
Carbon Dioxide	0.020	0.25

Client Sample ID: SV11-5

Lab ID#: 2306303B-22A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	20
Carbon Dioxide	0.020	0.94

Client Sample ID: SV12-2

Lab ID#: 2306303B-23A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	21
Carbon Dioxide	0.021	0.66

Client Sample ID: SS1

Lab ID#: 2306303B-24A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	21
Methane	0.00019	0.00048
Carbon Dioxide	0.019	0.17

Summary of Detected Compounds
MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

Client Sample ID: SS2

Lab ID#: 2306303B-25A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	21
Carbon Dioxide	0.023	0.63

Client Sample ID: SV1-2

Lab ID#: 2306303B-01A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10061919

Date of Collection: 6/12/23 12:04:00 PM

Dil. Factor: 2.21

Date of Analysis: 6/19/23 03:12 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	20
Methane	0.00022	Not Detected
Carbon Dioxide	0.022	0.46

Container Type: 1 Liter Summa Canister

Client Sample ID: SV1-5

Lab ID#: 2306303B-02A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10061920

Date of Collection: 6/12/23 12:20:00 PM

Dil. Factor: 2.22

Date of Analysis: 6/19/23 03:38 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	16
Methane	0.00022	Not Detected
Carbon Dioxide	0.022	5.8

Container Type: 1 Liter Summa Canister

Client Sample ID: SV2-2

Lab ID#: 2306303B-03A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10061921

Date of Collection: 6/12/23 12:46:00 PM

Dil. Factor: 2.16

Date of Analysis: 6/19/23 04:01 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	8.1
Methane	0.00022	Not Detected
Carbon Dioxide	0.022	12

Container Type: 1 Liter Summa Canister

Client Sample ID: SV2-5

Lab ID#: 2306303B-04A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10061922

Date of Collection: 6/12/23 1:04:00 PM

Dil. Factor: 2.20

Date of Analysis: 6/19/23 04:29 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	6.6
Methane	0.00022	Not Detected
Carbon Dioxide	0.022	12

Container Type: 1 Liter Summa Canister

Client Sample ID: SV3-2

Lab ID#: 2306303B-05A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10061923

Date of Collection: 6/13/23 10:22:00 AM

Dil. Factor: 1.95

Date of Analysis: 6/19/23 04:53 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	20
Methane	0.00020	Not Detected
Carbon Dioxide	0.020	0.25

Container Type: 1 Liter Summa Canister

Client Sample ID: SV3-5

Lab ID#: 2306303B-06A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10062005

Date of Collection: 6/13/23 10:37:00 AM

Dil. Factor: 1.96

Date of Analysis: 6/20/23 08:58 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	18
Methane	0.00020	0.00021
Carbon Dioxide	0.020	2.6

Container Type: 1 Liter Summa Canister

Client Sample ID: SV4-2

Lab ID#: 2306303B-07A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10062006

Date of Collection: 6/13/23 11:07:00 AM

Dil. Factor: 2.05

Date of Analysis: 6/20/23 09:23 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	21
Methane	0.00020	0.00022
Carbon Dioxide	0.020	0.080

Container Type: 1 Liter Summa Canister

Client Sample ID: SV4-5

Lab ID#: 2306303B-08A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10062007

Date of Collection: 6/13/23 11:32:00 AM

Dil. Factor: 1.99

Date of Analysis: 6/20/23 09:59 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	21
Methane	0.00020	Not Detected
Carbon Dioxide	0.020	0.25

Container Type: 1 Liter Summa Canister

Client Sample ID: SV5-2

Lab ID#: 2306303B-09A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10062008

Date of Collection: 6/13/23 7:30:00 AM

Dil. Factor: 1.90

Date of Analysis: 6/20/23 10:24 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	20
Methane	0.00019	0.00024
Carbon Dioxide	0.019	0.057

Container Type: 1 Liter Summa Canister

Client Sample ID: SV5-5

Lab ID#: 2306303B-10A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10062009

Date of Collection: 6/13/23 7:50:00 AM

Dil. Factor: 1.89

Date of Analysis: 6/20/23 10:51 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	21
Methane	0.00019	0.00020
Carbon Dioxide	0.019	0.19

Container Type: 1 Liter Summa Canister

Client Sample ID: SV6-2

Lab ID#: 2306303B-11A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10062010

Date of Collection: 6/13/23 8:52:00 AM

Dil. Factor: 1.92

Date of Analysis: 6/20/23 11:39 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	21
Methane	0.00019	Not Detected
Carbon Dioxide	0.019	0.68

Container Type: 1 Liter Summa Canister

Client Sample ID: SV6-5

Lab ID#: 2306303B-12A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10062011

Date of Collection: 6/13/23 9:07:00 AM

Dil. Factor: 1.86

Date of Analysis: 6/20/23 12:07 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	8.4
Methane	0.00019	0.0014
Carbon Dioxide	0.019	8.8

Container Type: 1 Liter Summa Canister

Client Sample ID: SV7-2

Lab ID#: 2306303B-13A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10062012

Date of Collection: 6/13/23 9:28:00 AM

Dil. Factor: 1.98

Date of Analysis: 6/20/23 12:34 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	21
Methane	0.00020	Not Detected
Carbon Dioxide	0.020	0.94

Container Type: 1 Liter Summa Canister

Client Sample ID: SV7-5

Lab ID#: 2306303B-14A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10062013

Date of Collection: 6/13/23 9:47:00 AM

Dil. Factor: 1.87

Date of Analysis: 6/20/23 12:57 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	18
Methane	0.00019	0.00034
Carbon Dioxide	0.019	3.7

Container Type: 1 Liter Summa Canister

Client Sample ID: SV8-2

Lab ID#: 2306303B-15A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10062014

Date of Collection: 6/13/23 8:12:00 AM

Dil. Factor: 1.89

Date of Analysis: 6/20/23 01:22 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	19
Methane	0.00019	Not Detected
Carbon Dioxide	0.019	2.9

Container Type: 1 Liter Summa Canister

Client Sample ID: SV8-5

Lab ID#: 2306303B-16A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10062015

Date of Collection: 6/13/23 8:27:00 AM

Dil. Factor: 1.94

Date of Analysis: 6/20/23 01:50 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	17
Methane	0.00019	Not Detected
Carbon Dioxide	0.019	5.3

Container Type: 1 Liter Summa Canister

Client Sample ID: SV9-2

Lab ID#: 2306303B-17A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10062016

Date of Collection: 6/12/23 2:42:00 PM

Dil. Factor: 2.00

Date of Analysis: 6/20/23 02:21 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	19
Methane	0.00020	Not Detected
Carbon Dioxide	0.020	2.4

Container Type: 1 Liter Summa Canister

Client Sample ID: SV9-5

Lab ID#: 2306303B-18A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10062017

Date of Collection: 6/12/23 2:59:00 PM

Dil. Factor: 1.99

Date of Analysis: 6/20/23 03:12 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	18
Methane	0.00020	Not Detected
Carbon Dioxide	0.020	4.2

Container Type: 1 Liter Summa Canister

Client Sample ID: SV10-2

Lab ID#: 2306303B-19A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	10062018	Date of Collection: 6/12/23 2:06:00 PM
Dil. Factor:	2.09	Date of Analysis: 6/20/23 03:37 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	20
Methane	0.00021	Not Detected
Carbon Dioxide	0.021	1.4

Container Type: 1 Liter Summa Canister

Client Sample ID: SV10-5

Lab ID#: 2306303B-20A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10062019

Date of Collection: 6/12/23 2:22:00 PM

Dil. Factor: 2.24

Date of Analysis: 6/20/23 04:00 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	17
Methane	0.00022	Not Detected
Carbon Dioxide	0.022	4.8

Container Type: 1 Liter Summa Canister

Client Sample ID: SV11-2

Lab ID#: 2306303B-21A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10062020

Date of Collection: 6/12/23 1:37:00 PM

Dil. Factor: 2.01

Date of Analysis: 6/20/23 04:22 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	21
Methane	0.00020	Not Detected
Carbon Dioxide	0.020	0.25

Container Type: 1 Liter Summa Canister

Client Sample ID: SV11-5

Lab ID#: 2306303B-22A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10062021

Date of Collection: 6/12/23 1:53:00 PM

Dil. Factor: 1.98

Date of Analysis: 6/20/23 04:46 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	20
Methane	0.00020	Not Detected
Carbon Dioxide	0.020	0.94

Container Type: 1 Liter Summa Canister

Client Sample ID: SV12-2

Lab ID#: 2306303B-23A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10062022

Date of Collection: 6/13/23 1:08:00 PM

Dil. Factor: 2.12

Date of Analysis: 6/20/23 05:09 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	21
Methane	0.00021	Not Detected
Carbon Dioxide	0.021	0.66

Container Type: 1 Liter Summa Canister

Client Sample ID: SS1

Lab ID#: 2306303B-24A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	10062023	Date of Collection: 6/13/23 12:37:00 PM
Dil. Factor:	1.94	Date of Analysis: 6/20/23 05:33 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	21
Methane	0.00019	0.00048
Carbon Dioxide	0.019	0.17

Container Type: 1 Liter Summa Canister

Client Sample ID: SS2

Lab ID#: 2306303B-25A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	10062024	Date of Collection: 6/13/23 12:12:00 PM
Dil. Factor:	2.32	Date of Analysis: 6/20/23 06:02 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	21
Methane	0.00023	Not Detected
Carbon Dioxide	0.023	0.63

Container Type: 1 Liter Summa Canister

Client Sample ID: Lab Blank

Lab ID#: 2306303B-26A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10061904

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 6/19/23 08:28 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected

Container Type: NA - Not Applicable

Client Sample ID: Lab Blank

Lab ID#: 2306303B-26B

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10062004

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 6/20/23 08:33 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected

Container Type: NA - Not Applicable

Client Sample ID: CCV

Lab ID#: 2306303B-27A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10061901

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 6/19/23 07:08 AM

Compound	%Recovery
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Oxygen	97
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Methane	106
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Carbon Dioxide	100
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Container Type: NA - Not Applicable

Client Sample ID: CCV

Lab ID#: 2306303B-27B

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10062001

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 6/20/23 06:48 AM

Compound	%Recovery
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Oxygen	98
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Methane	105
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Carbon Dioxide	101
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Container Type: NA - Not Applicable

Client Sample ID: LCS

Lab ID#: 2306303B-28A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10061902

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 6/19/23 07:40 AM

Compound	%Recovery	Method Limits
Oxygen	99	85-115
Methane	107	85-115
Carbon Dioxide	100	85-115

Container Type: NA - Not Applicable

Client Sample ID: LCSD

Lab ID#: 2306303B-28AA

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10061925

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 6/19/23 05:54 PM

Compound	%Recovery	Method Limits
Oxygen	99	85-115
Methane	104	85-115
Carbon Dioxide	101	85-115

Container Type: NA - Not Applicable

Client Sample ID: LCS

Lab ID#: 2306303B-28B

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10062002

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 6/20/23 07:13 AM

Compound	%Recovery	Method Limits
Oxygen	99	85-115
Methane	108	85-115
Carbon Dioxide	101	85-115

Container Type: NA - Not Applicable

Client Sample ID: LCSD

Lab ID#: 2306303B-28BB

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10062025

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 6/20/23 06:34 PM

Compound	%Recovery	Method Limits
Oxygen	100	85-115
Methane	106	85-115
Carbon Dioxide	101	85-115

Container Type: NA - Not Applicable



Air Toxics

Analysis Request /Canister Chain of Custody

For Laboratory Use Only

PID: _____

Workorder #: _____

2306303

180 Blue Ravine Rd. Suite B, Folsom, CA 95630

Phone (800) 985-5955; Fax (916) 351-8279

page 1 of 2

Client: <u>Advancedco, INC</u>				Special Instructions/Notes:				Turnaround Time (Rush surcharges may apply)															
Project Name: <u>Pacific Highway Auto Care (PHAC)</u>								Standard ☒ Rush _____ (specify)															
Project Manager: <u>Brian Millman</u> Project # _____								Canister Vacuum/Pressure				Requested Analyses											
Sampler: <u>KL</u>								Lab Use Only				TPH-6 TO-15 CH4 VOCs DR, CO2 LIDFA											
Site Name: _____								Initial (in Hg)				Final (in Hg)				Receipt				Final (psig) Gas: N ₂ / He			
Lab ID	Field Sample Identification(Location)	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N ₂ / He	TPH-6	TO-15	CH4	VOCs	DR, CO2	LIDFA						
				Date	Time	Date	Time																
01A	SV1-2	1L4150	23479	6/12/23	1158	---	1204	27	4			X	X	X	X								
02A	SV1-5	1L2910	25229	6/12/23	1212	---	1220	28	4														
03A	SV2-2	1L4062	23547	6/12/23	1239	---	1246	26	4														
04A	SV2-5	1L3466	25261	6/12/23	1257	---	1304	27	4														
05A	SV3-2	1L4222	23370	6/13/23	1015	---	1022	26.5	4														
06A	SV3-5	1L3424	24082	6/13/23	1030	---	1037	29	4														
07A	SV4-2	1L3832	23345	6/13/23	1100	---	1107	26	4														
08A	SV4-5	1L4272	24699	6/13/23	1125	---	1132	26.5	4														
09A	SV5-2	1L4524	23429	6/13/23	0722	---	0730	27	4														
10A	SV5-5	1L2795	25216	6/13/23	0743	---	0750	28	4														
11A	SV6-2	1L2059	24039	6/13/23	0845	---	0852	27	4														
12A	SV6-5	1L3187	25311	6/13/23	0900	---	0907	26	4														
13A	SV7-2	1L2368	24687	6/13/23	0920	---	0928	27	4														
14A	SV7-5	1L2111	23774	6/13/23	0940	---	0947	26.5	4														
15A	SV8-2	1L4310	24314	6/13/23	0804	---	0812	29	4														
16A	SV8-5	35660	25269	6/13/23	0820	---	0827	28	4														
Relinquished by: (Signature/Affiliation)				Date		Time		Received by: (Signature/Affiliation)				Date		Time									
<u>[Signature]</u>				6/13/23		1500		<u>K. Mitchell</u>				6/14/23		0957									
Relinquished by: (Signature/Affiliation)				Date		Time		Received by: (Signature/Affiliation)				Date		Time									
Relinquished by: (Signature/Affiliation)				Date		Time		Received by: (Signature/Affiliation)				Date		Time									
Lab Use Only																							
Shipper Name: <u>UPS</u>				Custody Seals Intact?				Yes No <u>None</u>															
Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T Hotline (800) 467-4922																							



Air Toxics

Analysis Request / Canister Chain of Custody

For Laboratory Use Only

PID: _____ Workorder #: 2306303

180 Blue Ravine Rd. Suite B, Folsom, CA 95630

Phone (800) 985-5955; Fax (916) 351-8279

22
page-of

Client: <u>Advanced Geo, INC</u>				Special Instructions/Notes:				Turnaround Time (Rush surcharges may apply)							
Project Name: <u>Pacific Highway Auto Care (PHAC)</u>								Standard _____ Rush _____ (specify)							
Project Manager: <u>Brian Millman</u> Project # _____								Canister Vacuum/Pressure		Requested Analyses					
Sampler: <u>ILL</u>								Lab Use Only							
Site Name: _____															
Lab ID	Field Sample Identification (Location)	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N ₂ / He	TPH-6	VOCs	OR, CO ₂ , CH ₄	L, IDEFA
				Date	Time	Date	Time								
17A	SV9-2	1L436	23531	6/12/23	1435	---	1442	28	4			X	X	X	X
18A	SV9-5	1L2720	25256	6/12/23	1452	---	1459	28	4						
19A	SV10-2	1L4364	23331	6/12/23	1359	---	1406	27	4						
20A	SV10-5	1L3482	23247	6/12/23	1415	---	1422	27	4						
21A	SV11-2	1L4125	24065	6/12/23	1330	---	1337	28.5	4						
22A	SV11-5	1L4075	23727	6/12/23	1345	---	1353	28.5	4						
23A	SV12-2	1L1908	23594	6/13/23	1300	---	1308	29	4						
24A	SS1	1L3929	23230	6/13/23	1230	---	1237	26	4						
25A	SS2	5LC041	23744	6/13/23	1205	---	1212	23	4						
Relinquished by: (Signature/Affiliation) <u>[Signature]</u>				Date: <u>6/13/23</u>		Time: <u>1500</u>		Received by: (Signature/Affiliation) <u>[Signature]</u>				Date: <u>6/14/23</u>		Time: <u>0957</u>	
Relinquished by: (Signature/Affiliation)				Date		Time		Received by: (Signature/Affiliation)				Date		Time	
Relinquished by: (Signature/Affiliation)				Date		Time		Received by: (Signature/Affiliation)				Date		Time	
Lab Use Only															
Shipper Name: <u>UPS</u>		Custody Seals Intact?		Yes		No		<u>None</u>							
Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T Hotline (800) 467-4922															

APPENDIX E

Groundwater Monitoring Procedures

Monitoring and Sampling Procedures
PACIFIC HIGHWAY AUTO CARE
112 Pacific Highway North, Monmouth, Oregon

STATIC WATER LEVEL MEASUREMENTS

Before sampling and during groundwater monitoring, static water levels and free-phase petroleum product (if present) will be measured using an electric oil/water interface probe. Water level and free product data is recorded to the nearest 0.01-foot from a reference point marked on the top of the PVC well casing.

WELL PURGING/WELL EVACUATION

After measurement of depth to water and prior to sampling, each well is purged to ensure samples are representative of the formation, rather than standing water in the well casing. Wells are purged using either a disposable plastic bailer, Waterra inertial pump or peristaltic pump and dedicated 5/8-inch plastic tubing or a disposable plastic bailer. However, During the fourth quarter 2022 event wells were purged using low flow purging methods. A peristaltic pump and 0.25-inch dedicated tubing were used to purge and sample the wells using low-flow methods.

The wells were purged and sampled at an approximate average flow rate of 200 milliliters per minute (ml/min). Field parameters (pH, temperature, dissolved oxygen, depth to water, and conductivity) were monitored every 500 ml and purging continued until field parameters had stabilized. Between approximately 2,000 ml and 3,000 ml of groundwater were removed from each well prior to sample collection. The field data and logs are provided in Appendix G.

Wells are purged until 1) a minimum of three casing-water volumes is removed from the well; and/or 2) the field-measured groundwater parameters, pH, temperature and conductivity, are stabilized. However, if a well is purged dry prior to evacuating three casing volumes, a sample is collected following 80 percent recovery of groundwater within the well, or after a minimum of 1 hour, but within 8 hours, of well evacuation.

If free-phase petroleum product is encountered, the product will be removed to the extent practicable using a disposable plastic bailer and contained in a 5-gallon bucket or small drum and then placed inside a labeled Department of Transportation (DOT)-approved 55-gallon drum.

SAMPLE WITHDRAWAL

Water samples are collected from each monitoring well using a disposable polyethylene bailer or a dedicated plastic tubing in conjunction with the pumps. Bailers are disposed after a single use (sample) and require no decontamination; plastic tubing used with the pumps is either dedicated to each well point or changed at each sampling event, thereby minimizing cross contamination due to sampling devices. Samples are drawn and collected in such a manner that agitation and exposure of the groundwater to the atmosphere is minimal.

SAMPLE HANDLING

Groundwater samples will be collected into laboratory-supplied 40-ml volatile organic analysis (VOA) vials with preservative; the samples will be collected with no visible air bubbles present in the vials after filling and capping. Following collection, samples will be appropriately labeled, placed on ice (with an appropriate quantity of ice), and kept in a cooler until delivered to a State of Oregon Environmental Laboratory Accreditation Program (ELAP)-certified analytical laboratory, for analysis. The samples will be analyzed for:

- Gasoline range organics (GRO) by Northwest Total Petroleum Hydrocarbon Method NWTPH-Gx.
- Risk-based decision making (RBDM) volatile organic compounds (VOCs) in accordance with EPA Method 5035A/8260D.

EQUIPMENT DECONTAMINATION AND WASTE MANAGEMENT

Any non-disposable equipment used for sample collection will be thoroughly rinsed with clean water after being washed with a solution of Alconox. Purge water generated during sampling activities will be contained on-site in labeled DOT-approved 55-gallon drums or a polyethylene holding tank.

APPENDIX F

Groundwater Monitoring Field Logs

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FIELD LOG GROUNDWATER DEPTH / DISSOLVED OXYGEN / ORP

PROJECT: <i>Pacific Highway Auto Care</i>	DATE: <i>6-14-23</i>
FIELD PERSONNEL: <i>KL</i>	PAGE <i>1</i> OF <i>1</i>

Well I.D.	Casing Elevation	Depth to Free Product	Depth to Water	Ground Water Elevation	Measured Depth	Total Depth	ORP	Dissolved Oxygen		
								mg/l	%	°C
MW-1			5.24	196.59	14.55					
MW-2			5.49	196.24	34.25					
MW-3			5.10	195.09	14.55					
MW-4			5.29	195.01	25.15					
MW-5			7.63	192.77	14.35					
MW-6			7.35	192.78	33.65					
MW-7			4.88	196.32	14.60					
MW-8			5.26	195.49	14.70					
MW-10			10.91	189.95	34.45					
MW-11			8.68	191.76	14.95					
MW-12			9.15	191.42	34.90					
MW-13			4.34	196.44	16.35					
MW-14			5.75	194.77	32.60					

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Well Data

Project Name: Pacific Highway Auto Care		Project No.:	Date: 6-14-23
Pre-Purge DTW: 5.24 Time:		Well I.D.: MW-1	
Post-Purge DTW: Time:			
Total Depth of Well: 14.55	Well Volume:	Casing Diameter: 0.5" 2" 4" 6" Gal./Ft.: 0.01074 0.16 0.65 1.47	
Sampler(s): KC		Sample Containers:	
Sample I.D.: MW-1		Analysis:	

ML

Stabilization Data DO 9/2

Time	Volume (gallons)	pH	Temp.	Cond μS/cm	Color Turbidity	DTW Notes
1320	500	6.71	16.9	180	70	5.50
1323	1000	6.65	16.2	176	62	5.99
1326	1500	6.64	15.9	176	48	6.47
1329	2000	6.62	15.9	177	43	6.92
1332	2500	6.63	15.8	178	39	7.50
1335	3000	6.63	15.9	178	37	7.98

Notes

Purge Method:	Peristaltic Pump		
Sample Method:	Same	Well Integrity:	
Sample Time:	1336	Dissolved O ₂ :	
Water Analyzer: YSI 556		%	mg/L

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Well Data

Project Name: Pacific Highway Auto Care		Project No.:	Date: 6-14-23
Pre-Purge DTW: 5.49 Time:		Well I.D.: MW-2	
Post-Purge DTW: Time:			
Total Depth of Well: 34.25	Well Volume: 4.60	Casing Diameter: 0.5" 2" 4" 6" Gal./Ft.: 0.01074 0.16 0.65 1.47	
Sampler(s): 12L		Sample Containers: 3 JVAS	
Sample I.D.: MW-2		Analysis:	

ML

Stabilization Data DO 0/0

Time	Volume (gallons)	pH	Temp.	Cond μ S/cm	Color/Turbidity	DTW Notes
1352	500	6.70	16.3	219	62	5.91
1355	1000	6.73	15.7	220	46	6.43
1358	1500	6.71	15.6	221	36	6.94
1401	2000	6.72	15.7	222	31	7.52
1404	2500	6.72	15.8	223	29	8.10
1407	3000	6.73	15.8	223	28	8.62

Notes

Purge Method:	Peristaltic Pump		
Sample Method:	Same	Well Integrity:	
Sample Time:	1408	Dissolved O ₂ :	
Water Analyzer: YSI 556		%	mg/L

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Well Data

Project Name: Pacific Highway Auto Care	Project No.: Date: 6-14-23
Pre-Purge DTW: 5.10 Time:	Well I.D.: MW-3
Post-Purge DTW: Time:	
Total Depth of Well: 14.55 Well Volume: 1.51	Casing Diameter: 0.5" 2" 4" 6" Gal./Ft.: 0.01074 0.16 0.65 1.47
Sampler(s): LC	Sample Containers:
Sample I.D.: MW-3	Analysis:

ML

Stabilization Data DO %

Time	Volume (gallons)	pH	Temp.	Cond μ S/cm	Color Turbidity	DTW Notes
1100	500	6.42	16.9	287	91	5.82
1103	1000	6.44	16.2	283	52	6.33
1106	1500	6.42	16.0	283	41	6.82
1109	2000	6.40	16.0	284	34	7.39
1112	2500	6.41	16.1	282	32	7.91

Notes

Purge Method:	Peristaltic Pump		
Sample Method:	Same	Well Integrity:	
Sample Time:	1113	Dissolved O ₂ :	
Water Analyzer: YSI 556		%	mg/L

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Well Data

Project Name: Pacific Highway Auto Care		Project No.:	Date: 6-14-23
Pre-Purge DTW: 5.29 Time:		Well I.D.: MW-4	
Post-Purge DTW: Time:			
Total Depth of Well: 25.15 Well Volume: 3.17		Casing Diameter: 0.5" 2" 4" 6" Gal./Ft.: 0.01074 0.16 0.65 1.47	
Sampler(s): 1CL		Sample Containers:	
Sample I.D.: MW-4		Analysis:	

ML

Stabilization Data DO %

Time	Volume (gallons)	pH	Temp.	Cond μ S/cm	Color/Turbidity	DTW Notes
1130	500	6.54	16.8	379	88	5.52
1133	1000	6.50	16.4	381	51	5.70
1136	1500	6.49	16.3	384	40	5.81
1139	2000	6.47	16.2	385	37	5.96
1142	2500	6.47	16.2	385	36	6.09

Notes

Purge Method:	Peristaltic Pump		
Sample Method:	Same	Well Integrity:	
Sample Time:	1143	Dissolved O ₂ :	
Water Analyzer: YSI 556	% mg/L		

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Well Data

Project Name: Pacific Highway Auto Care		Project No.:	Date: 6-15-23
Pre-Purge DTW: 7.63 Time:		Well I.D.: MW-5	
Post-Purge DTW:		Time:	
Total Depth of Well: 14.35	Well Volume: 1.07	Casing Diameter: 0.5" 2" 4" 6" Gal./Ft.: 0.01074 0.16 0.65 1.47	
Sampler(s): KCL		Sample Containers: 3 VOAs	
Sample I.D.: MW-5		Analysis:	

ML

Stabilization Data DO %

Time	Volume (gallons)	pH	Temp.	Cond μ S/cm	Color/Turbidity	DTW Notes
0758	500	6.80	15.5	642	57	8.01
0801	1000	6.72	15.4	655	40	8.50
0804	1500	6.72	15.4	664	34	9.08
0807	2000	6.73	15.5	673	32	9.60
0810	2500	6.73	15.6	679	31	10.10
0813	3000	6.72	15.5	678	30	10.61

Notes

Purge Method:	Peristaltic Pump		
Sample Method:	Same	Well Integrity:	
Sample Time:	0814	Dissolved O ₂ :	
Water Analyzer: YSI 556	% mg/L		

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Well Data

Project Name: Pacific Highway Auto Care		Project No.:	Date: 6-15-23
Pre-Purge DTW: 7.35 Time:		Well I.D.: MW-6	
Post-Purge DTW: Time:			
Total Depth of Well: 33.65	Well Volume: 4.20	Casing Diameter: 0.5" (2") 4" 6" Gal./Ft.: 0.01074 0.16 0.65 1.47	
Sampler(s): LL		Sample Containers: 3 JOAS	
Sample I.D.: MW-6		Analysis:	

ML

Stabilization Data DO %

Time	Volume (gallons)	pH	Temp.	Cond μ S/cm	Color/ Turbidity	Notes DTW
0725	500	6.72	16.5	327	88	7.80
0728	1000	6.65	16.4	329	58	8.22
0731	1500	6.63	16.2	331	47	8.60
0734	2000	6.65	16.2	334	43	9.01
0737	2500	6.65	16.2	336	40	9.44
0740	3000	6.65	16.1	335	39	9.89

Notes

Purge Method:	Peristaltic Pump		
Sample Method:	Same	Well Integrity:	
Sample Time:	0741	Dissolved O ₂ :	
Water Analyzer: YSI 556	% mg/L		

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Well Data

Project Name: Pacific Highway Auto Care		Project No.:	Date: 6-14-23
Pre-Purge DTW: 4.88 Time:		Well I.D.: MW-7	
Post-Purge DTW: Time:			
Total Depth of Well: 14.60	Well Volume: 1.55	Casing Diameter: 0.5" 2" 4" 6" Gal./Ft.: 0.01074 0.16 0.65 1.47	
Sampler(s): LL		Sample Containers:	
Sample I.D.: MW-7		Analysis:	

ML

Stabilization Data DO %

Time	Volume (gallons)	pH	Temp.	Cond μ S/cm	Color/ Turbidity	Notes
1240	500	6.41	17.1	296	55	4.87
1243	1000	6.39	17.0	295	58	4.87
1246	1500	6.38	16.7	295	38	4.87
1249	2000	6.39	16.7	294	34	4.87
1252	2500	6.39	16.7	293	31	4.87
1255	3000	6.40	16.7	293	30	4.87

Notes

Purge Method:	Peristaltic Pump		
Sample Method:	Same	Well Integrity:	
Sample Time:	1256	Dissolved O ₂ :	
Water Analyzer: YSI 556	% mg/L		

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Well Data

Project Name: Pacific Highway Auto Care		Project No.:	Date: 6-14-23
Pre-Purge DTW: 5.26 Time:		Well I.D.: MW-9	
Post-Purge DTW: Time:			
Total Depth of Well: 14.70	Well Volume: 1.51	Casing Diameter: 0.5" 4" 6"	
		Gal./Ft.: 0.01074 0.16 0.65 1.47	
Sampler(s): UCL		Sample Containers:	
Sample I.D.: MW-9		Analysis:	

ML

Stabilization Data DO 90

Time	Volume (gallons)	pH	Temp.	Cond μ S/cm	Color/ Turbidity	DTW Notes
1020	500	5.86	15.9	364	88	
1023	1000	6.42	15.9	365	72	
1026	1500	6.44	15.9	366	43	7.50
1029	2000	6.48	15.8	370	41	7.91
1032	2500	6.47	15.8	373	40	8.30

Notes

Purge Method:	Peristaltic Pump		
Sample Method:	Same	Well Integrity:	
Sample Time:	1033	Dissolved O ₂ :	
Water Analyzer: YSI 556	% mg/L		

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Well Data

Project Name: Pacific Highway Auto Care		Project No.:	Date: 6-14-23
Pre-Purge DTW: 10.91 Time:		Well I.D.: MW-10	
Post-Purge DTW: Time:			
Total Depth of Well: 34.45	Well Volume: 3.76	Casing Diameter: 0.5" 2" 4" 6" Gal./Fl.: 0.01074 0.16 0.65 1.47	
Sampler(s): LL		Sample Containers:	
Sample I.D.: MW-10		Analysis:	

ML

Stabilization Data DP 0%

Time	Volume (gallons)	pH	Temp.	Cond μ S/cm	Color/Turbidity	DTW Notes
0945	500	6.14	15.4	182	120	11.40
0948	1000	6.08	15.4	186	72	12.39
0951	1500	6.05	15.4	190	54	13.22
0954	2000	6.02	15.3	190	47	14.01
0957	2500	6.02	15.4	188	44	14.60
1000	3000	6.03	15.4	187	43	

Notes

Purge Method:	Peristaltic Pump		
Sample Method:	Same	Well Integrity:	
Sample Time:	1001	Dissolved O ₂ :	
Water Analyzer: YSI 556		%	mg/L

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Well Data

Project Name: Pacific Highway Auto Care		Project No.:	Date: 6-14-23
Pre-Purge DTW: 8.68 Time:		Well I.D.: MW-11	
Post-Purge DTW: Time:			
Total Depth of Well: 14.95	Well Volume: 1.00	Casing Diameter: 0.5" 2" 4" 6" Gal./Ft.: 0.01074 0.16 0.65 1.47	
Sampler(s): ICL		Sample Containers:	
Sample I.D.: MW-11		Analysis:	

ML

Stabilization Data DO 9/2

Time	Volume (gallons)	pH	Temp.	Cond μ S/cm	Color Turbidity	DTW Notes
0830	500	6.41	16.1	291	109	9.01
0833	1000	6.34	15.9	289	76	9.45
0836	1500	6.31	16.0	297	68	9.92
0839	2000	6.26	15.9	300	61	10.51
0842	2500	6.22	16.0	300	59	11.02
0845	3000	6.23	16.0	300	60	11.50

Notes

Purge Method:	Peristaltic Pump		
Sample Method:	Same	Well Integrity:	
Sample Time:	0846	Dissolved O ₂ :	
Water Analyzer: YSI 556		%	mg/L

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Well Data

Project Name: Pacific Highway Auto Care		Project No.:	Date: 6-14-23
Pre-Purge DTW: 9.15 Time:		Well I.D.: MW-12	
Post-Purge DTW: Time:			
Total Depth of Well: 34.90	Well Volume: 4.2	Casing Diameter: 0.5" 2" 4" 6" Gal./Ft.: 0.01074 0.16 0.65 1.47	
Sampler(s): LL		Sample Containers: 3 VOAS	
Sample I.D.: MW-12		Analysis:	

ML

Stabilization Data DO %

Time	Volume (gallons)	pH	Temp.	Cond μ S/cm	Color/ Turbidity	DTW Notes
0900	500	6.17	16.7	239	102	
0903	1000	6.15	16.5	240	57	
0906	1500	6.14	16.3	241	44	
0909	2000	6.13	16.2	240	43	
0912	2500	6.11	16.3	243	40	
0915	3000	6.11	16.2	242	40	13.30

Notes

Purge Method:	Peristaltic Pump		
Sample Method:	Same	Well Integrity:	
Sample Time:	0916	Dissolved O ₂ :	
Water Analyzer: YSI 556		%	mg/L

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Well Data

Project Name: Pacific Highway Auto Care		Project No.:	Date: 6-15-23
Pre-Purge DTW: 4.34 Time:		Well I.D.: MW-13	
Post-Purge DTW: Time:			
Total Depth of Well: 16.35	Well Volume: 1.92	Casing Diameter: 0.5" 2" 4" 6" Gal./Ft.: 0.01074 0.16 0.65 1.47	
Sampler(s): LL		Sample Containers:	
Sample I.D.: MW-13		Analysis:	

ML

Stabilization Data DO %

Time	Volume (gallons)	pH	Temp.	Cond μ S/cm	Color Turbidity	DTW Notes
0845	500	6.90	13.9	267	105	4.80
0848	1000	6.88	13.9	264	71	5.33
0851	1500	6.87	13.8	263	55	5.92
0854	2000	6.88	13.6	260	48	6.49
0857	2500	6.87	13.6	261	46	7.06

Notes

Purge Method:	Peristaltic Pump		
Sample Method:	Same	Well Integrity:	
Sample Time:	0858	Dissolved O ₂ :	
Water Analyzer: YSI 556	% mg/L		

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Well Data

Project Name: Pacific Highway Auto Care		Project No.:	Date: 6-15-23
Pre-Purge DTW: 5.75 Time:		Well I.D.: MW-14	
Post-Purge DTW: Time:			
Total Depth of Well: 32.60	Well Volume:	Casing Diameter: 0.5" 2" 4" 6" Gal./Ft.: 0.01074 0.16 0.65 1.47	
Sampler(s): 1CL		Sample Containers:	
Sample I.D.: MW-14		Analysis:	

ML

Stabilization Data DO 9/0

Time	Volume (gallons)	pH	Temp.	Cond µS/cm	Color Turbidity	DTW Notes
0915	500	6.84	14.2	217	88	6.22
0918	1000	6.81	14.0	214	45	6.75
0921	1500	6.80	14.1	215	36	7.26
0924	2000	6.79	14.0	214	32	7.80
0927	2500	6.78	14.0	214	31	8.33
0930	3000	6.80	14.0	215	31	8.88

Notes

Purge Method:	Peristaltic Pump		
Sample Method:	Same	Well Integrity:	
Sample Time:	0931	Dissolved O ₂ :	
Water Analyzer: YSI 556		%	mg/L

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APPENDIX G

Groundwater/Water Lab Reports



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Monday, July 3, 2023

Brian Millman
Advanced Geo, Inc.
837 Shaw Road
Stockton, CA 95215

RE: A3F1263 - Pacific Highway Auto Care (PHAC) - [none]

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3F1263, which was received by the laboratory on 6/16/2023 at 9:00:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler 2.3 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

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Darrell Auvil, Client Services Manager

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Advanced Geo, Inc.**
837 Shaw Road
Stockton, CA 95215Project: **Pacific Highway Auto Care (PHAC)**
Project Number: [none]
Project Manager: **Brian Millman****Report ID:**
A3F1263 - 07 03 23 1224**ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	A3F1263-01	Water	06/14/23 13:36	06/16/23 09:00
MW-2	A3F1263-02	Water	06/14/23 14:08	06/16/23 09:00
MW-3	A3F1263-03	Water	06/14/23 11:13	06/16/23 09:00
MW-4	A3F1263-04	Water	06/14/23 11:43	06/16/23 09:00
MW-5	A3F1263-05	Water	06/15/23 08:14	06/16/23 09:00
MW-6	A3F1263-06	Water	06/15/23 07:41	06/16/23 09:00
MW-7	A3F1263-07	Water	06/14/23 12:56	06/16/23 09:00
MW-9	A3F1263-08	Water	06/14/23 10:33	06/16/23 09:00
MW-10	A3F1263-09	Water	06/14/23 10:01	06/16/23 09:00
MW-11	A3F1263-10	Water	06/14/23 08:46	06/16/23 09:00
MW-12	A3F1263-11	Water	06/14/23 09:16	06/16/23 09:00
MW-13	A3F1263-12	Water	06/15/23 08:58	06/16/23 09:00
MW-14	A3F1263-13	Water	06/15/23 09:31	06/16/23 09:00
Trip Blank	A3F1263-14	Water	06/14/23 00:00	06/16/23 09:00

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Project Number: [none]
Project Manager: Brian MillmanReport ID:
A3F1263 - 07 03 23 1224

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1 (A3F1263-01)		Matrix: Water			Batch: 23F0714			
Gasoline Range Organics	ND	---	0.100	mg/L	1	06/20/23 14:09	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	95 %	Limits: 50-150 %	1	06/20/23 14:09	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			114 %	50-150 %	1	06/20/23 14:09	NWTPH-Gx (MS)	
MW-2 (A3F1263-02)		Matrix: Water			Batch: 23F0714			
Gasoline Range Organics	ND	---	0.100	mg/L	1	06/20/23 14:31	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	93 %	Limits: 50-150 %	1	06/20/23 14:31	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			113 %	50-150 %	1	06/20/23 14:31	NWTPH-Gx (MS)	
MW-3 (A3F1263-03)		Matrix: Water			Batch: 23F0714			
Gasoline Range Organics	ND	---	0.100	mg/L	1	06/20/23 14:54	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	96 %	Limits: 50-150 %	1	06/20/23 14:54	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			112 %	50-150 %	1	06/20/23 14:54	NWTPH-Gx (MS)	
MW-4 (A3F1263-04)		Matrix: Water			Batch: 23F0714			
Gasoline Range Organics	ND	---	0.100	mg/L	1	06/20/23 15:17	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	99 %	Limits: 50-150 %	1	06/20/23 15:17	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			115 %	50-150 %	1	06/20/23 15:17	NWTPH-Gx (MS)	
MW-5 (A3F1263-05)		Matrix: Water			Batch: 23F0759			
Gasoline Range Organics	140	---	20.0	mg/L	200	06/21/23 21:37	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	97 %	Limits: 50-150 %	1	06/21/23 21:37	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			101 %	50-150 %	1	06/21/23 21:37	NWTPH-Gx (MS)	
MW-6 (A3F1263-06)		Matrix: Water			Batch: 23F0759			
Gasoline Range Organics	ND	---	0.100	mg/L	1	06/21/23 14:26	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	93 %	Limits: 50-150 %	1	06/21/23 14:26	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			104 %	50-150 %	1	06/21/23 14:26	NWTPH-Gx (MS)	
MW-7 (A3F1263-07)		Matrix: Water			Batch: 23F0759			
Gasoline Range Organics	ND	---	0.100	mg/L	1	06/21/23 15:11	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	96 %	Limits: 50-150 %	1	06/21/23 15:11	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			110 %	50-150 %	1	06/21/23 15:11	NWTPH-Gx (MS)	

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ORELAP ID: OR100062Advanced Geo, Inc.
837 Shaw Road
Stockton, CA 95215Project: Pacific Highway Auto Care (PHAC)
Project Number: [none]
Project Manager: Brian MillmanReport ID:
A3F1263 - 07 03 23 1224

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-9 (A3F1263-08)		Matrix: Water			Batch: 23F0759			
Gasoline Range Organics	44.8	---	10.0	mg/L	100	06/21/23 22:00	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	99 %	Limits: 50-150 %	1	06/21/23 22:00	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			106 %	50-150 %	1	06/21/23 22:00	NWTPH-Gx (MS)	
MW-10 (A3F1263-09)		Matrix: Water			Batch: 23F0759			
Gasoline Range Organics	ND	---	0.100	mg/L	1	06/21/23 15:34	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	97 %	Limits: 50-150 %	1	06/21/23 15:34	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			109 %	50-150 %	1	06/21/23 15:34	NWTPH-Gx (MS)	
MW-11 (A3F1263-10)		Matrix: Water			Batch: 23F0759			
Gasoline Range Organics	ND	---	0.100	mg/L	1	06/21/23 15:56	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	93 %	Limits: 50-150 %	1	06/21/23 15:56	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			109 %	50-150 %	1	06/21/23 15:56	NWTPH-Gx (MS)	
MW-12 (A3F1263-11)		Matrix: Water			Batch: 23F0759			
Gasoline Range Organics	ND	---	0.100	mg/L	1	06/21/23 16:19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	93 %	Limits: 50-150 %	1	06/21/23 16:19	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			109 %	50-150 %	1	06/21/23 16:19	NWTPH-Gx (MS)	
MW-13 (A3F1263-12)		Matrix: Water			Batch: 23F0759			
Gasoline Range Organics	ND	---	0.100	mg/L	1	06/21/23 16:42	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	96 %	Limits: 50-150 %	1	06/21/23 16:42	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			111 %	50-150 %	1	06/21/23 16:42	NWTPH-Gx (MS)	
MW-14 (A3F1263-13)		Matrix: Water			Batch: 23F0759			
Gasoline Range Organics	ND	---	0.100	mg/L	1	06/21/23 17:04	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	93 %	Limits: 50-150 %	1	06/21/23 17:04	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			111 %	50-150 %	1	06/21/23 17:04	NWTPH-Gx (MS)	
Trip Blank (A3F1263-14)		Matrix: Water			Batch: 23F0759			
Gasoline Range Organics	ND	---	0.100	mg/L	1	06/21/23 14:03	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	94 %	Limits: 50-150 %	1	06/21/23 14:03	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			105 %	50-150 %	1	06/21/23 14:03	NWTPH-Gx (MS)	

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ORELAP ID: OR100062Advanced Geo, Inc.
837 Shaw Road
Stockton, CA 95215Project: Pacific Highway Auto Care (PHAC)
Project Number: [none]
Project Manager: Brian MillmanReport ID:
A3F1263 - 07 03 23 1224

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1 (A3F1263-01)		Matrix: Water			Batch: 23F0714			
Benzene	ND	---	0.200	ug/L	1	06/20/23 14:09	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	06/20/23 14:09	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	06/20/23 14:09	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	06/20/23 14:09	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	06/20/23 14:09	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	06/20/23 14:09	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	06/20/23 14:09	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	06/20/23 14:09	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	06/20/23 14:09	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	06/20/23 14:09	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	06/20/23 14:09	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	96 %	Limits:	80-120 %	1	06/20/23 14:09	EPA 8260D
Toluene-d8 (Surr)			104 %		80-120 %	1	06/20/23 14:09	EPA 8260D
4-Bromofluorobenzene (Surr)			102 %		80-120 %	1	06/20/23 14:09	EPA 8260D
MW-2 (A3F1263-02)		Matrix: Water			Batch: 23F0714			
Benzene	ND	---	0.200	ug/L	1	06/20/23 14:31	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	06/20/23 14:31	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	06/20/23 14:31	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	06/20/23 14:31	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	06/20/23 14:31	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	06/20/23 14:31	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	06/20/23 14:31	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	06/20/23 14:31	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	06/20/23 14:31	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	06/20/23 14:31	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	06/20/23 14:31	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	95 %	Limits:	80-120 %	1	06/20/23 14:31	EPA 8260D
Toluene-d8 (Surr)			102 %		80-120 %	1	06/20/23 14:31	EPA 8260D
4-Bromofluorobenzene (Surr)			101 %		80-120 %	1	06/20/23 14:31	EPA 8260D
MW-3 (A3F1263-03)		Matrix: Water			Batch: 23F0714			
Benzene	ND	---	0.200	ug/L	1	06/20/23 14:54	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	06/20/23 14:54	EPA 8260D	

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503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: Pacific Highway Auto Care (PHAC)

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3F1263 - 07 03 23 1224

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-3 (A3F1263-03)		Matrix: Water			Batch: 23F0714			
Ethylbenzene	ND	---	0.500	ug/L	1	06/20/23 14:54	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	06/20/23 14:54	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	06/20/23 14:54	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	06/20/23 14:54	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	06/20/23 14:54	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	06/20/23 14:54	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	06/20/23 14:54	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	06/20/23 14:54	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	06/20/23 14:54	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	94 %	Limits:	80-120 %	1	06/20/23 14:54	EPA 8260D
Toluene-d8 (Surr)			102 %		80-120 %	1	06/20/23 14:54	EPA 8260D
4-Bromofluorobenzene (Surr)			102 %		80-120 %	1	06/20/23 14:54	EPA 8260D
MW-4 (A3F1263-04)		Matrix: Water			Batch: 23F0714			
Benzene	ND	---	0.200	ug/L	1	06/20/23 15:17	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	06/20/23 15:17	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	06/20/23 15:17	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	06/20/23 15:17	EPA 8260D	
Methyl tert-butyl ether (MTBE)	1.42	---	1.00	ug/L	1	06/20/23 15:17	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	06/20/23 15:17	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	06/20/23 15:17	EPA 8260D	
1,2-Dichloroethane (EDC)	3.15	---	0.500	ug/L	1	06/20/23 15:17	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	06/20/23 15:17	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	06/20/23 15:17	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	06/20/23 15:17	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	95 %	Limits:	80-120 %	1	06/20/23 15:17	EPA 8260D
Toluene-d8 (Surr)			103 %		80-120 %	1	06/20/23 15:17	EPA 8260D
4-Bromofluorobenzene (Surr)			102 %		80-120 %	1	06/20/23 15:17	EPA 8260D
MW-5 (A3F1263-05)		Matrix: Water			Batch: 23F0759			
Benzene	9360	---	40.0	ug/L	200	06/21/23 21:37	EPA 8260D	
Toluene	13100	---	200	ug/L	200	06/21/23 21:37	EPA 8260D	
Ethylbenzene	2020	---	100	ug/L	200	06/21/23 21:37	EPA 8260D	
Xylenes, total	12100	---	300	ug/L	200	06/21/23 21:37	EPA 8260D	

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Project: Pacific Highway Auto Care (PHAC)

Project Number: [none]

Project Manager: Brian Millman

Report ID:

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ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-5 (A3F1263-05)		Matrix: Water			Batch: 23F0759			
Methyl tert-butyl ether (MTBE)	ND	---	200	ug/L	200	06/21/23 21:37	EPA 8260D	
Naphthalene	ND	---	400	ug/L	200	06/21/23 21:37	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	100	ug/L	200	06/21/23 21:37	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	100	ug/L	200	06/21/23 21:37	EPA 8260D	
Isopropylbenzene	ND	---	200	ug/L	200	06/21/23 21:37	EPA 8260D	
1,2,4-Trimethylbenzene	1340	---	200	ug/L	200	06/21/23 21:37	EPA 8260D	
1,3,5-Trimethylbenzene	420	---	200	ug/L	200	06/21/23 21:37	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 92 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>06/21/23 21:37</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>06/21/23 21:37</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>06/21/23 21:37</i>	<i>EPA 8260D</i>	
MW-6 (A3F1263-06)		Matrix: Water			Batch: 23F0759			
Benzene	ND	---	0.200	ug/L	1	06/21/23 14:26	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	06/21/23 14:26	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	06/21/23 14:26	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	06/21/23 14:26	EPA 8260D	
Methyl tert-butyl ether (MTBE)	7.33	---	1.00	ug/L	1	06/21/23 14:26	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	06/21/23 14:26	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	06/21/23 14:26	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	06/21/23 14:26	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	06/21/23 14:26	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	06/21/23 14:26	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	06/21/23 14:26	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>06/21/23 14:26</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>06/21/23 14:26</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>	<i>1</i>	<i>06/21/23 14:26</i>	<i>EPA 8260D</i>	
MW-7 (A3F1263-07)		Matrix: Water			Batch: 23F0759			
Benzene	ND	---	0.200	ug/L	1	06/21/23 15:11	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	06/21/23 15:11	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	06/21/23 15:11	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	06/21/23 15:11	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	06/21/23 15:11	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	06/21/23 15:11	EPA 8260D	

Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: Pacific Highway Auto Care (PHAC)

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3F1263 - 07 03 23 1224

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-7 (A3F1263-07)		Matrix: Water			Batch: 23F0759			
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	06/21/23 15:11	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	06/21/23 15:11	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	06/21/23 15:11	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	06/21/23 15:11	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	06/21/23 15:11	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>06/21/23 15:11</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>	<i>1</i>	<i>06/21/23 15:11</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>105 %</i>		<i>80-120 %</i>	<i>1</i>	<i>06/21/23 15:11</i>	<i>EPA 8260D</i>	
MW-9 (A3F1263-08)		Matrix: Water			Batch: 23F0759			
Benzene	1730	---	20.0	ug/L	100	06/21/23 22:00	EPA 8260D	
Toluene	2990	---	100	ug/L	100	06/21/23 22:00	EPA 8260D	
Ethylbenzene	694	---	50.0	ug/L	100	06/21/23 22:00	EPA 8260D	
Xylenes, total	4480	---	150	ug/L	100	06/21/23 22:00	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	100	ug/L	100	06/21/23 22:00	EPA 8260D	
Naphthalene	ND	---	200	ug/L	100	06/21/23 22:00	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	50.0	ug/L	100	06/21/23 22:00	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	50.0	ug/L	100	06/21/23 22:00	EPA 8260D	
Isopropylbenzene	ND	---	100	ug/L	100	06/21/23 22:00	EPA 8260D	
1,2,4-Trimethylbenzene	547	---	100	ug/L	100	06/21/23 22:00	EPA 8260D	
1,3,5-Trimethylbenzene	202	---	100	ug/L	100	06/21/23 22:00	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 93 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>06/21/23 22:00</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>	<i>1</i>	<i>06/21/23 22:00</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>	<i>1</i>	<i>06/21/23 22:00</i>	<i>EPA 8260D</i>	
MW-10 (A3F1263-09)		Matrix: Water			Batch: 23F0759			
Benzene	ND	---	0.200	ug/L	1	06/21/23 15:34	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	06/21/23 15:34	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	06/21/23 15:34	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	06/21/23 15:34	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	06/21/23 15:34	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	06/21/23 15:34	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	06/21/23 15:34	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	06/21/23 15:34	EPA 8260D	

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: Pacific Highway Auto Care (PHAC)

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3F1263 - 07 03 23 1224

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-10 (A3F1263-09)		Matrix: Water			Batch: 23F0759			
Isopropylbenzene	ND	---	1.00	ug/L	1	06/21/23 15:34	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	06/21/23 15:34	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	06/21/23 15:34	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>06/21/23 15:34</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>	<i>1</i>	<i>06/21/23 15:34</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>106 %</i>		<i>80-120 %</i>	<i>1</i>	<i>06/21/23 15:34</i>	<i>EPA 8260D</i>	
MW-11 (A3F1263-10)		Matrix: Water			Batch: 23F0759			
Benzene	ND	---	0.200	ug/L	1	06/21/23 15:56	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	06/21/23 15:56	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	06/21/23 15:56	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	06/21/23 15:56	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	06/21/23 15:56	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	06/21/23 15:56	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	06/21/23 15:56	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	06/21/23 15:56	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	06/21/23 15:56	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	06/21/23 15:56	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	06/21/23 15:56	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>06/21/23 15:56</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>	<i>1</i>	<i>06/21/23 15:56</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>	<i>1</i>	<i>06/21/23 15:56</i>	<i>EPA 8260D</i>	
MW-12 (A3F1263-11)		Matrix: Water			Batch: 23F0759			
Benzene	ND	---	0.200	ug/L	1	06/21/23 16:19	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	06/21/23 16:19	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	06/21/23 16:19	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	06/21/23 16:19	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	06/21/23 16:19	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	06/21/23 16:19	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	06/21/23 16:19	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	06/21/23 16:19	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	06/21/23 16:19	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	06/21/23 16:19	EPA 8260D	

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: Pacific Highway Auto Care (PHAC)

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3F1263 - 07 03 23 1224

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-12 (A3F1263-11)		Matrix: Water			Batch: 23F0759			
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	06/21/23 16:19	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	96 %	Limits:	80-120 %	1	06/21/23 16:19	EPA 8260D
Toluene-d8 (Surr)			102 %		80-120 %	1	06/21/23 16:19	EPA 8260D
4-Bromofluorobenzene (Surr)			102 %		80-120 %	1	06/21/23 16:19	EPA 8260D
MW-13 (A3F1263-12)		Matrix: Water			Batch: 23F0759			
Benzene	ND	---	0.200	ug/L	1	06/21/23 16:42	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	06/21/23 16:42	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	06/21/23 16:42	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	06/21/23 16:42	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	06/21/23 16:42	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	06/21/23 16:42	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	06/21/23 16:42	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	06/21/23 16:42	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	06/21/23 16:42	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	06/21/23 16:42	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	06/21/23 16:42	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	97 %	Limits:	80-120 %	1	06/21/23 16:42	EPA 8260D
Toluene-d8 (Surr)			102 %		80-120 %	1	06/21/23 16:42	EPA 8260D
4-Bromofluorobenzene (Surr)			106 %		80-120 %	1	06/21/23 16:42	EPA 8260D
MW-14 (A3F1263-13)		Matrix: Water			Batch: 23F0759			
Benzene	ND	---	0.200	ug/L	1	06/21/23 17:04	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	06/21/23 17:04	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	06/21/23 17:04	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	06/21/23 17:04	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	06/21/23 17:04	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	06/21/23 17:04	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	06/21/23 17:04	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	06/21/23 17:04	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	06/21/23 17:04	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	06/21/23 17:04	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	06/21/23 17:04	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	99 %	Limits:	80-120 %	1	06/21/23 17:04	EPA 8260D

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: Pacific Highway Auto Care (PHAC)

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3F1263 - 07 03 23 1224

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-14 (A3F1263-13)				Matrix: Water		Batch: 23F0759		
Toluene-d8 (Surr)			103 %	80-120 %	1	06/21/23 17:04	EPA 8260D	
4-Bromofluorobenzene (Surr)			103 %	80-120 %	1	06/21/23 17:04	EPA 8260D	
Trip Blank (A3F1263-14)				Matrix: Water		Batch: 23F0759		
Benzene	ND	---	0.200	ug/L	1	06/21/23 14:03	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	06/21/23 14:03	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	06/21/23 14:03	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	06/21/23 14:03	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	06/21/23 14:03	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	06/21/23 14:03	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	06/21/23 14:03	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	06/21/23 14:03	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	06/21/23 14:03	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	06/21/23 14:03	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	06/21/23 14:03	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	98 %	Limits: 80-120 %	1	06/21/23 14:03	EPA 8260D	
Toluene-d8 (Surr)			100 %	80-120 %	1	06/21/23 14:03	EPA 8260D	
4-Bromofluorobenzene (Surr)			103 %	80-120 %	1	06/21/23 14:03	EPA 8260D	

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ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: Pacific Highway Auto Care (PHAC)

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3F1263 - 07 03 23 1224

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0714 - EPA 5030C												
Water												
Blank (23F0714-BLK1)												
Prepared: 06/20/23 10:17 Analyzed: 06/20/23 12:38												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 93 %	Limits: 50-150 %			Dilution: 1x					
1,4-Difluorobenzene (Sur)			109 %	50-150 %			"					
LCS (23F0714-BS2)												
Prepared: 06/20/23 10:17 Analyzed: 06/20/23 12:16												
NWTPH-Gx (MS)												
Gasoline Range Organics	0.577	---	0.100	mg/L	1	0.500	---	115	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 99 %	Limits: 50-150 %			Dilution: 1x					
1,4-Difluorobenzene (Sur)			107 %	50-150 %			"					
Duplicate (23F0714-DUP1)												
Prepared: 06/20/23 10:17 Analyzed: 06/20/23 13:46												
QC Source Sample: Non-SDG (A3F1261-02)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 96 %	Limits: 50-150 %			Dilution: 1x					
1,4-Difluorobenzene (Sur)			112 %	50-150 %			"					
Batch 23F0759 - EPA 5030C												
Water												
Blank (23F0759-BLK1)												
Prepared: 06/21/23 10:15 Analyzed: 06/21/23 13:41												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 89 %	Limits: 50-150 %			Dilution: 1x					
1,4-Difluorobenzene (Sur)			102 %	50-150 %			"					
LCS (23F0759-BS2)												
Prepared: 06/21/23 10:15 Analyzed: 06/21/23 13:05												
NWTPH-Gx (MS)												
Gasoline Range Organics	0.575	---	0.100	mg/L	1	0.500	---	115	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 100 %	Limits: 50-150 %			Dilution: 1x					
1,4-Difluorobenzene (Sur)			101 %	50-150 %			"					
Duplicate (23F0759-DUP1)												
Prepared: 06/21/23 10:15 Analyzed: 06/21/23 14:48												
QC Source Sample: MW-6 (A3F1263-06)												

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Darrell Auvil, Client Services Manager

**ANALYTICAL REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: **Pacific Highway Auto Care (PHAC)**

Project Number: [none]

Project Manager: **Brian Millman****Report ID:**

A3F1263 - 07 03 23 1224

QUALITY CONTROL (QC) SAMPLE RESULTS**Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0759 - EPA 5030C						Water						
Duplicate (23F0759-DUP1)			Prepared: 06/21/23 10:15 Analyzed: 06/21/23 14:48									
QC Source Sample: MW-6 (A3F1263-06)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 95 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		108 %		50-150 %		"						
Duplicate (23F0759-DUP2)			Prepared: 06/21/23 10:15 Analyzed: 06/21/23 17:50									
QC Source Sample: Non-SDG (A3F1254-06)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 96 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		111 %		50-150 %		"						

Apex Laboratories

Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: Pacific Highway Auto Care (PHAC)

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3F1263 - 07 03 23 1224

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0714 - EPA 5030C						Water						
Blank (23F0714-BLK1)			Prepared: 06/20/23 10:17 Analyzed: 06/20/23 12:38									
EPA 8260D												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 95 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		103 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		103 %		80-120 %		"						
LCS (23F0714-BS1)						Prepared: 06/20/23 10:17 Analyzed: 06/20/23 11:44						
EPA 8260D												
Benzene	19.2	---	0.200	ug/L	1	20.0	---	96	80-120%	---	---	
Toluene	20.1	---	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Ethylbenzene	21.4	---	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
Xylenes, total	68.4	---	1.50	ug/L	1	60.0	---	114	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	21.0	---	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
Naphthalene	16.6	---	2.00	ug/L	1	20.0	---	83	80-120%	---	---	
1,2-Dibromoethane (EDB)	20.4	---	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
1,2-Dichloroethane (EDC)	22.8	---	0.500	ug/L	1	20.0	---	114	80-120%	---	---	
Isopropylbenzene	19.0	---	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,2,4-Trimethylbenzene	20.8	---	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,3,5-Trimethylbenzene	23.0	---	1.00	ug/L	1	20.0	---	115	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 92 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		97 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		92 %		80-120 %		"						
Duplicate (23F0714-DUP1)						Prepared: 06/20/23 10:17 Analyzed: 06/20/23 13:46						

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: Pacific Highway Auto Care (PHAC)

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3F1263 - 07 03 23 1224

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0714 - EPA 5030C						Water						
Duplicate (23F0714-DUP1)			Prepared: 06/20/23 10:17 Analyzed: 06/20/23 13:46									
QC Source Sample: Non-SDG (A3F1261-02)												
Benzene	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Xylenes, total	ND	---	1.50	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 96 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		103 %		80-120 %		"						
Matrix Spike (23F0714-MS1)			Prepared: 06/20/23 10:17 Analyzed: 06/20/23 15:40									
QC Source Sample: MW-4 (A3F1263-04)												
EPA 8260D												
Benzene	21.3	---	0.200	ug/L	1	20.0	ND	106	79-120%	---	---	
Toluene	21.7	---	1.00	ug/L	1	20.0	ND	108	80-121%	---	---	
Ethylbenzene	22.9	---	0.500	ug/L	1	20.0	ND	114	79-121%	---	---	
Xylenes, total	73.2	---	1.50	ug/L	1	60.0	ND	122	79-121%	---	---	Q-01
Methyl tert-butyl ether (MTBE)	23.4	---	1.00	ug/L	1	20.0	1.42	110	71-124%	---	---	
Naphthalene	17.1	---	2.00	ug/L	1	20.0	ND	86	61-128%	---	---	
1,2-Dibromoethane (EDB)	20.9	---	0.500	ug/L	1	20.0	ND	105	77-121%	---	---	
1,2-Dichloroethane (EDC)	27.2	---	0.500	ug/L	1	20.0	3.15	120	73-128%	---	---	
Isopropylbenzene	21.0	---	1.00	ug/L	1	20.0	ND	105	72-131%	---	---	
1,2,4-Trimethylbenzene	21.9	---	1.00	ug/L	1	20.0	ND	109	76-124%	---	---	
1,3,5-Trimethylbenzene	24.3	---	1.00	ug/L	1	20.0	ND	122	75-124%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 93 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		90 %		80-120 %		"						

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: **Pacific Highway Auto Care (PHAC)**

Project Number: [none]

Project Manager: **Brian Millman****Report ID:**

A3F1263 - 07 03 23 1224

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0759 - EPA 5030C						Water						
Blank (23F0759-BLK1)			Prepared: 06/21/23 10:15 Analyzed: 06/21/23 13:41									
EPA 8260D												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		105 %		80-120 %		"						
LCS (23F0759-BS1)						Prepared: 06/21/23 10:15 Analyzed: 06/21/23 12:29						
EPA 8260D												
Benzene	20.1	---	0.200	ug/L	1	20.0	---	101	80-120%	---	---	
Toluene	20.0	---	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
Ethylbenzene	21.0	---	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
Xylenes, total	68.1	---	1.50	ug/L	1	60.0	---	113	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	20.6	---	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
Naphthalene	16.8	---	2.00	ug/L	1	20.0	---	84	80-120%	---	---	
1,2-Dibromoethane (EDB)	19.8	---	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
1,2-Dichloroethane (EDC)	21.9	---	0.500	ug/L	1	20.0	---	109	80-120%	---	---	
Isopropylbenzene	19.8	---	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
1,2,4-Trimethylbenzene	20.3	---	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
1,3,5-Trimethylbenzene	22.4	---	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		95 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		95 %		80-120 %		"						
Duplicate (23F0759-DUP1)						Prepared: 06/21/23 10:15 Analyzed: 06/21/23 14:48						

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: Pacific Highway Auto Care (PHAC)

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3F1263 - 07 03 23 1224

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0759 - EPA 5030C						Water						
Duplicate (23F0759-DUP1)			Prepared: 06/21/23 10:15		Analyzed: 06/21/23 14:48							
QC Source Sample: MW-6 (A3F1263-06)												
EPA 8260D												
Benzene	0.220	---	0.200	ug/L	1	---	0.120	---	---	59	30%	Q-05
Toluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Xylenes, total	ND	---	1.50	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	7.90	---	1.00	ug/L	1	---	7.33	---	---	7	30%	
Naphthalene	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		104 %		80-120 %		"						

Duplicate (23F0759-DUP2) Prepared: 06/21/23 10:15 Analyzed: 06/21/23 17:50

QC Source Sample: Non-SDG (A3F1254-06)

Benzene	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Xylenes, total	ND	---	1.50	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 95 % Limits: 80-120 % Dilution: 1x												
Toluene-d8 (Surr) 102 % 80-120 % "												
4-Bromofluorobenzene (Surr) 104 % 80-120 % "												

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: **Pacific Highway Auto Care (PHAC)**

Project Number: [none]

Project Manager: **Brian Millman****Report ID:**

A3F1263 - 07 03 23 1224

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0759 - EPA 5030C						Water						
Matrix Spike (23F0759-MS1)			Prepared: 06/21/23 10:15		Analyzed: 06/21/23 20:29							
QC Source Sample: Non-SDG (A3F1257-06)												
EPA 8260D												
Benzene	22.7	---	0.200	ug/L	1	20.0	0.190	112	79-120%	---	---	Q-01
Toluene	22.4	---	1.00	ug/L	1	20.0	ND	112	80-121%	---	---	
Ethylbenzene	23.5	---	0.500	ug/L	1	20.0	ND	117	79-121%	---	---	
Xylenes, total	75.6	---	1.50	ug/L	1	60.0	ND	126	79-121%	---	---	
Methyl tert-butyl ether (MTBE)	19.8	---	1.00	ug/L	1	20.0	ND	99	71-124%	---	---	
Naphthalene	17.8	---	2.00	ug/L	1	20.0	ND	89	61-128%	---	---	
1,2-Dibromoethane (EDB)	21.7	---	0.500	ug/L	1	20.0	ND	108	77-121%	---	---	
1,2-Dichloroethane (EDC)	27.5	---	0.500	ug/L	1	20.0	2.84	123	73-128%	---	---	
Isopropylbenzene	21.6	---	1.00	ug/L	1	20.0	ND	108	72-131%	---	---	
1,2,4-Trimethylbenzene	22.3	---	1.00	ug/L	1	20.0	ND	112	76-124%	---	---	
1,3,5-Trimethylbenzene	24.7	---	1.00	ug/L	1	20.0	ND	124	75-124%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		95 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		89 %		80-120 %		"						

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Darrell Auvil, Client Services Manager

Page 18 of 27

**ANALYTICAL REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: **Pacific Highway Auto Care (PHAC)**

Project Number: [none]

Project Manager: **Brian Millman****Report ID:****A3F1263 - 07 03 23 1224****SAMPLE PREPARATION INFORMATION****Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx****Prep: EPA 5030C**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23F0714							
A3F1263-01	Water	NWTPH-Gx (MS)	06/14/23 13:36	06/20/23 12:34	5mL/5mL	5mL/5mL	1.00
A3F1263-02	Water	NWTPH-Gx (MS)	06/14/23 14:08	06/20/23 12:34	5mL/5mL	5mL/5mL	1.00
A3F1263-03	Water	NWTPH-Gx (MS)	06/14/23 11:13	06/20/23 12:34	5mL/5mL	5mL/5mL	1.00
A3F1263-04	Water	NWTPH-Gx (MS)	06/14/23 11:43	06/20/23 12:34	5mL/5mL	5mL/5mL	1.00
Batch: 23F0759							
A3F1263-05	Water	NWTPH-Gx (MS)	06/15/23 08:14	06/21/23 10:15	5mL/5mL	5mL/5mL	1.00
A3F1263-06	Water	NWTPH-Gx (MS)	06/15/23 07:41	06/21/23 10:15	5mL/5mL	5mL/5mL	1.00
A3F1263-07	Water	NWTPH-Gx (MS)	06/14/23 12:56	06/21/23 10:15	5mL/5mL	5mL/5mL	1.00
A3F1263-08	Water	NWTPH-Gx (MS)	06/14/23 10:33	06/21/23 10:15	5mL/5mL	5mL/5mL	1.00
A3F1263-09	Water	NWTPH-Gx (MS)	06/14/23 10:01	06/21/23 10:15	5mL/5mL	5mL/5mL	1.00
A3F1263-10	Water	NWTPH-Gx (MS)	06/14/23 08:46	06/21/23 10:15	5mL/5mL	5mL/5mL	1.00
A3F1263-11	Water	NWTPH-Gx (MS)	06/14/23 09:16	06/21/23 10:15	5mL/5mL	5mL/5mL	1.00
A3F1263-12	Water	NWTPH-Gx (MS)	06/15/23 08:58	06/21/23 10:15	5mL/5mL	5mL/5mL	1.00
A3F1263-13	Water	NWTPH-Gx (MS)	06/15/23 09:31	06/21/23 10:15	5mL/5mL	5mL/5mL	1.00
A3F1263-14	Water	NWTPH-Gx (MS)	06/14/23 00:00	06/21/23 10:15	5mL/5mL	5mL/5mL	1.00

Selected Volatile Organic Compounds by EPA 8260D**Prep: EPA 5030C**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23F0714							
A3F1263-01	Water	EPA 8260D	06/14/23 13:36	06/20/23 12:34	5mL/5mL	5mL/5mL	1.00
A3F1263-02	Water	EPA 8260D	06/14/23 14:08	06/20/23 12:34	5mL/5mL	5mL/5mL	1.00
A3F1263-03	Water	EPA 8260D	06/14/23 11:13	06/20/23 12:34	5mL/5mL	5mL/5mL	1.00
A3F1263-04	Water	EPA 8260D	06/14/23 11:43	06/20/23 12:34	5mL/5mL	5mL/5mL	1.00
Batch: 23F0759							
A3F1263-05	Water	EPA 8260D	06/15/23 08:14	06/21/23 10:15	5mL/5mL	5mL/5mL	1.00
A3F1263-06	Water	EPA 8260D	06/15/23 07:41	06/21/23 10:15	5mL/5mL	5mL/5mL	1.00
A3F1263-07	Water	EPA 8260D	06/14/23 12:56	06/21/23 10:15	5mL/5mL	5mL/5mL	1.00
A3F1263-08	Water	EPA 8260D	06/14/23 10:33	06/21/23 10:15	5mL/5mL	5mL/5mL	1.00
A3F1263-09	Water	EPA 8260D	06/14/23 10:01	06/21/23 10:15	5mL/5mL	5mL/5mL	1.00
A3F1263-10	Water	EPA 8260D	06/14/23 08:46	06/21/23 10:15	5mL/5mL	5mL/5mL	1.00
A3F1263-11	Water	EPA 8260D	06/14/23 09:16	06/21/23 10:15	5mL/5mL	5mL/5mL	1.00
A3F1263-12	Water	EPA 8260D	06/15/23 08:58	06/21/23 10:15	5mL/5mL	5mL/5mL	1.00
A3F1263-13	Water	EPA 8260D	06/15/23 09:31	06/21/23 10:15	5mL/5mL	5mL/5mL	1.00

Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Advanced Geo, Inc.
837 Shaw Road
Stockton, CA 95215

Project: **Pacific Highway Auto Care (PHAC)**
Project Number: [none]
Project Manager: **Brian Millman**

Report ID:
A3F1263 - 07 03 23 1224

SAMPLE PREPARATION INFORMATION

Selected Volatile Organic Compounds by EPA 8260D

Prep: EPA 5030C

					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
A3F1263-14	Water	EPA 8260D	06/14/23 00:00	06/21/23 10:15	5mL/5mL	5mL/5mL	1.00

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A3F1263 - 07 03 23 1224

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-05** Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.

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Project Number: [none]
Project Manager: **Brian Millman**

Report ID:
A3F1263 - 07 03 23 1224

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ("-----"), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories

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503-718-2323

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Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: **Pacific Highway Auto Care (PHAC)**

Project Number: [none]

Project Manager: **Brian Millman**

Report ID:

A3F1263 - 07 03 23 1224

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

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Darrell Auvi, Client Services Manager



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503-718-2323

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837 Shaw Road

Stockton, CA 95215

Project: **Pacific Highway Auto Care (PHAC)**

Project Number: [none]

Project Manager: **Brian Millman**

Report ID:

A3F1263 - 07 03 23 1224

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -

EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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837 Shaw Road

Stockton, CA 95215

Project: Pacific Highway Auto Care (PHAC)

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3F1263 - 07 03 23 1224

APEX LABS
6700 SW Sandburg St., Tigard, OR 97223 PH: 503-718-2323

CHAIN OF CUSTODY

Lab # A3F1263 coc 1 of 2

Company: Advanced Geo, Inc. Project Mgr: Brian Millman Project Name: Pacific Highway Auto Care

Address: 112 Pacific Ave N, Monticello, OR Phone: 800-511-1300 Email: BMillman@AdvancedGeo.com

Sampled by: KL

Site Location: State OR County _____

SAMPLE ID

	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCD	NWTPH-DX	NWTPH-GX	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	RCRA Metals (8)	Priority Metals (13)	AL, Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, TL, V, Zn	TOTAL DISS. TCLP	TCLP Metals (9)	Hold Sample	Frozen Archive	
MW-1	6/14/2023	1336	103	3			X		X														
MW-2	6/14/2023	1408	1				X		X														
MW-3	6/14/2023	1113	1				X		X														
MW-4	6/14/2023	1143	1				X		X														
MW-5	6/15/2023	0814	1				X		X														
MW-6	6/15/2023	0741	1				X		X														
MW-7	6/14/2023	1456	1				X		X														
MW-9	6/14/2023	1033	1				X		X														
MW-10	6/14/2023	1001	1				X		X														
MW-11	6/14/2023	0846	1				X		X														

Standard Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 5 Day Standard Other: _____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: [Signature] Date: 6/16/23
Printed Name: Keith Lindgren Time: 900
Company: AG

RECEIVED BY: Signature: [Signature] Date: 6-16-23
Printed Name: Doug Selzer Time: 900
Company: Apex

SPECIAL INSTRUCTIONS:

Form Y-002 R-00

Apex Laboratories

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ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: Pacific Highway Auto Care (PHAC)

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3F1263 - 07 03 23 1224

APEX LABS COOLER RECEIPT FORM

Client: Advanced Geo Element WO#: A3F1263

Project/Project #: PHAC (Pacific Highway Auto Care)

Delivery Info:

Date/time received: 6-16-23 @ 900 By: DJS

Delivered by: Apex Client ☒ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐

Cooler Inspection Date/time inspected: 6-16-23 @ 903 By: DJS

Chain of Custody included? Yes ☒ No ☐Signed/dated by client? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	2.3						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	N						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐

Sample Inspection: Date/time inspected: 6/19/23 @ 11:25 By: APW

All samples intact? Yes ☒ No ☐ Comments:Bottle labels/COCs agree? Yes ☒ No ☐ Comments:COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments:Do VOA vials have visible headspace? Yes ☐ No ☒ NA ☐

Comments: MW-7 3/3 have seal.

Water samples: pH checked: Yes ☐ No ☐ NA ☒ pH appropriate? Yes ☐ No ☐ NA ☒

Comments:

Additional information: #3316

Labeled by: [Signature]

Witness: [Signature]

Cooler Inspected by: [Signature]

Form V-003 R-00

Apex Laboratories

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[Signature]

Darrell Auvil, Client Services Manager

Page 27 of 27



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Friday, May 26, 2023

Brian Millman
Advanced Geo, Inc.
837 Shaw Road
Stockton, CA 95215

RE: A3E1586 - Monmouth Public Works - [none]

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3E1586, which was received by the laboratory on 5/22/2023 at 11:30:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler

5.6 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Advanced Geo, Inc.
837 Shaw Road
Stockton, CA 95215

Project: Monmouth Public Works
Project Number: [none]
Project Manager: Brian Millman

Report ID:
A3E1586 - 05 26 23 1112

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WWW	A3E1586-01	Water	05/22/23 10:10	05/22/23 11:30
WP-2	A3E1586-02	Water	05/22/23 10:15	05/22/23 11:30

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837 Shaw Road

Stockton, CA 95215

Project: Monmouth Public Works

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3E1586 - 05 26 23 1112

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WWW (A3E1586-01)				Matrix: Water		Batch: 23E0966		
Gasoline Range Organics	ND	---	0.100	mg/L	1	05/23/23 15:28	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	97 %	Limits:	50-150 %	1	05/23/23 15:28	NWTPH-Gx (MS)
1,4-Difluorobenzene (Sur)			101 %		50-150 %	1	05/23/23 15:28	NWTPH-Gx (MS)
WP-2 (A3E1586-02)				Matrix: Water		Batch: 23E0966		
Gasoline Range Organics	ND	---	0.100	mg/L	1	05/23/23 15:00	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	96 %	Limits:	50-150 %	1	05/23/23 15:00	NWTPH-Gx (MS)
1,4-Difluorobenzene (Sur)			100 %		50-150 %	1	05/23/23 15:00	NWTPH-Gx (MS)

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837 Shaw Road

Stockton, CA 95215

Project: Monmouth Public Works

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3E1586 - 05 26 23 1112

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WWW (A3E1586-01)		Matrix: Water		Batch: 23E0966				
Benzene	ND	---	0.200	ug/L	1	05/23/23 15:28	EPA 8260D	
Toluene	8.68	---	1.00	ug/L	1	05/23/23 15:28	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	05/23/23 15:28	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	05/23/23 15:28	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	05/23/23 15:28	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	05/23/23 15:28	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	05/23/23 15:28	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	05/23/23 15:28	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	05/23/23 15:28	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	05/23/23 15:28	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	05/23/23 15:28	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>05/23/23 15:28</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>	<i>1</i>	<i>05/23/23 15:28</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>	<i>1</i>	<i>05/23/23 15:28</i>	<i>EPA 8260D</i>	
WP-2 (A3E1586-02)		Matrix: Water		Batch: 23E0966				
Benzene	ND	---	0.200	ug/L	1	05/23/23 15:00	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	05/23/23 15:00	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	05/23/23 15:00	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	05/23/23 15:00	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	05/23/23 15:00	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	05/23/23 15:00	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	05/23/23 15:00	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	05/23/23 15:00	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	05/23/23 15:00	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	05/23/23 15:00	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	05/23/23 15:00	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>05/23/23 15:00</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>	<i>1</i>	<i>05/23/23 15:00</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>	<i>1</i>	<i>05/23/23 15:00</i>	<i>EPA 8260D</i>	

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: Monmouth Public Works

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3E1586 - 05 26 23 1112

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0966 - EPA 5030C						Water						
Blank (23E0966-BLK1)		Prepared: 05/23/23 11:00 Analyzed: 05/23/23 12:44										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 94 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		98 %		50-150 %		"						
LCS (23E0966-BS2)		Prepared: 05/23/23 11:00 Analyzed: 05/23/23 12:17										
NWTPH-Gx (MS)												
Gasoline Range Organics	0.463	---	0.100	mg/L	1	0.500	---	93	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 95 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		98 %		50-150 %		"						

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ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: Monmouth Public Works

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3E1586 - 05 26 23 1112

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0966 - EPA 5030C						Water						
Blank (23E0966-BLK1)		Prepared: 05/23/23 11:00 Analyzed: 05/23/23 12:44										
EPA 8260D												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		106 %		80-120 %		"						
LCS (23E0966-BS1)		Prepared: 05/23/23 11:00 Analyzed: 05/23/23 11:12										
EPA 8260D												
Benzene	19.5	---	0.200	ug/L	1	20.0	---	98	80 - 120%	---	---	
Toluene	19.4	---	1.00	ug/L	1	20.0	---	97	80 - 120%	---	---	
Ethylbenzene	20.5	---	0.500	ug/L	1	20.0	---	102	80 - 120%	---	---	
Xylenes, total	62.5	---	1.50	ug/L	1	60.0	---	104	80 - 120%	---	---	
Methyl tert-butyl ether (MTBE)	20.3	---	1.00	ug/L	1	20.0	---	101	80 - 120%	---	---	
Naphthalene	19.4	---	2.00	ug/L	1	20.0	---	97	80 - 120%	---	---	
1,2-Dibromoethane (EDB)	21.4	---	0.500	ug/L	1	20.0	---	107	80 - 120%	---	---	
1,2-Dichloroethane (EDC)	20.2	---	0.500	ug/L	1	20.0	---	101	80 - 120%	---	---	
Isopropylbenzene	21.5	---	1.00	ug/L	1	20.0	---	107	80 - 120%	---	---	
1,2,4-Trimethylbenzene	22.1	---	1.00	ug/L	1	20.0	---	110	80 - 120%	---	---	
1,3,5-Trimethylbenzene	21.2	---	1.00	ug/L	1	20.0	---	106	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		97 %		80-120 %		"						

Apex Laboratories

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Darrell Auvil, Client Services Manager

**ANALYTICAL REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: **Monmouth Public Works**

Project Number: [none]

Project Manager: **Brian Millman****Report ID:****A3E1586 - 05 26 23 1112****SAMPLE PREPARATION INFORMATION****Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx****Prep: EPA 5030C**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0966							
A3E1586-01	Water	NWTPH-Gx (MS)	05/22/23 10:10	05/23/23 11:00	5mL/5mL	5mL/5mL	1.00
A3E1586-02	Water	NWTPH-Gx (MS)	05/22/23 10:15	05/23/23 11:00	5mL/5mL	5mL/5mL	1.00

Selected Volatile Organic Compounds by EPA 8260D**Prep: EPA 5030C**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0966							
A3E1586-01	Water	EPA 8260D	05/22/23 10:10	05/23/23 11:00	5mL/5mL	5mL/5mL	1.00
A3E1586-02	Water	EPA 8260D	05/22/23 10:15	05/23/23 11:00	5mL/5mL	5mL/5mL	1.00

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ANALYTICAL REPORT

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Stockton, CA 95215

Project: Monmouth Public Works

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3E1586 - 05 26 23 1112

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

There are No Qualifiers on Sample or QC Data for this report

Apex Laboratories

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ANALYTICAL REPORT

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Project: **Monmouth Public Works**
Project Number: [none]
Project Manager: **Brian Millman**

Report ID:
A3E1586 - 05 26 23 1112

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported.
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

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Advanced Geo, Inc.
837 Shaw Road
Stockton, CA 95215

Project: **Monmouth Public Works**
Project Number: [none]
Project Manager: **Brian Millman**

Report ID:
A3E1586 - 05 26 23 1112

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: **Monmouth Public Works**

Project Number: [none]

Project Manager: **Brian Millman**

Report ID:

A3E1586 - 05 26 23 1112

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation)

EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

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503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: Monmouth Public Works

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3E1586 - 05 26 23 1112

APEX LABS COOLER RECEIPT FORM

Client: Advanced Geo, Inc. Element WO#: A3E1586

Project/Project #: Monmouth Public Works

Delivery Info:

Date/time received: 5/22/23 @ 11:30 By: AAW

Delivered by: Apex Client ESS ☒ FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 5/22/23 @ 11:32 By: AAW

Chain of Custody included? Yes ☒ NoSigned/dated by client? Yes ☒ No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	5.6						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	N						
Ice type: (Gel/Real/Other)	Gel						
Condition (In/Out):	In						

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes ☒ NoOut of temperature samples form initiated? Yes ☒ No

Sample Inspection: Date/time inspected: 5/22/23 @ 11:45 By: ZAM

All samples intact? Yes ☒ No Comments:Bottle labels/COCs agree? Yes ☒ No Comments:COC/container discrepancies form initiated? Yes No ☒Containers/volumes received appropriate for analysis? Yes ☒ No Comments:Do VOA vials have visible headspace? Yes No ☒ NA ☒ ZAM 5/22/23

Comments:

Water samples: pH checked: Yes No NA ☒ pH appropriate? Yes No NA ☒

Comments:

Additional information:

Labeled by:

ZAM

Witness:

DJJ

Cooler Inspected by:

ZAM

Form Y-003 R-00

Apex Laboratories

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Darrell Auvil, Client Services Manager

Page 13 of 13



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Monday, July 3, 2023

Brian Millman
Advanced Geo, Inc.
837 Shaw Road
Stockton, CA 95215

RE: A3F1261 - Pacific Highway Auto Care (PHAC) - [none]

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3F1261, which was received by the laboratory on 6/16/2023 at 9:00:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler 2.3 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Advanced Geo, Inc.
837 Shaw Road
Stockton, CA 95215

Project: Pacific Highway Auto Care (PHAC)
Project Number: [none]
Project Manager: Brian Millman

Report ID:
A3F1261 - 07 03 23 1218

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WWW	A3F1261-01	Water	06/15/23 10:40	06/16/23 09:00
WP-2	A3F1261-02	Water	06/15/23 10:27	06/16/23 09:00

Apex Laboratories

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: Pacific Highway Auto Care (PHAC)

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3F1261 - 07 03 23 1218

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WWW (A3F1261-01)		Matrix: Water			Batch: 23F0714			
Gasoline Range Organics	ND	---	0.100	mg/L	1	06/20/23 13:01	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	103 %	Limits: 50-150 %	1	06/20/23 13:01	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			110 %	50-150 %	1	06/20/23 13:01	NWTPH-Gx (MS)	
WP-2 (A3F1261-02)		Matrix: Water			Batch: 23F0714			
Gasoline Range Organics	ND	---	0.100	mg/L	1	06/20/23 13:24	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	97 %	Limits: 50-150 %	1	06/20/23 13:24	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			112 %	50-150 %	1	06/20/23 13:24	NWTPH-Gx (MS)	

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: Pacific Highway Auto Care (PHAC)

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3F1261 - 07 03 23 1218

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WWW (A3F1261-01)		Matrix: Water			Batch: 23F0714			
Benzene	ND	---	0.200	ug/L	1	06/20/23 13:01	EPA 8260D	
Toluene	2.12	---	1.00	ug/L	1	06/20/23 13:01	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	06/20/23 13:01	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	06/20/23 13:01	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	06/20/23 13:01	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	06/20/23 13:01	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	06/20/23 13:01	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	06/20/23 13:01	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	06/20/23 13:01	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	06/20/23 13:01	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	06/20/23 13:01	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	95 %	Limits:	80-120 %	1	06/20/23 13:01	EPA 8260D
Toluene-d8 (Surr)			106 %		80-120 %	1	06/20/23 13:01	EPA 8260D
4-Bromofluorobenzene (Surr)			103 %		80-120 %	1	06/20/23 13:01	EPA 8260D
WP-2 (A3F1261-02)		Matrix: Water			Batch: 23F0714			
Benzene	ND	---	0.200	ug/L	1	06/20/23 13:24	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	06/20/23 13:24	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	06/20/23 13:24	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	06/20/23 13:24	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	06/20/23 13:24	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	06/20/23 13:24	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	06/20/23 13:24	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	06/20/23 13:24	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	06/20/23 13:24	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	06/20/23 13:24	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	06/20/23 13:24	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	96 %	Limits:	80-120 %	1	06/20/23 13:24	EPA 8260D
Toluene-d8 (Surr)			102 %		80-120 %	1	06/20/23 13:24	EPA 8260D
4-Bromofluorobenzene (Surr)			103 %		80-120 %	1	06/20/23 13:24	EPA 8260D

Apex Laboratories

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Darrell Auvil, Client Services Manager

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Advanced Geo, Inc.**
837 Shaw Road
Stockton, CA 95215Project: **Pacific Highway Auto Care (PHAC)**
Project Number: [none]
Project Manager: **Brian Millman****Report ID:**
A3F1261 - 07 03 23 1218**QUALITY CONTROL (QC) SAMPLE RESULTS****Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0714 - EPA 5030C						Water						
Blank (23F0714-BLK1)			Prepared: 06/20/23 10:17 Analyzed: 06/20/23 12:38									
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 93 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		109 %		50-150 %		"						
LCS (23F0714-BS2)			Prepared: 06/20/23 10:17 Analyzed: 06/20/23 12:16									
NWTPH-Gx (MS)												
Gasoline Range Organics	0.577	---	0.100	mg/L	1	0.500	---	115	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 99 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		107 %		50-150 %		"						
Duplicate (23F0714-DUP1)			Prepared: 06/20/23 10:17 Analyzed: 06/20/23 13:46									
QC Source Sample: WP-2 (A3F1261-02)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 96 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		112 %		50-150 %		"						

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: Pacific Highway Auto Care (PHAC)

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3F1261 - 07 03 23 1218

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0714 - EPA 5030C						Water						
Blank (23F0714-BLK1)			Prepared: 06/20/23 10:17 Analyzed: 06/20/23 12:38									
EPA 8260D												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 95 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		103 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		103 %		80-120 %		"						
LCS (23F0714-BS1)						Prepared: 06/20/23 10:17 Analyzed: 06/20/23 11:44						
EPA 8260D												
Benzene	19.2	---	0.200	ug/L	1	20.0	---	96	80-120%	---	---	
Toluene	20.1	---	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Ethylbenzene	21.4	---	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
Xylenes, total	68.4	---	1.50	ug/L	1	60.0	---	114	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	21.0	---	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
Naphthalene	16.6	---	2.00	ug/L	1	20.0	---	83	80-120%	---	---	
1,2-Dibromoethane (EDB)	20.4	---	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
1,2-Dichloroethane (EDC)	22.8	---	0.500	ug/L	1	20.0	---	114	80-120%	---	---	
Isopropylbenzene	19.0	---	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,2,4-Trimethylbenzene	20.8	---	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,3,5-Trimethylbenzene	23.0	---	1.00	ug/L	1	20.0	---	115	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 92 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		97 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		92 %		80-120 %		"						
Duplicate (23F0714-DUP1)						Prepared: 06/20/23 10:17 Analyzed: 06/20/23 13:46						

Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: Pacific Highway Auto Care (PHAC)

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3F1261 - 07 03 23 1218

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0714 - EPA 5030C						Water						
Duplicate (23F0714-DUP1)			Prepared: 06/20/23 10:17 Analyzed: 06/20/23 13:46									
QC Source Sample: WP-2 (A3F1261-02)												
EPA 8260D												
Benzene	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Xylenes, total	ND	---	1.50	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)			Recovery: 96 %	Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)			102 %	80-120 %		"						
4-Bromofluorobenzene (Surr)			103 %	80-120 %		"						
Matrix Spike (23F0714-MS1)						Prepared: 06/20/23 10:17 Analyzed: 06/20/23 15:40						
QC Source Sample: Non-SDG (A3F1263-04)												
EPA 8260D												
Benzene	21.3	---	0.200	ug/L	1	20.0	ND	106	79-120%	---	---	
Toluene	21.7	---	1.00	ug/L	1	20.0	ND	108	80-121%	---	---	
Ethylbenzene	22.9	---	0.500	ug/L	1	20.0	ND	114	79-121%	---	---	
Xylenes, total	73.2	---	1.50	ug/L	1	60.0	ND	122	79-121%	---	---	Q-01
Methyl tert-butyl ether (MTBE)	23.4	---	1.00	ug/L	1	20.0	1.42	110	71-124%	---	---	
Naphthalene	17.1	---	2.00	ug/L	1	20.0	ND	86	61-128%	---	---	
1,2-Dibromoethane (EDB)	20.9	---	0.500	ug/L	1	20.0	ND	105	77-121%	---	---	
1,2-Dichloroethane (EDC)	27.2	---	0.500	ug/L	1	20.0	3.15	120	73-128%	---	---	
Isopropylbenzene	21.0	---	1.00	ug/L	1	20.0	ND	105	72-131%	---	---	
1,2,4-Trimethylbenzene	21.9	---	1.00	ug/L	1	20.0	ND	109	76-124%	---	---	
1,3,5-Trimethylbenzene	24.3	---	1.00	ug/L	1	20.0	ND	122	75-124%	---	---	
Surr: 1,4-Difluorobenzene (Surr)			Recovery: 93 %	Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)			98 %	80-120 %		"						

Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: Pacific Highway Auto Care (PHAC)

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3F1261 - 07 03 23 1218

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0714 - EPA 5030C							Water					
Matrix Spike (23F0714-MS1)			Prepared: 06/20/23 10:17 Analyzed: 06/20/23 15:40									
<u>QC Source Sample: Non-SDG (A3F1263-04)</u>												
Surr: 4-Bromofluorobenzene (Surr)				Recovery: 90 %		Limits: 80-120 %		Dilution: 1x				

Apex Laboratories

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Darrell Auvil, Client Services Manager

**ANALYTICAL REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: **Pacific Highway Auto Care (PHAC)**

Project Number: [none]

Project Manager: **Brian Millman****Report ID:****A3F1261 - 07 03 23 1218****SAMPLE PREPARATION INFORMATION****Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx**Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23F0714</u>							
A3F1261-01	Water	NWTPH-Gx (MS)	06/15/23 10:40	06/20/23 12:34	5mL/5mL	5mL/5mL	1.00
A3F1261-02	Water	NWTPH-Gx (MS)	06/15/23 10:27	06/20/23 12:34	5mL/5mL	5mL/5mL	1.00

Selected Volatile Organic Compounds by EPA 8260DPrep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23F0714</u>							
A3F1261-01	Water	EPA 8260D	06/15/23 10:40	06/20/23 12:34	5mL/5mL	5mL/5mL	1.00
A3F1261-02	Water	EPA 8260D	06/15/23 10:27	06/20/23 12:34	5mL/5mL	5mL/5mL	1.00

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837 Shaw Road
Stockton, CA 95215

Project: Pacific Highway Auto Care (PHAC)
Project Number: [none]
Project Manager: Brian Millman

Report ID:
A3F1261 - 07 03 23 1218

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

Q-01 Spike recovery and/or RPD is outside acceptance limits.

Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Advanced Geo, Inc.
837 Shaw Road
Stockton, CA 95215

Project: **Pacific Highway Auto Care (PHAC)**
Project Number: [none]
Project Manager: **Brian Millman**

Report ID:
A3F1261 - 07 03 23 1218

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ("-----"), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

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ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: **Pacific Highway Auto Care (PHAC)**

Project Number: [none]

Project Manager: **Brian Millman**

Report ID:

A3F1261 - 07 03 23 1218

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Advanced Geo, Inc.
837 Shaw Road
Stockton, CA 95215

Project: **Pacific Highway Auto Care (PHAC)**
Project Number: [none]
Project Manager: **Brian Millman**

Report ID:
A3F1261 - 07 03 23 1218

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -
EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Advanced Geo, Inc.
837 Shaw Road
Stockton, CA 95215

Project: Pacific Highway Auto Care (PHAC)
Project Number: [none]
Project Manager: Brian Millman

Report ID:
A3F1261 - 07 03 23 1218

CHAIN OF CUSTODY

Lab # A3F1261 coc 1 of 1

APEX LABS
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

Company: Advanced Geo, Inc. Project Mgr: Brian Millman Project Name: PHAC
Address: 837 Shaw Road Phone: 800-511-9308 Email: Brian.Millman@AdvancedGeo.com

Sampled by: KL
Site Location: State OR County (2023)

SAMPLE ID
WNW
WP-2

DATE
6/15/2023
6/15/2023

TIME
1040
1027

MATRIX
3
3

OF CONTAINERS
3
3

ANALYSIS REQUEST
Priority Metals (13)
RCRA Metals (8)
8081 Pesticides
8082 PCBs
8270 Semi-Vols Full List
8270 SIM PAHs
8260 VOCs Full List
8260 Halo VOCs
8260 RBDM VOCs
8260 BTEX
NMTPH-GX
NMTPH-DX
NMTPH-ACID

TOTAL DISC.
Se, Ag, Na, TL, V, Zn
Hg, Mg, Mn, Mo, Ni, K,
Ca, Cr, Co, Cu, Fe, Pb,
Al, Sb, As, Ba, Be, Cd,
TCLP Metals (8)

Hold Sample
Frozen Archive

SPECIAL INSTRUCTIONS:
Standard Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle)
1 Day 2 Day 3 Day 5 Day Standard Other:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:
Signature: [Signature] Date: 6/16/23
Printed Name: Kirk Lindgren Time: 900
Company: AGI

RECEIVED BY:
Signature: [Signature] Date: 6-16-23
Printed Name: [Signature] Time: 900
Company: AGI

Form Y-002 R-00

Apex Laboratories

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

[Signature]

Darrell Auvel, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: Pacific Highway Auto Care (PHAC)

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3F1261 - 07 03 23 1218

APEX LABS COOLER RECEIPT FORM

Client: Advanced Geo Element WO#: A3F1261

Project/Project #: PHAC (Pacific Highway Auto Care)

Delivery Info:

Date/time received: 6-16-23 @ 900 By: DJS

Delivered by: Apex Client ☒ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other

Cooler Inspection Date/time inspected: 6-16-23 @ 903 By: DJS

Chain of Custody included? Yes ☒ NoSigned/dated by client? Yes ☒ No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	2.3						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	N						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes ☒ NoOut of temperature samples form initiated? Yes ☒ No

Sample Inspection: Date/time inspected: 6/16/23 @ 11:12 By: RHP

All samples intact? Yes ☒ No Comments:Bottle labels/COCs agree? Yes ☒ No Comments:COC/container discrepancies form initiated? Yes No ☒Containers/volumes received appropriate for analysis? Yes ☒ No Comments:Do VOA vials have visible headspace? Yes No ☒ NA

Comments 313 Sedl for WP-2

Water samples: pH checked: Yes No NA ☒ pH appropriate? Yes No NA ☒

Comments:

Additional information:

Labeled by:

RHP

Witness:

DJS

Cooler Inspected by:

RHP

Form Y-003 R-00

Apex Laboratories

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Darrell Auvin, Client Services Manager

Page 15 of 15



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Tuesday, August 1, 2023

Brian Millman
Advanced Geo, Inc.
837 Shaw Road
Stockton, CA 95215

RE: A3G1260 - Monmouth Public Works - [none]

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3G1260, which was received by the laboratory on 7/18/2023 at 11:38:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: akepa@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler

5.3 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

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Anissa Kepa For Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Advanced Geo, Inc.
837 Shaw Road
Stockton, CA 95215

Project: Monmouth Public Works
Project Number: [none]
Project Manager: Brian Millman

Report ID:
A3G1260 - 08 01 23 1215

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WWW	A3G1260-01	Water	07/17/23 10:05	07/18/23 11:38

Apex Laboratories

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Anissa Kepa For Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: Monmouth Public Works

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3G1260 - 08 01 23 1215

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WWW (A3G1260-01)				Matrix: Water		Batch: 23G0622		V-01
Gasoline Range Organics	ND	---	0.100	mg/L	1	07/21/23 13:46	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	94 %	Limits:	50-150 %	1	07/21/23 13:46	NWTPH-Gx (MS)
1,4-Difluorobenzene (Sur)			102 %		50-150 %	1	07/21/23 13:46	NWTPH-Gx (MS)

Apex Laboratories

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Anissa Kepa For Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: Monmouth Public Works

Project Number: [none]

Project Manager: Brian Millman

Report ID:

A3G1260 - 08 01 23 1215

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WWW (A3G1260-01)				Matrix: Water		Batch: 23G0622		V-01
Benzene	ND	---	0.250	ug/L	1	07/21/23 13:46	EPA 8260D	
Toluene	1.27	---	1.00	ug/L	1	07/21/23 13:46	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	07/21/23 13:46	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	07/21/23 13:46	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	07/21/23 13:46	EPA 8260D	
Naphthalene	ND	---	4.00	ug/L	1	07/21/23 13:46	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	07/21/23 13:46	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	07/21/23 13:46	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	07/21/23 13:46	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	07/21/23 13:46	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	07/21/23 13:46	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>102 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>1</i>	<i>07/21/23 13:46</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>			<i>103 %</i>		<i>80-120 %</i>	<i>1</i>	<i>07/21/23 13:46</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>07/21/23 13:46</i>	<i>EPA 8260D</i>

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ORELAP ID: OR100062

Advanced Geo, Inc.

837 Shaw Road

Stockton, CA 95215

Project: **Monmouth Public Works**

Project Number: [none]

Project Manager: **Brian Millman****Report ID:**

A3G1260 - 08 01 23 1215

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0622 - EPA 5030C						Water						
Blank (23G0622-BLK1)		Prepared: 07/21/23 08:47 Analyzed: 07/21/23 11:09										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 93 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		99 %		50-150 %		"						
LCS (23G0622-BS2)		Prepared: 07/21/23 08:47 Analyzed: 07/21/23 10:46										
NWTPH-Gx (MS)												
Gasoline Range Organics	0.500	---	0.100	mg/L	1	0.500	---	100	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 95 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		97 %		50-150 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Stockton, CA 95215

Project: **Monmouth Public Works**

Project Number: [none]

Project Manager: **Brian Millman****Report ID:**

A3G1260 - 08 01 23 1215

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0622 - EPA 5030C						Water						
Blank (23G0622-BLK1)		Prepared: 07/21/23 08:47 Analyzed: 07/21/23 11:09										
EPA 8260D												
Benzene	ND	---	0.250	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	4.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		105 %		80-120 %		"						
LCS (23G0622-BS1)		Prepared: 07/21/23 08:47 Analyzed: 07/21/23 10:24										
EPA 8260D												
Benzene	19.2	---	0.250	ug/L	1	20.0	---	96	80 - 120%	---	---	
Toluene	19.5	---	1.00	ug/L	1	20.0	---	97	80 - 120%	---	---	
Ethylbenzene	21.5	---	0.500	ug/L	1	20.0	---	108	80 - 120%	---	---	
Xylenes, total	60.7	---	1.50	ug/L	1	60.0	---	101	80 - 120%	---	---	
Methyl tert-butyl ether (MTBE)	21.3	---	1.00	ug/L	1	20.0	---	106	80 - 120%	---	---	
Naphthalene	19.2	---	4.00	ug/L	1	20.0	---	96	80 - 120%	---	---	
1,2-Dibromoethane (EDB)	20.5	---	0.500	ug/L	1	20.0	---	102	80 - 120%	---	---	
1,2-Dichloroethane (EDC)	18.6	---	0.500	ug/L	1	20.0	---	93	80 - 120%	---	---	
Isopropylbenzene	20.4	---	1.00	ug/L	1	20.0	---	102	80 - 120%	---	---	
1,2,4-Trimethylbenzene	20.9	---	1.00	ug/L	1	20.0	---	104	80 - 120%	---	---	
1,3,5-Trimethylbenzene	20.8	---	1.00	ug/L	1	20.0	---	104	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						

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Anissa Kepa For Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Advanced Geo, Inc.
837 Shaw Road
Stockton, CA 95215

Project: Monmouth Public Works
Project Number: [none]
Project Manager: Brian Millman

Report ID:
A3G1260 - 08 01 23 1215

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	--------------------	-------	----------	-----------------	------------------	-------	-----------------	-----	--------------	-------

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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SAMPLE PREPARATION INFORMATION

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23G0622							
A3G1260-01	Water	NWTPH-Gx (MS)	07/17/23 10:05	07/21/23 11:08	5mL/5mL	5mL/5mL	1.00

Selected Volatile Organic Compounds by EPA 8260D

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23G0622							
A3G1260-01	Water	EPA 8260D	07/17/23 10:05	07/21/23 11:08	5mL/5mL	5mL/5mL	1.00

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QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

V-01 Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported.
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation)

EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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Project Manager: Brian Millman

Report ID:

A3G1260 - 08 01 23 1215

APEX LABS COOLER RECEIPT FORM

Client: Advanced Geo Element WO#: A3G1260Project/Project #: Monmouth Public Works

Delivery Info:

Date/time received: 7-18-23 @ 1138 By: DJSDelivered by: Apex Client ESS ☒ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐Cooler Inspection Date/time inspected: 7-18-23 @ 1144 By: DJSChain of Custody included? Yes ☒ No ☐Signed/dated by client? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>5.3</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>Gel</u>						
Condition (In/Out):	<u>In</u>						

Cooler out of temp? (Y/N) Y Possible reason why: _____Green dots applied to out of temperature samples? Yes ☐ No ☒Out of temperature samples form initiated? Yes ☐ No ☒Sample Inspection: Date/time inspected: 7/20/23 @ 16:30 By: APWAll samples intact? Yes ☐ No ☒ Comments: WP-2 cracked in transitBottle labels/COCs agree? Yes ☒ No ☐ Comments: _____COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☐ No ☒ Comments: unable to run WP-2 due to cracked VOADo VOA vials have visible headspace? Yes ☒ No ☐ NA ☐Comments WP-2 1/1 VOA has HSWater samples: pH checked: Yes ☐ No ☐ NA ☒ pH appropriate? Yes ☐ No ☐ NA ☒

Comments: _____

Additional information:

Labeled by: APW

Witness:

DJS

Cooler Inspected by:

APW

Form Y-003 R-00 -

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