Ms. Rebekah Reams
Alaska Department of Environmental Conservation
Spill Prevention and Response, Contaminated Sites Program
610 University Avenue
Fairbanks, Alaska 99709

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Date: October 30, 2023
Our Ref: 30064225
Subject: Second Half 2023 Semi-Annual Status Report
Unocal #5057 Former (306450) (Chevron Facility No.306450)
4351 Old International Airport Road, Anchorage Alaska
ADEC File No.: 2100.26.115
ADEC Hazard ID: 23369

Dear Ms. Reams,

On behalf of Chevron Environmental Management Company (CEMC), Arcadis U.S., Inc. (Arcadis), has prepared this report to document the second half 2023 groundwater monitoring activities of for the Unocal #5057 Former (306450) (Chevron Facility No.306450) located at 4351 Old International Airport Road, Anchorage, Alaska (site). This work was conducted under the direction of a “Qualified Environmental Professional” by a “Qualified Sampler” (18 Alaska Administrative Code [AAC] 75.333).

If you have any questions, please do not hesitate to contact me.

Sincerely,

Arcadis U.S., Inc.

Gerald A. Robinson
Project Manager
Email: Gerald.Robinson@arcadis.com
Direct Line: 724.934.9507

Copies
James Kiernan, CEMC *(electronic copy)*
Scott Lytle, Anchorage International Airport. *(electronic copy)*

Ms. Rebekah Reams
Alaska Department of Environmental Conservation
Date: October 30, 2023

SECOND HALF 2023 SEMI-ANNUAL STATUS REPORT

October 30, 2023

Work Conducted This Period [Second Half 2023]:

1. Conducted quarterly groundwater monitoring activities on August 22, 2023.
2. Prepared the *Second Half 2023 Semi-Annual Status Report*.
3. Submittal of *Soil and Groundwater Investigation Work Plan.*

Work Proposed Next Period [First Half 2024]:

1. Conduct the first half 2024 groundwater monitoring activities.
2. Prepare the *First Half 2024 Semi-Annual Status Report.*
3. Implement scope of work associated with the approved *Soil and Groundwater Investigation Work Plan.*

Site Description

The site is a vacant lot located in a commercial area on Anchorage Airport property at the intersection of Old International Airport Road and South Aircraft Drive. The geology of Anchorage area is dominated by glacial outwash. The Bootlegger Cove formation underlies most of Anchorage and consists of fine-grained sediments (fine sand and silt). The site geology consists of inter-bedded sand and silt layers to approximately 60 feet below ground surface (bgs). A clay layer has been observed at depths from 28 to 45 feet bgs at thicknesses ranging from 0.5 to 5 feet. These clay lenses appear to act as localized confining layers causing a perched groundwater table in some areas onsite (Arcadis 2008). The depth to water in groundwater monitoring wells has ranged from 23.05 to 59.40 feet bgs. The general historical groundwater flow direction is to the south-southwest to southwest. Union Oil Company of California (Unocal), a CEMC affiliate, formerly operated the service station from 1953 through 1988 when it was decommissioned. In 1988, the facility building, six petroleum underground storage tanks (USTs), dispenser pumps, and three vertical above-ground petroleum storage tanks (ASTs) were removed from the property. Five of the six USTs have been removed and one state-owned UST remains on site. This UST was abandoned in place and is currently situated underneath an off-site building; therefore, could not be removed. During facility decommissioning activities, approximately 2,800 cubic yards of petroleum hydrocarbon impacted soil were removed from the site. Limitations of the excavation equipment prevented complete removal of all impacted soil in the former pump island and AST areas. Confirmation soil samples indicated petroleum hydrocarbon-impacted soils remain in place outside the excavation limits. Impacted soil located near the former ASTs and in the former dispenser island area remains.

On March 21, 2023, the Alaska Department of Environmental Conservation (ADEC) approved a *Groundwater Sampling Analyte Reduction Request – Groundwater Sampling Work Plan Addendum* which included the monitoring and sampling of monitoring wells MW-5, MW-5A, MW-7, MW-7A, MW-9, MW-14, and RW-14 semi-annual, and monitoring wells MW-10 through MW-13 annually during the third quarter. The surrounding properties include Anchorage International Airport commercial offices and warehouses. Previously soil vapor investigations were completed on the adjacent property located at 4510 Airport Road. is the location for the soil vapor investigation. A site location map and site plan are shown as **Figures 1** and **2**, respectively.

Ms. Rebekah Reams
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Date: October 30, 2023

Site Activities this Reporting Period

Current phase of project:	Monitoring
Frequency of monitoring and sampling:	Semi-annual
Monitoring wells containing light non-aqueous phase liquid (LNAPL):	None
Cumulative LNAPL recovered to date: (gallons)	0.00
Approximate depth to groundwater: (feet below top of casing)	29.60 (MW-10) to 54.18 (MW-7A)
Approximate groundwater elevation: (feet relative to NAVD88)	31.93 (MW-12) to 52.92 (MW-10)
Groundwater flow direction	southwest
Groundwater gradient (feet per foot)	0.088
Current remediation techniques:	None
Summary of unusual activity:	Monitoring well MW-14 had insufficient water to sample.
Agency directive requirements:	None

Groundwater Gauging and Sampling Methods

On August 22, 2023, the second half 2023 groundwater monitoring and sampling activities were conducted. Groundwater monitoring wells scheduled to be gauged and/or sampled are summarized in **Table 1**. Monitoring wells were gauged with an oil/water interface probe in the order of lowest to highest historical petroleum hydrocarbon concentrations in groundwater to determine groundwater elevations and ascertain if LNAPL was present. Following gauging, groundwater was purged and sampled using low flow purge technology via bladder pump in accordance with the ADEC Field Sampling Guidance (ADEC 2022a) and Arcadis *Standard Groundwater Sampling and Monitoring Wells (Arcadis 2022a)*.

Non-disposable groundwater gauging equipment was decontaminated prior to and after each use with a detergent solution and rinsed in potable water. Water table drawdown was continuously monitored during purging with an oil/water interface probe and the flow rate of the pump was adjusted to limit drawdown to 0.1 foot. Water quality parameters were monitored during purging with a multi-parameter water quality meter equipped with a flow through cell and turbidity meter. Parameters were recorded every 3 to 5 minutes until a minimum of three

(minimum of four if using temperature as an indicator) of the parameters listed below stabilized. Water quality parameters were considered stable when three successive readings were within the following ADEC limits:

- ± 3% for temperature (minimum of ± 0.2**°C**),
- ± 0.1 for pH,
- ± 3% for conductivity,
- ± 10 mV for redox potential,
- ± 10% for dissolved oxygen, and
- ± 10% for turbidity.

Following well stabilization, the flow rate was reduced to between 100 to 200 milliliters per minute and samples were collected into laboratory sample bottles. Groundwater samples were collected from the top foot of the water column in monitoring wells per the sampling schedule (**Table 1**) with the following exception: monitoring well MW-14 had insufficient water to be sampled. The groundwater potentiometric surface elevation and a rose diagram of historical groundwater flow directions are illustrated on **Figure 3**.

Groundwater samples collected were analyzed by Pace Analytical National Center for Testing & Innovation (Pace) of Mt. Juliet, Tennessee for the following constituents:

- Full-Scan volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260D and 1,2.3-TCP/EDB by USEPA low level 524.
- Polycyclic Aromatic Hydrocarbons (PAH) by USEPA Method 8270E-SIM
- Total petroleum hydrocarbons as gasoline range organics (GRO) by Alaska Method AK101
- Total petroleum hydrocarbons as diesel range organics (DRO) by Alaska Method AK102.
- Total Lead by USEPA Method 6010D

A groundwater duplicate sample (BD-1) was collected from monitoring well MW-7A and submitted blind to Pace. Additionally, an equipment blank sample (EQB-1) was collected, and trip blanks were included in sample coolers for quality assurance purposes. Field notes collected during groundwater monitoring activities including monitoring well purge rates and drawdown are presented in **Attachment A**.

Groundwater Sampling Results

Groundwater analytical results obtained during this event indicate constituents of potential concern (COPCs) exceed the ADEC Oil Pollution Prevention Requirements (18 AAC 75) identified in Table C - Groundwater Cleanup Levels (GCLs). Analytical data from the most recent sampling event are summarized in **Tables 2** and **3.** COPCs exceeding GCLs are summarized below and are illustrated on **Figures 4** and **5**. The laboratory report is included as **Attachment B.**

- DRO was detected at concentrations above the ADEC GCL of 1,500 micrograms per liter (µg/L) in groundwater samples collected from MW-7 at a concentration of 23,700 J µg/L (The associated numerical value is an estimated concentration only), in MW-7A at a concentration of 3,050 µg/L, and 4,060 µg/L in BD-1, in MW-9 at a concentration of 13,300 µg/L.
- GRO was detected at concentrations above the ADEC GCL of 2,200 µg/L in groundwater samples collected from MW-5 at a concentration of 3,350 J µg/L, in MW-7 at a concentration of 98,500 µg/L, in MW-7A at a concentration of 7,730 µg/L, and 10,200 µg/L in BD-1.

- Benzene was detected at concentrations above the ADEC GCL of 4.6 µg/L in groundwater samples collected from MW-5 at a concentration of 71.8 µg/L, in MW-7 at a concentration of 2,990 D µg/L (Concentration is based on a diluted sample analysis), in MW-7A at a concentration of 87.5 J µg/L and 44.6 µg/L in BD-1, and in MW-9 at a concentration of 428 µg/L.
- Toluene was detected at concentrations above the ADEC GCL of 1,100 µg/L in the groundwater sample collected from MW-7 at a concentration of 28,200 D µg/L.
- Ethylbenzene was detected at concentrations above the ADEC GCL of 15 µg/L in groundwater samples collected from MW-5 at a concentration of 110 µg/L, in MW-7 at a concentration of 3,420 D µg/L, in MW-7A at a concentration of 54.7 J µg/L and 39.2 µg/L in BD-1, and in MW-9 at a concentration of 17.5 µg/L.
- Total Xylenes were detected at concentrations above the ADEC GCL of 190 µg/L in groundwater samples collected from MW-7 at a concentration of 22,000 D µg/L, and in MW-7A at a concentration of 5,870 J µg/L, and 3,760 J µg/L in BD-1.
- 1,2-dibromoethane (EDB) was detected at concentrations above the ADEC GCL of 0.075 µg/L in groundwater samples collected from MW-7 at a concentration of 260 D J µg/L, and in MW-7A at a concentration of 19.0 D J µg/L, and 11.0 D J µg/L in BD-1,
- 1,2-dichloroehtane (EDC) was detected at concentrations above the ADEC GCL of 1.7 µg/L in groundwater samples collected from MW-7 at a concentration of 62.6 J µg/L, and in MW-7A in the BD-1 sample with a concentration of 9.94 J µg/L. The sample collected from MW-7A was reported as non-detect (<100 µg/L) with a laboratory method detection limit that exceeded the ADEC GCL.
- Lead was detected at concentrations above the ADEC GCL of 15 µg/L in groundwater samples collected from MW-7 at a concentration of 280 µg/L, in MW-7A at a concentration of 27.7 µg/L and 30.2 µg/L in BD-1.
- Naphthalene was detected at concentrations above the ADEC GCL of 1.7 µg/L in groundwater samples collected from MW-5 at a concentration of 2.89 J µg/L, in MW-7 at a concentration of 189 J µg/L, and in MW-10 at a concentration of 2.63 J µg/L for the method 8260D. The sample collected from MW-7A was reported as non-detect (<500 µg/L) with a laboratory method detection limit that exceeded the ADEC GCL and the BD-1 sample was reported at a concentration of 40.2 J µg/L. In MW-5 naphthalene was detected at a concentration of 4.23 J µg/L, in MW-7 at a concentration of 241 D µg/L, and, in MW-7A at a concentration of 19.2 J µg/L and 26.7 J µg/L in BD-1 for the method 8270E-SIM.
- 1,2,4-Trimethylbenzene was detected at concentrations above the ADEC GCL of 56 µg/L in groundwater samples collected from MW-7 at a concentration of 2,090 D µg/L and in MW-7A at a concentration of 1,810 J µg/L, and 1,100 J µg/L in BD-1.
- 1,3,5-Trimethylbenzene was detected at concentrations above the ADEC GCL of 60 µg/L in groundwater samples collected from MW-7 at a concentration of 597 D µg/L, and in MW-7A at a concentration of 554 J µg/L, and 315 J µg/L in BD-1.
- 1-Methylnaphthalene was detected at a concentration above the ADEC GCL of 11 µg/L in the groundwater sample collected from MW-7 at a concentration of 17.7 µg/L.

Historical analytical results (pre-2023) are presented in **Attachment C**. EDB and 1,2,3-Trichloropropane were analyzed by USEPA Methods 524 and 8260D, the method with the lowest RDL was considered.

Laboratory Data Review

As required by the ADEC Guidelines for Data Reporting (ADEC 2022b), Arcadis completed a laboratory data review checklist for the laboratory report generated for this event. The data review checklist is included as **Attachment D**. Quality assurance and quality control parameters related to the precision, accuracy,

representativeness, comparability, completeness, and sensitivity of the data presented in this report suggest that the data quality objectives have been met with the following exceptions:

- Accuracy:
  - Continuing calibration recovery were less than the control limit for methylene chloride in sample locations, MW-5, MW-5A, MW-7, MW-11, MW-10, MW-12, MW-13, and RW-14, for USEPA Method 8260D. Analytical result in the associated sample locations were qualified as estimated.
  - Continuing calibration recovery were less than the control limit for 1,1,2,2-tetrachloroethane, 2,2-dichloropropane, acrolein, and bromomethane in sample locations BD-1, EQB-1 and Trip Blank 1, Trip Blank 2, and Trip Blank 3 for USEPA Method 8260D. Analytical result in the associated sample locations were qualified as estimated.
  - Continuing calibration recovery were less than the control limit for acrolein and bromomethane in sample locations MW-7A and MW-9 for USEPA Method 8260D. Analytical result in the associated sample locations were qualified as estimated.
  - The laboratory control sample (LCS) recovery was less than the control limit for 2,2-Dichloropropane and 1,1,2,2 tetrachloroethane in sample location BD-1, EQB-1, Trip Blank 1, Trip Blank 2, and Trip Blank 3 for USEPA Method 8260D. Analytical result in the associated sample locations were qualified as estimated.
  - The matrix spike and matrix spike duplicate (MS/MSD) recovery were greater than the control limit for toluene in sample location MW-5 for USEPA Method 8260D. The analytical result in the associated sample location was qualified as estimated.
  - The MS recovery was greater than the control limit for the isopropylbenzene, naphthalene, n-propylbenzene, 1,2,3-trimethylbenzene, and 1,3,5-trimethylbenzene in sample location MW-5 for USEPA Method 8260D. The analytical results in the associated sample location were qualified as estimated.
  - The MS/MSD recovery were less than ten percent of the control limit for GRO in sample location MW-5 for Alaska Method AK 101. The analytical result in the associated sample location was qualified as estimated.
  - The MSD recovery was less than the control limit for DRO in sample location MW-5 for Alaska Method AK 102. The analytical result in the associated sample location was qualified as estimated.
  - The MSD recovery was less than the control limit for naphthalene in sample location MW-5 for USEPA Method 8270 E SIM. The analytical result in the associated sample location was qualified as estimated.
  - Surrogate recovery was less than the control limit for sample location MW-7 for USEPA Method 8260D and Alaska Method AK 102. Target compounds result in the associated sample location was qualified as estimated.
- Precision:
  - Relative Percent Difference (RPD) for MS/MSD was exceeded for the chloromethane, 1,1-dichloroethane, isopropylbenzene, n-Propylbenzene, toluene, 1,2,3-trimethylbenzene, 1,3,5-trimethylbenzene, o-xylene, anthracene, acenaphthene, acenaphthylene, benzo(a)anthracene, chrysene, fluoranthene, fluorene, naphthalene, phenanthrene, pyrene, 1-methylnaphthalene, 2-methylnaphthalene and 2-chloronaphthalene. Results from sample location MW-5 for USEPA Method 8260D and 8270 E SIM were qualified as estimated for these compounds.

- Blind duplicate RPD was exceeded for the 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, total xylenes, for USEPA Method 8260D. Sample locations MW-7A and BD-1 were qualified as estimated for these compounds.
- Blind duplicate RPD was exceeded for the 1-methylnaphthalene, 2-methylnaphthalene and naphthalene for USEPA Method 8270E SIM. Sample locations MW-7A and BD-1 were qualified as estimated for these compounds.

- Comparability:
  - Benzo(g,h,i)perylene and indeno(1,2,3-cd)pyrene were detected below the reporting limit in the equipment blank for USEPA Method 8270 E SIM. Based on blank evaluation, the results for benzo(g,h,i)perylene and indeno(1,2,3-cd)pyrene in sample locations MW-10 and MW-12 were qualified as non-detect.
  - Dibenz(a,h)anthracene was detected below the reporting limit in the equipment blank for USEPA Method 8270 E SIM. Based on blank evaluation, the result for dibenz(a,h)anthracene in sample location MW-10 was qualified as non-detect.
  - GRO was detected below the reporting limit in the method blank and equipment blank for Alaska Method AK101. Based on blank evaluation, the result for GRO in sample locations MW-5A, MW-10, MW-11 and RW-14 were qualified as non-detect.

- Sensitivity:
  - The concentration of DRO exceeded the ADEC GCL in sample locations MW-7, MW-7A, MW-9, and BD-1.
  - The concentration of GRO exceeded the ADEC GCL in sample locations MW-5, MW-7, MW-7A, and BD-1.
  - The concentration of benzene and ethylbenzene exceeded the ADEC GCLs in sample locations MW-5, MW-7A, MW-7, MW-9, and BD-1.
  - The concentration of toluene and 1-methylnaphthalene exceeded the ADEC GCLs in sample location MW-7.
  - The concentration of total xylenes, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and EDB exceeded the ADEC GCLs in sample locations MW-7A, MW-7 and BD-1.
  - The concentration of EDC exceeded the ADEC GCLs in sample locations MW-7A, MW-7, RW-14, and BD-1.
  - The concentration of naphthalene exceeded the ADEC GCLs in sample locations MW-5, MW-7, MW-7A, BD-1, and MW-10.
  - The laboratory reported detection limits for EDB, EDC, naphthalene, bromobenzene, bromodichloromethane, bromoform, bromomethane, carbon tetrachloride, chlorobenzene, chlorodibromo-methane, chloroform, chloromethane, dibromomethane, 1,4-dichlorobenzene, dichlorodifluoromethane, 1,1-dichloroethane, cis-1,2-dichloroethene, 1,2-dichloropropane, hexachloro-1,3-butadiene, methylene chloride, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, tetrachloroethene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,1,2-trichloroethane, trichloroethene, 1,2,3-trichloropropane, and vinyl chloride exceeded the ADEC GCL; however, the laboratory method detection limit is below the ADEC GCL for most compounds with the exception of naphthalene, bromdichloromethane, bromomethane, carbon tetrachloride, chlorodibromomethane, chloroform, dibromomethane, 1,4-dichlorobenzene, 1,2-dichloropropane, hexachloro-1,2-butadiene, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane,

1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,1,2-trichloroethane, trichloroethene, 1,2,3-trchoropropane and vinyl chloride which had elevated method detection limits that exceeded the ADEC GCL.; The sensitivity of the analyses was still adequate for the samples.

- 1,2-dibromoethane, benzene, ethylbenzene, n-propylbenzene, toluene, 1,2,4-trimethylbenzene, 1,2,3-trimethylbenzene, 1,3,5-trimethylbenzene, total xylenes were qualified as “D” due to dilution in sample location MW-7 for USEPA Method 8260D.
- 1,2-dibromoethane was qualified as “D” due to dilution in sample location MW-7A and BD-1 for USEPA Method 8260D.
- 1,2,3-trichloropropane and 1,2-dibromoethane were analyzed for USEPA Method 524/8260 hybrid procedure by the laboratory. The results are considered from lower reporting limit, but surrogate recoveries were not reported for USEPA Method 524. Hence the results for compounds 1,2,3-trichloropropane and 1,2-dibromoethane were qualified as estimated (J/UJ).

Investigation Derived Waste

Purge and decontamination water was collected and is currently stored in U.S. Department of Transportation-approved 55-gallon steel drums onsite. Each drum was labelled with the contents, generator, date generated, and generator contact information. Following waste characterization and ADEC approval, the investigation derived waste will be transported offsite for treatment and/or disposal.

Conclusion and Recommendations

The observed groundwater flow direction and hydraulic gradient during this event are generally consistent with historical data. Analytical results from the monitoring wells are generally consistent with historical data.

Arcadis recommends groundwater sampling continues in accordance with the current approved schedule. The first half sampling event will be conducted in spring of 2024. Soil and groundwater investigation activities are scheduled for April 2024.

References

Arcadis. 2008. 2008 Site Assessment and Third Quarter 2008 Groundwater Monitoring Report, Former Chevron Facility 306450, Anchorage, Alaska. December 3

ADEC. 2022a. Field Sampling Guidance. ADEC, Division of Spill Prevention and Response Contaminated Sites Program. August.

ADEC. 2022b. Technical Memorandum 22-001; Guidelines for Data Reporting. ADEC, Division of Spill Prevention and Response Contaminated Sites Program. August 15.

Arcadis. 2022a. Standard Groundwater Sampling for Monitoring Well. April

Arcadis. 2022b. Summary of Procedures for Investigation Derived Waste Treatment Utilizing Granular Activated Carbon. September.

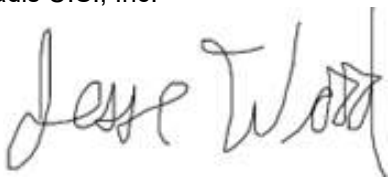
ADEC. 2023. 18-AAC-75 Oil and Other Hazardous Substances Pollution Control. ADEC. Amended October 18th.

Ms. Rebekah Reams
Alaska Department of Environmental Conservation
Date: October 30, 2023

Should you have any questions or concerns regarding this submittal please do not hesitate to contact us.

Sincerely,

Arcadis U.S., Inc.



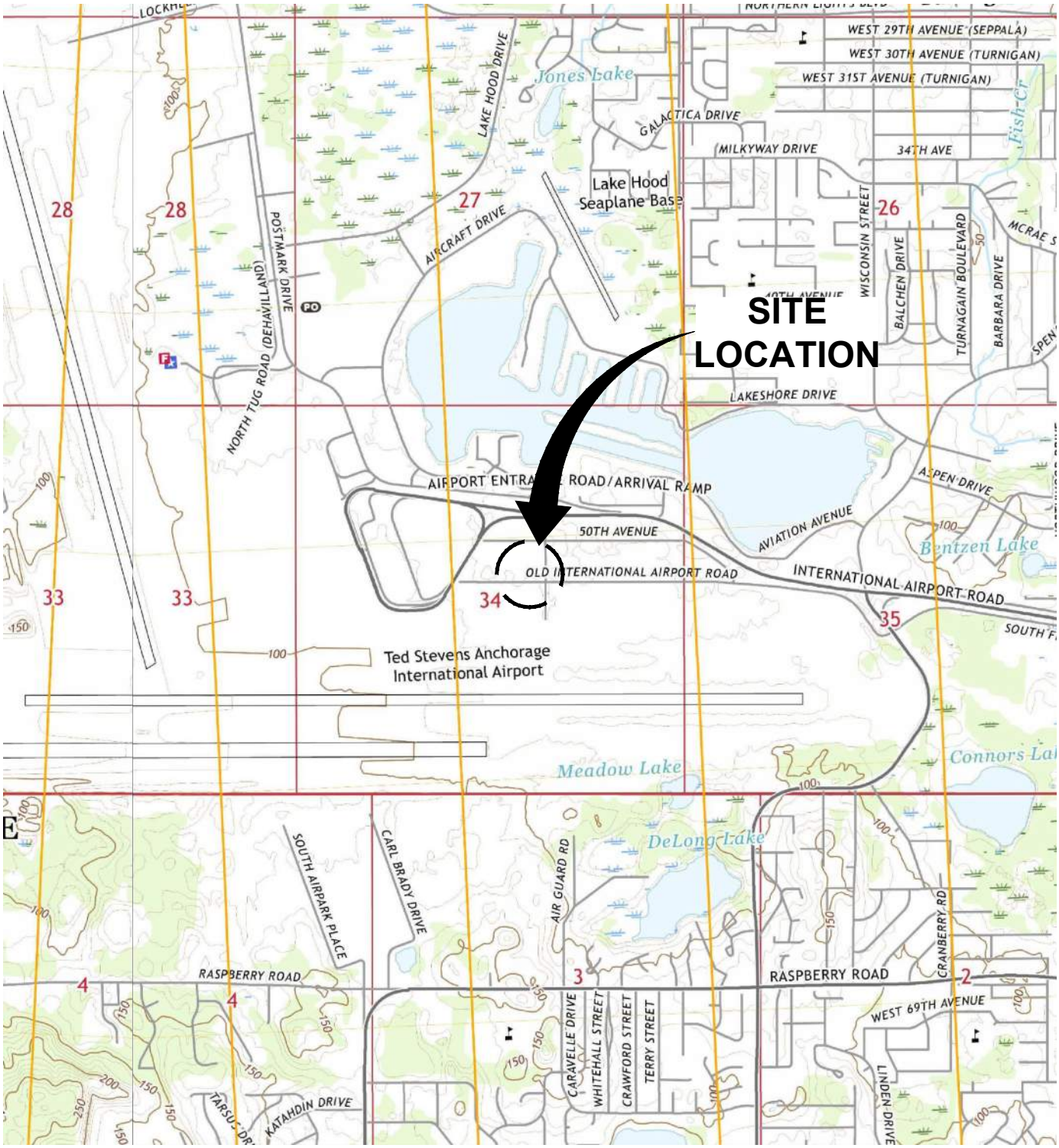
Jesse Wood
Project Task Manager

Gerald A. Robinson
Project Manager

Enclosures:

- Figure 1. Site Location Map
- Figure 2. Site Plan
- Figure 3. Groundwater Elevation Contour Map
- Figure 4. Groundwater Analytical Results Map
- Figure 5. Groundwater Analytical Results Map - PAHs
- Table 1. Groundwater Monitoring Schedule
- Table 2. Current Groundwater Gauging and Analytical Results
- Table 3. Current Poly Aromatic Hydrocarbons (PAH) Analytical Results
- Table 4. Current and Historical Groundwater Gauging and Analytical Results
- Table 5. Current and Historical Poly Aromatic Hydrocarbons (PAH) Analytical Results
- Attachment A. Field Notes
- Attachment B. Laboratory Analytical Results
- Attachment C. Historical Groundwater Monitoring Results Third Quarter 2001 through 2022
- Attachment D. ADEC Data Review Checklist

Figures



SOURCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., ANCHORAGE A-8 NW AND TYONEK A-1 NE, ALAKSA 2019.

0 2,000' 4,000'

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

UNOCAL #5057 FORMER (306450)
(CHEVRON FACILITY NO. 306450)
4351 OLD INTERNATIONAL AIRPORT RD, ANCHORAGE, AK
SECOND SEMI-ANNUAL 2023
GROUNDWATER MONITORING REPORT

SITE LOCATION MAP

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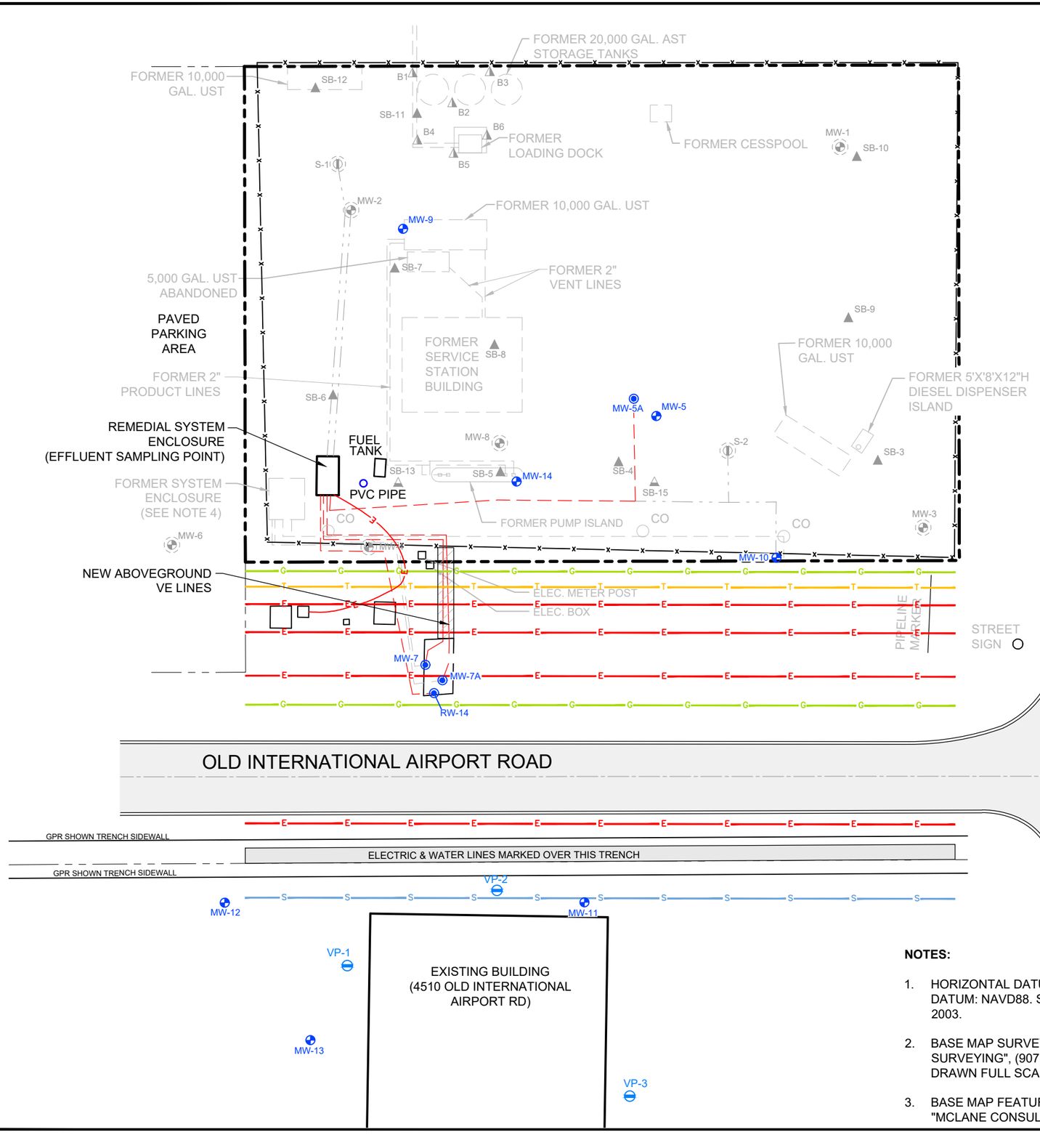
FIGURE
1



LEGEND

- PROPERTY LINE
- CHAIN LINK FENCE (TYPICAL)
- GROUNDWATER MONITORING WELL
- SOIL VAPOR EXTRACTION (SVE) WELL
- VAPOR PROBE (VP)
- ABANDONED OR DESTROYED WELL
- ABANDONED AIR SPARGE (AS) WELL
- CO VES LINE CLEANOUT
- SOIL BORING (1996)
- SOIL BORING (2007)
- SOIL BORING (2008)
- FORMER BELOW GROUND AIR SPARGE/ SOIL VAPOR EXTRACTION LINE (2" DIA.)
- BELOW GROUND SVE LINE (2" DIA.)
- ABOVEGROUND SVE LINE (2" DIA.)
- VAPOR EXTRACTION (VE) PROTECTIVE BERM WITH CONDUIT
- AST ABOVE GROUND STORAGE TANK
- UST UNDERGROUND STORAGE TANK
- G NATURAL GAS LINE
- T TELECOM LINE
- E ELECTRICAL LINE
- C PETROLEUM PIPELINE
- S SEWER LINE

N

0 40' 80'

GRAPHIC SCALE

NOTES:

1. HORIZONTAL DATUM: NAD83 ASP ZONE 4, VERTICAL DATUM: NAVD88. SURVEY DATA SOURCE: OPUS EPOCH 2003.
2. BASE MAP SURVEYED BY "KARABELNIKOFF SURVEYING", (907) 337-3434. MAP DATE 10/21/07, DRAWN FULL SCALE.
3. BASE MAP FEATURES RESURVEYED AUGUST 2008 BY "MCLANE CONSULTING, INC."

UNOCAL #5057 FORMER (306450)
(CHEVRON FACILITY NO. 306450)
4351 OLD INTERNATIONAL AIRPORT RD, ANCHORAGE, AK
SECOND SEMI-ANNUAL 2023 GROUNDWATER MONITORING REPORT

SITE PLAN

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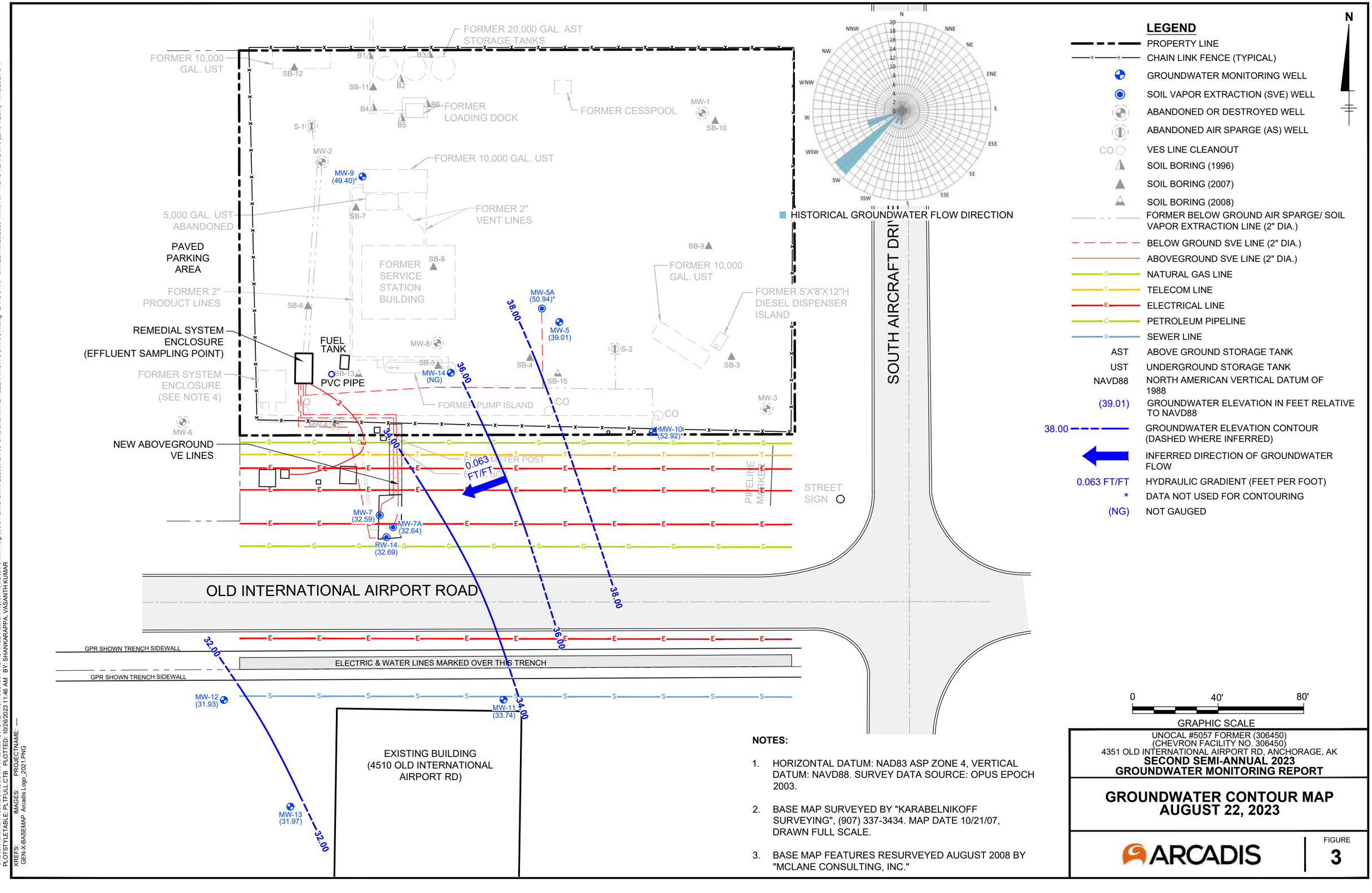
FIGURE 2



LEGEND

- PROPERTY LINE
- CHAIN LINK FENCE (TYPICAL)
- GROUNDWATER MONITORING WELL
- SOIL VAPOR EXTRACTION (SVE) WELL
- ABANDONED OR DESTROYED WELL
- ABANDONED AIR SPARGE (AS) WELL
- CO — VES LINE CLEANOUT
- SOIL BORING (1996)
- SOIL BORING (2007)
- SOIL BORING (2008)
- FORMER BELOW GROUND AIR SPARGE/ SOIL VAPOR EXTRACTION LINE (2" DIA.)
- BELOW GROUND SVE LINE (2" DIA.)
- ABOVEGROUND SVE LINE (2" DIA.)
- NATURAL GAS LINE
- TELECOM LINE
- ELECTRICAL LINE
- PETROLEUM PIPELINE
- SEWER LINE
- AST — ABOVE GROUND STORAGE TANK
- UST — UNDERGROUND STORAGE TANK
- NAVD88 — NORTH AMERICAN VERTICAL DATUM OF 1988
- (39.01) — GROUNDWATER ELEVATION IN FEET RELATIVE TO NAVD88
- 38.00 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- INFERRED DIRECTION OF GROUNDWATER FLOW
- 0.063 FT/FT — HYDRAULIC GRADIENT (FEET PER FOOT)
- * — DATA NOT USED FOR CONTOURING
- (NG) — NOT GAUGED

N

0 40' 80'

GRAPHIC SCALE

NOTES:

1. HORIZONTAL DATUM: NAD83 ASP ZONE 4, VERTICAL DATUM: NAVD88. SURVEY DATA SOURCE: OPUS EPOCH 2003.
2. BASE MAP SURVEYED BY "KARABELNIKOFF SURVEYING", (907) 337-3434. MAP DATE 10/21/07, DRAWN FULL SCALE.
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UNOCAL #5057 FORMER (306450)
(CHEVRON FACILITY NO. 306450)
4351 OLD INTERNATIONAL AIRPORT RD, ANCHORAGE, AK
SECOND SEMI-ANNUAL 2023 GROUNDWATER MONITORING REPORT

GROUNDWATER CONTOUR MAP AUGUST 22, 2023

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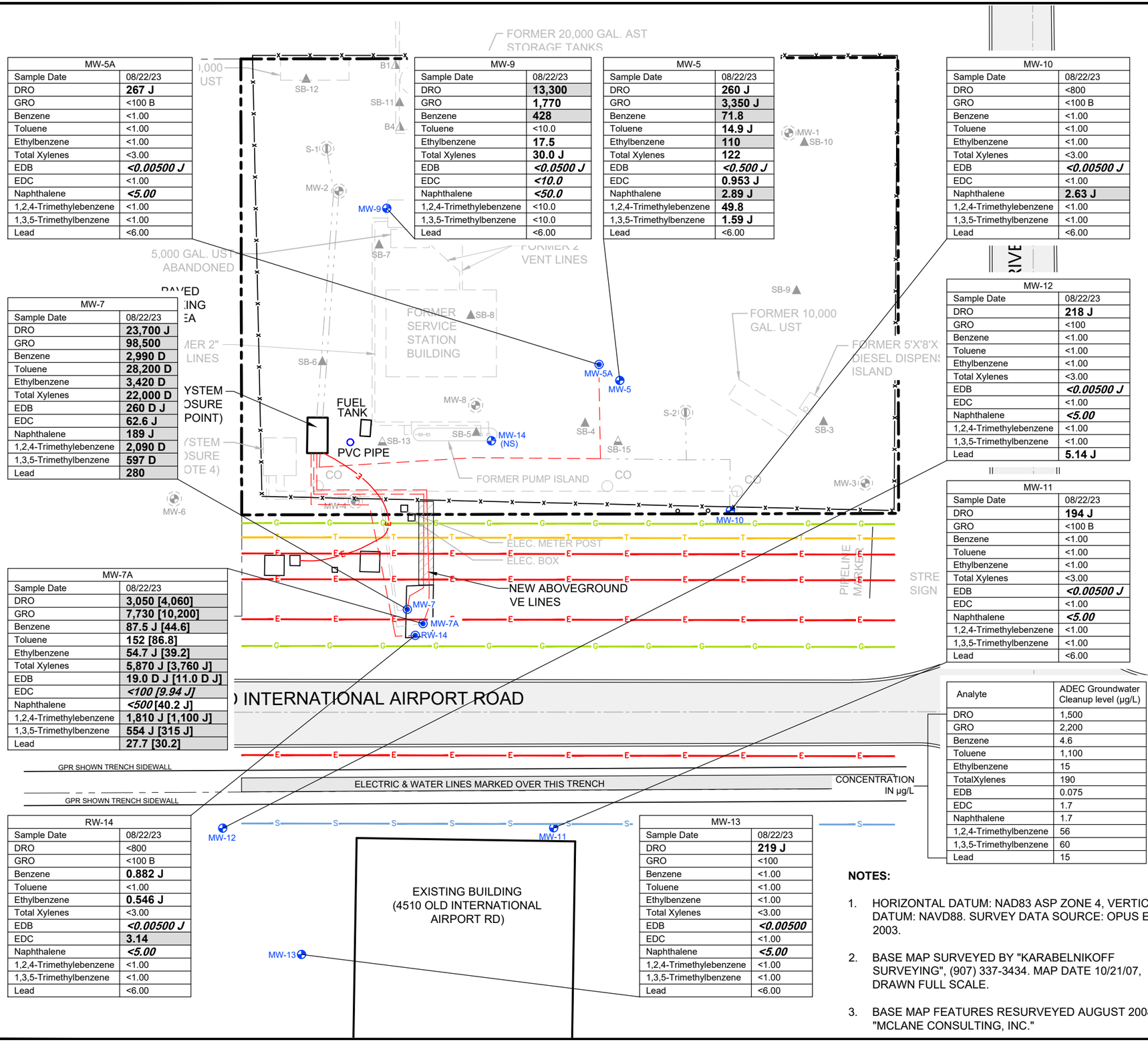
FIGURE 3



MW-5A	
Sample Date	08/22/23
DRO	**267 J**
GRO	<100 B
Benzene	<1.00
Toluene	<1.00
Ethylbenzene	<1.00
Total Xylenes	<3.00
EDB	***<0.00500 J***
EDC	<1.00
Naphthalene	***<5.00***
1,2,4-Trimethylebenzene	<1.00
1,3,5-Trimethylbenzene	<1.00
Lead	<6.00

MW-9	
Sample Date	08/22/23
DRO	**13,300**
GRO	**1,770**
Benzene	**428**
Toluene	<10.0
Ethylbenzene	**17.5**
Total Xylenes	**30.0 J**
EDB	***<0.0500 J***
EDC	***<10.0***
Naphthalene	***<50.0***
1,2,4-Trimethylebenzene	<10.0
1,3,5-Trimethylbenzene	<10.0
Lead	<6.00

MW-5	
Sample Date	08/22/23
DRO	**260 J**
GRO	**3,350 J**
Benzene	**71.8**
Toluene	**14.9 J**
Ethylbenzene	**110**
Total Xylenes	**122**
EDB	***<0.500 J***
EDC	**0.953 J**
Naphthalene	**2.89 J**
1,2,4-Trimethylebenzene	**49.8**
1,3,5-Trimethylbenzene	**1.59 J**
Lead	<6.00

MW-10	
Sample Date	08/22/23
DRO	<800
GRO	<100 B
Benzene	<1.00
Toluene	<1.00
Ethylbenzene	<1.00
Total Xylenes	<3.00
EDB	***<0.00500 J***
EDC	<1.00
Naphthalene	**2.63 J**
1,2,4-Trimethylebenzene	<1.00
1,3,5-Trimethylbenzene	<1.00
Lead	<6.00

MW-7	
Sample Date	08/22/23
DRO	**23,700 J**
GRO	**98,500**
Benzene	**2,990 D**
Toluene	**28,200 D**
Ethylbenzene	**3,420 D**
Total Xylenes	**22,000 D**
EDB	**260 D J**
EDC	**62.6 J**
Naphthalene	**189 J**
1,2,4-Trimethylebenzene	**2,090 D**
1,3,5-Trimethylbenzene	**597 D**
Lead	**280**

MW-12	
Sample Date	08/22/23
DRO	**218 J**
GRO	<100
Benzene	<1.00
Toluene	<1.00
Ethylbenzene	<1.00
Total Xylenes	<3.00
EDB	***<0.00500 J***
EDC	<1.00
Naphthalene	***<5.00***
1,2,4-Trimethylebenzene	<1.00
1,3,5-Trimethylbenzene	<1.00
Lead	**5.14 J**

MW-11	
Sample Date	08/22/23
DRO	**194 J**
GRO	<100 B
Benzene	<1.00
Toluene	<1.00
Ethylbenzene	<1.00
Total Xylenes	<3.00
EDB	***<0.00500 J***
EDC	<1.00
Naphthalene	***<5.00***
1,2,4-Trimethylebenzene	<1.00
1,3,5-Trimethylbenzene	<1.00
Lead	<6.00

MW-7A	
Sample Date	08/22/23
DRO	**3,050 [4,060]**
GRO	**7,730 [10,200]**
Benzene	**87.5 J [44.6]**
Toluene	**152 [86.8]**
Ethylbenzene	**54.7 J [39.2]**
Total Xylenes	**5,870 J [3,760 J]**
EDB	**19.0 D J [11.0 D J]**
EDC	***<100 [9.94 J]***
Naphthalene	***<500*** **[40.2 J]**
1,2,4-Trimethylebenzene	**1,810 J [1,100 J]**
1,3,5-Trimethylbenzene	**554 J [315 J]**
Lead	**27.7 [30.2]**

RW-14	
Sample Date	08/22/23
DRO	<800
GRO	<100 B
Benzene	**0.882 J**
Toluene	<1.00
Ethylbenzene	**0.546 J**
Total Xylenes	<3.00
EDB	***<0.00500 J***
EDC	**3.14**
Naphthalene	***<5.00***
1,2,4-Trimethylebenzene	<1.00
1,3,5-Trimethylbenzene	<1.00
Lead	<6.00

MW-13	
Sample Date	08/22/23
DRO	**219 J**
GRO	<100
Benzene	<1.00
Toluene	<1.00
Ethylbenzene	<1.00
Total Xylenes	<3.00
EDB	***<0.00500***
EDC	<1.00
Naphthalene	***<5.00***
1,2,4-Trimethylebenzene	<1.00
1,3,5-Trimethylbenzene	<1.00
Lead	<6.00

Analyte	ADEC Groundwater Cleanup level (µg/L)
DRO	1,500
GRO	2,200
Benzene	4.6
Toluene	1,100
Ethylbenzene	15
TotalXylenes	190
EDB	0.075
EDC	1.7
Naphthalene	1.7
1,2,4-Trimethylbenzene	56
1,3,5-Trimethylbenzene	60
Lead	15

NOTES:

1. HORIZONTAL DATUM: NAD83 ASP ZONE 4, VERTICAL DATUM: NAVD88. SURVEY DATA SOURCE: OPUS EPC 2003.
2. BASE MAP SURVEYED BY "KARABELNIKOFF SURVEYING", (907) 337-3434. MAP DATE 10/21/07, DRAWN FULL SCALE.
3. BASE MAP FEATURES RESURVEYED AUGUST 2008 B "MCLANE CONSULTING, INC."

LEGEND

- PROPERTY LINE
- CHAIN LINK FENCE (TYPICAL)
- GROUNDWATER MONITORING WELL
- SOIL VAPOR EXTRACTION (SVE) WELL
- ABANDONED OR DESTROYED WELL
- ABANDONED AIR SPARGE (AS) WELL
- CO VES LINE CLEANOUT
- SOIL BORING (1996)
- SOIL BORING (2007)
- SOIL BORING (2008)
- FORMER BELOW GROUND AIR SPARGE/ SOIL VAPOR EXTRACTION LINE (2" DIA.)
- BELOW GROUND SVE LINE (2" DIA.)
- ABOVEGROUND SVE LINE (2" DIA.)
- G NATURAL GAS LINE
- T TELECOM LINE
- E ELECTRICAL LINE
- C PETROLEUM PIPELINE
- S SEWER LINE

AST	ABOVE GROUND STORAGE TANK
UST	UNDERGROUND STORAGE TANK
µg/L	MICROGRAMS PER LITER
GRO	TOTAL PETROLEUM HYDROCARBONS GASOLINE RANGE ORGANICS
DRO	TOTAL PETROLEUM HYDROCARBONS DIESEL RANGE ORGANICS
EDB	1,2-DIBROMOETHANE
EDC	1,2-DICHLOROETHANE
<1.00	NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT (RDL)
BOLD	VALUE EXCEEDS LABORATORY METHOD DETECTION LIMIT (MDL)
BOLD	VALUE EXCEEDS ADEC GROUNDWATER CLEANUP LEVEL
J	THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY
B	THE SAME ANALYTE IS FOUND IN THE ASSOCIATED BLANK
D	CONCENTRATION IS BASED ON A DILUTED SAMPLE ANALYSIS
[ ]	DUPLICATE RESULTS

N

0 40' 80'

GRAPHIC SCALE

UNOCAL #5057 FORMER (306450)
(CHEVRON FACILITY NO. 306450)
4351 OLD INTERNATIONAL AIRPORT RD, ANCHORAGE, AK
SECOND SEMI-ANNUAL 2023 GROUNDWATER MONITORING REPORT

GROUNDWATER ANALYTICAL RESULTS MAP AUGUST 22, 2023

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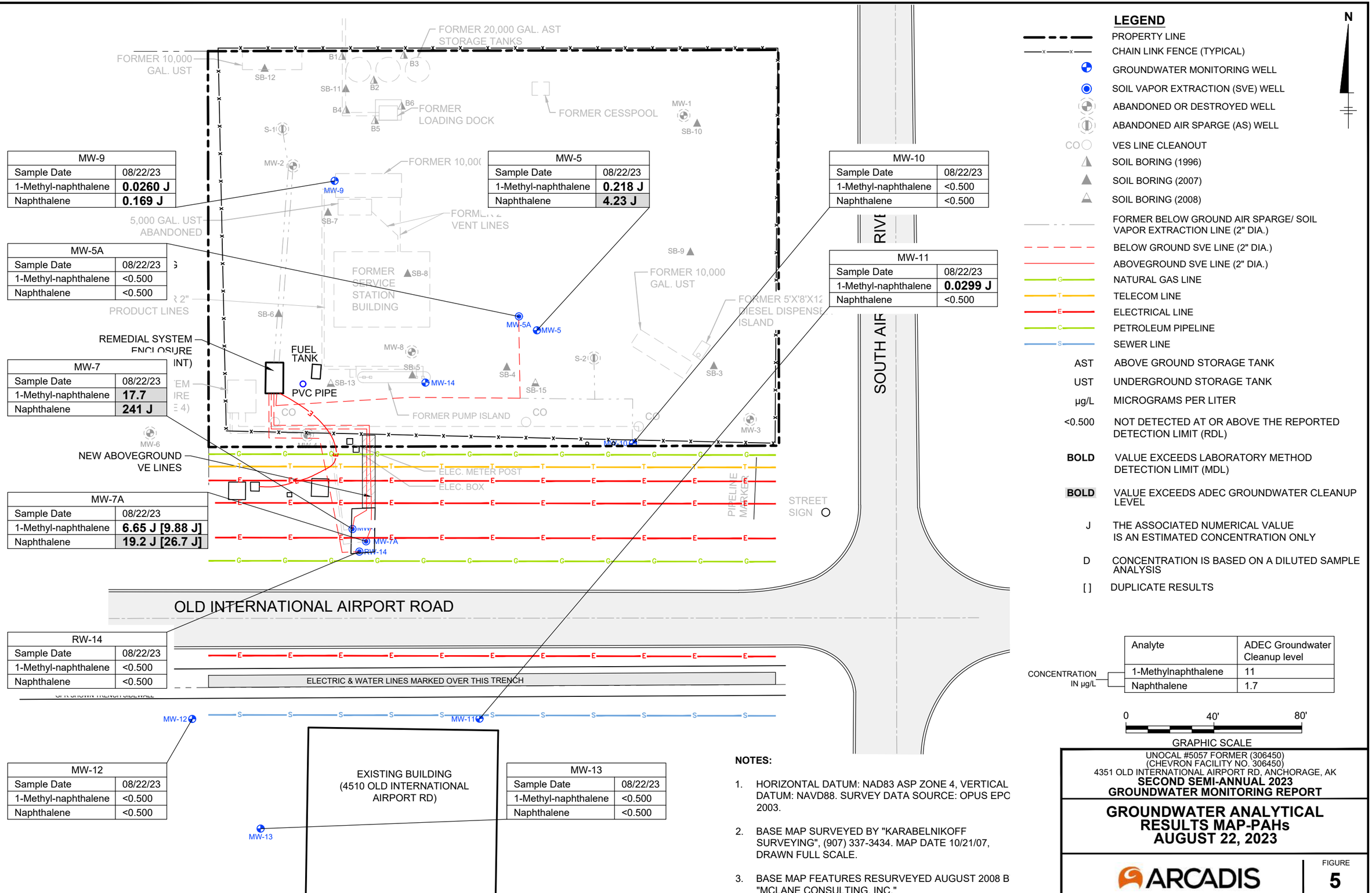
FIGURE **4**



MW-9	
Sample Date	08/22/23
1-Methyl-naphthalene	**0.0260 J**
Naphthalene	**0.169 J**

MW-5	
Sample Date	08/22/23
1-Methyl-naphthalene	**0.218 J**
Naphthalene	**4.23 J**

MW-10	
Sample Date	08/22/23
1-Methyl-naphthalene	<0.500
Naphthalene	<0.500

MW-11	
Sample Date	08/22/23
1-Methyl-naphthalene	**0.0299 J**
Naphthalene	<0.500

MW-5A	
Sample Date	08/22/23
1-Methyl-naphthalene	<0.500
Naphthalene	<0.500

MW-7	
Sample Date	08/22/23
1-Methyl-naphthalene	**17.7**
Naphthalene	**241 J**

MW-7A	
Sample Date	08/22/23
1-Methyl-naphthalene	**6.65 J [9.88 J]**
Naphthalene	**19.2 J [26.7 J]**

RW-14	
Sample Date	08/22/23
1-Methyl-naphthalene	<0.500
Naphthalene	<0.500

MW-12	
Sample Date	08/22/23
1-Methyl-naphthalene	<0.500
Naphthalene	<0.500

MW-13	
Sample Date	08/22/23
1-Methyl-naphthalene	<0.500
Naphthalene	<0.500

LEGEND

- PROPERTY LINE
- CHAIN LINK FENCE (TYPICAL)
- GROUNDWATER MONITORING WELL
- SOIL VAPOR EXTRACTION (SVE) WELL
- ABANDONED OR DESTROYED WELL
- ABANDONED AIR SPARGE (AS) WELL
- CO VES LINE CLEANOUT
- SOIL BORING (1996)
- SOIL BORING (2007)
- SOIL BORING (2008)
- FORMER BELOW GROUND AIR SPARGE/ SOIL VAPOR EXTRACTION LINE (2" DIA.)
- BELOW GROUND SVE LINE (2" DIA.)
- ABOVEGROUND SVE LINE (2" DIA.)
- NATURAL GAS LINE
- TELECOM LINE
- ELECTRICAL LINE
- PETROLEUM PIPELINE
- SEWER LINE

AST	ABOVE GROUND STORAGE TANK
UST	UNDERGROUND STORAGE TANK
µg/L	MICROGRAMS PER LITER
<0.500	NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT (RDL)
BOLD	VALUE EXCEEDS LABORATORY METHOD DETECTION LIMIT (MDL)
BOLD	VALUE EXCEEDS ADEC GROUNDWATER CLEANUP LEVEL
J	THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY
D	CONCENTRATION IS BASED ON A DILUTED SAMPLE ANALYSIS
[ ]	DUPLICATE RESULTS

CONCENTRATION IN µg/L

Analyte	ADEC Groundwater Cleanup level
1-Methylnaphthalene	11
Naphthalene	1.7

0 40' 80'

GRAPHIC SCALE

NOTES:

1. HORIZONTAL DATUM: NAD83 ASP ZONE 4, VERTICAL DATUM: NAVD88. SURVEY DATA SOURCE: OPUS EPC 2003.
2. BASE MAP SURVEYED BY "KARABELNIKOFF SURVEYING", (907) 337-3434. MAP DATE 10/21/07, DRAWN FULL SCALE.
3. BASE MAP FEATURES RESURVEYED AUGUST 2008 B "MCLANE CONSULTING, INC."

UNOCAL #5057 FORMER (306450)
(CHEVRON FACILITY NO. 306450)
4351 OLD INTERNATIONAL AIRPORT RD, ANCHORAGE, AK
SECOND SEMI-ANNUAL 2023 GROUNDWATER MONITORING REPORT

GROUNDWATER ANALYTICAL RESULTS MAP-PAHs AUGUST 22, 2023

ARCADIS

FIGURE **5**

Tables

Table 1
Groundwater Monitoring Schedule
Second Semi-Annual 2023
Unocal #5057 Former (306450) (Chevron Facility No.306450)
4351 Old International Airport Road,
Anchorage, Alaska

Well ID	Sample Schedule	Gauge	Sample	Comment
MW-5	Semi Annual	Y	Y	
MW-5A	Semi Annual	Y	Y	
MW-7	Semi Annual	Y	Y	
MW-7A	Semi Annual	Y	Y	
MW-9	Semi Annual	Y	Y	
MW-10	Semi Annual	Y	Y	
MW-11	Semi Annual	Y	Y	
MW-12	Semi Annual	Y	Y	
MW-13	Semi Annual	Y	Y	
MW-14	Semi Annual	N	N	Dry
RW-14	Semi Annual	Y	Y	
BD	Semi Annual	N	Y	
TB	Semi Annual	N	Y	VOCs Full Suite only
EQB	Semi Annual	N	Y	
MS/MSD	Semi Annual	N	Y	

Note:
Wells are sampled for volatile organic compounds by United States Environmental Protection Agency (USEPA) Method 8260D and 123-TCP/EDB Low level 524/8260D, for semi-volatile organic compounds by USEPA Method 8270E-SIM, Total lead by USEPA Method 6010D, gasoline range organics by Alaska Method AK101, and diesel range organics by Alaska Method AK102.

Table 2
Current Groundwater Gauging and Analytical Results
Second Semi-Annual 2023
Unocal #5057 Former (306450) (Chevron Facility No.306450)
4351 Old International Airport Road,
Anchorage, Alaska

Well ID	Sample Date	TOC (feet bTOC)	DTW (feet bTOC)	GW Elev. (feet)	DRO	GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Naphthalene	Acetone
ADEC Groundwater Cleanup Levels					1,500	2,200	4.6	1,100	15	190	140	0.075	1.7	1.7	14,000
MW-5	08/22/23	83.11	44.10	39.01	**260 J**	**3,350 J**	**71.8**	**14.9 J**	**110**	**122**	<1.00	***<0.500 J***	**0.953 J**	**2.89 J**	<50.0
MW-5A	08/22/23	83.09	32.15	50.94	**267 J**	<100 B	<1.00	<1.00	<1.00	<3.00	<1.00	<0.00500 J	<1.00	***<5.00***	<50.0
MW-7	08/22/23	85.68	53.09	32.59	**23,700 J**	**98,500**	**2,990 D**	**28,200 D**	**3,420 D**	**22,000 D**	<1.00 J	**260 D J**	**62.6 J**	**189 J**	**494 J**
MW-7A	08/22/23	86.82	54.18	32.64	**3,050 [4,060]**	**7,730 [10,200]**	**87.5 J [44.6]**	**152 [86.8]**	**54.7 J [39.2]**	**5,870 J [3,760 J]**	<100 [<20.0]	**19.0 D J [11.0 D J]**	***<100* [9.94 J]**	***<500* [40.2 J]**	<5,000 [<1,000]
MW-9	08/22/23	83.20	33.80	49.40	**13,300**	**1,770**	**428**	<10.0	**17.5**	**30.0 J**	<10.0	<0.0500 J	***<10.0***	***<50.0***	<500
MW-10	08/22/23	82.52	29.60	52.92	<800	<100 B	<1.00	<1.00	<1.00	<3.00	<1.00	<0.00500 J	<1.00	**2.63 J**	<50.0
MW-11	08/22/23	83.95	50.21	33.74	**194 J**	<100 B	<1.00	<1.00	<1.00	<3.00	<1.00	<0.00500 J	<1.00	***<5.00***	<50.0
MW-12	08/22/23	84.04	52.11	31.93	**218 J**	<100	<1.00	<1.00	<1.00	<3.00	<1.00	<0.00500 J	<1.00	***<5.00***	<50.0
MW-13	08/22/23	84.89	52.92	31.97	**219 J**	<100	<1.00	<1.00	<1.00	<3.00	<1.00	<0.00500 J	<1.00	***<5.00***	<50.0
MW-14	08/22/23	83.66	DRY	--	--	--	--	--	--	--	--	--	--	--	--
RW-14	08/22/23	83.89	51.20	32.69	<800	<100 B	**0.882 J**	<1.00	**0.546 J**	<3.00	<1.00	<0.00500 J	**3.14**	***<5.00***	<50.0

Table 2
Current Groundwater Gauging and Analytical Results
Second Semi-Annual 2023
Unocal #5057 Former (306450) (Chevron Facility No.306450)
4351 Old International Airport Road,
Anchorage, Alaska

Well ID	Sample Date	Acrolein	Acrylonitrile	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon Disulfide
ADEC Groundwa		--	--	62	--	1.3	33	7.5	1,000	2,000	690	810
MW-5	08/22/23	<50.0	<10.0	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	**0.153 J**	<1.00	<1.00
MW-5A	08/22/23	<50.0	<10.0	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00
MW-7	08/22/23	<50.0 J	<10.0 J	<1.00 J	<1.00 J	<1.00 J	<1.00 J	<5.00 J	<1.00 J	**10.3 J**	<1.00 J	<1.00 J
MW-7A	08/22/23	<5,000 J [<1,000 J]	<1,000 [<200]	***<100*** [<20.0]	<100 [<20.0]	***<100 [<20.0]***	***<100*** [<20.0]	***<500 J [<100 J]***	<100 [<20.0]	<100 **[4.90 J]**	<100 [<20.0]	<100 [<20.0]
MW-9	08/22/23	<500 J	<100	<10.0	<10.0	***<10.0***	<10.0	***<50.0 J***	<10.0	<10.0	<10.0	<10.0
MW-10	08/22/23	<50.0	<10.0	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00
MW-11	08/22/23	<50.0	<10.0	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00
MW-12	08/22/23	<50.0	<10.0	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00
MW-13	08/22/23	<50.0	<10.0	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00
MW-14	08/22/23	--	--	--	--	--	--	--	--	--	--	--
RW-14	08/22/23	<50.0	<10.0	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00

Table 2
Current Groundwater Gauging and Analytical Results
Second Semi-Annual 2023
Unocal #5057 Former (306450) (Chevron Facility No.306450)
4351 Old International Airport Road,
Anchorage, Alaska

Well ID	Sample Date	Carbon Tetrachloride	Chlorobenzene	Chlorodibromo-methane (Dibromochloro-methane)	Chloroethane (Ethyl Chloride)	Chloroform	Chloromethane	2-Chlorotoluene (o-Chlorotoluene)	4-Chlorotoluene (p-Chlorotoluene)	1,2-Dibromo-3-chloropropane	Dibromomethane (Methylene bromide)	1,2-Dichlorobenzene
	ADEC Groundwa	4.6	78	8.7	21,000	2.2	190	--	--	--	8.3	300
MW-5	08/22/23	<1.00	<1.00	<1.00	<5.00	***<5.00***	<2.50 J	<1.00	<1.00	<5.00	<1.00	<1.00
MW-5A	08/22/23	<1.00	<1.00	<1.00	<5.00	***<5.00***	<2.50	<1.00	<1.00	<5.00	<1.00	<1.00
MW-7	08/22/23	<1.00 J	<1.00 J	<1.00 J	<5.00 J	***<5.00 J***	<2.50 J	<1.00 J	<1.00 J	<5.00 J	<1.00 J	<1.00 J
MW-7A	08/22/23	***<100 [<20.0]***	***<100*** [<20.0]	***<100 [<20.0]***	<500 [<100]	***<500 [<100]***	***<250*** [<50.0]	<100 [<20.0]	<100 [<20.0]	<500 [<100]	***<100 [<20.0]***	<100 [<20.0]
MW-9	08/22/23	***<10.0***	<10.0	***<10.0***	<50.0	***<50.0***	<25.0	<10.0	<10.0	<50.0	***<10.0***	<10.0
MW-10	08/22/23	<1.00	<1.00	<1.00	<5.00	***<5.00***	<2.50	<1.00	<1.00	<5.00	<1.00	<1.00
MW-11	08/22/23	<1.00	<1.00	<1.00	<5.00	***<5.00***	<2.50	<1.00	<1.00	<5.00	<1.00	<1.00
MW-12	08/22/23	<1.00	<1.00	<1.00	<5.00	***<5.00***	<2.50	<1.00	<1.00	<5.00	<1.00	<1.00
MW-13	08/22/23	<1.00	<1.00	<1.00	<5.00	***<5.00***	<2.50	<1.00	<1.00	<5.00	<1.00	<1.00
MW-14	08/22/23	--	--	--	--	--	--	--	--	--	--	--
RW-14	08/22/23	<1.00	<1.00	<1.00	<5.00	***<5.00***	<2.50	<1.00	<1.00	<5.00	<1.00	<1.00

Table 2
Current Groundwater Gauging and Analytical Results
Second Semi-Annual 2023
Unocal #5057 Former (306450) (Chevron Facility No.306450)
4351 Old International Airport Road,
Anchorage, Alaska

Well ID	Sample Date	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane (Freon 12)	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene (cis-1,2-Dichloroethylene)	trans-1,2-Dichloroethene (trans-1,2-Dichloroethylene)	1,2-Dichloropropane	1,3-Dichloropropane
ADEC Groundwa		300	4.8	200	28	280	36	360	8.2	--
MW-5	08/22/23	<1.00	<1.00	<5.00	<1.00 J	<1.00	<1.00	<1.00	<1.00	<1.00
MW-5A	08/22/23	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-7	08/22/23	<1.00 J	<1.00 J	<5.00 J	<1.00 J	<1.00 J	<1.00 J	<1.00 J	**2.94 J**	<1.00 J
MW-7A	08/22/23	<100 [<20.0]	***<100 [<20.0]***	***<500*** [<100]	***<100*** [<20.0]	<100 [<20.0]	***<100*** [<20.0]	<100 [<20.0]	***<100 [<20.0]***	<100 [<20.0]
MW-9	08/22/23	<10.0	***<10.0***	<50.0	<10.0	<10.0	<10.0	<10.0	***<10.0***	<10.0
MW-10	08/22/23	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-11	08/22/23	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-12	08/22/23	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-13	08/22/23	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-14	08/22/23	--	--	--	--	--	--	--	--	--
RW-14	08/22/23	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00

Table 2
Current Groundwater Gauging and Analytical Results
Second Semi-Annual 2023
Unocal #5057 Former (306450) (Chevron Facility No.306450)
4351 Old International Airport Road,
Anchorage, Alaska

Well ID	Sample Date	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Di-isopropyl ether	Hexachloro-1,3-butadiene (Hexachlorobutadiene)	Isopropylbenzene (Cumene)	p-Isopropyltoluene	2-Butanone (Methyl ethyl ketone)
ADEC Groundwa		--	--	--	--	--	1.4	450	--	5,600
MW-5	08/22/23	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	**3.73 J**	<1.00	<10.0
MW-5A	08/22/23	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0
MW-7	08/22/23	<1.00 J	<1.00 J	<1.00 J	<1.00 J	<1.00 J	<1.00 J	**127 J**	**5.48 J**	**147 J**
MW-7A	08/22/23	<100 [<20.0 J]	<100 [<20.0]	<100 [<20.0]	<100 [<20.0]	<100 [<20.0]	***<100 [<20.0]***	**12.9 J [8.64 J]**	**51.1 J [4.27 J]**	<1,000 [<200]
MW-9	08/22/23	<10.0	<10.0	<10.0	<10.0	<10.0	***<10.0***	<10.0	<10.0	<100
MW-10	08/22/23	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0
MW-11	08/22/23	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0
MW-12	08/22/23	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0
MW-13	08/22/23	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0
MW-14	08/22/23	--	--	--	--	--	--	--	--	--
RW-14	08/22/23	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0

Table 2
Current Groundwater Gauging and Analytical Results
Second Semi-Annual 2023
Unocal #5057 Former (306450) (Chevron Facility No.306450)
4351 Old International Airport Road,
Anchorage, Alaska

Well ID	Sample Date	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methylene chloride	n-Propylbenzene (Propylbenzene)	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene (Tetrachloroethylene)	1,2,3-Trichlorobenzene
	ADEC Groundwa	6,300	110	660	1,200	5.7	0.76	41	7.0
MW-5	08/22/23	<10.0	<5.00 J	**5.94 J**	<1.00	<1.00	***<1.00***	<1.00	<1.00
MW-5A	08/22/23	<10.0	<5.00 J	<1.00	<1.00	<1.00	***<1.00***	<1.00	<1.00
MW-7	08/22/23	**62.6 J**	<5.00 J	**222 D J**	<1.00 J	<1.00 J	***<1.00 J***	<1.00 J	<1.00 J
MW-7A	08/22/23	<1,000 [<200]	***<500*** [<100]	**13.0 J [9.15 J]**	<100 [<20.0]	***<100 [<20.0 J]***	***<100 [<20.0]***	***<100*** [<20.0]	***<100 [<20.0]***
MW-9	08/22/23	<100	<50.0	<10.0	<10.0	***<10.0***	***<10.0***	<10.0	***<10.0***
MW-10	08/22/23	<10.0	<5.00 J	<1.00	<1.00	<1.00	***<1.00***	<1.00	<1.00
MW-11	08/22/23	<10.0	<5.00 J	<1.00	<1.00	<1.00	***<1.00***	<1.00	<1.00
MW-12	08/22/23	<10.0	<5.00 J	<1.00	<1.00	<1.00	***<1.00***	<1.00	<1.00
MW-13	08/22/23	<10.0	<5.00 J	<1.00	<1.00	<1.00	***<1.00***	<1.00	<1.00
MW-14	08/22/23	--	--	--	--	--	--	--	--
RW-14	08/22/23	<10.0	<5.00 J	<1.00	<1.00	<1.00	***<1.00***	<1.00	<1.00

Table 2
Current Groundwater Gauging and Analytical Results
Second Semi-Annual 2023
Unocal #5057 Former (306450) (Chevron Facility No.306450)
4351 Old International Airport Road,
Anchorage, Alaska

Well ID	Sample Date	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (Trichloroethylene)	Trichlorofluoromethane (Freon 11)	1,2,3-Trichloropropane	1,1,2-Trichlorotrifluoroethane (1,1,2-Trichloro-1,2,2-trifluroethane) (Freon 113)	1,2,3-Trimethylbenzene
	ADEC Groundwa	4.0	8,000	0.41	2.8	5,200	0.0075	10,000	--
MW-5	08/22/23	<1.00	<1.00	***<1.00***	<1.00	<5.00	***<0.500 J***	<1.00	**5.49 J**
MW-5A	08/22/23	<1.00	<1.00	***<1.00***	<1.00	<5.00	<0.00500 J	<1.00	<1.00
MW-7	08/22/23	<1.00 J	<1.00 J	***<1.00 J***	**0.486 J**	<5.00 J	***<5.00 J***	<1.00 J	**580 D**
MW-7A	08/22/23	***<100 [<20.0]***	<100 [<20.0]	***<100 [<20.0]***	***<100 [<50.0]***	<500 [<100]	***<5.00 J [<5.00 J]***	<100 [<20.0]	**516 [322]**
MW-9	08/22/23	***<10.0***	<10.0	***<10.0***	***<10.0***	<50.0	***<0.0500 J***	<10.0	<10.0
MW-10	08/22/23	<1.00	<1.00	***<1.00***	<1.00	<5.00	<0.00500 J	<1.00	<1.00
MW-11	08/22/23	<1.00	<1.00	***<1.00***	<1.00	<5.00	<0.00500 J	<1.00	<1.00
MW-12	08/22/23	<1.00	<1.00	***<1.00***	<1.00	<5.00	<0.00500 J	<1.00	<1.00
MW-13	08/22/23	<1.00	<1.00	***<1.00***	<1.00	<5.00	<0.00500 J	<1.00	<1.00
MW-14	08/22/23	--	--	--	--	--	--	--	--
RW-14	08/22/23	<1.00	<1.00	***<1.00***	<1.00	<5.00	<0.00500 J	<1.00	<1.00

Table 2
Current Groundwater Gauging and Analytical Results
Second Semi-Annual 2023
Unocal #5057 Former (306450) (Chevron Facility No.306450)
4351 Old International Airport Road,
Anchorage, Alaska

Well ID	Sample Date	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Lead	Comments
	ADEC Groundwa	56	60	0.19	15	
MW-5	08/22/23	**49.8**	**1.59 J**	***<1.00***	<6.00	
MW-5A	08/22/23	<1.00	<1.00	***<1.00***	<6.00	
MW-7	08/22/23	**2,090 D**	**597 D**	***<1.00 J***	**280**	
MW-7A	08/22/23	**1,810 J [1,100 J]**	**554 J [315 J]**	***<100 [<20.0]***	**27.7 [30.2]**	
MW-9	08/22/23	<10.0	<10.0	***<10.0***	<6.00	
MW-10	08/22/23	<1.00	<1.00	***<1.00***	<6.00	
MW-11	08/22/23	<1.00	<1.00	***<1.00***	<6.00	
MW-12	08/22/23	<1.00	<1.00	***<1.00***	**5.14 J**	
MW-13	08/22/23	<1.00	<1.00	***<1.00***	<6.00	
MW-14	08/22/23	--	--	--	--	Dry, No water to sample
RW-14	08/22/23	<1.00	<1.00	***<1.00***	<6.00	

Table 2
Current Groundwater Gauging and Analytical Results
Second Semi-Annual 2023
Unocal #5057 Former (306450) (Chevron Facility No.306450)
4351 Old International Airport Road,
Anchorage, Alaska

Notes:
1. GRO analyzed by Alaska Method AK101, DRO analyzed by Alaska Method AK102.
2. Lead analyzed by United States Environmental Protection Agency (USEPA) Method 6010D.
3. 1,2-Dibromoethane and 1,2,3-Trichloropropane was analyzed by USEPA 524 and 8260D and the method with the lowest RDL is considered.
4. Remaining constituents of concern analyzed by USEPA Method 8260D except where noted above.
5. All results reported in micrograms per liter.

Acronyms and Abbreviations:

-- =	Not Available or Not Analyzed
[ ] =	Blind Duplicate Sample Result
<0.00100 =	Not detected at or above the reported detection limit (RDL)
µg/L =	Micrograms per liter
ADEC =	Alaska Department of Environmental Conservation
Bold =	Detected above laboratory method detection limit (MDL)
Bold and *Italicized* =	Constituent considered non-detect, however Laboratory RDL is greater than the ADEC Groundwater Cleanup Level
Bold and Shaded =	Value exceeds ADEC Groundwater Cleanup Level
DTW =	Depth to groundwater
feet =	Depth to groundwater
bTOC =	Below top of casing
GW Elev =	Groundwater elevation
ID =	Identification
MW =	Groundwater monitoring well
TOC =	Top of casing
GRO =	Total petroleum hydrocarbons, gasoline range organics
DRO =	Total petroleum hydrocarbons, diesel range organics
MTBE=	Methyl tert-butyl ether
EDB =	1,2-Dibromoethane
EDC =	1,2-Dichloroethane
J =	The associated numerical value is an estimated concentration only
B =	The same analyte is found in the associated blank
D =	Concentration is based on a diluted sample analysis.

Reference:
18 AAC 75. Department of Environmental Conservation, State of Alaska, Oil and Other Hazardous Substances Pollution Control, Table C. Groundwater Cleanup Levels, as amended through October 18, 2023.

Table 3
Current Groundwater Poly Aromatic Hydrocarbons (PAH) Analytical Results
Second Semi-Annual 2023
Unocal #5057 Former (306450) (Chevron Facility No.306450)
4351 Old International Airport Road,
Anchorage, Alaska

Well ID	Sample Date	Ace-naphthene	Ace-naphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	2-Chloro-naphthalene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	1-Methyl-naphthalene	2-Methyl-naphthalene	Naphth-alene	Phenanth-rene	Pyrene	Comments
ADEC Groundwater Cleanup		530	260	43	0.3	0.25	2.5	0.26	0.8	750	2.0	0.25	260	290	0.19	11	36	1.7	170	120	
MW-5	08/22/23	<0.0500 J	<0.0500 J	<0.0500 J	<0.0500 J	<0.0500	<0.0500	<0.0500	<0.250	<0.500 J	<0.0500 J	<0.0500	**0.0121 J**	<0.0500 J	<0.0500	**0.218 J**	**0.250 J**	**4.23 J**	<0.0500 J	<0.0500 J	
MW-5A	08/22/23	**0.0659**	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.250	<0.500	<0.0500	<0.0500	**0.0664**	<0.0500	<0.0500	<0.500	<0.500	<0.500	<0.0500	**0.0355 J**	
MW-7	08/22/23	**1.06**	<0.500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.250	**0.394 D J**	<0.0500	<0.0500	**0.0314 J**	**0.187 D J**	<0.0500	**17.7**	**32.8**	**241 J**	**0.0654**	**0.0245 J**	
MW-7A	08/22/23	**0.0983 [0.142]**	<0.0500 [<0.0500]	<0.0500 [<0.0500]	**0.0408 J [0.0292 J]**	<0.0500 [<0.0500]	**0.0237 J** [<0.0500]	<0.0500 [<0.0500]	<0.250 [<0.250]	<0.500 [<0.500]	**0.0391 J [0.0281 J]**	<0.0500 [<0.0500]	**0.0980 [0.0783]**	**0.0638 [0.0979]**	<0.0500 [<0.0500]	**6.65 J [9.88 J]**	**7.53 J [11.8 J]**	**19.2 J [26.7 J]**	**0.0857 [0.0862]**	**0.107 [0.101]**	
MW-9	08/22/23	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.250	<0.500	<0.0500	<0.0500	**0.0308 J**	**0.0258 J**	<0.0500	**0.0260 J**	**0.0371 J**	**0.169 J**	**0.0304 J**	**0.0227 J**	
MW-10	08/22/23	<0.0500	<0.0500	**0.0246 J**	**0.0677**	**0.0263 J**	**0.117**	<0.0814 B	**0.112 J**	<0.500	**0.0921**	<0.0920 B	**0.0638**	<0.0500	<0.126 B	<0.500	<0.500	<0.500	**0.0503**	**0.0472 J**	
MW-11	08/22/23	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.250	<0.500	<0.0500	<0.0500	**0.0208 J**	<0.0500	<0.0500	**0.0299 J**	**0.0519 J**	<0.500	**0.0607**	**0.0213 J**	
MW-12	08/22/23	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	**0.0415 J**	<0.0500 B	<0.250	<0.500	<0.0500	<0.0500	**0.0383 J**	<0.0500	<0.0500 B	<0.500	<0.500	<0.500	**0.0285 J**	**0.0291 J**	
MW-13	08/22/23	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.250	<0.500	<0.0500	<0.0500	**0.0141 J**	<0.0500	<0.0500	<0.500	<0.500	<0.500	**0.0289 J**	<0.0500	
MW-14	08/22/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Dry, No water to sample
RW-14	08/22/23	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.250	<0.500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.500	<0.500	<0.500	<0.0500	<0.0500	

Notes:
1. Constituents of concern analyzed by USEPA Method 8270E-SIM.
2. All results reported in micrograms per liter.

Acronyms and Abbreviations:

-- = Not Available or Not Analyzed
[ ] = Blind Duplicate Sample Result
<0.0500 = Not detected at or above the reported detection limit (RDL)
µg/L = Micrograms per liter
ADEC = Alaska Department of Environmental Conservation
Bold = Detected above laboratory method detection limit (MDL)
Bold and *Italicized* = Constituent considered non-detect, however Laboratory RDL is greater than the ADEC Groundwater Cleanup Level
Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level
DTW = Depth to groundwater
feet = Relative to NAVD88
bTOC = Below top of casing
GW Elev = Groundwater elevation
ID = Identification
MW = Groundwater monitoring well
TOC = Top of casing
J = The associated numerical value is an estimated concentration only
B = The same analyte is found in the associated blank
D = Concentration is based on a diluted sample analysis.

Reference:
18 AAC 75. Department of Environmental Conservation, State of Alaska, Oil and Other Hazardous Substances Pollution Control, Table C. Groundwater Cleanup Levels, as amended through October 18, 2023.

Table 4
Historical Groundwater Gauging and Analytical Results
First Semi-Annual 2023 to Second Semi-Annual 2023
Unocal #5057 Former (306450) (Chevron Facility No.306450)
4351 Old International Airport Road,
Anchorage, Alaska

Well ID	Sample Date	TOC (feet bTOC)	DTW (feet bTOC)	GW Elev. (feet)	DRO	GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Naphthalene	Acetone	Acrolein	Acrylonitrile	Bromobenzene
ADEC Groundwater Cleanup Levels					1,500	2,200	4.6	1,100	15	190	140	0.075	1.7	1.7	14,000	--	--	62
MW-5	04/14/23	83.11	44.45	38.66	<888 B	**380**	**11.3**	**5.15**	**64.9**	**61.7 J**	<1.00	***<0.250***	<1.00	**1.12 J**	<50.0	<50.0 J	<10.0	<1.00
MW-5	08/22/23	83.11	44.10	39.01	**260 J**	**3,350 J**	**71.8**	**14.9 J**	**110**	**122**	<1.00	***<0.500 J***	**0.953 J**	**2.89 J**	<50.0	<50.0	<10.0	<1.00
MW-5A	04/14/23	83.09	32.77	50.32	<800 B	**572**	<1.00	<1.00	**0.204 J**	**1.31 J**	<1.00	<0.00500	<1.00	<5.00 J	<50.0	<50.0 J	<10.0	<1.00
MW-5A	08/22/23	83.09	32.15	50.94	**267 J**	<100 B	<1.00	<1.00	<1.00	<3.00	<1.00	<0.00500 J	<1.00	***<5.00***	<50.0	<50.0	<10.0	<1.00
MW-7	04/14/23	85.68	53.25	32.43	**21,700 [21,400]**	**108,000 [113,000]**	**3,310 D [3,250]**	**32,900 D [30,900 D]**	**3,650 D [3,490]**	**24,000 D [22,500 D]**	<10.0 [<20.0]	**228 D [228 D]**	**104 [105]**	**267 J [277 J]**	<500 [<1,000]	<500 J [<1,000 J]	<100 [<200]	<10.0 [<20.0]
MW-7	08/22/23	85.68	53.09	32.59	**23,700 J**	**98,500**	**2,990 D**	**28,200 D**	**3,420 D**	**22,000 D**	<1.00 J	**260 D J**	**62.6 J**	**189 J**	**494 J**	<50.0 J	<10.0 J	<1.00 J
MW-7A	04/14/23	86.82	54.36	32.46	**1,520**	**4,680**	**22.6**	**59.8**	**32.7**	**2,170 D**	<1.00	**7.25 D**	**8.62 J**	**23.6 J**	<50.0	<50.0 J	<10.0	<1.00
MW-7A	08/22/23	86.82	54.18	32.64	**3,050 [4,060]**	**7,730 [10,200]**	**87.5 J [44.6]**	**152 [86.8]**	**54.7 J [39.2]**	**5,870 J [3,760 J]**	<100 [<20.0]	**19.0 D J [11.0 D J]**	***<100*** **[9.94 J]**	***<500*** **[40.2 J]**	<5,000 [<1,000]	<5,000 J [<1,000 J]	<1,000 [<200]	***<100*** [<20.0]
MW-9	04/14/23	83.20	34.60	48.60	**11,300**	**4,130**	**159 D**	<1.00	**10.6**	**1.52 J**	<1.00	<0.0500	**10.0**	<5.00 J	<50.0	<50.0 J	<10.0	<1.00
MW-9	08/22/23	83.20	33.80	49.40	**13,300**	**1,770**	**428**	<10.0	**17.5**	**30.0 J**	<10.0	<0.0500 J	***<10.0***	***<50.0***	<500	<500 J	<100	<10.0
MW-10	04/14/23	82.52	36.90	45.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	08/22/23	82.52	29.60	52.92	<800	<100 B	<1.00	<1.00	<1.00	<3.00	<1.00	<0.00500 J	<1.00	**2.63 J**	<50.0	<50.0	<10.0	<1.00
MW-11	04/14/23	83.95	50.79	33.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	08/22/23	83.95	50.21	33.74	**194 J**	<100 B	<1.00	<1.00	<1.00	<3.00	<1.00	<0.00500 J	<1.00	***<5.00***	<50.0	<50.0	<10.0	<1.00
MW-12	04/14/23	84.04	52.16	31.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	08/22/23	84.04	52.11	31.93	**218 J**	<100	<1.00	<1.00	<1.00	<3.00	<1.00	<0.00500 J	<1.00	***<5.00***	<50.0	<50.0	<10.0	<1.00
MW-13	04/14/23	84.89	53.00	31.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	08/22/23	84.89	52.92	31.97	**219 J**	<100	<1.00	<1.00	<1.00	<3.00	<1.00	<0.00500 J	<1.00	***<5.00***	<50.0	<50.0	<10.0	<1.00
MW-14	04/14/23	83.66	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	08/22/23	83.66	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-14	04/14/23	83.89	51.39	32.50	<800	<100	**0.831 J**	<1.00	**0.266 J**	<3.00 J	<1.00	<0.00500	**3.13**	<5.00 J	<50.0	<50.0 J	<10.0	<1.00
RW-14	08/22/23	83.89	51.20	32.69	<800	<100 B	**0.882 J**	<1.00	**0.546 J**	<3.00	<1.00	<0.00500 J	**3.14**	***<5.00***	<50.0	<50.0	<10.0	<1.00

Table 4
Historical Groundwater Gauging and Analytical Results
First Semi-Annual 2023 to Second Semi-Annual 2023
Unocal #5057 Former (306450) (Chevron Facility No.306450)
4351 Old International Airport Road,
Anchorage, Alaska

Well ID	Sample Date	TOC (feet bTOC)	DTW (feet bTOC)	GW Elev. (feet)	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chlorodibromo-methane (Dibromochloro-methane)
ADEC Groundwater Cleanup Levels					--	1.3	33	7.5	1,000	2,000	690	810	4.6	78	8.7
MW-5	04/14/23	83.11	44.45	38.66	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-5	08/22/23	83.11	44.10	39.01	<1.00	<1.00	<1.00	<5.00	<1.00	**0.153 J**	<1.00	<1.00	<1.00	<1.00	<1.00
MW-5A	04/14/23	83.09	32.77	50.32	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-5A	08/22/23	83.09	32.15	50.94	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-7	04/14/23	85.68	53.25	32.43	<10.0 [<20.0]	***<10.0 [<20.0]***	<10.0 [<20.0]	***<50.0 [<100]***	**21.7 [18.9 J]**	**14 [11.8 J]**	<10.0 [<20.0]	<10.0 [<20.0]	***<10.0 [<20.0]***	<10.0 [<20.0]	***<10.0 [<20.0]***
MW-7	08/22/23	85.68	53.09	32.59	<1.00 J	<1.00 J	<1.00 J	<5.00 J	<1.00 J	**10.3 J**	<1.00 J	<1.00 J	<1.00 J	<1.00 J	<1.00 J
MW-7A	04/14/23	86.82	54.36	32.46	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-7A	08/22/23	86.82	54.18	32.64	<100 [<20.0]	***<100 [<20.0]***	***<100*** [<20.0]	***<500 J [<100 J]***	<100 [<20.0]	<100 **[4.90 J]**	<100 [<20.0]	<100 [<20.0]	***<100 [<20.0]***	***<100*** [<20.0]	***<100 [<20.0]***
MW-9	04/14/23	83.20	34.60	48.60	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-9	08/22/23	83.20	33.80	49.40	<10.0	***<10.0***	<10.0	***<50.0 J***	<10.0	<10.0	<10.0	<10.0	***<10.0***	<10.0	***<10.0***
MW-10	04/14/23	82.52	36.90	45.62	--	--	--	--	--	--	--	--	--	--	--
MW-10	08/22/23	82.52	29.60	52.92	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-11	04/14/23	83.95	50.79	33.16	--	--	--	--	--	--	--	--	--	--	--
MW-11	08/22/23	83.95	50.21	33.74	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-12	04/14/23	84.04	52.16	31.88	--	--	--	--	--	--	--	--	--	--	--
MW-12	08/22/23	84.04	52.11	31.93	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-13	04/14/23	84.89	53.00	31.89	--	--	--	--	--	--	--	--	--	--	--
MW-13	08/22/23	84.89	52.92	31.97	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-14	04/14/23	83.66	DRY	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	08/22/23	83.66	DRY	--	--	--	--	--	--	--	--	--	--	--	--
RW-14	04/14/23	83.89	51.39	32.50	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
RW-14	08/22/23	83.89	51.20	32.69	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00

Table 4
Historical Groundwater Gauging and Analytical Results
First Semi-Annual 2023 to Second Semi-Annual 2023
Unocal #5057 Former (306450) (Chevron Facility No.306450)
4351 Old International Airport Road,
Anchorage, Alaska

Well ID	Sample Date	TOC (feet bTOC)	DTW (feet bTOC)	GW Elev. (feet)	Chloroethane (Ethyl Chloride)	Chloroform	Chloromethane	2-Chlorotoluene (o-Chlorotoluene)	4-Chlorotoluene (p-Chlorotoluene)	1,2-Dibromo-3-chloropropane	Dibromomethane (Methylene bromide)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane (Freon 12)
ADEC Groundwater Cleanup Levels					21,000	2.2	190	--	--	--	8.3	300	300	4.8	200
MW-5	04/14/23	83.11	44.45	38.66	<5.00	***<5.00***	<2.50	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<5.00
MW-5	08/22/23	83.11	44.10	39.01	<5.00	***<5.00***	<2.50 J	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<5.00
MW-5A	04/14/23	83.09	32.77	50.32	<5.00	***<5.00***	<2.50	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<5.00
MW-5A	08/22/23	83.09	32.15	50.94	<5.00	***<5.00***	<2.50	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<5.00
MW-7	04/14/23	85.68	53.25	32.43	<50.0 [<100]	***<50.0 [<100]***	<25.0 [<50.0]	<10.0 [<20.0]	<10.0 [<20.0]	<50.0 [<100]	***<10.0 [<20.0]***	<10.0 [<20.0]	***<10.0 [<20.0]***	***<10.0 [<20.0]***	<50.0 [<100]
MW-7	08/22/23	85.68	53.09	32.59	<5.00 J	***<5.00 J***	<2.50 J	<1.00 J	<1.00 J	<5.00 J	<1.00 J	<1.00 J	<1.00 J	<1.00 J	<5.00 J
MW-7A	04/14/23	86.82	54.36	32.46	<5.00	***<5.00***	<2.50	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<5.00
MW-7A	08/22/23	86.82	54.18	32.64	<500 [<100]	***<500 [<100]***	***<250*** [<50.0]	<100 [<20.0]	<100 [<20.0]	<500 [<100]	***<100 [<20.0]***	<100 [<20.0]	<100 [<20.0]	***<100 [<20.0]***	***<500*** [<100]
MW-9	04/14/23	83.20	34.60	48.60	<5.00	***<5.00***	<2.50	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<5.00
MW-9	08/22/23	83.20	33.80	49.40	<50.0	***<50.0***	<25.0	<10.0	<10.0	<50.0	***<10.0***	<10.0	<10.0	***<10.0***	<50.0
MW-10	04/14/23	82.52	36.90	45.62	--	--	--	--	--	--	--	--	--	--	--
MW-10	08/22/23	82.52	29.60	52.92	<5.00	***<5.00***	<2.50	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<5.00
MW-11	04/14/23	83.95	50.79	33.16	--	--	--	--	--	--	--	--	--	--	--
MW-11	08/22/23	83.95	50.21	33.74	<5.00	***<5.00***	<2.50	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<5.00
MW-12	04/14/23	84.04	52.16	31.88	--	--	--	--	--	--	--	--	--	--	--
MW-12	08/22/23	84.04	52.11	31.93	<5.00	***<5.00***	<2.50	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<5.00
MW-13	04/14/23	84.89	53.00	31.89	--	--	--	--	--	--	--	--	--	--	--
MW-13	08/22/23	84.89	52.92	31.97	<5.00	***<5.00***	<2.50	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<5.00
MW-14	04/14/23	83.66	DRY	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	08/22/23	83.66	DRY	--	--	--	--	--	--	--	--	--	--	--	--
RW-14	04/14/23	83.89	51.39	32.50	<5.00	***<5.00***	<2.50	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<5.00
RW-14	08/22/23	83.89	51.20	32.69	<5.00	***<5.00***	<2.50	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<5.00

Table 4
Historical Groundwater Gauging and Analytical Results
First Semi-Annual 2023 to Second Semi-Annual 2023
Unocal #5057 Former (306450) (Chevron Facility No.306450)
4351 Old International Airport Road,
Anchorage, Alaska

Well ID	Sample Date	TOC (feet bTOC)	DTW (feet bTOC)	GW Elev. (feet)	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene (cis-1,2-Dichloroethylene)	trans-1,2-Dichloroethene (trans-1,2-Dichloroethylene)	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
ADEC Groundwater Cleanup Levels					28	280	36	360	8.2	--	--	--	--	--
MW-5	04/14/23	83.11	44.45	38.66	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-5	08/22/23	83.11	44.10	39.01	<1.00 J	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-5A	04/14/23	83.09	32.77	50.32	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-5A	08/22/23	83.09	32.15	50.94	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-7	04/14/23	85.68	53.25	32.43	<10.0 [<20.0]	<10.0 [<20.0]	<10.0 [<20.0]	<10.0 [<20.0]	***<10.0 [<20.0]***	<10.0 [<20.0]	<10.0 [<20.0]	<10.0 [<20.0]	***<10.0 [<20.0]***	***<10.0 [<20.0]***
MW-7	08/22/23	85.68	53.09	32.59	<1.00 J	<1.00 J	<1.00 J	<1.00 J	**2.94 J**	<1.00 J	<1.00 J	<1.00 J	<1.00 J	<1.00 J
MW-7A	04/14/23	86.82	54.36	32.46	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-7A	08/22/23	86.82	54.18	32.64	***<100*** [<20.0]	<100 [<20.0]	***<100*** [<20.0]	<100 [<20.0]	***<100 [<20.0]***	<100 [<20.0]	<100 [<20.0 J]	<100 [<20.0]	<100 [<20.0]	<100 [<20.0]
MW-9	04/14/23	83.20	34.60	48.60	<1.00	<1.00	<1.00	<1.00	**0.912 J**	<1.00	<1.00	<1.00	<1.00	<1.00
MW-9	08/22/23	83.20	33.80	49.40	<10.0	<10.0	<10.0	<10.0	***<10.0***	<10.0	<10.0	<10.0	<10.0	<10.0
MW-10	04/14/23	82.52	36.90	45.62	--	--	--	--	--	--	--	--	--	--
MW-10	08/22/23	82.52	29.60	52.92	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-11	04/14/23	83.95	50.79	33.16	--	--	--	--	--	--	--	--	--	--
MW-11	08/22/23	83.95	50.21	33.74	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-12	04/14/23	84.04	52.16	31.88	--	--	--	--	--	--	--	--	--	--
MW-12	08/22/23	84.04	52.11	31.93	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-13	04/14/23	84.89	53.00	31.89	--	--	--	--	--	--	--	--	--	--
MW-13	08/22/23	84.89	52.92	31.97	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-14	04/14/23	83.66	DRY	--	--	--	--	--	--	--	--	--	--	--
MW-14	08/22/23	83.66	DRY	--	--	--	--	--	--	--	--	--	--	--
RW-14	04/14/23	83.89	51.39	32.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
RW-14	08/22/23	83.89	51.20	32.69	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00

Table 4
Historical Groundwater Gauging and Analytical Results
First Semi-Annual 2023 to Second Semi-Annual 2023
Unocal #5057 Former (306450) (Chevron Facility No.306450)
4351 Old International Airport Road,
Anchorage, Alaska

Well ID	Sample Date	TOC (feet bTOC)	DTW (feet bTOC)	GW Elev. (feet)	Di-isopropyl ether	Hexachloro-1,3-butadiene (Hexachlorobutadiene)	Isopropylbenzene (Cumeme)	p-Isopropyltoluene	2-Butanone (Methyl ethyl ketone)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methylene chloride	n-Propylbenzene (Propylbenzene)	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane
ADEC Groundwater Cleanup Levels					--	1.4	450	--	5,600	6,300	110	660	1,200	5.7	0.76
MW-5	04/14/23	83.11	44.45	38.66	<1.00	<1.00	**2.25 J**	<1.00	<10.0	<10.0	<5.00	**3.64**	<1.00	<1.00	***<1.00***
MW-5	08/22/23	83.11	44.10	39.01	<1.00	<1.00	**3.73 J**	<1.00	<10.0	<10.0	<5.00 J	**5.94 J**	<1.00	<1.00	***<1.00***
MW-5A	04/14/23	83.09	32.77	50.32	<1.00	<1.00	<1.00 J	<1.00	<10.0	<10.0	<5.00	<1.00	<1.00	<1.00	***<1.00***
MW-5A	08/22/23	83.09	32.15	50.94	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<5.00 J	<1.00	<1.00	<1.00	***<1.00***
MW-7	04/14/23	85.68	53.25	32.43	<10.0 [<20.0]	***<10.0 [<20.0]***	**95.6 J [89.6 J]**	<10.0 [<20.0]	<100 [<200]	<100 [<200]	<50.0 [<100]	**248 [242]**	<10.0 [<20.0]	***<10.0 [<20.0]***	***<10.0 [<20.0]***
MW-7	08/22/23	85.68	53.09	32.59	<1.00 J	<1.00 J	**127 J**	**5.48 J**	**147 J**	**62.6 J**	<5.00 J	**222 D J**	<1.00 J	<1.00 J	***<1.00 J***
MW-7A	04/14/23	86.82	54.36	32.46	<1.00	<1.00	**6.96 J**	<1.00	<10.0	<10.0	<5.00	**9.87 J**	<1.00	<1.00	***<1.00***
MW-7A	08/22/23	86.82	54.18	32.64	<100 [<20.0]	***<100 [<20.0]***	**12.9 J [8.64 J]**	**51.1 J [4.27 J]**	<1,000 [<200]	<1,000 [<200]	***<500*** [<100]	**13.0 J [9.15 J]**	<100 [<20.0]	***<100 [<20.0 J]***	***<100 [<20.0]***
MW-9	04/14/23	83.20	34.60	48.60	<1.00	<1.00	**1.60 J**	<1.00	<10.0	**1.68 J**	<5.00	**1.81**	<1.00	<1.00	***<1.00***
MW-9	08/22/23	83.20	33.80	49.40	<10.0	***<10.0***	<10.0	<10.0	<100	<100	<50.0	<10.0	<10.0	***<10.0***	***<10.0***
MW-10	04/14/23	82.52	36.90	45.62	--	--	--	--	--	--	--	--	--	--	--
MW-10	08/22/23	82.52	29.60	52.92	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<5.00 J	<1.00	<1.00	<1.00	***<1.00***
MW-11	04/14/23	83.95	50.79	33.16	--	--	--	--	--	--	--	--	--	--	--
MW-11	08/22/23	83.95	50.21	33.74	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<5.00 J	<1.00	<1.00	<1.00	***<1.00***
MW-12	04/14/23	84.04	52.16	31.88	--	--	--	--	--	--	--	--	--	--	--
MW-12	08/22/23	84.04	52.11	31.93	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<5.00 J	<1.00	<1.00	<1.00	***<1.00***
MW-13	04/14/23	84.89	53.00	31.89	--	--	--	--	--	--	--	--	--	--	--
MW-13	08/22/23	84.89	52.92	31.97	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<5.00 J	<1.00	<1.00	<1.00	***<1.00***
MW-14	04/14/23	83.66	DRY	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	08/22/23	83.66	DRY	--	--	--	--	--	--	--	--	--	--	--	--
RW-14	04/14/23	83.89	51.39	32.50	<1.00	<1.00	<1.00 J	<1.00	<10.0	<10.0	<5.00	<1.00	<1.00	<1.00	***<1.00***
RW-14	08/22/23	83.89	51.20	32.69	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<5.00 J	<1.00	<1.00	<1.00	***<1.00***

Table 4
Historical Groundwater Gauging and Analytical Results
First Semi-Annual 2023 to Second Semi-Annual 2023
Unocal #5057 Former (306450) (Chevron Facility No.306450)
4351 Old International Airport Road,
Anchorage, Alaska

Well ID	Sample Date	TOC (feet bTOC)	DTW (feet bTOC)	GW Elev. (feet)	Tetrachloroethene (Tetrachloroethylene)	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (Trichloroethylene)	Trichlorofluoromethane (Freon 11)	1,2,3-Trichloropropane	1,1,2-Trichlorotrifluoroethane (1,1,2-Trichloro-1,2,2-trifluroethane) (Freon 113)	1,2,3-Trimethy-benzene
ADEC Groundwater Cleanup Levels					41	7.0	4.0	8,000	0.41	2.8	5,200	0.0075	10,000	--
MW-5	04/14/23	83.11	44.45	38.66	<1.00	<1.00	<1.00	<1.00	***<1.00***	<1.00	<5.00	***<0.250***	<1.00	**2.93**
MW-5	08/22/23	83.11	44.10	39.01	<1.00	<1.00	<1.00	<1.00	***<1.00***	<1.00	<5.00	***<0.500 J***	<1.00	**5.49 J**
MW-5A	04/14/23	83.09	32.77	50.32	<1.00	<1.00	<1.00	<1.00	***<1.00***	<1.00	<5.00	<0.00500	<1.00	**1.98**
MW-5A	08/22/23	83.09	32.15	50.94	<1.00	<1.00	<1.00	<1.00	***<1.00***	<1.00	<5.00	<0.00500 J	<1.00	<1.00
MW-7	04/14/23	85.68	53.25	32.43	<10.0 [<20.0]	***<10.0 [<20.0]***	***<10.0 [<20.0]***	<10.0 [<20.0]	***<10.0 [<20.0]***	***<10.0 [<20.0]***	<50.0 [<100]	***<10.0 [<10.0]***	<10.0 [<20.0]	**570 [570]**
MW-7	08/22/23	85.68	53.09	32.59	<1.00 J	<1.00 J	<1.00 J	<1.00 J	***<1.00 J***	**0.486 J**	<5.00 J	***<5.00 J***	<1.00 J	**580 D**
MW-7A	04/14/23	86.82	54.36	32.46	<1.00	<1.00	<1.00	<1.00	***<1.00***	<1.00	<5.00	***<1.25***	<1.00	**187**
MW-7A	08/22/23	86.82	54.18	32.64	***<100*** [<20.0]	***<100 [<20.0]***	***<100 [<20.0]***	<100 [<20.0]	***<100 [<20.0]***	***<100 [<50.0]***	<500 [<100]	***<5.00 J [<5.00 J]***	<100 [<20.0]	**516 [322]**
MW-9	04/14/23	83.20	34.60	48.60	<1.00	<1.00	<1.00	<1.00	***<1.00***	**0.361 J**	<5.00	***<0.0500***	<1.00	<1.00
MW-9	08/22/23	83.20	33.80	49.40	<10.0	***<10.0***	***<10.0***	<10.0	***<10.0***	***<10.0***	<50.0	***<0.0500 J***	<10.0	<10.0
MW-10	04/14/23	82.52	36.90	45.62	--	--	--	--	--	--	--	--	--	--
MW-10	08/22/23	82.52	29.60	52.92	<1.00	<1.00	<1.00	<1.00	***<1.00***	<1.00	<5.00	<0.00500 J	<1.00	<1.00
MW-11	04/14/23	83.95	50.79	33.16	--	--	--	--	--	--	--	--	--	--
MW-11	08/22/23	83.95	50.21	33.74	<1.00	<1.00	<1.00	<1.00	***<1.00***	<1.00	<5.00	<0.00500 J	<1.00	<1.00
MW-12	04/14/23	84.04	52.16	31.88	--	--	--	--	--	--	--	--	--	--
MW-12	08/22/23	84.04	52.11	31.93	<1.00	<1.00	<1.00	<1.00	***<1.00***	<1.00	<5.00	<0.00500 J	<1.00	<1.00
MW-13	04/14/23	84.89	53.00	31.89	--	--	--	--	--	--	--	--	--	--
MW-13	08/22/23	84.89	52.92	31.97	<1.00	<1.00	<1.00	<1.00	***<1.00***	<1.00	<5.00	<0.00500 J	<1.00	<1.00
MW-14	04/14/23	83.66	DRY	--	--	--	--	--	--	--	--	--	--	--
MW-14	08/22/23	83.66	DRY	--	--	--	--	--	--	--	--	--	--	--
RW-14	04/14/23	83.89	51.39	32.50	<1.00	<1.00	<1.00	<1.00	***<1.00***	<1.00	<5.00	<0.00500	<1.00	<1.00
RW-14	08/22/23	83.89	51.20	32.69	<1.00	<1.00	<1.00	<1.00	***<1.00***	<1.00	<5.00	<0.00500 J	<1.00	<1.00

Table 4
Historical Groundwater Gauging and Analytical Results
First Semi-Annual 2023 to Second Semi-Annual 2023
Unocal #5057 Former (306450) (Chevron Facility No.306450)
4351 Old International Airport Road,
Anchorage, Alaska

Well ID	Sample Date	TOC (feet bTOC)	DTW (feet bTOC)	GW Elev. (feet)	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Vinyl Chloride	Lead	Comments
ADEC Groundwater Cleanup Levels					56	60	0.19	15	
MW-5	04/14/23	83.11	44.45	38.66	**28.2**	**1.56**	***<1.00***	<6.00	
MW-5	08/22/23	83.11	44.10	39.01	**49.8**	**1.59 J**	***<1.00***	<6.00	
MW-5A	04/14/23	83.09	32.77	50.32	<1.00	**0.201 J**	***<1.00***	<6.00	
MW-5A	08/22/23	83.09	32.15	50.94	<1.00	<1.00	***<1.00***	<6.00	
MW-7	04/14/23	85.68	53.25	32.43	**2,030 D [2,380]**	**565 [566]**	***<10.0 [<20.0]***	**252 [257]**	
MW-7	08/22/23	85.68	53.09	32.59	**2,090 D**	**597 D**	***<1.00 J***	**280**	
MW-7A	04/14/23	86.82	54.36	32.46	**581 D**	**192**	***<1.00***	<6.00	
MW-7A	08/22/23	86.82	54.18	32.64	**1,810 J [1,100 J]**	**554 J [315 J]**	***<100 [<20.0]***	**27.7 [30.2]**	
MW-9	04/14/23	83.20	34.60	48.60	<1.00	**0.665 J**	***<1.00***	<6.00	
MW-9	08/22/23	83.20	33.80	49.40	<10.0	<10.0	***<10.0***	<6.00	
MW-10	04/14/23	82.52	36.90	45.62	--	--	--	--	
MW-10	08/22/23	82.52	29.60	52.92	<1.00	<1.00	***<1.00***	<6.00	
MW-11	04/14/23	83.95	50.79	33.16	--	--	--	--	
MW-11	08/22/23	83.95	50.21	33.74	<1.00	<1.00	***<1.00***	<6.00	
MW-12	04/14/23	84.04	52.16	31.88	--	--	--	--	
MW-12	08/22/23	84.04	52.11	31.93	<1.00	<1.00	***<1.00***	**5.14 J**	
MW-13	04/14/23	84.89	53.00	31.89	--	--	--	--	
MW-13	08/22/23	84.89	52.92	31.97	<1.00	<1.00	***<1.00***	<6.00	
MW-14	04/14/23	83.66	DRY	--	--	--	--	--	Dry, No water to sample
MW-14	08/22/23	83.66	DRY	--	--	--	--	--	Dry, No water to sample
RW-14	04/14/23	83.89	51.39	32.50	<1.00	<1.00	***<1.00***	<6.00	
RW-14	08/22/23	83.89	51.20	32.69	<1.00	<1.00	***<1.00***	<6.00	

Table 4
Historical Groundwater Gauging and Analytical Results
First Semi-Annual 2023 to Second Semi-Annual 2023
Unocal #5057 Former (306450) (Chevron Facility No.306450)
4351 Old International Airport Road,
Anchorage, Alaska

Notes:
1. GRO analyzed by Alaska Method AK101, DRO analyzed by Alaska Method AK102.
2. Lead analyzed by United States Environmental Protection Agency (USEPA) Method 6010D.
3. 1,2-Dibromoethane and 1,2,3-Trichloropropane was analyzed by USEPA 524 and 8260D and the method with the lowest RDL is considered.
4. Remaining constituents of concern analyzed by USEPA Method 8260D except where noted above.
5. All results reported in micrograms per liter.

Acronyms and Abbreviations:

-- = Not Available or Not Analyzed
[ ] = Blind Duplicate Sample Result
<0.00100 = Not detected at or above the reported detection limit (RDL)
µg/L = Micrograms per liter
ADEC = Alaska Department of Environmental Conservation
Bold = Detected above laboratory method detection limit (MDL)
Bold and *Italicized* = Constituent considered non-detect, however Laboratory RDL is greater than the ADEC Groundwater Cleanup Level
Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level
DTW = Depth to groundwater
feet = Depth to groundwater
bTOC = Below top of casing
GW Elev = Groundwater elevation
ID = Identification
MW = Groundwater monitoring well
TOC = Top of casing
GRO = Total petroleum hydrocarbons, gasoline range organics
DRO = Total petroleum hydrocarbons, diesel range organics
MTBE= Methyl tert-butyl ether
EDB = 1,2-Dibromoethane
EDC = 1,2-Dichloroethane
J = The associated numerical value is an estimated concentration only
B = The same analyte is found in the associated blank
D = Concentration is based on a diluted sample analysis.
R = The sample results are rejected.

Reference:
18 AAC 75. Department of Environmental Conservation, State of Alaska, Oil and Other Hazardous Substances Pollution Control, Table C. Groundwater Cleanup Levels, as amended through October 18, 2023.

Table 5
Historical Groundwater Poly Aromatic Hydrocarbons (PAH) Analytical Results
First Semi-Annual 2023 to Second Semi-Annual 2023
Unocal #5057 Former (306450)
4351 Old International Airport Road,
Anchorage, Alaska

Well ID	Sample Date	Ace-naphthene	Ace-naphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	2-Chloro-naphthalene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	1-Methyl-naphthalene	2-Methyl-naphthalene	Naphthalene	Phenanthrene	Pyrene	Comments
ADEC Groundwater Cleanup Levels		530	260	43	0.3	0.25	2.5	0.26	0.8	750	2.0	0.25	260	290	0.19	11	36	1.7	170	120	
MW-5	04/14/23	<0.0540	<0.0540	<0.0540	<0.0540	<0.0540	<0.0540	<0.0540	<0.270	<0.540	<0.0540	<0.0540	<0.0540 B	<0.0540	<0.0540	**0.0517 J**	**0.0457 J**	**1.43**	**0.0253 J**	<0.0540	
MW-5	08/22/23	<0.0500 J	<0.0500 J	<0.0500 J	<0.0500 J	<0.0500	<0.0500	<0.0500	<0.250	<0.500 J	<0.0500 J	<0.0500	**0.0121 J**	<0.0500 J	<0.0500	**0.218 J**	**0.250 J**	**4.23 J**	<0.0500 J	<0.0500 J	
MW-5A	04/14/23	<0.0545	<0.0545	<0.0545	<0.0545	<0.0545	<0.0545	<0.0545	<0.273	<0.545	<0.0545	<0.0545	<0.0545 B	<0.0545	<0.0545	<0.545	<0.545	<0.545	<0.0545	<0.0545	
MW-5A	08/22/23	**0.0659**	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.250	<0.500	<0.0500	<0.0500	**0.0664**	<0.0500	<0.0500	<0.500	<0.500	<0.500	<0.0500	**0.0355 J**	
MW-7	04/14/23	<0.0500 [<0.0520]	<0.0500 [<0.0520]	<0.0500 [<0.0520]	<0.0500 [<0.0520]	<0.0500 [<0.0520]	<0.0500 B [<0.0520]	<0.0500 B [<0.0520]	<0.250 [<0.260]	<0.500 [<0.520]	<0.0500 [<0.0520]	**0.0194 J** [<0.0520]	<0.0500 B [<0.0520 B]	<0.0500 **[0.116]**	<0.0500 B [<0.0520]	**31.1 [29.4]**	**56.9 [54.2]**	**233 J D [249 J D]**	<0.0500 [<0.0520]	**0.0356 J [0.0304 J]**	
MW-7	08/22/23	**1.06**	<0.500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.250	**0.394 D J**	<0.0500	<0.0500	**0.0314 J**	**0.187 D J**	<0.0500	**17.7**	**32.8**	**241 J**	**0.0654**	**0.0245 J**	
MW-7A	04/14/23	**0.0877**	<0.0500	<0.0500	<0.0500 B	<0.0500	<0.0500 B	<0.0500	<0.250	**0.0608 J**	<0.0500 B	<0.0500	<0.0500 B	**0.0621**	<0.0500	**5.56**	**7.69 J**	**19.9**	**0.0808**	**0.0587**	
MW-7A	08/22/23	**0.0983 [0.142]**	<0.0500 [<0.0500]	<0.0500 [<0.0500]	**0.0408 J [0.0292 J]**	<0.0500 [<0.0500]	**0.0237 J** [<0.0500]	<0.0500 [<0.0500]	<0.250 [<0.250]	<0.500 [<0.500]	**0.0391 J [0.0281 J]**	<0.0500 [<0.0500]	**0.0980 [0.0783]**	**0.0638 [0.0979]**	<0.0500 [<0.0500]	**6.65 J [9.88 J]**	**7.53 J [11.8 J]**	**19.2 J [26.7 J]**	**0.0857 [0.0862]**	**0.107 [0.101]**	
MW-9	04/14/23	<0.0500 R	<0.0500 R	<0.0500 R	<0.0500 R	<0.0500 R	<0.0500 R	<0.0500 R	<0.250 R	**0.0256 J**	<0.0500 R	<0.0500 R	**0.0160 R**	<0.0500 R	<0.0500 R	**0.0643 J**	**0.0641 J**	<0.500 R	<0.0500 R	<0.0500 R	
MW-9	08/22/23	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.250	<0.500	<0.0500	<0.0500	**0.0308 J**	**0.0258 J**	<0.0500	**0.0260 J**	**0.0371 J**	**0.169 J**	**0.0304 J**	**0.0227 J**	
MW-10	04/14/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	08/22/23	<0.0500	<0.0500	**0.0246 J**	**0.0677**	**0.0263 J**	**0.117**	<0.0814 B	**0.112 J**	<0.500	**0.0921**	<0.0920 B	**0.0638**	<0.0500	<0.126 B	<0.500	<0.500	<0.500	**0.0503**	**0.0472 J**	
MW-11	04/14/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-11	08/22/23	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.250	<0.500	<0.0500	<0.0500	**0.0208 J**	<0.0500	<0.0500	**0.0299 J**	**0.0519 J**	<0.500	**0.0607**	**0.0213 J**	
MW-12	04/14/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-12	08/22/23	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	**0.0415 J**	<0.0500 B	<0.250	<0.500	<0.0500	<0.0500	**0.0383 J**	<0.0500	<0.0500 B	<0.500	<0.500	<0.500	**0.0285 J**	**0.0291 J**	
MW-13	04/14/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-13	08/22/23	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.250	<0.500	<0.0500	<0.0500	**0.0141 J**	<0.0500	<0.0500	<0.500	<0.500	<0.500	**0.0289 J**	<0.0500	
MW-14	04/14/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Dry, No water to sample
MW-14	08/22/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Dry, No water to sample
RW-14	04/14/23	<0.0550	<0.0550	<0.0550	<0.0550	<0.0550	<0.0550 B	<0.0550	<0.275	<0.550	<0.0550	<0.0550	<0.0550 B	<0.0550	<0.0550	<0.550	**0.0405 J**	<0.550	**0.0353 J**	**0.0231 J**	
RW-14	08/22/23	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.250	<0.500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.500	<0.500	<0.500	<0.0500	<0.0500	

Notes:
1. Constituents of concern analyzed by USEPA Method 8270E-SIM.
2. All results reported in micrograms per liter.

Acronyms and Abbreviations:

-- = Not Available or Not Analyzed
[ ] = Blind Duplicate Sample Result
<0.0500 = Not detected at or above the reported detection limit (RDL)
µg/L = Micrograms per liter
ADEC = Alaska Department of Environmental Conservation
Bold = Detected above laboratory method detection limit (MDL)
Bold and *Italicized* = Constituent considered non-detect, however Laboratory RDL is greater than the ADEC Groundwater Cleanup Level
Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level
DTW = Depth to groundwater
feet = Relative to NAVD88
bTOC = Below top of casing
GW Elev = Groundwater elevation
ID = Identification
MW = Groundwater monitoring well
TOC = Top of casing
J = The associated numerical value is an estimated concentration only
B = The same analyte is found in the associated blank
D = Concentration is based on a diluted sample analysis.
R = The sample results are rejected.

Reference:
18 AAC 75. Department of Environmental Conservation, State of Alaska, Oil and Other Hazardous Substances Pollution Control, Table C. Groundwater Cleanup Levels, as amended through October 18, 2023.

Attachment A

Field Notes

Daily Log

Project Number : 30064225

Prepared By: Evan Wujcik

Site ID: 306450

Site Name: Old Airport

City: Anchorage

State: Alaska

Project Manager: Robinson, Gerald

Portfolio: COP 5.0

Subportfolio: West

Inside Chevron Operational Control? Yes ☐ No ☑

Staff on Site
Evan Wujcik

Weather(°F)	PPE	Equipment
Clear		Water Quality Meter (i.e. YSI), Water Level Meter (WLM), Bladder Pump, Photoionization Detector (PID)

Date	Time	Description of Activities
08/22/2023	6:00	Arrive on site Locate Wells
08/22/2023	7:00	Sample MW10 Decon equipment See COC for analysis
08/22/2023	8:00	Sample MW9 Decon equipment See COC for analysis
08/22/2023	9:00	Sample MW5A Decon equipment See COC for analysis
08/22/2023	10:00	Sample MW11 Decon equipment See COC for analysis
08/22/2023	11:00	Sample MW12 Decon equipment See COC for analysis
08/22/2023	12:00	Sample MW13 Decon equipment See COC for analysis
08/22/2023	13:00	Sample RW14 Decon equipment See COC for analysis
08/22/2023	14:00	Sample MW5 MS/MSD samples collected from this location Decon equipment See COC for analysis
08/22/2023	15:00	Sample MW7 Decon equipment See COC for analysis

Daily Log

08/22/2023	16:00	Sample MW7A BD samples collected from this location Decon equipment See COC for analysis
08/22/2023	16:30	MW14 dry. No sample. Load vehicle Mobilize offsite

Signature

Daily Log

Project Number : 30064225

Prepared By: Evan Wujcik

Site ID: 306450

Site Name: Old Airport

City: Anchorage

State: Alaska

Project Manager: Robinson, Gerald

Portfolio: COP 5.0

Subportfolio: West

Inside Chevron Operational Control? Yes ☐ No ☑

Staff on Site
Evan Wujcik , Rice company

Subcontractor Information
Company Name: Rice company
Type of Services: Tree removal
Did they participate in the H&S tailgate discussion? Yes ☐ No ☐
Subcontractor Mitigation Plans: Tree removal
Are all training certificates accounted for? Yes ☑ No ☐
Was all equipment inspected? Yes ☐ No ☐

Weather(°F)	PPE	Equipment
Clear		

Date	Time	Description of Activities
08/22/2023	8:30	Arrive on site
08/22/2023	9:00	Health and safety meeting completed. Begin tree removal.
08/22/2023	12:00	Break for lunch Rice and Arcadis offsite
08/22/2023	13:00	Rice and Arcadis on site Resume site clearing
08/22/2023	14:20	Complete clearing of east side of lot and fence repairs.
08/22/2023	17:30	Rice packing up for the day. East side of lot cleared. Started the west side. Rice and Arcadis offsite.

Daily Log

Signature

Chevron Groundwater Sampling Form

ARCADIS

Project Number	30064225	**Well ID**	MW-7	**Date**	8/22/2023		
Site Location	Anchorage, Alaska	**Site ID**	306450	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	Top of Casing	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	53.09	**Total Depth (ft-bmp)**	57.1	**Water Column (ft)**	4.01	**Gallons in Well**	0.65
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Collection Type**			Grab

Sample Time	15:00	**Well Volumes Purged**	0.98	**Sample ID**	MW-7-W-20230822	**Purge Equipment**	Bladder
Purge Start	14:30	**Gallons Purged**	0.63	**Duplicate ID**	--	**Sample Equipment**	Bladder
Purge End	14:50	**Total Purge Time (h:m)**	0:20				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
14:33	200	53.12	6.22	0.360	171	3.11	12.05	53	--
14:36	200	53.15	6.22	0.377	113	1.59	11.95	47	--
14:39	200	53.17	6.24	0.378	92.3	1.11	11.77	43	--
14:42	200	53.2	6.23	0.384	69.1	0.34	11.51	38	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID:	MW-7-W-20230822	Sample Time:	15:00	Sample Depth (ft-bmp) (e.g. pump intake):	54
Analytes and Methods:	See Chain-of-Custody.			Depth to Water at Time of Sampling	53.2

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
-- = Not Recorded

Chevron Groundwater Sampling Form

ARCADIS

Project Number	30064225	**Well ID**	RW-14	**Date**	8/22/2023		
Site Location	Anchorage, Alaska	**Site ID**	306450	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	Top of Casing	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	6	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	51.2	**Total Depth (ft-bmp)**	55	**Water Column (ft)**	3.8	**Gallons in Well**	5.56
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Collection Type**			Grab

Sample Time	13:00	**Well Volumes Purged**	0.14	**Sample ID**	RW-14-W-20230822	**Purge Equipment**	Bladder
Purge Start	12:30	**Gallons Purged**	0.79	**Duplicate ID**	--	**Sample Equipment**	Bladder
Purge End	12:50	**Total Purge Time (h:m)**	0:20				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
12:33	200	51.2	6.52	0.422	60.4	5.09	12.24	79	--
12:36	200	51.21	6.43	0.406	46.8	2.56	11.50	57	--
12:39	200	51.22	6.37	0.390	38.8	1.37	11.83	53	--
12:42	200	51.22	6.40	0.393	44.1	1.30	11.91	48	--
12:45	200	51.22	6.41	0.389	42.3	1.22	11.74	46	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: RW-14-W-20230822 Sample Time: 13:00 Sample Depth (ft-bmp) (e.g. pump intake): 52

Analytes and Methods: See Chain-of-Custody. Depth to Water at Time of Sampling 51.22

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
-- = Not Recorded

Chevron Groundwater Sampling Form

ARCADIS

Project Number	30064225	**Well ID**	MW-13	**Date**	8/22/2023		
Site Location	Anchorage, Alaska	**Site ID**	306450	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	Top of Casing	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	4	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	52.92	**Total Depth (ft-bmp)**	62	**Water Column (ft)**	9.08	**Gallons in Well**	5.9
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Collection Type**			Grab

Sample Time	12:00	**Well Volumes Purged**	0.11	**Sample ID**	MW-13-W-20230822	**Purge Equipment**	Bladder
Purge Start	11:30	**Gallons Purged**	0.63	**Duplicate ID**	--	**Sample Equipment**	Bladder
Purge End	11:50	**Total Purge Time (h:m)**	0:20				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
11:33	200	52.92	6.64	0.332	0.8	7.47	12.25	186	--
11:36	200	52.93	6.63	0.399	0.0	6.90	11.71	186	--
11:39	200	52.93	6.61	0.419	0.0	6.47	11.54	187	--
11:42	200	52.93	6.61	0.420	0.0	6.40	11.46	188	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID:	MW-13-W-20230822	Sample Time:	12:00	Sample Depth (ft-bmp) (e.g. pump intake):	54
Analytes and Methods:	See Chain-of-Custody.			Depth to Water at Time of Sampling	52.93

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
-- = Not Recorded

Chevron Groundwater Sampling Form

ARCADIS

Project Number	30064225	**Well ID**	MW-12	**Date**	8/22/2023		
Site Location	Anchorage, Alaska	**Site ID**	306450	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	Top of Casing	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	4	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	52.11	**Total Depth (ft-bmp)**	58	**Water Column (ft)**	5.89	**Gallons in Well**	3.83
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Collection Type**			Grab

Sample Time	11:00	**Well Volumes Purged**	0.17	**Sample ID**	MW-12-W-20230822	**Purge Equipment**	Bladder
Purge Start	10:30	**Gallons Purged**	0.63	**Duplicate ID**	--	**Sample Equipment**	Bladder
Purge End	10:50	**Total Purge Time (h:m)**	0:20				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
10:33	200	52.12	6.44	0.193	35.3	5.26	12.12	179	--
10:36	200	52.13	6.56	0.166	32.0	5.45	11.89	178	--
10:39	200	52.14	6.58	0.150	32.7	5.76	11.82	175	--
10:42	200	52.14	6.61	0.146	32.2	6.06	11.76	176	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: MW-12-W-20230822 Sample Time: 11:00 Sample Depth (ft-bmp) (e.g. pump intake): 53

Analytes and Methods: See Chain-of-Custody. Depth to Water at Time of Sampling 52.14

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
-- = Not Recorded

Chevron Groundwater Sampling Form

ARCADIS

Project Number	30064225	**Well ID**	MW-11	**Date**	8/22/2023		
Site Location	Anchorage, Alaska	**Site ID**	306450	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	Top of Casing	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	4	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	50.21	**Total Depth (ft-bmp)**	58	**Water Column (ft)**	7.79	**Gallons in Well**	5.06
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Collection Type**			Grab

Sample Time	10:00	**Well Volumes Purged**	0.13	**Sample ID**	MW-11-W-20230822	**Purge Equipment**	Bladder
Purge Start	09:30	**Gallons Purged**	0.63	**Duplicate ID**	--	**Sample Equipment**	Bladder
Purge End	09:50	**Total Purge Time (h:m)**	0:20				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
09:33	200	50.21	6.02	0.276	12.7	5.46	11.60	194	--
09:36	200	50.22	6.01	0.277	11.1	5.10	11.30	198	--
09:39	200	50.22	6.00	0.277	8.4	4.48	11.12	204	--
09:42	200	50.22	5.98	0.278	8.0	4.37	11.07	206	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: MW-11-W-20230822 Sample Time: 10:00 Sample Depth (ft-bmp) (e.g. pump intake): 51

Analytes and Methods: See Chain-of-Custody. Depth to Water at Time of Sampling: 50.22

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
-- = Not Recorded

Chevron Groundwater Sampling Form

ARCADIS

Project Number	30064225	**Well ID**	MW-5A	**Date**	8/22/2023		
Site Location	Anchorage, Alaska	**Site ID**	306450	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	Top of Casing	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	32.15	**Total Depth (ft-bmp)**	44	**Water Column (ft)**	11.85	**Gallons in Well**	1.93
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Collection Type**			Grab

Sample Time	09:00	**Well Volumes Purged**	0.41	**Sample ID**	MW-5A-W-20230822	**Purge Equipment**	Bladder
Purge Start	08:30	**Gallons Purged**	0.79	**Duplicate ID**	--	**Sample Equipment**	Bladder
Purge End	08:50	**Total Purge Time (h:m)**	0:20				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
08:33	200	32.18	5.83	0.254	55.2	2.88	9.98	139	--
08:36	200	32.2	5.62	0.234	43.6	3.39	9.81	169	--
08:39	200	32.22	5.56	0.228	17.9	3.77	9.67	187	--
08:42	200	32.24	5.51	0.229	8.7	3.85	9.61	199	--
08:45	200	32.25	5.52	0.230	4.7	3.90	9.57	204	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: MW-5A-W-20230822 Sample Time: 09:00 Sample Depth (ft-bmp) (e.g. pump intake): 33

Analytes and Methods: See Chain-of-Custody. Depth to Water at Time of Sampling 32.25

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
-- = Not Recorded

Chevron Groundwater Sampling Form

ARCADIS

Project Number	30064225	**Well ID**	MW-9	**Date**	8/22/2023		
Site Location	Anchorage, Alaska	**Site ID**	306450	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	Top of Casing	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	33.8	**Total Depth (ft-bmp)**	39.8	**Water Column (ft)**	6	**Gallons in Well**	0.97
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Collection Type**		Grab	

Sample Time	08:00	**Well Volumes Purged**	0.82	**Sample ID**	MW-9-W-20230822	**Purge Equipment**	Bladder
Purge Start	07:30	**Gallons Purged**	0.79	**Duplicate ID**	--	**Sample Equipment**	Bladder
Purge End	07:50	**Total Purge Time (h:m)**	0:20				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
07:33	200	33.83	6.34	0.401	117	3.28	10.59	58	--
07:36	200	33.86	6.25	0.400	82.7	2.32	9.81	61	--
07:39	200	33.88	6.21	0.393	66.3	1.41	9.47	68	--
07:42	200	33.9	6.21	0.387	54.4	1.03	9.17	71	--
07:45	200	33.9	6.20	0.384	50.7	0.74	9.16	75	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: MW-9-W-20230822 Sample Time: 08:00 Sample Depth (ft-bmp) (e.g. pump intake): 34.5

Analytes and Methods: See Chain-of-Custody. Depth to Water at Time of Sampling 33.9

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
-- = Not Recorded

Chevron Groundwater Sampling Form

ARCADIS

Project Number	30064225	**Well ID**	MW-10	**Date**	8/22/2023		
Site Location	Anchorage, Alaska	**Site ID**	306450	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	Top of Casing	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	4	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	29.6	**Total Depth (ft-bmp)**	48	**Water Column (ft)**	18.4	**Gallons in Well**	11.96
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Collection Type**			Grab

Sample Time	07:00	**Well Volumes Purged**	0.05	**Sample ID**	MW-10-W-20230822	**Purge Equipment**	Bladder
Purge Start	06:30	**Gallons Purged**	0.63	**Duplicate ID**	--	**Sample Equipment**	Bladder
Purge End	06:50	**Total Purge Time (h:m)**	0:20				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
06:33	200	29.61	6.50	0.258	8.4	4.92	10.77	112	--
06:36	200	29.62	6.43	0.249	9.4	4.12	10.52	115	--
06:39	200	29.63	6.39	0.247	11.1	4.00	10.45	120	--
06:42	200	29.64	6.30	0.245	12.2	3.93	10.36	123	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: MW-10-W-20230822 Sample Time: 07:00 Sample Depth (ft-bmp) (e.g. pump intake): 30.5

Analytes and Methods: See Chain-of-Custody. Depth to Water at Time of Sampling 29.64

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
-- = Not Recorded

Chevron Groundwater Sampling Form

ARCADIS

Project Number	30064225	**Well ID**	MW-7A	**Date**	8/22/2023		
Site Location	Anchorage, Alaska	**Site ID**	306450	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	Top of Casing	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	54.18	**Total Depth (ft-bmp)**	65	**Water Column (ft)**	10.82	**Gallons in Well**	1.76
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Collection Type**			Grab
Sample Time	16:00	**Well Volumes Purged**	0.36	**Sample ID**	MW-7A-W-20230822	**Purge Equipment**	Bladder
Purge Start	15:30	**Gallons Purged**	0.63	**Duplicate ID**	BD	**Sample Equipment**	Bladder
Purge End	15:50	**Total Purge Time (h:m)**	0:20				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
15:33	200	54.2	6.56	0.439	9.7	1.61	11.97	-22	--
15:36	200	54.22	6.62	0.447	6.0	0.84	11.37	-31	--
15:39	200	54.23	6.62	0.453	5.8	0.47	11.13	-35	--
15:42	200	54.24	6.62	0.459	5.4	0.10	11.07	-37	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: MW-7A-W-20230822 Sample Time: 16:00 Sample Depth (ft-bmp) (e.g. pump intake): 55

Analytes and Methods: See Chain-of-Custody. Depth to Water at Time of Sampling: 54.24

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
-- = Not Recorded

Chevron Groundwater Sampling Form

ARCADIS

Project Number	30064225	**Well ID**	MW-5	**Date**	8/22/2023		
Site Location	Anchorage, Alaska	**Site ID**	306450	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	Top of Casing	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	44.1	**Total Depth (ft-bmp)**	55.5	**Water Column (ft)**	11.4	**Gallons in Well**	1.85
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Collection Type**			Grab

Sample Time	14:00	**Well Volumes Purged**	0.34	**Sample ID**	MW-5-W-20230822	**Purge Equipment**	Bladder
Purge Start	13:30	**Gallons Purged**	0.63	**Duplicate ID**	MS/MSD	**Sample Equipment**	Bladder
Purge End	13:50	**Total Purge Time (h:m)**	0:20				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
13:33	200	44.13	6.14	0.150	9.5	2.08	11.16	85	--
13:36	200	44.16	6.11	0.148	6.1	0.97	10.58	85	--
13:39	200	44.18	6.10	0.146	2.4	0.42	10.25	86	--
13:42	200	44.2	6.08	0.145	3.6	0.25	10.15	85	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID:	MW-5-W-20230822	Sample Time:	14:00	Sample Depth (ft-bmp) (e.g. pump intake):	45
Analytes and Methods:	See Chain-of-Custody.			Depth to Water at Time of Sampling	44.2

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
-- = Not Recorded

Groundwater Gauging Log

Project Number	30064225
Client:	Chevron
Site ID:	306450
Site Location:	Anchorage, Alaska
Measuring Point:	Top of Casing
Date(s):	08/22/2023
Sampler(s):	Evan Wujcik
Gauging Equipment:	Water Level Meter

Well ID	Date	Gauging Time	Static Water Level (ft bmp)	Depth to Product (ft bmp)	Total Depth (ft bmp)	PID Reading (ppm)	LNAPL Removed (gal)	Comments
MW-5	08/22/2023	06:10	44.10	ND	55.50	0	--	--
MW-5A	08/22/2023	06:05	32.15	ND	44.00	0	--	--
MW-7	08/22/2023	06:04	53.09	ND	57.10	0	--	--
MW-7A	08/22/2023	06:00	54.18	ND	65.00	0	--	--
MW-9	08/22/2023	06:21	33.80	ND	39.80	0	--	--
MW-10	08/22/2023	06:08	29.60	ND	48.00	0	--	--
MW-11	08/22/2023	06:13	50.21	ND	58.00	0	--	--
MW-12	08/22/2023	06:41	52.11	ND	58.00	0	--	--
MW-13	08/22/2023	06:08	52.92	ND	62.00	0	--	--
MW-14	08/22/2023	06:07	Dry	ND	23.30	0	--	No water to sample
RW-14	08/22/2023	06:36	51.20	ND	55.00	0	--	--

ft-bmp = feet below measuring point ND = Not Detected PID = Photoionization Detector Reading

ppm = parts per million -- = Not Recorded

Attachment B

Laboratory Analytical Results

ANALYTICAL REPORT

September 08, 2023

Arcadis - Chevron - AK

Sample Delivery Group:	L1649472
Samples Received:	08/24/2023
Project Number:	30064225.19.45
Description:	306450
Site:	4351 W. ITNL AIRPORT RD
Report To:	Skip Robinson 880 H St. Anchorage, AK 99501

Entire Report Reviewed By: Brian Ford

Brian Ford
Project Manager

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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MW-10-W-20230822 L1649472-01 GW

Collected by: E. Wujcik | Collected date/time: 08/22/23 07:00 | Received date/time: 08/24/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2122633	1	08/31/23 11:49	08/31/23 20:56	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG2123322	1	08/30/23 10:36	08/30/23 10:36	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121198	1	08/30/23 14:27	08/30/23 14:27	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121730	1	08/27/23 03:19	08/27/23 03:19	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG2122949	1	08/31/23 04:54	09/01/23 15:18	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2120839	1	08/26/23 05:54	08/26/23 16:30	AMM	Mt. Juliet, TN

MW-9-W-20230822 L1649472-02 GW

Collected by: E. Wujcik | Collected date/time: 08/22/23 08:00 | Received date/time: 08/24/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2122633	1	08/31/23 11:49	08/31/23 20:59	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG2123398	1	08/31/23 04:54	08/31/23 04:54	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121198	10	08/30/23 17:14	08/30/23 17:14	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2124997	10	08/31/23 23:24	08/31/23 23:24	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG2122949	1	08/31/23 04:54	09/01/23 15:39	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2120839	1	08/26/23 05:54	08/26/23 16:49	AMM	Mt. Juliet, TN

MW-5A-W-20230822 L1649472-03 GW

Collected by: E. Wujcik | Collected date/time: 08/22/23 09:00 | Received date/time: 08/24/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2122633	1	08/31/23 11:49	08/31/23 21:02	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG2123398	1	08/31/23 05:17	08/31/23 05:17	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121198	1	08/30/23 14:51	08/30/23 14:51	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121730	1	08/27/23 03:39	08/27/23 03:39	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG2122949	1	08/31/23 04:54	09/01/23 15:59	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2120839	1	08/26/23 05:54	08/26/23 17:09	AMM	Mt. Juliet, TN

MW-11-W-20230822 L1649472-04 GW

Collected by: E. Wujcik | Collected date/time: 08/22/23 10:00 | Received date/time: 08/24/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2122633	1	08/31/23 11:49	08/31/23 21:04	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG2123398	1	08/31/23 05:39	08/31/23 05:39	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121198	1	08/30/23 15:15	08/30/23 15:15	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121730	1	08/27/23 03:59	08/27/23 03:59	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG2122949	1	08/31/23 04:54	09/01/23 16:20	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2120839	1	08/26/23 05:54	08/26/23 17:29	AMM	Mt. Juliet, TN

MW-12-W-20230822 L1649472-05 GW

Collected by: E. Wujcik | Collected date/time: 08/22/23 11:00 | Received date/time: 08/24/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2122633	1	08/31/23 11:49	08/31/23 21:07	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG2123398	1	08/31/23 06:02	08/31/23 06:02	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121198	1	08/30/23 15:38	08/30/23 15:38	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121730	1	08/27/23 04:20	08/27/23 04:20	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG2122949	1	08/31/23 04:54	09/01/23 16:41	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2120839	1	08/26/23 05:54	08/30/23 17:28	JRM	Mt. Juliet, TN

MW-13-W-20230822 L1649472-06 GW

Collected by: E. Wujcik | Collected date/time: 08/22/23 12:00 | Received date/time: 08/24/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2122633	1	08/31/23 11:49	08/31/23 21:10	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG2123398	1	08/31/23 06:25	08/31/23 06:25	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121198	1	08/30/23 16:02	08/30/23 16:02	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121730	1	08/27/23 04:40	08/27/23 04:40	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG2122949	1	08/31/23 04:54	09/01/23 17:02	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2120839	1	08/26/23 05:54	08/26/23 17:49	AMM	Mt. Juliet, TN

RW-14-W-20230822 L1649472-07 GW

Collected by: E. Wujcik | Collected date/time: 08/22/23 13:00 | Received date/time: 08/24/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2122633	1	08/31/23 11:49	08/31/23 21:13	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG2123398	1	08/31/23 06:47	08/31/23 06:47	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121198	1	08/30/23 16:26	08/30/23 16:26	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121730	1	08/27/23 05:00	08/27/23 05:00	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG2122949	1	08/31/23 04:54	09/01/23 17:23	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2120839	1	08/26/23 05:54	08/26/23 18:09	AMM	Mt. Juliet, TN

MW-5-W-20230822 L1649472-08 GW

Collected by: E. Wujcik | Collected date/time: 08/22/23 14:00 | Received date/time: 08/24/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2122633	1	08/31/23 11:49	08/31/23 20:32	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG2123398	1	08/31/23 07:09	08/31/23 07:09	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121730	1	08/27/23 05:21	08/27/23 05:21	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2124571	100	08/31/23 13:31	08/31/23 13:31	BRA	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG2122949	1	08/31/23 04:54	09/01/23 17:43	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2120839	1	08/26/23 05:54	08/26/23 18:29	AMM	Mt. Juliet, TN

MW-7-W-20230822 L1649472-09 GW

Collected by: E. Wujcik | Collected date/time: 08/22/23 15:00 | Received date/time: 08/24/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2122633	1	08/31/23 11:49	08/31/23 21:21	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG2124595	100	09/05/23 13:50	09/05/23 13:50	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121198	1000	08/30/23 18:01	08/30/23 18:01	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121730	1	08/27/23 05:41	08/27/23 05:41	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2124997	500	08/31/23 23:46	08/31/23 23:46	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG2122949	1	08/31/23 04:54	09/01/23 18:46	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2120839	1	08/26/23 05:54	08/26/23 19:28	AMM	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2120839	10	08/26/23 05:54	08/30/23 18:04	JRM	Mt. Juliet, TN

MW-7A-W-20230822 L1649472-10 GW

Collected by: E. Wujcik | Collected date/time: 08/22/23 16:00 | Received date/time: 08/24/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2122633	1	08/31/23 11:49	08/31/23 21:23	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG2124595	1	09/05/23 13:05	09/05/23 13:05	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2124571	1000	08/31/23 13:54	08/31/23 13:54	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2124997	100	09/01/23 00:07	09/01/23 00:07	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG2122949	1	08/31/23 04:54	09/02/23 10:08	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2120839	1	08/26/23 05:54	08/26/23 19:48	AMM	Mt. Juliet, TN

BD-1-W-20230822 L1649472-11 GW

Collected by: E. Wujcik | Collected date/time: 08/22/23 00:00 | Received date/time: 08/24/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2122633	1	08/31/23 11:49	08/31/23 21:26	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG2124595	100	09/05/23 14:13	09/05/23 14:13	GLN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG2127486	10	09/07/23 03:11	09/07/23 03:11	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121884	20	08/27/23 17:52	08/27/23 17:52	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2124091	50	08/31/23 17:28	08/31/23 17:28	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2124571	1000	08/31/23 14:18	08/31/23 14:18	BRA	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG2122949	1	08/31/23 04:54	09/01/23 19:27	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2120839	1	08/26/23 05:54	08/26/23 20:08	AMM	Mt. Juliet, TN

EQB-1-W-20230822 L1649472-12 GW

Collected by: E. Wujcik | Collected date/time: 08/22/23 16:30 | Received date/time: 08/24/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2122633	1	08/31/23 11:49	08/31/23 21:29	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG2123398	1	08/31/23 04:32	08/31/23 04:32	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121198	1	08/30/23 16:50	08/30/23 16:50	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121884	1	08/27/23 13:24	08/27/23 13:24	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG2122949	1	08/31/23 04:54	09/01/23 19:48	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2120839	1	08/26/23 05:54	08/26/23 20:28	AMM	Mt. Juliet, TN

TRIP BLANK 1-20230822 L1649472-13 GW

Collected by: E. Wujcik | Collected date/time: 08/22/23 00:00 | Received date/time: 08/24/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG2123398	1	08/30/23 23:16	08/30/23 23:16	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121198	1	08/30/23 13:15	08/30/23 13:15	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121884	1	08/27/23 12:01	08/27/23 12:01	DYW	Mt. Juliet, TN

TRIP BLANK 2-20230822 L1649472-14 GW

Collected by: E. Wujcik | Collected date/time: 08/22/23 00:00 | Received date/time: 08/24/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG2123398	1	08/30/23 23:39	08/30/23 23:39	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121198	1	08/30/23 13:39	08/30/23 13:39	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121884	1	08/27/23 12:22	08/27/23 12:22	DYW	Mt. Juliet, TN

TRIP BLANK 3-20230822 L1649472-15 GW

Collected by: E. Wujcik | Collected date/time: 08/22/23 00:00 | Received date/time: 08/24/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG2123398	1	08/31/23 00:01	08/31/23 00:01	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121198	1	08/30/23 14:03	08/30/23 14:03	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2121884	1	08/27/23 12:42	08/27/23 12:42	DYW	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Project Manager

Sample Delivery Group (SDG) Narrative

Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

Batch	Method	Lab Sample ID
WG2127486	AK101	L1649472-11

Volatile Organic Compounds (GC) by Method AK101

The same analyte is found in the associated blank.

Batch	Analyte	Lab Sample ID
WG2123322	TPHGAK C6 to C10	L1649472-01
WG2123398	TPHGAK C6 to C10	L1649472-03, 04, 07, 12

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG2123322	(MS) R3967423-4	TPHGAK C6 to C10

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2123398	(MS) R3967704-6, (MS) R3967704-8, (MSD) R3967704-9, L1649472-08	TPHGAK C6 to C10

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2123322	(MSD) R3967423-5	TPHGAK C6 to C10
WG2123398	(MSD) R3967704-7	TPHGAK C6 to C10

Volatile Organic Compounds (GC/MS) by Method 8260D

Volatile Organic Compounds (GC/MS) by Method 8260D

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG2121730	L1649472-01	Methylene Chloride
WG2121730	L1649472-03	Methylene Chloride
WG2121730	L1649472-04	Methylene Chloride
WG2121730	L1649472-05	Methylene Chloride
WG2121730	L1649472-06	Methylene Chloride
WG2121730	L1649472-07	Methylene Chloride
WG2121730	L1649472-08	Methylene Chloride
WG2121730	L1649472-09	Methylene Chloride
WG2121884	L1649472-11	1,1,2,2-Tetrachloroethane, 2,2-Dichloropropane, Acrolein and Bromomethane
WG2121884	L1649472-12	1,1,2,2-Tetrachloroethane, 2,2-Dichloropropane, Acrolein and Bromomethane
WG2121884	L1649472-13	1,1,2,2-Tetrachloroethane, 2,2-Dichloropropane, Acrolein and Bromomethane
WG2121884	L1649472-14	1,1,2,2-Tetrachloroethane, 2,2-Dichloropropane, Acrolein and Bromomethane
WG2121884	L1649472-15	1,1,2,2-Tetrachloroethane, 2,2-Dichloropropane, Acrolein and Bromomethane
WG2124997	L1649472-02	Acrolein and Bromomethane
WG2124997	L1649472-10	Acrolein and Bromomethane

Surrogate recovery limits have been exceeded; values are outside lower control limits.

Batch	Analyte	Lab Sample ID
WG2121730	Toluene-d8	L1649472-09

The associated batch QC was below the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG2121884	(LCS) R3967388-1, (LCSD) R3967388-2, L1649472-11, 12, 13, 14, 15	1,1,2,2-Tetrachloroethane and 2,2-Dichloropropane

The associated batch QC was above the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG2121730	(LCS) R3968072-1, L1649472-01, 03, 04, 05, 06, 07, 08, 09	Bromomethane
WG2121884	(LCS) R3967388-1, L1649472-12, 13, 14, 15	Trichloroethene

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG2121730	(MS) R3968072-4, (MSD) R3968072-5, L1649472-08	11 analytes

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2121730	(MS) R3968072-4, (MSD) R3968072-5, L1649472-08	1,2,4-Trimethylbenzene, Benzene, Ethylbenzene, m&p-Xylene and Xylenes, Total

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2121730	(MSD) R3968072-5, L1649472-08	13 analytes

Semi-Volatile Organic Compounds (GC) by Method AK102

Surrogate recovery limits have been exceeded; values are outside lower control limits.

Batch	Analyte	Lab Sample ID
WG2122949	o-Terphenyl	(MSD) R3968544-7, L1649472-09

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2122949	(MSD) R3968544-7, L1649472-08	AK102 DRO C10-C25

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Surrogate recovery limits have been exceeded; values are outside lower control limits.

Batch	Analyte	Lab Sample ID
WG2120839	2-Fluorobiphenyl	L1649472-09
WG2120839	Nitrobenzene-d5	L1649472-09

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2120839	(MSD) R3966232-4, L1649472-08	Naphthalene

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2120839	(MSD) R3966232-4, L1649472-08	13 analytes

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	U		2.99	6.00	1	08/31/2023 20:56	WG2122633

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	42.9	B J	28.7	100	1	08/30/2023 10:36	WG2123322
(S) a,a,a-Trifluorotoluene(FID)	*88.7*			*50.0-150*		*08/30/2023 10:36*	WG2123322

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	08/27/2023 03:19	WG2121730
1,2,3-Trichloropropane	U		0.00200	0.00500	1	08/30/2023 14:27	WG2121198
Acrolein	U		2.54	50.0	1	08/27/2023 03:19	WG2121730
1,2-Dibromoethane	U		0.00410	0.00500	1	08/30/2023 14:27	WG2121198
Acrylonitrile	U		0.671	10.0	1	08/27/2023 03:19	WG2121730
Benzene	U		0.0941	1.00	1	08/27/2023 03:19	WG2121730
Bromobenzene	U		0.118	1.00	1	08/27/2023 03:19	WG2121730
Bromochloromethane	U		0.128	1.00	1	08/27/2023 03:19	WG2121730
Bromodichloromethane	U		0.136	1.00	1	08/27/2023 03:19	WG2121730
Bromoform	U		0.129	1.00	1	08/27/2023 03:19	WG2121730
Bromomethane	U	J4	0.605	5.00	1	08/27/2023 03:19	WG2121730
n-Butylbenzene	U		0.157	1.00	1	08/27/2023 03:19	WG2121730
sec-Butylbenzene	U		0.125	1.00	1	08/27/2023 03:19	WG2121730
tert-Butylbenzene	U		0.127	1.00	1	08/27/2023 03:19	WG2121730
Carbon disulfide	U		0.0962	1.00	1	08/27/2023 03:19	WG2121730
Carbon tetrachloride	U		0.128	1.00	1	08/27/2023 03:19	WG2121730
Chlorobenzene	U		0.116	1.00	1	08/27/2023 03:19	WG2121730
Chlorodibromomethane	U		0.140	1.00	1	08/27/2023 03:19	WG2121730
Chloroethane	U		0.192	5.00	1	08/27/2023 03:19	WG2121730
Chloroform	U		0.111	5.00	1	08/27/2023 03:19	WG2121730
Chloromethane	U		0.960	2.50	1	08/27/2023 03:19	WG2121730
2-Chlorotoluene	U		0.106	1.00	1	08/27/2023 03:19	WG2121730
4-Chlorotoluene	U		0.114	1.00	1	08/27/2023 03:19	WG2121730
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/27/2023 03:19	WG2121730
1,2-Dibromoethane	U		0.126	1.00	1	08/27/2023 03:19	WG2121730
Dibromomethane	U		0.122	1.00	1	08/27/2023 03:19	WG2121730
1,2-Dichlorobenzene	U		0.107	1.00	1	08/27/2023 03:19	WG2121730
1,3-Dichlorobenzene	U		0.110	1.00	1	08/27/2023 03:19	WG2121730
1,4-Dichlorobenzene	U		0.120	1.00	1	08/27/2023 03:19	WG2121730
Dichlorodifluoromethane	U		0.374	5.00	1	08/27/2023 03:19	WG2121730
1,1-Dichloroethane	U		0.100	1.00	1	08/27/2023 03:19	WG2121730
1,2-Dichloroethane	U		0.0819	1.00	1	08/27/2023 03:19	WG2121730
1,1-Dichloroethene	U		0.188	1.00	1	08/27/2023 03:19	WG2121730
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/27/2023 03:19	WG2121730
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/27/2023 03:19	WG2121730
1,2-Dichloropropane	U		0.149	1.00	1	08/27/2023 03:19	WG2121730
1,1-Dichloropropene	U		0.142	1.00	1	08/27/2023 03:19	WG2121730
1,3-Dichloropropane	U		0.110	1.00	1	08/27/2023 03:19	WG2121730
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/27/2023 03:19	WG2121730
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/27/2023 03:19	WG2121730
2,2-Dichloropropane	U		0.161	1.00	1	08/27/2023 03:19	WG2121730
Di-isopropyl ether	U		0.105	1.00	1	08/27/2023 03:19	WG2121730
Ethylbenzene	U		0.137	1.00	1	08/27/2023 03:19	WG2121730

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/27/2023 03:19	WG2121730
Isopropylbenzene	U		0.105	1.00	1	08/27/2023 03:19	WG2121730
p-Isopropyltoluene	U		0.120	1.00	1	08/27/2023 03:19	WG2121730
2-Butanone (MEK)	U		1.19	10.0	1	08/27/2023 03:19	WG2121730
Methylene Chloride	U	C3	0.430	5.00	1	08/27/2023 03:19	WG2121730
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/27/2023 03:19	WG2121730
Methyl tert-butyl ether	U		0.101	1.00	1	08/27/2023 03:19	WG2121730
Naphthalene	2.63	J	1.00	5.00	1	08/27/2023 03:19	WG2121730
n-Propylbenzene	U		0.0993	1.00	1	08/27/2023 03:19	WG2121730
Styrene	U		0.118	1.00	1	08/27/2023 03:19	WG2121730
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/27/2023 03:19	WG2121730
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/27/2023 03:19	WG2121730
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/27/2023 03:19	WG2121730
Tetrachloroethene	U		0.300	1.00	1	08/27/2023 03:19	WG2121730
Toluene	U		0.278	1.00	1	08/27/2023 03:19	WG2121730
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/27/2023 03:19	WG2121730
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/27/2023 03:19	WG2121730
1,1,1-Trichloroethane	U		0.149	1.00	1	08/27/2023 03:19	WG2121730
1,1,2-Trichloroethane	U		0.158	1.00	1	08/27/2023 03:19	WG2121730
Trichloroethene	U		0.190	1.00	1	08/27/2023 03:19	WG2121730
Trichlorofluoromethane	U		0.160	5.00	1	08/27/2023 03:19	WG2121730
1,2,3-Trichloropropane	U		0.237	2.50	1	08/27/2023 03:19	WG2121730
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/27/2023 03:19	WG2121730
1,2,3-Trimethylbenzene	U		0.104	1.00	1	08/27/2023 03:19	WG2121730
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/27/2023 03:19	WG2121730
Vinyl chloride	U		0.234	1.00	1	08/27/2023 03:19	WG2121730
Xylenes, Total	U		0.174	3.00	1	08/27/2023 03:19	WG2121730
o-Xylene	U		0.174	1.00	1	08/27/2023 03:19	WG2121730
m&p-Xylene	U		0.430	2.00	1	08/27/2023 03:19	WG2121730
(S) Toluene-d8	*101*			*80.0-120*		*08/27/2023 03:19*	WG2121730
(S) 4-Bromofluorobenzene	*95.8*			*77.0-126*		*08/27/2023 03:19*	WG2121730
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*		*08/27/2023 03:19*	WG2121730

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		170	800	1	09/01/2023 15:18	WG2122949
(S) o-Terphenyl	*85.1*			*50.0-150*		*09/01/2023 15:18*	WG2122949

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	0.0246	J	0.0190	0.0500	1	08/26/2023 16:30	WG2120839
Acenaphthene	U		0.0190	0.0500	1	08/26/2023 16:30	WG2120839
Acenaphthylene	U		0.0170	0.0500	1	08/26/2023 16:30	WG2120839
Benzo(a)anthracene	0.0677		0.0200	0.0500	1	08/26/2023 16:30	WG2120839
Benzo(a)pyrene	0.0263	J	0.0180	0.0500	1	08/26/2023 16:30	WG2120839
Benzo(b)fluoranthene	0.117		0.0170	0.0500	1	08/26/2023 16:30	WG2120839
Benzo(g,h,i)perylene	0.0814		0.0180	0.0500	1	08/26/2023 16:30	WG2120839
Benzo(k)fluoranthene	0.112	J	0.0200	0.250	1	08/26/2023 16:30	WG2120839
Chrysene	0.0921		0.0180	0.0500	1	08/26/2023 16:30	WG2120839
Dibenz(a,h)anthracene	0.0920		0.0180	0.0500	1	08/26/2023 16:30	WG2120839
Fluoranthene	0.0638		0.0110	0.0500	1	08/26/2023 16:30	WG2120839
Fluorene	U		0.0170	0.0500	1	08/26/2023 16:30	WG2120839
Indeno(1,2,3-cd)pyrene	0.126		0.0180	0.0500	1	08/26/2023 16:30	WG2120839

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Naphthalene	U		0.128	0.500	1	08/26/2023 16:30	WG2120839
Phenanthrene	0.0503		0.0180	0.0500	1	08/26/2023 16:30	WG2120839
Pyrene	0.0472	J	0.0170	0.0500	1	08/26/2023 16:30	WG2120839
1-Methylnaphthalene	U		0.0200	0.500	1	08/26/2023 16:30	WG2120839
2-Methylnaphthalene	U		0.0280	0.500	1	08/26/2023 16:30	WG2120839
2-Chloronaphthalene	U		0.0120	0.500	1	08/26/2023 16:30	WG2120839
(S) Nitrobenzene-d5	*43.1*			*11.0-135*		*08/26/2023 16:30*	WG2120839
(S) 2-Fluorobiphenyl	*49.1*			*32.0-120*		*08/26/2023 16:30*	WG2120839
(S) p-Terphenyl-d14	*52.5*			*23.0-122*		*08/26/2023 16:30*	WG2120839

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	U		2.99	6.00	1	08/31/2023 20:59	WG2122633

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	1770		28.7	100	1	08/31/2023 04:54	WG2123398
(S) a,a,a-Trifluorotoluene(FID)	*103*			*50.0-150*		*08/31/2023 04:54*	WG2123398

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		113	500	10	08/31/2023 23:24	WG2124997
1,2,3-Trichloropropane	U		0.0200	0.0500	10	08/30/2023 17:14	WG2121198
Acrolein	U	C3	25.4	500	10	08/31/2023 23:24	WG2124997
1,2-Dibromoethane	U		0.0410	0.0500	10	08/30/2023 17:14	WG2121198
Acrylonitrile	U		6.71	100	10	08/31/2023 23:24	WG2124997
Benzene	428		0.941	10.0	10	08/31/2023 23:24	WG2124997
Bromobenzene	U		1.18	10.0	10	08/31/2023 23:24	WG2124997
Bromochloromethane	U		1.28	10.0	10	08/31/2023 23:24	WG2124997
Bromodichloromethane	U		1.36	10.0	10	08/31/2023 23:24	WG2124997
Bromoform	U		1.29	10.0	10	08/31/2023 23:24	WG2124997
Bromomethane	U	C3	6.05	50.0	10	08/31/2023 23:24	WG2124997
n-Butylbenzene	U		1.57	10.0	10	08/31/2023 23:24	WG2124997
sec-Butylbenzene	U		1.25	10.0	10	08/31/2023 23:24	WG2124997
tert-Butylbenzene	U		1.27	10.0	10	08/31/2023 23:24	WG2124997
Carbon disulfide	U		0.962	10.0	10	08/31/2023 23:24	WG2124997
Carbon tetrachloride	U		1.28	10.0	10	08/31/2023 23:24	WG2124997
Chlorobenzene	U		1.16	10.0	10	08/31/2023 23:24	WG2124997
Chlorodibromomethane	U		1.40	10.0	10	08/31/2023 23:24	WG2124997
Chloroethane	U		1.92	50.0	10	08/31/2023 23:24	WG2124997
Chloroform	U		1.11	50.0	10	08/31/2023 23:24	WG2124997
Chloromethane	U		9.60	25.0	10	08/31/2023 23:24	WG2124997
2-Chlorotoluene	U		1.06	10.0	10	08/31/2023 23:24	WG2124997
4-Chlorotoluene	U		1.14	10.0	10	08/31/2023 23:24	WG2124997
1,2-Dibromo-3-Chloropropane	U		2.76	50.0	10	08/31/2023 23:24	WG2124997
1,2-Dibromoethane	U		1.26	10.0	10	08/31/2023 23:24	WG2124997
Dibromomethane	U		1.22	10.0	10	08/31/2023 23:24	WG2124997
1,2-Dichlorobenzene	U		1.07	10.0	10	08/31/2023 23:24	WG2124997
1,3-Dichlorobenzene	U		1.10	10.0	10	08/31/2023 23:24	WG2124997
1,4-Dichlorobenzene	U		1.20	10.0	10	08/31/2023 23:24	WG2124997
Dichlorodifluoromethane	U		3.74	50.0	10	08/31/2023 23:24	WG2124997
1,1-Dichloroethane	U		1.00	10.0	10	08/31/2023 23:24	WG2124997
1,2-Dichloroethane	U		0.819	10.0	10	08/31/2023 23:24	WG2124997
1,1-Dichloroethene	U		1.88	10.0	10	08/31/2023 23:24	WG2124997
cis-1,2-Dichloroethene	U		1.26	10.0	10	08/31/2023 23:24	WG2124997
trans-1,2-Dichloroethene	U		1.49	10.0	10	08/31/2023 23:24	WG2124997
1,2-Dichloropropane	U		1.49	10.0	10	08/31/2023 23:24	WG2124997
1,1-Dichloropropene	U		1.42	10.0	10	08/31/2023 23:24	WG2124997
1,3-Dichloropropane	U		1.10	10.0	10	08/31/2023 23:24	WG2124997
cis-1,3-Dichloropropene	U		1.11	10.0	10	08/31/2023 23:24	WG2124997
trans-1,3-Dichloropropene	U		1.18	10.0	10	08/31/2023 23:24	WG2124997
2,2-Dichloropropane	U		1.61	10.0	10	08/31/2023 23:24	WG2124997
Di-isopropyl ether	U		1.05	10.0	10	08/31/2023 23:24	WG2124997
Ethylbenzene	17.5		1.37	10.0	10	08/31/2023 23:24	WG2124997

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	U		3.37	10.0	10	08/31/2023 23:24	WG2124997
Isopropylbenzene	U		1.05	10.0	10	08/31/2023 23:24	WG2124997
p-Isopropyltoluene	U		1.20	10.0	10	08/31/2023 23:24	WG2124997
2-Butanone (MEK)	U		11.9	100	10	08/31/2023 23:24	WG2124997
Methylene Chloride	U		4.30	50.0	10	08/31/2023 23:24	WG2124997
4-Methyl-2-pentanone (MIBK)	U		4.78	100	10	08/31/2023 23:24	WG2124997
Methyl tert-butyl ether	U		1.01	10.0	10	08/31/2023 23:24	WG2124997
Naphthalene	U		10.0	50.0	10	08/31/2023 23:24	WG2124997
n-Propylbenzene	U		0.993	10.0	10	08/31/2023 23:24	WG2124997
Styrene	U		1.18	10.0	10	08/31/2023 23:24	WG2124997
1,1,1,2-Tetrachloroethane	U		1.47	10.0	10	08/31/2023 23:24	WG2124997
1,1,2,2-Tetrachloroethane	U		1.33	10.0	10	08/31/2023 23:24	WG2124997
1,1,2-Trichlorotrifluoroethane	U		1.80	10.0	10	08/31/2023 23:24	WG2124997
Tetrachloroethene	U		3.00	10.0	10	08/31/2023 23:24	WG2124997
Toluene	U		2.78	10.0	10	08/31/2023 23:24	WG2124997
1,2,3-Trichlorobenzene	U		2.30	10.0	10	08/31/2023 23:24	WG2124997
1,2,4-Trichlorobenzene	U		4.81	10.0	10	08/31/2023 23:24	WG2124997
1,1,1-Trichloroethane	U		1.49	10.0	10	08/31/2023 23:24	WG2124997
1,1,2-Trichloroethane	U		1.58	10.0	10	08/31/2023 23:24	WG2124997
Trichloroethene	U		1.90	10.0	10	08/31/2023 23:24	WG2124997
Trichlorofluoromethane	U		1.60	50.0	10	08/31/2023 23:24	WG2124997
1,2,3-Trichloropropane	U		2.37	25.0	10	08/31/2023 23:24	WG2124997
1,2,4-Trimethylbenzene	U		3.22	10.0	10	08/31/2023 23:24	WG2124997
1,2,3-Trimethylbenzene	U		1.04	10.0	10	08/31/2023 23:24	WG2124997
1,3,5-Trimethylbenzene	U		1.04	10.0	10	08/31/2023 23:24	WG2124997
Vinyl chloride	U		2.34	10.0	10	08/31/2023 23:24	WG2124997
Xylenes, Total	30.0	J	1.74	30.0	10	08/31/2023 23:24	WG2124997
o-Xylene	U		1.74	10.0	10	08/31/2023 23:24	WG2124997
m&p-Xylene	30.0		4.30	20.0	10	08/31/2023 23:24	WG2124997
(S) Toluene-d8	*113*			*80.0-120*		*08/31/2023 23:24*	WG2124997
(S) 4-Bromofluorobenzene	*116*			*77.0-126*		*08/31/2023 23:24*	WG2124997
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*08/31/2023 23:24*	WG2124997

Sample Narrative:

L1649472-02 WG2124997, WG2121198: Dilution due to foam

L1649472-02 WG2124997, WG2121198: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	13300		170	800	1	09/01/2023 15:39	WG2122949
(S) o-Terphenyl	*52.6*			*50.0-150*		*09/01/2023 15:39*	WG2122949

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0190	0.0500	1	08/26/2023 16:49	WG2120839
Acenaphthene	U		0.0190	0.0500	1	08/26/2023 16:49	WG2120839
Acenaphthylene	U		0.0170	0.0500	1	08/26/2023 16:49	WG2120839
Benzo(a)anthracene	U		0.0200	0.0500	1	08/26/2023 16:49	WG2120839
Benzo(a)pyrene	U		0.0180	0.0500	1	08/26/2023 16:49	WG2120839
Benzo(b)fluoranthene	U		0.0170	0.0500	1	08/26/2023 16:49	WG2120839
Benzo(g,h,i)perylene	U		0.0180	0.0500	1	08/26/2023 16:49	WG2120839
Benzo(k)fluoranthene	U		0.0200	0.250	1	08/26/2023 16:49	WG2120839
Chrysene	U		0.0180	0.0500	1	08/26/2023 16:49	WG2120839

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibenz(a,h)anthracene	U		0.0180	0.0500	1	08/26/2023 16:49	WG2120839
Fluoranthene	0.0308	J	0.0110	0.0500	1	08/26/2023 16:49	WG2120839
Fluorene	0.0258	J	0.0170	0.0500	1	08/26/2023 16:49	WG2120839
Indeno(1,2,3-cd)pyrene	U		0.0180	0.0500	1	08/26/2023 16:49	WG2120839
Naphthalene	0.169	J	0.128	0.500	1	08/26/2023 16:49	WG2120839
Phenanthrene	0.0304	J	0.0180	0.0500	1	08/26/2023 16:49	WG2120839
Pyrene	0.0227	J	0.0170	0.0500	1	08/26/2023 16:49	WG2120839
1-Methylnaphthalene	0.0260	J	0.0200	0.500	1	08/26/2023 16:49	WG2120839
2-Methylnaphthalene	0.0371	J	0.0280	0.500	1	08/26/2023 16:49	WG2120839
2-Chloronaphthalene	U		0.0120	0.500	1	08/26/2023 16:49	WG2120839
(S) Nitrobenzene-d5	*60.0*			*11.0-135*		*08/26/2023 16:49*	WG2120839
(S) 2-Fluorobiphenyl	*55.5*			*32.0-120*		*08/26/2023 16:49*	WG2120839
(S) p-Terphenyl-d14	*58.0*			*23.0-122*		*08/26/2023 16:49*	WG2120839

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	U		2.99	6.00	1	08/31/2023 21:02	WG2122633

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	89.2	B J	28.7	100	1	08/31/2023 05:17	WG2123398
(S) a,a,a-Trifluorotoluene(FID)	*101*			*50.0-150*		*08/31/2023 05:17*	WG2123398

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	08/27/2023 03:39	WG2121730
1,2,3-Trichloropropane	U		0.00200	0.00500	1	08/30/2023 14:51	WG2121198
Acrolein	U		2.54	50.0	1	08/27/2023 03:39	WG2121730
1,2-Dibromoethane	U		0.00410	0.00500	1	08/30/2023 14:51	WG2121198
Acrylonitrile	U		0.671	10.0	1	08/27/2023 03:39	WG2121730
Benzene	U		0.0941	1.00	1	08/27/2023 03:39	WG2121730
Bromobenzene	U		0.118	1.00	1	08/27/2023 03:39	WG2121730
Bromochloromethane	U		0.128	1.00	1	08/27/2023 03:39	WG2121730
Bromodichloromethane	U		0.136	1.00	1	08/27/2023 03:39	WG2121730
Bromoform	U		0.129	1.00	1	08/27/2023 03:39	WG2121730
Bromomethane	U	J4	0.605	5.00	1	08/27/2023 03:39	WG2121730
n-Butylbenzene	U		0.157	1.00	1	08/27/2023 03:39	WG2121730
sec-Butylbenzene	U		0.125	1.00	1	08/27/2023 03:39	WG2121730
tert-Butylbenzene	U		0.127	1.00	1	08/27/2023 03:39	WG2121730
Carbon disulfide	U		0.0962	1.00	1	08/27/2023 03:39	WG2121730
Carbon tetrachloride	U		0.128	1.00	1	08/27/2023 03:39	WG2121730
Chlorobenzene	U		0.116	1.00	1	08/27/2023 03:39	WG2121730
Chlorodibromomethane	U		0.140	1.00	1	08/27/2023 03:39	WG2121730
Chloroethane	U		0.192	5.00	1	08/27/2023 03:39	WG2121730
Chloroform	U		0.111	5.00	1	08/27/2023 03:39	WG2121730
Chloromethane	U		0.960	2.50	1	08/27/2023 03:39	WG2121730
2-Chlorotoluene	U		0.106	1.00	1	08/27/2023 03:39	WG2121730
4-Chlorotoluene	U		0.114	1.00	1	08/27/2023 03:39	WG2121730
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/27/2023 03:39	WG2121730
1,2-Dibromoethane	U		0.126	1.00	1	08/27/2023 03:39	WG2121730
Dibromomethane	U		0.122	1.00	1	08/27/2023 03:39	WG2121730
1,2-Dichlorobenzene	U		0.107	1.00	1	08/27/2023 03:39	WG2121730
1,3-Dichlorobenzene	U		0.110	1.00	1	08/27/2023 03:39	WG2121730
1,4-Dichlorobenzene	U		0.120	1.00	1	08/27/2023 03:39	WG2121730
Dichlorodifluoromethane	U		0.374	5.00	1	08/27/2023 03:39	WG2121730
1,1-Dichloroethane	U		0.100	1.00	1	08/27/2023 03:39	WG2121730
1,2-Dichloroethane	U		0.0819	1.00	1	08/27/2023 03:39	WG2121730
1,1-Dichloroethene	U		0.188	1.00	1	08/27/2023 03:39	WG2121730
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/27/2023 03:39	WG2121730
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/27/2023 03:39	WG2121730
1,2-Dichloropropane	U		0.149	1.00	1	08/27/2023 03:39	WG2121730
1,1-Dichloropropene	U		0.142	1.00	1	08/27/2023 03:39	WG2121730
1,3-Dichloropropane	U		0.110	1.00	1	08/27/2023 03:39	WG2121730
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/27/2023 03:39	WG2121730
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/27/2023 03:39	WG2121730
2,2-Dichloropropane	U		0.161	1.00	1	08/27/2023 03:39	WG2121730
Di-isopropyl ether	U		0.105	1.00	1	08/27/2023 03:39	WG2121730
Ethylbenzene	U		0.137	1.00	1	08/27/2023 03:39	WG2121730

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/27/2023 03:39	WG2121730
Isopropylbenzene	U		0.105	1.00	1	08/27/2023 03:39	WG2121730
p-Isopropyltoluene	U		0.120	1.00	1	08/27/2023 03:39	WG2121730
2-Butanone (MEK)	U		1.19	10.0	1	08/27/2023 03:39	WG2121730
Methylene Chloride	U	C3	0.430	5.00	1	08/27/2023 03:39	WG2121730
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/27/2023 03:39	WG2121730
Methyl tert-butyl ether	U		0.101	1.00	1	08/27/2023 03:39	WG2121730
Naphthalene	U		1.00	5.00	1	08/27/2023 03:39	WG2121730
n-Propylbenzene	U		0.0993	1.00	1	08/27/2023 03:39	WG2121730
Styrene	U		0.118	1.00	1	08/27/2023 03:39	WG2121730
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/27/2023 03:39	WG2121730
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/27/2023 03:39	WG2121730
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/27/2023 03:39	WG2121730
Tetrachloroethene	U		0.300	1.00	1	08/27/2023 03:39	WG2121730
Toluene	U		0.278	1.00	1	08/27/2023 03:39	WG2121730
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/27/2023 03:39	WG2121730
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/27/2023 03:39	WG2121730
1,1,1-Trichloroethane	U		0.149	1.00	1	08/27/2023 03:39	WG2121730
1,1,2-Trichloroethane	U		0.158	1.00	1	08/27/2023 03:39	WG2121730
Trichloroethene	U		0.190	1.00	1	08/27/2023 03:39	WG2121730
Trichlorofluoromethane	U		0.160	5.00	1	08/27/2023 03:39	WG2121730
1,2,3-Trichloropropane	U		0.237	2.50	1	08/27/2023 03:39	WG2121730
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/27/2023 03:39	WG2121730
1,2,3-Trimethylbenzene	U		0.104	1.00	1	08/27/2023 03:39	WG2121730
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/27/2023 03:39	WG2121730
Vinyl chloride	U		0.234	1.00	1	08/27/2023 03:39	WG2121730
Xylenes, Total	U		0.174	3.00	1	08/27/2023 03:39	WG2121730
o-Xylene	U		0.174	1.00	1	08/27/2023 03:39	WG2121730
m&p-Xylene	U		0.430	2.00	1	08/27/2023 03:39	WG2121730
(S) Toluene-d8	*102*			*80.0-120*		*08/27/2023 03:39*	WG2121730
(S) 4-Bromofluorobenzene	*98.0*			*77.0-126*		*08/27/2023 03:39*	WG2121730
(S) 1,2-Dichloroethane-d4	*94.6*			*70.0-130*		*08/27/2023 03:39*	WG2121730

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	267	J	170	800	1	09/01/2023 15:59	WG2122949
(S) o-Terphenyl	*94.0*			*50.0-150*		*09/01/2023 15:59*	WG2122949

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0190	0.0500	1	08/26/2023 17:09	WG2120839
Acenaphthene	0.0659		0.0190	0.0500	1	08/26/2023 17:09	WG2120839
Acenaphthylene	U		0.0170	0.0500	1	08/26/2023 17:09	WG2120839
Benzo(a)anthracene	U		0.0200	0.0500	1	08/26/2023 17:09	WG2120839
Benzo(a)pyrene	U		0.0180	0.0500	1	08/26/2023 17:09	WG2120839
Benzo(b)fluoranthene	U		0.0170	0.0500	1	08/26/2023 17:09	WG2120839
Benzo(g,h,i)perylene	U		0.0180	0.0500	1	08/26/2023 17:09	WG2120839
Benzo(k)fluoranthene	U		0.0200	0.250	1	08/26/2023 17:09	WG2120839
Chrysene	U		0.0180	0.0500	1	08/26/2023 17:09	WG2120839
Dibenz(a,h)anthracene	U		0.0180	0.0500	1	08/26/2023 17:09	WG2120839
Fluoranthene	0.0664		0.0110	0.0500	1	08/26/2023 17:09	WG2120839
Fluorene	U		0.0170	0.0500	1	08/26/2023 17:09	WG2120839
Indeno(1,2,3-cd)pyrene	U		0.0180	0.0500	1	08/26/2023 17:09	WG2120839

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Naphthalene	U		0.128	0.500	1	08/26/2023 17:09	WG2120839
Phenanthrene	U		0.0180	0.0500	1	08/26/2023 17:09	WG2120839
Pyrene	0.0355	J	0.0170	0.0500	1	08/26/2023 17:09	WG2120839
1-Methylnaphthalene	U		0.0200	0.500	1	08/26/2023 17:09	WG2120839
2-Methylnaphthalene	U		0.0280	0.500	1	08/26/2023 17:09	WG2120839
2-Chloronaphthalene	U		0.0120	0.500	1	08/26/2023 17:09	WG2120839
(S) Nitrobenzene-d5	*45.6*			*11.0-135*		*08/26/2023 17:09*	WG2120839
(S) 2-Fluorobiphenyl	*51.5*			*32.0-120*		*08/26/2023 17:09*	WG2120839
(S) p-Terphenyl-d14	*51.5*			*23.0-122*		*08/26/2023 17:09*	WG2120839

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	U		2.99	6.00	1	08/31/2023 21:04	WG2122633

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	29.4	B J	28.7	100	1	08/31/2023 05:39	WG2123398
(S) a,a,a-Trifluorotoluene(FID)	*98.5*			*50.0-150*		*08/31/2023 05:39*	WG2123398

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	08/27/2023 03:59	WG2121730
1,2,3-Trichloropropane	U		0.00200	0.00500	1	08/30/2023 15:15	WG2121198
Acrolein	U		2.54	50.0	1	08/27/2023 03:59	WG2121730
1,2-Dibromoethane	U		0.00410	0.00500	1	08/30/2023 15:15	WG2121198
Acrylonitrile	U		0.671	10.0	1	08/27/2023 03:59	WG2121730
Benzene	U		0.0941	1.00	1	08/27/2023 03:59	WG2121730
Bromobenzene	U		0.118	1.00	1	08/27/2023 03:59	WG2121730
Bromochloromethane	U		0.128	1.00	1	08/27/2023 03:59	WG2121730
Bromodichloromethane	U		0.136	1.00	1	08/27/2023 03:59	WG2121730
Bromoform	U		0.129	1.00	1	08/27/2023 03:59	WG2121730
Bromomethane	U	J4	0.605	5.00	1	08/27/2023 03:59	WG2121730
n-Butylbenzene	U		0.157	1.00	1	08/27/2023 03:59	WG2121730
sec-Butylbenzene	U		0.125	1.00	1	08/27/2023 03:59	WG2121730
tert-Butylbenzene	U		0.127	1.00	1	08/27/2023 03:59	WG2121730
Carbon disulfide	U		0.0962	1.00	1	08/27/2023 03:59	WG2121730
Carbon tetrachloride	U		0.128	1.00	1	08/27/2023 03:59	WG2121730
Chlorobenzene	U		0.116	1.00	1	08/27/2023 03:59	WG2121730
Chlorodibromomethane	U		0.140	1.00	1	08/27/2023 03:59	WG2121730
Chloroethane	U		0.192	5.00	1	08/27/2023 03:59	WG2121730
Chloroform	U		0.111	5.00	1	08/27/2023 03:59	WG2121730
Chloromethane	U		0.960	2.50	1	08/27/2023 03:59	WG2121730
2-Chlorotoluene	U		0.106	1.00	1	08/27/2023 03:59	WG2121730
4-Chlorotoluene	U		0.114	1.00	1	08/27/2023 03:59	WG2121730
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/27/2023 03:59	WG2121730
1,2-Dibromoethane	U		0.126	1.00	1	08/27/2023 03:59	WG2121730
Dibromomethane	U		0.122	1.00	1	08/27/2023 03:59	WG2121730
1,2-Dichlorobenzene	U		0.107	1.00	1	08/27/2023 03:59	WG2121730
1,3-Dichlorobenzene	U		0.110	1.00	1	08/27/2023 03:59	WG2121730
1,4-Dichlorobenzene	U		0.120	1.00	1	08/27/2023 03:59	WG2121730
Dichlorodifluoromethane	U		0.374	5.00	1	08/27/2023 03:59	WG2121730
1,1-Dichloroethane	U		0.100	1.00	1	08/27/2023 03:59	WG2121730
1,2-Dichloroethane	U		0.0819	1.00	1	08/27/2023 03:59	WG2121730
1,1-Dichloroethene	U		0.188	1.00	1	08/27/2023 03:59	WG2121730
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/27/2023 03:59	WG2121730
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/27/2023 03:59	WG2121730
1,2-Dichloropropane	U		0.149	1.00	1	08/27/2023 03:59	WG2121730
1,1-Dichloropropene	U		0.142	1.00	1	08/27/2023 03:59	WG2121730
1,3-Dichloropropane	U		0.110	1.00	1	08/27/2023 03:59	WG2121730
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/27/2023 03:59	WG2121730
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/27/2023 03:59	WG2121730
2,2-Dichloropropane	U		0.161	1.00	1	08/27/2023 03:59	WG2121730
Di-isopropyl ether	U		0.105	1.00	1	08/27/2023 03:59	WG2121730
Ethylbenzene	U		0.137	1.00	1	08/27/2023 03:59	WG2121730

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/27/2023 03:59	WG2121730
Isopropylbenzene	U		0.105	1.00	1	08/27/2023 03:59	WG2121730
p-Isopropyltoluene	U		0.120	1.00	1	08/27/2023 03:59	WG2121730
2-Butanone (MEK)	U		1.19	10.0	1	08/27/2023 03:59	WG2121730
Methylene Chloride	U	C3	0.430	5.00	1	08/27/2023 03:59	WG2121730
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/27/2023 03:59	WG2121730
Methyl tert-butyl ether	U		0.101	1.00	1	08/27/2023 03:59	WG2121730
Naphthalene	U		1.00	5.00	1	08/27/2023 03:59	WG2121730
n-Propylbenzene	U		0.0993	1.00	1	08/27/2023 03:59	WG2121730
Styrene	U		0.118	1.00	1	08/27/2023 03:59	WG2121730
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/27/2023 03:59	WG2121730
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/27/2023 03:59	WG2121730
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/27/2023 03:59	WG2121730
Tetrachloroethene	U		0.300	1.00	1	08/27/2023 03:59	WG2121730
Toluene	U		0.278	1.00	1	08/27/2023 03:59	WG2121730
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/27/2023 03:59	WG2121730
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/27/2023 03:59	WG2121730
1,1,1-Trichloroethane	U		0.149	1.00	1	08/27/2023 03:59	WG2121730
1,1,2-Trichloroethane	U		0.158	1.00	1	08/27/2023 03:59	WG2121730
Trichloroethene	U		0.190	1.00	1	08/27/2023 03:59	WG2121730
Trichlorofluoromethane	U		0.160	5.00	1	08/27/2023 03:59	WG2121730
1,2,3-Trichloropropane	U		0.237	2.50	1	08/27/2023 03:59	WG2121730
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/27/2023 03:59	WG2121730
1,2,3-Trimethylbenzene	U		0.104	1.00	1	08/27/2023 03:59	WG2121730
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/27/2023 03:59	WG2121730
Vinyl chloride	U		0.234	1.00	1	08/27/2023 03:59	WG2121730
Xylenes, Total	U		0.174	3.00	1	08/27/2023 03:59	WG2121730
o-Xylene	U		0.174	1.00	1	08/27/2023 03:59	WG2121730
m&p-Xylene	U		0.430	2.00	1	08/27/2023 03:59	WG2121730
(S) Toluene-d8	*102*			*80.0-120*		*08/27/2023 03:59*	WG2121730
(S) 4-Bromofluorobenzene	*96.6*			*77.0-126*		*08/27/2023 03:59*	WG2121730
(S) 1,2-Dichloroethane-d4	*95.8*			*70.0-130*		*08/27/2023 03:59*	WG2121730

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	194	J	170	800	1	09/01/2023 16:20	WG2122949
(S) o-Terphenyl	*79.3*			*50.0-150*		*09/01/2023 16:20*	WG2122949

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0190	0.0500	1	08/26/2023 17:29	WG2120839
Acenaphthene	U		0.0190	0.0500	1	08/26/2023 17:29	WG2120839
Acenaphthylene	U		0.0170	0.0500	1	08/26/2023 17:29	WG2120839
Benzo(a)anthracene	U		0.0200	0.0500	1	08/26/2023 17:29	WG2120839
Benzo(a)pyrene	U		0.0180	0.0500	1	08/26/2023 17:29	WG2120839
Benzo(b)fluoranthene	U		0.0170	0.0500	1	08/26/2023 17:29	WG2120839
Benzo(g,h,i)perylene	U		0.0180	0.0500	1	08/26/2023 17:29	WG2120839
Benzo(k)fluoranthene	U		0.0200	0.250	1	08/26/2023 17:29	WG2120839
Chrysene	U		0.0180	0.0500	1	08/26/2023 17:29	WG2120839
Dibenz(a,h)anthracene	U		0.0180	0.0500	1	08/26/2023 17:29	WG2120839
Fluoranthene	0.0208	J	0.0110	0.0500	1	08/26/2023 17:29	WG2120839
Fluorene	U		0.0170	0.0500	1	08/26/2023 17:29	WG2120839
Indeno(1,2,3-cd)pyrene	U		0.0180	0.0500	1	08/26/2023 17:29	WG2120839

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Naphthalene	U		0.128	0.500	1	08/26/2023 17:29	WG2120839
Phenanthrene	0.0607		0.0180	0.0500	1	08/26/2023 17:29	WG2120839
Pyrene	0.0213	J	0.0170	0.0500	1	08/26/2023 17:29	WG2120839
1-Methylnaphthalene	0.0299	J	0.0200	0.500	1	08/26/2023 17:29	WG2120839
2-Methylnaphthalene	0.0519	J	0.0280	0.500	1	08/26/2023 17:29	WG2120839
2-Chloronaphthalene	U		0.0120	0.500	1	08/26/2023 17:29	WG2120839
(S) Nitrobenzene-d5	*44.7*			*11.0-135*		*08/26/2023 17:29*	WG2120839
(S) 2-Fluorobiphenyl	*51.0*			*32.0-120*		*08/26/2023 17:29*	WG2120839
(S) p-Terphenyl-d14	*58.5*			*23.0-122*		*08/26/2023 17:29*	WG2120839

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	5.14	J	2.99	6.00	1	08/31/2023 21:07	WG2122633

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	U		28.7	100	1	08/31/2023 06:02	WG2123398
(S) a,a,a-Trifluorotoluene(FID)	*96.8*			*50.0-150*		*08/31/2023 06:02*	WG2123398

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	08/27/2023 04:20	WG2121730
1,2,3-Trichloropropane	U		0.00200	0.00500	1	08/30/2023 15:38	WG2121198
Acrolein	U		2.54	50.0	1	08/27/2023 04:20	WG2121730
1,2-Dibromoethane	U		0.00410	0.00500	1	08/30/2023 15:38	WG2121198
Acrylonitrile	U		0.671	10.0	1	08/27/2023 04:20	WG2121730
Benzene	U		0.0941	1.00	1	08/27/2023 04:20	WG2121730
Bromobenzene	U		0.118	1.00	1	08/27/2023 04:20	WG2121730
Bromochloromethane	U		0.128	1.00	1	08/27/2023 04:20	WG2121730
Bromodichloromethane	U		0.136	1.00	1	08/27/2023 04:20	WG2121730
Bromoform	U		0.129	1.00	1	08/27/2023 04:20	WG2121730
Bromomethane	U	J4	0.605	5.00	1	08/27/2023 04:20	WG2121730
n-Butylbenzene	U		0.157	1.00	1	08/27/2023 04:20	WG2121730
sec-Butylbenzene	U		0.125	1.00	1	08/27/2023 04:20	WG2121730
tert-Butylbenzene	U		0.127	1.00	1	08/27/2023 04:20	WG2121730
Carbon disulfide	U		0.0962	1.00	1	08/27/2023 04:20	WG2121730
Carbon tetrachloride	U		0.128	1.00	1	08/27/2023 04:20	WG2121730
Chlorobenzene	U		0.116	1.00	1	08/27/2023 04:20	WG2121730
Chlorodibromomethane	U		0.140	1.00	1	08/27/2023 04:20	WG2121730
Chloroethane	U		0.192	5.00	1	08/27/2023 04:20	WG2121730
Chloroform	U		0.111	5.00	1	08/27/2023 04:20	WG2121730
Chloromethane	U		0.960	2.50	1	08/27/2023 04:20	WG2121730
2-Chlorotoluene	U		0.106	1.00	1	08/27/2023 04:20	WG2121730
4-Chlorotoluene	U		0.114	1.00	1	08/27/2023 04:20	WG2121730
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/27/2023 04:20	WG2121730
1,2-Dibromoethane	U		0.126	1.00	1	08/27/2023 04:20	WG2121730
Dibromomethane	U		0.122	1.00	1	08/27/2023 04:20	WG2121730
1,2-Dichlorobenzene	U		0.107	1.00	1	08/27/2023 04:20	WG2121730
1,3-Dichlorobenzene	U		0.110	1.00	1	08/27/2023 04:20	WG2121730
1,4-Dichlorobenzene	U		0.120	1.00	1	08/27/2023 04:20	WG2121730
Dichlorodifluoromethane	U		0.374	5.00	1	08/27/2023 04:20	WG2121730
1,1-Dichloroethane	U		0.100	1.00	1	08/27/2023 04:20	WG2121730
1,2-Dichloroethane	U		0.0819	1.00	1	08/27/2023 04:20	WG2121730
1,1-Dichloroethene	U		0.188	1.00	1	08/27/2023 04:20	WG2121730
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/27/2023 04:20	WG2121730
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/27/2023 04:20	WG2121730
1,2-Dichloropropane	U		0.149	1.00	1	08/27/2023 04:20	WG2121730
1,1-Dichloropropene	U		0.142	1.00	1	08/27/2023 04:20	WG2121730
1,3-Dichloropropane	U		0.110	1.00	1	08/27/2023 04:20	WG2121730
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/27/2023 04:20	WG2121730
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/27/2023 04:20	WG2121730
2,2-Dichloropropane	U		0.161	1.00	1	08/27/2023 04:20	WG2121730
Di-isopropyl ether	U		0.105	1.00	1	08/27/2023 04:20	WG2121730
Ethylbenzene	U		0.137	1.00	1	08/27/2023 04:20	WG2121730

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/27/2023 04:20	WG2121730
Isopropylbenzene	U		0.105	1.00	1	08/27/2023 04:20	WG2121730
p-Isopropyltoluene	U		0.120	1.00	1	08/27/2023 04:20	WG2121730
2-Butanone (MEK)	U		1.19	10.0	1	08/27/2023 04:20	WG2121730
Methylene Chloride	U	C3	0.430	5.00	1	08/27/2023 04:20	WG2121730
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/27/2023 04:20	WG2121730
Methyl tert-butyl ether	U		0.101	1.00	1	08/27/2023 04:20	WG2121730
Naphthalene	U		1.00	5.00	1	08/27/2023 04:20	WG2121730
n-Propylbenzene	U		0.0993	1.00	1	08/27/2023 04:20	WG2121730
Styrene	U		0.118	1.00	1	08/27/2023 04:20	WG2121730
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/27/2023 04:20	WG2121730
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/27/2023 04:20	WG2121730
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/27/2023 04:20	WG2121730
Tetrachloroethene	U		0.300	1.00	1	08/27/2023 04:20	WG2121730
Toluene	U		0.278	1.00	1	08/27/2023 04:20	WG2121730
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/27/2023 04:20	WG2121730
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/27/2023 04:20	WG2121730
1,1,1-Trichloroethane	U		0.149	1.00	1	08/27/2023 04:20	WG2121730
1,1,2-Trichloroethane	U		0.158	1.00	1	08/27/2023 04:20	WG2121730
Trichloroethene	U		0.190	1.00	1	08/27/2023 04:20	WG2121730
Trichlorofluoromethane	U		0.160	5.00	1	08/27/2023 04:20	WG2121730
1,2,3-Trichloropropane	U		0.237	2.50	1	08/27/2023 04:20	WG2121730
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/27/2023 04:20	WG2121730
1,2,3-Trimethylbenzene	U		0.104	1.00	1	08/27/2023 04:20	WG2121730
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/27/2023 04:20	WG2121730
Vinyl chloride	U		0.234	1.00	1	08/27/2023 04:20	WG2121730
Xylenes, Total	U		0.174	3.00	1	08/27/2023 04:20	WG2121730
o-Xylene	U		0.174	1.00	1	08/27/2023 04:20	WG2121730
m&p-Xylene	U		0.430	2.00	1	08/27/2023 04:20	WG2121730
(S) Toluene-d8	*101*			*80.0-120*		*08/27/2023 04:20*	WG2121730
(S) 4-Bromofluorobenzene	*95.7*			*77.0-126*		*08/27/2023 04:20*	WG2121730
(S) 1,2-Dichloroethane-d4	*95.7*			*70.0-130*		*08/27/2023 04:20*	WG2121730

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	218	J	170	800	1	09/01/2023 16:41	WG2122949
(S) o-Terphenyl	*81.6*			*50.0-150*		*09/01/2023 16:41*	WG2122949

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0190	0.0500	1	08/30/2023 17:28	WG2120839
Acenaphthene	U		0.0190	0.0500	1	08/30/2023 17:28	WG2120839
Acenaphthylene	U		0.0170	0.0500	1	08/30/2023 17:28	WG2120839
Benzo(a)anthracene	U		0.0200	0.0500	1	08/30/2023 17:28	WG2120839
Benzo(a)pyrene	U		0.0180	0.0500	1	08/30/2023 17:28	WG2120839
Benzo(b)fluoranthene	0.0415	J	0.0170	0.0500	1	08/30/2023 17:28	WG2120839
Benzo(g,h,i)perylene	0.0485	J	0.0180	0.0500	1	08/30/2023 17:28	WG2120839
Benzo(k)fluoranthene	U		0.0200	0.250	1	08/30/2023 17:28	WG2120839
Chrysene	U		0.0180	0.0500	1	08/30/2023 17:28	WG2120839
Dibenz(a,h)anthracene	U		0.0180	0.0500	1	08/30/2023 17:28	WG2120839
Fluoranthene	0.0383	J	0.0110	0.0500	1	08/30/2023 17:28	WG2120839
Fluorene	U		0.0170	0.0500	1	08/30/2023 17:28	WG2120839
Indeno(1,2,3-cd)pyrene	0.0436	J	0.0180	0.0500	1	08/30/2023 17:28	WG2120839

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Naphthalene	U		0.128	0.500	1	08/30/2023 17:28	WG2120839
Phenanthrene	0.0285	J	0.0180	0.0500	1	08/30/2023 17:28	WG2120839
Pyrene	0.0291	J	0.0170	0.0500	1	08/30/2023 17:28	WG2120839
1-Methylnaphthalene	U		0.0200	0.500	1	08/30/2023 17:28	WG2120839
2-Methylnaphthalene	U		0.0280	0.500	1	08/30/2023 17:28	WG2120839
2-Chloronaphthalene	U		0.0120	0.500	1	08/30/2023 17:28	WG2120839
(S) Nitrobenzene-d5	*55.5*			*11.0-135*		*08/30/2023 17:28*	WG2120839
(S) 2-Fluorobiphenyl	*55.5*			*32.0-120*		*08/30/2023 17:28*	WG2120839
(S) p-Terphenyl-d14	*70.5*			*23.0-122*		*08/30/2023 17:28*	WG2120839

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.99	6.00	1	08/31/2023 21:10	WG2122633

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPHGAK C6 to C10	U		28.7	100	1	08/31/2023 06:25	WG2123398
(S) a,a,a-Trifluorotoluene(FID)	*104*			*50.0-150*		*08/31/2023 06:25*	WG2123398

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	08/27/2023 04:40	WG2121730
1,2,3-Trichloropropane	U		0.00200	0.00500	1	08/30/2023 16:02	WG2121198
Acrolein	U		2.54	50.0	1	08/27/2023 04:40	WG2121730
1,2-Dibromoethane	U		0.00410	0.00500	1	08/30/2023 16:02	WG2121198
Acrylonitrile	U		0.671	10.0	1	08/27/2023 04:40	WG2121730
Benzene	U		0.0941	1.00	1	08/27/2023 04:40	WG2121730
Bromobenzene	U		0.118	1.00	1	08/27/2023 04:40	WG2121730
Bromochloromethane	U		0.128	1.00	1	08/27/2023 04:40	WG2121730
Bromodichloromethane	U		0.136	1.00	1	08/27/2023 04:40	WG2121730
Bromoform	U		0.129	1.00	1	08/27/2023 04:40	WG2121730
Bromomethane	U	J4	0.605	5.00	1	08/27/2023 04:40	WG2121730
n-Butylbenzene	U		0.157	1.00	1	08/27/2023 04:40	WG2121730
sec-Butylbenzene	U		0.125	1.00	1	08/27/2023 04:40	WG2121730
tert-Butylbenzene	U		0.127	1.00	1	08/27/2023 04:40	WG2121730
Carbon disulfide	U		0.0962	1.00	1	08/27/2023 04:40	WG2121730
Carbon tetrachloride	U		0.128	1.00	1	08/27/2023 04:40	WG2121730
Chlorobenzene	U		0.116	1.00	1	08/27/2023 04:40	WG2121730
Chlorodibromomethane	U		0.140	1.00	1	08/27/2023 04:40	WG2121730
Chloroethane	U		0.192	5.00	1	08/27/2023 04:40	WG2121730
Chloroform	U		0.111	5.00	1	08/27/2023 04:40	WG2121730
Chloromethane	U		0.960	2.50	1	08/27/2023 04:40	WG2121730
2-Chlorotoluene	U		0.106	1.00	1	08/27/2023 04:40	WG2121730
4-Chlorotoluene	U		0.114	1.00	1	08/27/2023 04:40	WG2121730
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/27/2023 04:40	WG2121730
1,2-Dibromoethane	U		0.126	1.00	1	08/27/2023 04:40	WG2121730
Dibromomethane	U		0.122	1.00	1	08/27/2023 04:40	WG2121730
1,2-Dichlorobenzene	U		0.107	1.00	1	08/27/2023 04:40	WG2121730
1,3-Dichlorobenzene	U		0.110	1.00	1	08/27/2023 04:40	WG2121730
1,4-Dichlorobenzene	U		0.120	1.00	1	08/27/2023 04:40	WG2121730
Dichlorodifluoromethane	U		0.374	5.00	1	08/27/2023 04:40	WG2121730
1,1-Dichloroethane	U		0.100	1.00	1	08/27/2023 04:40	WG2121730
1,2-Dichloroethane	U		0.0819	1.00	1	08/27/2023 04:40	WG2121730
1,1-Dichloroethene	U		0.188	1.00	1	08/27/2023 04:40	WG2121730
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/27/2023 04:40	WG2121730
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/27/2023 04:40	WG2121730
1,2-Dichloropropane	U		0.149	1.00	1	08/27/2023 04:40	WG2121730
1,1-Dichloropropene	U		0.142	1.00	1	08/27/2023 04:40	WG2121730
1,3-Dichloropropane	U		0.110	1.00	1	08/27/2023 04:40	WG2121730
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/27/2023 04:40	WG2121730
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/27/2023 04:40	WG2121730
2,2-Dichloropropane	U		0.161	1.00	1	08/27/2023 04:40	WG2121730
Di-isopropyl ether	U		0.105	1.00	1	08/27/2023 04:40	WG2121730
Ethylbenzene	U		0.137	1.00	1	08/27/2023 04:40	WG2121730

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/27/2023 04:40	WG2121730
Isopropylbenzene	U		0.105	1.00	1	08/27/2023 04:40	WG2121730
p-Isopropyltoluene	U		0.120	1.00	1	08/27/2023 04:40	WG2121730
2-Butanone (MEK)	U		1.19	10.0	1	08/27/2023 04:40	WG2121730
Methylene Chloride	U	C3	0.430	5.00	1	08/27/2023 04:40	WG2121730
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/27/2023 04:40	WG2121730
Methyl tert-butyl ether	U		0.101	1.00	1	08/27/2023 04:40	WG2121730
Naphthalene	U		1.00	5.00	1	08/27/2023 04:40	WG2121730
n-Propylbenzene	U		0.0993	1.00	1	08/27/2023 04:40	WG2121730
Styrene	U		0.118	1.00	1	08/27/2023 04:40	WG2121730
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/27/2023 04:40	WG2121730
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/27/2023 04:40	WG2121730
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/27/2023 04:40	WG2121730
Tetrachloroethene	U		0.300	1.00	1	08/27/2023 04:40	WG2121730
Toluene	U		0.278	1.00	1	08/27/2023 04:40	WG2121730
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/27/2023 04:40	WG2121730
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/27/2023 04:40	WG2121730
1,1,1-Trichloroethane	U		0.149	1.00	1	08/27/2023 04:40	WG2121730
1,1,2-Trichloroethane	U		0.158	1.00	1	08/27/2023 04:40	WG2121730
Trichloroethene	U		0.190	1.00	1	08/27/2023 04:40	WG2121730
Trichlorofluoromethane	U		0.160	5.00	1	08/27/2023 04:40	WG2121730
1,2,3-Trichloropropane	U		0.237	2.50	1	08/27/2023 04:40	WG2121730
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/27/2023 04:40	WG2121730
1,2,3-Trimethylbenzene	U		0.104	1.00	1	08/27/2023 04:40	WG2121730
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/27/2023 04:40	WG2121730
Vinyl chloride	U		0.234	1.00	1	08/27/2023 04:40	WG2121730
Xylenes, Total	U		0.174	3.00	1	08/27/2023 04:40	WG2121730
o-Xylene	U		0.174	1.00	1	08/27/2023 04:40	WG2121730
m&p-Xylene	U		0.430	2.00	1	08/27/2023 04:40	WG2121730
(S) Toluene-d8	*102*			*80.0-120*		*08/27/2023 04:40*	WG2121730
(S) 4-Bromofluorobenzene	*97.1*			*77.0-126*		*08/27/2023 04:40*	WG2121730
(S) 1,2-Dichloroethane-d4	*95.7*			*70.0-130*		*08/27/2023 04:40*	WG2121730

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
AK102 DRO C10-C25	219	J	170	800	1	09/01/2023 17:02	WG2122949
(S) o-Terphenyl	*90.5*			*50.0-150*		*09/01/2023 17:02*	WG2122949

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Anthracene	U		0.0190	0.0500	1	08/26/2023 17:49	WG2120839
Acenaphthene	U		0.0190	0.0500	1	08/26/2023 17:49	WG2120839
Acenaphthylene	U		0.0170	0.0500	1	08/26/2023 17:49	WG2120839
Benzo(a)anthracene	U		0.0200	0.0500	1	08/26/2023 17:49	WG2120839
Benzo(a)pyrene	U		0.0180	0.0500	1	08/26/2023 17:49	WG2120839
Benzo(b)fluoranthene	U		0.0170	0.0500	1	08/26/2023 17:49	WG2120839
Benzo(g,h,i)perylene	U		0.0180	0.0500	1	08/26/2023 17:49	WG2120839
Benzo(k)fluoranthene	U		0.0200	0.250	1	08/26/2023 17:49	WG2120839
Chrysene	U		0.0180	0.0500	1	08/26/2023 17:49	WG2120839
Dibenz(a,h)anthracene	U		0.0180	0.0500	1	08/26/2023 17:49	WG2120839
Fluoranthene	0.0141	J	0.0110	0.0500	1	08/26/2023 17:49	WG2120839
Fluorene	U		0.0170	0.0500	1	08/26/2023 17:49	WG2120839
Indeno(1,2,3-cd)pyrene	U		0.0180	0.0500	1	08/26/2023 17:49	WG2120839

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Naphthalene	U		0.128	0.500	1	08/26/2023 17:49	WG2120839
Phenanthrene	0.0289	J	0.0180	0.0500	1	08/26/2023 17:49	WG2120839
Pyrene	U		0.0170	0.0500	1	08/26/2023 17:49	WG2120839
1-Methylnaphthalene	U		0.0200	0.500	1	08/26/2023 17:49	WG2120839
2-Methylnaphthalene	U		0.0280	0.500	1	08/26/2023 17:49	WG2120839
2-Chloronaphthalene	U		0.0120	0.500	1	08/26/2023 17:49	WG2120839
(S) Nitrobenzene-d5	*41.8*			*11.0-135*		*08/26/2023 17:49*	WG2120839
(S) 2-Fluorobiphenyl	*48.8*			*32.0-120*		*08/26/2023 17:49*	WG2120839
(S) p-Terphenyl-d14	*53.5*			*23.0-122*		*08/26/2023 17:49*	WG2120839

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	U		2.99	6.00	1	08/31/2023 21:13	WG2122633

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	51.7	B J	28.7	100	1	08/31/2023 06:47	WG2123398
(S) a,a,a-Trifluorotoluene(FID)	*99.7*			*50.0-150*		*08/31/2023 06:47*	WG2123398

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	08/27/2023 05:00	WG2121730
1,2,3-Trichloropropane	U		0.00200	0.00500	1	08/30/2023 16:26	WG2121198
Acrolein	U		2.54	50.0	1	08/27/2023 05:00	WG2121730
1,2-Dibromoethane	U		0.00410	0.00500	1	08/30/2023 16:26	WG2121198
Acrylonitrile	U		0.671	10.0	1	08/27/2023 05:00	WG2121730
Benzene	0.882	J	0.0941	1.00	1	08/27/2023 05:00	WG2121730
Bromobenzene	U		0.118	1.00	1	08/27/2023 05:00	WG2121730
Bromochloromethane	U		0.128	1.00	1	08/27/2023 05:00	WG2121730
Bromodichloromethane	U		0.136	1.00	1	08/27/2023 05:00	WG2121730
Bromoform	U		0.129	1.00	1	08/27/2023 05:00	WG2121730
Bromomethane	U	J4	0.605	5.00	1	08/27/2023 05:00	WG2121730
n-Butylbenzene	U		0.157	1.00	1	08/27/2023 05:00	WG2121730
sec-Butylbenzene	U		0.125	1.00	1	08/27/2023 05:00	WG2121730
tert-Butylbenzene	U		0.127	1.00	1	08/27/2023 05:00	WG2121730
Carbon disulfide	U		0.0962	1.00	1	08/27/2023 05:00	WG2121730
Carbon tetrachloride	U		0.128	1.00	1	08/27/2023 05:00	WG2121730
Chlorobenzene	U		0.116	1.00	1	08/27/2023 05:00	WG2121730
Chlorodibromomethane	U		0.140	1.00	1	08/27/2023 05:00	WG2121730
Chloroethane	U		0.192	5.00	1	08/27/2023 05:00	WG2121730
Chloroform	U		0.111	5.00	1	08/27/2023 05:00	WG2121730
Chloromethane	U		0.960	2.50	1	08/27/2023 05:00	WG2121730
2-Chlorotoluene	U		0.106	1.00	1	08/27/2023 05:00	WG2121730
4-Chlorotoluene	U		0.114	1.00	1	08/27/2023 05:00	WG2121730
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/27/2023 05:00	WG2121730
1,2-Dibromoethane	U		0.126	1.00	1	08/27/2023 05:00	WG2121730
Dibromomethane	U		0.122	1.00	1	08/27/2023 05:00	WG2121730
1,2-Dichlorobenzene	U		0.107	1.00	1	08/27/2023 05:00	WG2121730
1,3-Dichlorobenzene	U		0.110	1.00	1	08/27/2023 05:00	WG2121730
1,4-Dichlorobenzene	U		0.120	1.00	1	08/27/2023 05:00	WG2121730
Dichlorodifluoromethane	U		0.374	5.00	1	08/27/2023 05:00	WG2121730
1,1-Dichloroethane	U		0.100	1.00	1	08/27/2023 05:00	WG2121730
1,2-Dichloroethane	3.14		0.0819	1.00	1	08/27/2023 05:00	WG2121730
1,1-Dichloroethene	U		0.188	1.00	1	08/27/2023 05:00	WG2121730
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/27/2023 05:00	WG2121730
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/27/2023 05:00	WG2121730
1,2-Dichloropropane	U		0.149	1.00	1	08/27/2023 05:00	WG2121730
1,1-Dichloropropene	U		0.142	1.00	1	08/27/2023 05:00	WG2121730
1,3-Dichloropropane	U		0.110	1.00	1	08/27/2023 05:00	WG2121730
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/27/2023 05:00	WG2121730
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/27/2023 05:00	WG2121730
2,2-Dichloropropane	U		0.161	1.00	1	08/27/2023 05:00	WG2121730
Di-isopropyl ether	U		0.105	1.00	1	08/27/2023 05:00	WG2121730
Ethylbenzene	0.546	J	0.137	1.00	1	08/27/2023 05:00	WG2121730

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/27/2023 05:00	WG2121730
Isopropylbenzene	U		0.105	1.00	1	08/27/2023 05:00	WG2121730
p-Isopropyltoluene	U		0.120	1.00	1	08/27/2023 05:00	WG2121730
2-Butanone (MEK)	U		1.19	10.0	1	08/27/2023 05:00	WG2121730
Methylene Chloride	U	C3	0.430	5.00	1	08/27/2023 05:00	WG2121730
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/27/2023 05:00	WG2121730
Methyl tert-butyl ether	U		0.101	1.00	1	08/27/2023 05:00	WG2121730
Naphthalene	U		1.00	5.00	1	08/27/2023 05:00	WG2121730
n-Propylbenzene	U		0.0993	1.00	1	08/27/2023 05:00	WG2121730
Styrene	U		0.118	1.00	1	08/27/2023 05:00	WG2121730
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/27/2023 05:00	WG2121730
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/27/2023 05:00	WG2121730
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/27/2023 05:00	WG2121730
Tetrachloroethene	U		0.300	1.00	1	08/27/2023 05:00	WG2121730
Toluene	U		0.278	1.00	1	08/27/2023 05:00	WG2121730
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/27/2023 05:00	WG2121730
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/27/2023 05:00	WG2121730
1,1,1-Trichloroethane	U		0.149	1.00	1	08/27/2023 05:00	WG2121730
1,1,2-Trichloroethane	U		0.158	1.00	1	08/27/2023 05:00	WG2121730
Trichloroethene	U		0.190	1.00	1	08/27/2023 05:00	WG2121730
Trichlorofluoromethane	U		0.160	5.00	1	08/27/2023 05:00	WG2121730
1,2,3-Trichloropropane	U		0.237	2.50	1	08/27/2023 05:00	WG2121730
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/27/2023 05:00	WG2121730
1,2,3-Trimethylbenzene	U		0.104	1.00	1	08/27/2023 05:00	WG2121730
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/27/2023 05:00	WG2121730
Vinyl chloride	U		0.234	1.00	1	08/27/2023 05:00	WG2121730
Xylenes, Total	U		0.174	3.00	1	08/27/2023 05:00	WG2121730
o-Xylene	U		0.174	1.00	1	08/27/2023 05:00	WG2121730
m&p-Xylene	U		0.430	2.00	1	08/27/2023 05:00	WG2121730
(S) Toluene-d8	*102*			*80.0-120*		*08/27/2023 05:00*	WG2121730
(S) 4-Bromofluorobenzene	*96.2*			*77.0-126*		*08/27/2023 05:00*	WG2121730
(S) 1,2-Dichloroethane-d4	*96.1*			*70.0-130*		*08/27/2023 05:00*	WG2121730

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		170	800	1	09/01/2023 17:23	WG2122949
(S) o-Terphenyl	*91.4*			*50.0-150*		*09/01/2023 17:23*	WG2122949

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0190	0.0500	1	08/26/2023 18:09	WG2120839
Acenaphthene	U		0.0190	0.0500	1	08/26/2023 18:09	WG2120839
Acenaphthylene	U		0.0170	0.0500	1	08/26/2023 18:09	WG2120839
Benzo(a)anthracene	U		0.0200	0.0500	1	08/26/2023 18:09	WG2120839
Benzo(a)pyrene	U		0.0180	0.0500	1	08/26/2023 18:09	WG2120839
Benzo(b)fluoranthene	U		0.0170	0.0500	1	08/26/2023 18:09	WG2120839
Benzo(g,h,i)perylene	U		0.0180	0.0500	1	08/26/2023 18:09	WG2120839
Benzo(k)fluoranthene	U		0.0200	0.250	1	08/26/2023 18:09	WG2120839
Chrysene	U		0.0180	0.0500	1	08/26/2023 18:09	WG2120839
Dibenz(a,h)anthracene	U		0.0180	0.0500	1	08/26/2023 18:09	WG2120839
Fluoranthene	U		0.0110	0.0500	1	08/26/2023 18:09	WG2120839
Fluorene	U		0.0170	0.0500	1	08/26/2023 18:09	WG2120839
Indeno(1,2,3-cd)pyrene	U		0.0180	0.0500	1	08/26/2023 18:09	WG2120839

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Naphthalene	U		0.128	0.500	1	08/26/2023 18:09	WG2120839
Phenanthrene	U		0.0180	0.0500	1	08/26/2023 18:09	WG2120839
Pyrene	U		0.0170	0.0500	1	08/26/2023 18:09	WG2120839
1-Methylnaphthalene	U		0.0200	0.500	1	08/26/2023 18:09	WG2120839
2-Methylnaphthalene	U		0.0280	0.500	1	08/26/2023 18:09	WG2120839
2-Chloronaphthalene	U		0.0120	0.500	1	08/26/2023 18:09	WG2120839
(S) Nitrobenzene-d5	*41.4*			*11.0-135*		*08/26/2023 18:09*	WG2120839
(S) 2-Fluorobiphenyl	*49.5*			*32.0-120*		*08/26/2023 18:09*	WG2120839
(S) p-Terphenyl-d14	*53.0*			*23.0-122*		*08/26/2023 18:09*	WG2120839

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	U		2.99	6.00	1	08/31/2023 20:32	WG2122633

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	3350	J6	28.7	100	1	08/31/2023 07:09	WG2123398
(S) a,a,a-Trifluorotoluene(FID)	*98.8*			*50.0-150*		*08/31/2023 07:09*	WG2123398

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J5	11.3	50.0	1	08/27/2023 05:21	WG2121730
1,2,3-Trichloropropane	U		0.200	0.500	100	08/31/2023 13:31	WG2124571
Acrolein	U	J5	2.54	50.0	1	08/27/2023 05:21	WG2121730
1,2-Dibromoethane	U		0.410	0.500	100	08/31/2023 13:31	WG2124571
Acrylonitrile	U	J5	0.671	10.0	1	08/27/2023 05:21	WG2121730
Benzene	71.8	J3 V	0.0941	1.00	1	08/27/2023 05:21	WG2121730
Bromobenzene	U		0.118	1.00	1	08/27/2023 05:21	WG2121730
Bromochloromethane	U		0.128	1.00	1	08/27/2023 05:21	WG2121730
Bromodichloromethane	U		0.136	1.00	1	08/27/2023 05:21	WG2121730
Bromoform	U		0.129	1.00	1	08/27/2023 05:21	WG2121730
Bromomethane	U	J4	0.605	5.00	1	08/27/2023 05:21	WG2121730
n-Butylbenzene	U		0.157	1.00	1	08/27/2023 05:21	WG2121730
sec-Butylbenzene	0.153	J	0.125	1.00	1	08/27/2023 05:21	WG2121730
tert-Butylbenzene	U		0.127	1.00	1	08/27/2023 05:21	WG2121730
Carbon disulfide	U		0.0962	1.00	1	08/27/2023 05:21	WG2121730
Carbon tetrachloride	U		0.128	1.00	1	08/27/2023 05:21	WG2121730
Chlorobenzene	U		0.116	1.00	1	08/27/2023 05:21	WG2121730
Chlorodibromomethane	U		0.140	1.00	1	08/27/2023 05:21	WG2121730
Chloroethane	U		0.192	5.00	1	08/27/2023 05:21	WG2121730
Chloroform	U		0.111	5.00	1	08/27/2023 05:21	WG2121730
Chloromethane	U	J3 J5	0.960	2.50	1	08/27/2023 05:21	WG2121730
2-Chlorotoluene	U		0.106	1.00	1	08/27/2023 05:21	WG2121730
4-Chlorotoluene	U		0.114	1.00	1	08/27/2023 05:21	WG2121730
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/27/2023 05:21	WG2121730
1,2-Dibromoethane	U		0.126	1.00	1	08/27/2023 05:21	WG2121730
Dibromomethane	U		0.122	1.00	1	08/27/2023 05:21	WG2121730
1,2-Dichlorobenzene	U		0.107	1.00	1	08/27/2023 05:21	WG2121730
1,3-Dichlorobenzene	U		0.110	1.00	1	08/27/2023 05:21	WG2121730
1,4-Dichlorobenzene	U		0.120	1.00	1	08/27/2023 05:21	WG2121730
Dichlorodifluoromethane	U		0.374	5.00	1	08/27/2023 05:21	WG2121730
1,1-Dichloroethane	U	J3	0.100	1.00	1	08/27/2023 05:21	WG2121730
1,2-Dichloroethane	0.953	J	0.0819	1.00	1	08/27/2023 05:21	WG2121730
1,1-Dichloroethene	U		0.188	1.00	1	08/27/2023 05:21	WG2121730
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/27/2023 05:21	WG2121730
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/27/2023 05:21	WG2121730
1,2-Dichloropropane	U		0.149	1.00	1	08/27/2023 05:21	WG2121730
1,1-Dichloropropene	U		0.142	1.00	1	08/27/2023 05:21	WG2121730
1,3-Dichloropropane	U		0.110	1.00	1	08/27/2023 05:21	WG2121730
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/27/2023 05:21	WG2121730
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/27/2023 05:21	WG2121730
2,2-Dichloropropane	U		0.161	1.00	1	08/27/2023 05:21	WG2121730
Di-isopropyl ether	U		0.105	1.00	1	08/27/2023 05:21	WG2121730
Ethylbenzene	110	J3 V	0.137	1.00	1	08/27/2023 05:21	WG2121730

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/27/2023 05:21	WG2121730
Isopropylbenzene	3.73	J3 J5	0.105	1.00	1	08/27/2023 05:21	WG2121730
p-Isopropyltoluene	U		0.120	1.00	1	08/27/2023 05:21	WG2121730
2-Butanone (MEK)	U		1.19	10.0	1	08/27/2023 05:21	WG2121730
Methylene Chloride	U	C3	0.430	5.00	1	08/27/2023 05:21	WG2121730
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/27/2023 05:21	WG2121730
Methyl tert-butyl ether	U		0.101	1.00	1	08/27/2023 05:21	WG2121730
Naphthalene	2.89	J J5	1.00	5.00	1	08/27/2023 05:21	WG2121730
n-Propylbenzene	5.94	J3 J5	0.0993	1.00	1	08/27/2023 05:21	WG2121730
Styrene	U		0.118	1.00	1	08/27/2023 05:21	WG2121730
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/27/2023 05:21	WG2121730
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/27/2023 05:21	WG2121730
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/27/2023 05:21	WG2121730
Tetrachloroethene	U		0.300	1.00	1	08/27/2023 05:21	WG2121730
Toluene	14.9	J3 J5	0.278	1.00	1	08/27/2023 05:21	WG2121730
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/27/2023 05:21	WG2121730
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/27/2023 05:21	WG2121730
1,1,1-Trichloroethane	U		0.149	1.00	1	08/27/2023 05:21	WG2121730
1,1,2-Trichloroethane	U		0.158	1.00	1	08/27/2023 05:21	WG2121730
Trichloroethene	U		0.190	1.00	1	08/27/2023 05:21	WG2121730
Trichlorofluoromethane	U		0.160	5.00	1	08/27/2023 05:21	WG2121730
1,2,3-Trichloropropane	U		0.237	2.50	1	08/27/2023 05:21	WG2121730
1,2,4-Trimethylbenzene	49.8	J3 V	0.322	1.00	1	08/27/2023 05:21	WG2121730
1,2,3-Trimethylbenzene	5.49	J3 J5	0.104	1.00	1	08/27/2023 05:21	WG2121730
1,3,5-Trimethylbenzene	1.59	J3 J5	0.104	1.00	1	08/27/2023 05:21	WG2121730
Vinyl chloride	U		0.234	1.00	1	08/27/2023 05:21	WG2121730
Xylenes, Total	122	J3 V	0.174	3.00	1	08/27/2023 05:21	WG2121730
o-Xylene	12.9	J3 J5	0.174	1.00	1	08/27/2023 05:21	WG2121730
m&p-Xylene	109	J3 V	0.430	2.00	1	08/27/2023 05:21	WG2121730
(S) Toluene-d8	*99.4*			*80.0-120*		*08/27/2023 05:21*	WG2121730
(S) 4-Bromofluorobenzene	*93.7*			*77.0-126*		*08/27/2023 05:21*	WG2121730
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*		*08/27/2023 05:21*	WG2121730

Sample Narrative:

L1649472-08 WG2124571: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	260	J J6	170	800	1	09/01/2023 17:43	WG2122949
(S) o-Terphenyl	*79.3*			*50.0-150*		*09/01/2023 17:43*	WG2122949

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U	J3	0.0190	0.0500	1	08/26/2023 18:29	WG2120839
Acenaphthene	U	J3	0.0190	0.0500	1	08/26/2023 18:29	WG2120839
Acenaphthylene	U	J3	0.0170	0.0500	1	08/26/2023 18:29	WG2120839
Benzo(a)anthracene	U	J3	0.0200	0.0500	1	08/26/2023 18:29	WG2120839
Benzo(a)pyrene	U		0.0180	0.0500	1	08/26/2023 18:29	WG2120839
Benzo(b)fluoranthene	U		0.0170	0.0500	1	08/26/2023 18:29	WG2120839
Benzo(g,h,i)perylene	U		0.0180	0.0500	1	08/26/2023 18:29	WG2120839
Benzo(k)fluoranthene	U		0.0200	0.250	1	08/26/2023 18:29	WG2120839
Chrysene	U	J3	0.0180	0.0500	1	08/26/2023 18:29	WG2120839
Dibenz(a,h)anthracene	U		0.0180	0.0500	1	08/26/2023 18:29	WG2120839

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Fluoranthene	0.0121	J J3	0.0110	0.0500	1	08/26/2023 18:29	WG2120839
Fluorene	U	J3	0.0170	0.0500	1	08/26/2023 18:29	WG2120839
Indeno(1,2,3-cd)pyrene	U		0.0180	0.0500	1	08/26/2023 18:29	WG2120839
Naphthalene	4.23	J3 J6	0.128	0.500	1	08/26/2023 18:29	WG2120839
Phenanthrene	U	J3	0.0180	0.0500	1	08/26/2023 18:29	WG2120839
Pyrene	U	J3	0.0170	0.0500	1	08/26/2023 18:29	WG2120839
1-Methylnaphthalene	0.218	J J3	0.0200	0.500	1	08/26/2023 18:29	WG2120839
2-Methylnaphthalene	0.250	J J3	0.0280	0.500	1	08/26/2023 18:29	WG2120839
2-Chloronaphthalene	U	J3	0.0120	0.500	1	08/26/2023 18:29	WG2120839
(S) Nitrobenzene-d5	*47.5*			*11.0-135*		*08/26/2023 18:29*	WG2120839
(S) 2-Fluorobiphenyl	*56.5*			*32.0-120*		*08/26/2023 18:29*	WG2120839
(S) p-Terphenyl-d14	*59.0*			*23.0-122*		*08/26/2023 18:29*	WG2120839

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	280		2.99	6.00	1	08/31/2023 21:21	WG2122633

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPHGAK C6 to C10	98500		2870	10000	100	09/05/2023 13:50	WG2124595
(S) a,a,a-Trifluorotoluene(FID)	*95.4*			*50.0-150*		*09/05/2023 13:50*	WG2124595

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	494		11.3	50.0	1	08/27/2023 05:41	WG2121730
1,2,3-Trichloropropane	U		2.00	5.00	1000	08/30/2023 18:01	WG2121198
Acrolein	U		2.54	50.0	1	08/27/2023 05:41	WG2121730
1,2-Dibromoethane	260		4.10	5.00	1000	08/30/2023 18:01	WG2121198
Acrylonitrile	U		0.671	10.0	1	08/27/2023 05:41	WG2121730
Benzene	2990		47.1	500	500	08/31/2023 23:46	WG2124997
Bromobenzene	U		0.118	1.00	1	08/27/2023 05:41	WG2121730
Bromochloromethane	U		0.128	1.00	1	08/27/2023 05:41	WG2121730
Bromodichloromethane	U		0.136	1.00	1	08/27/2023 05:41	WG2121730
Bromoform	U		0.129	1.00	1	08/27/2023 05:41	WG2121730
Bromomethane	U	J4	0.605	5.00	1	08/27/2023 05:41	WG2121730
n-Butylbenzene	U		0.157	1.00	1	08/27/2023 05:41	WG2121730
sec-Butylbenzene	10.3		0.125	1.00	1	08/27/2023 05:41	WG2121730
tert-Butylbenzene	U		0.127	1.00	1	08/27/2023 05:41	WG2121730
Carbon disulfide	U		0.0962	1.00	1	08/27/2023 05:41	WG2121730
Carbon tetrachloride	U		0.128	1.00	1	08/27/2023 05:41	WG2121730
Chlorobenzene	U		0.116	1.00	1	08/27/2023 05:41	WG2121730
Chlorodibromomethane	U		0.140	1.00	1	08/27/2023 05:41	WG2121730
Chloroethane	U		0.192	5.00	1	08/27/2023 05:41	WG2121730
Chloroform	U		0.111	5.00	1	08/27/2023 05:41	WG2121730
Chloromethane	U		0.960	2.50	1	08/27/2023 05:41	WG2121730
2-Chlorotoluene	U		0.106	1.00	1	08/27/2023 05:41	WG2121730
4-Chlorotoluene	U		0.114	1.00	1	08/27/2023 05:41	WG2121730
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/27/2023 05:41	WG2121730
1,2-Dibromoethane	224	J	63.0	500	500	08/31/2023 23:46	WG2124997
Dibromomethane	U		0.122	1.00	1	08/27/2023 05:41	WG2121730
1,2-Dichlorobenzene	U		0.107	1.00	1	08/27/2023 05:41	WG2121730
1,3-Dichlorobenzene	U		0.110	1.00	1	08/27/2023 05:41	WG2121730
1,4-Dichlorobenzene	U		0.120	1.00	1	08/27/2023 05:41	WG2121730
Dichlorodifluoromethane	U		0.374	5.00	1	08/27/2023 05:41	WG2121730
1,1-Dichloroethane	U		0.100	1.00	1	08/27/2023 05:41	WG2121730
1,2-Dichloroethane	62.6		0.0819	1.00	1	08/27/2023 05:41	WG2121730
1,1-Dichloroethene	U		0.188	1.00	1	08/27/2023 05:41	WG2121730
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/27/2023 05:41	WG2121730
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/27/2023 05:41	WG2121730
1,2-Dichloropropane	2.94		0.149	1.00	1	08/27/2023 05:41	WG2121730
1,1-Dichloropropene	U		0.142	1.00	1	08/27/2023 05:41	WG2121730
1,3-Dichloropropane	U		0.110	1.00	1	08/27/2023 05:41	WG2121730
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/27/2023 05:41	WG2121730
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/27/2023 05:41	WG2121730
2,2-Dichloropropane	U		0.161	1.00	1	08/27/2023 05:41	WG2121730
Di-isopropyl ether	U		0.105	1.00	1	08/27/2023 05:41	WG2121730
Ethylbenzene	3420		68.5	500	500	08/31/2023 23:46	WG2124997

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/27/2023 05:41	WG2121730
Isopropylbenzene	127		0.105	1.00	1	08/27/2023 05:41	WG2121730
p-Isopropyltoluene	5.48		0.120	1.00	1	08/27/2023 05:41	WG2121730
2-Butanone (MEK)	147		1.19	10.0	1	08/27/2023 05:41	WG2121730
Methylene Chloride	U	C3	0.430	5.00	1	08/27/2023 05:41	WG2121730
4-Methyl-2-pentanone (MIBK)	62.6		0.478	10.0	1	08/27/2023 05:41	WG2121730
Methyl tert-butyl ether	U		0.101	1.00	1	08/27/2023 05:41	WG2121730
Naphthalene	189		1.00	5.00	1	08/27/2023 05:41	WG2121730
n-Propylbenzene	222	J	49.7	500	500	08/31/2023 23:46	WG2124997
Styrene	U		0.118	1.00	1	08/27/2023 05:41	WG2121730
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/27/2023 05:41	WG2121730
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/27/2023 05:41	WG2121730
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/27/2023 05:41	WG2121730
Tetrachloroethene	U		0.300	1.00	1	08/27/2023 05:41	WG2121730
Toluene	28200		139	500	500	08/31/2023 23:46	WG2124997
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/27/2023 05:41	WG2121730
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/27/2023 05:41	WG2121730
1,1,1-Trichloroethane	U		0.149	1.00	1	08/27/2023 05:41	WG2121730
1,1,2-Trichloroethane	U		0.158	1.00	1	08/27/2023 05:41	WG2121730
Trichloroethene	0.486	J	0.190	1.00	1	08/27/2023 05:41	WG2121730
Trichlorofluoromethane	U		0.160	5.00	1	08/27/2023 05:41	WG2121730
1,2,3-Trichloropropane	U		0.237	2.50	1	08/27/2023 05:41	WG2121730
1,2,4-Trimethylbenzene	2090		161	500	500	08/31/2023 23:46	WG2124997
1,2,3-Trimethylbenzene	580		52.0	500	500	08/31/2023 23:46	WG2124997
1,3,5-Trimethylbenzene	597		52.0	500	500	08/31/2023 23:46	WG2124997
Vinyl chloride	U		0.234	1.00	1	08/27/2023 05:41	WG2121730
Xylenes, Total	22000		87.0	1500	500	08/31/2023 23:46	WG2124997
o-Xylene	6940		87.0	500	500	08/31/2023 23:46	WG2124997
m&p-Xylene	15100		215	1000	500	08/31/2023 23:46	WG2124997
(S) Toluene-d8	*66.3*	J2		*80.0-120*		*08/27/2023 05:41*	WG2121730
(S) Toluene-d8	*110*			*80.0-120*		*08/31/2023 23:46*	WG2124997
(S) 4-Bromofluorobenzene	*125*			*77.0-126*		*08/27/2023 05:41*	WG2121730
(S) 4-Bromofluorobenzene	*116*			*77.0-126*		*08/31/2023 23:46*	WG2124997
(S) 1,2-Dichloroethane-d4	*125*			*70.0-130*		*08/27/2023 05:41*	WG2121730
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*08/31/2023 23:46*	WG2124997

Sample Narrative:

L1649472-09 WG2121198: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	23700		170	800	1	09/01/2023 18:46	WG2122949
(S) o-Terphenyl	*49.2*	J2		*50.0-150*		*09/01/2023 18:46*	WG2122949

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0190	0.0500	1	08/26/2023 19:28	WG2120839
Acenaphthene	1.06		0.190	0.500	10	08/30/2023 18:04	WG2120839
Acenaphthylene	U		0.170	0.500	10	08/30/2023 18:04	WG2120839
Benzo(a)anthracene	U		0.0200	0.0500	1	08/26/2023 19:28	WG2120839
Benzo(a)pyrene	U		0.0180	0.0500	1	08/26/2023 19:28	WG2120839
Benzo(b)fluoranthene	U		0.0170	0.0500	1	08/26/2023 19:28	WG2120839
Benzo(g,h,i)perylene	U		0.0180	0.0500	1	08/26/2023 19:28	WG2120839

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzo(k)fluoranthene	U		0.0200	0.250	1	08/26/2023 19:28	WG2120839
Chrysene	U		0.0180	0.0500	1	08/26/2023 19:28	WG2120839
Dibenz(a,h)anthracene	U		0.0180	0.0500	1	08/26/2023 19:28	WG2120839
Fluoranthene	0.0314	J	0.0110	0.0500	1	08/26/2023 19:28	WG2120839
Fluorene	0.187	J	0.170	0.500	10	08/30/2023 18:04	WG2120839
Indeno(1,2,3-cd)pyrene	U		0.0180	0.0500	1	08/26/2023 19:28	WG2120839
Naphthalene	241		1.28	5.00	10	08/30/2023 18:04	WG2120839
Phenanthrene	0.0654		0.0180	0.0500	1	08/26/2023 19:28	WG2120839
Pyrene	0.0245	J	0.0170	0.0500	1	08/26/2023 19:28	WG2120839
1-Methylnaphthalene	17.7		0.0200	0.500	1	08/26/2023 19:28	WG2120839
2-Methylnaphthalene	32.8		0.0280	0.500	1	08/26/2023 19:28	WG2120839
2-Chloronaphthalene	0.394	J	0.120	5.00	10	08/30/2023 18:04	WG2120839
(S) Nitrobenzene-d5	*102*			*11.0-135*		*08/26/2023 19:28*	WG2120839
(S) Nitrobenzene-d5	*0.000*	J2		*11.0-135*		*08/30/2023 18:04*	WG2120839
(S) 2-Fluorobiphenyl	*27.2*	J2		*32.0-120*		*08/26/2023 19:28*	WG2120839
(S) 2-Fluorobiphenyl	*72.0*			*32.0-120*		*08/30/2023 18:04*	WG2120839
(S) p-Terphenyl-d14	*37.6*			*23.0-122*		*08/26/2023 19:28*	WG2120839
(S) p-Terphenyl-d14	*64.0*			*23.0-122*		*08/30/2023 18:04*	WG2120839

Sample Narrative:

L1649472-09 WG2120839: Surrogate failure due to matrix interference.

L1649472-09 WG2120839: IS/SURR failed on lower dilution.

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	27.7		2.99	6.00	1	08/31/2023 21:23	WG2122633

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	7730		28.7	100	1	09/05/2023 13:05	WG2124595
(S) a,a,a-Trifluorotoluene(FID)	*101*			*50.0-150*		*09/05/2023 13:05*	WG2124595

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1130	5000	100	09/01/2023 00:07	WG2124997
1,2,3-Trichloropropane	U		2.00	5.00	1000	08/31/2023 13:54	WG2124571
Acrolein	U	C3	254	5000	100	09/01/2023 00:07	WG2124997
1,2-Dibromoethane	19.0		4.10	5.00	1000	08/31/2023 13:54	WG2124571
Acrylonitrile	U		67.1	1000	100	09/01/2023 00:07	WG2124997
Benzene	87.5	J	9.41	100	100	09/01/2023 00:07	WG2124997
Bromobenzene	U		11.8	100	100	09/01/2023 00:07	WG2124997
Bromochloromethane	U		12.8	100	100	09/01/2023 00:07	WG2124997
Bromodichloromethane	U		13.6	100	100	09/01/2023 00:07	WG2124997
Bromoform	U		12.9	100	100	09/01/2023 00:07	WG2124997
Bromomethane	U	C3	60.5	500	100	09/01/2023 00:07	WG2124997
n-Butylbenzene	U		15.7	100	100	09/01/2023 00:07	WG2124997
sec-Butylbenzene	U		12.5	100	100	09/01/2023 00:07	WG2124997
tert-Butylbenzene	U		12.7	100	100	09/01/2023 00:07	WG2124997
Carbon disulfide	U		9.62	100	100	09/01/2023 00:07	WG2124997
Carbon tetrachloride	U		12.8	100	100	09/01/2023 00:07	WG2124997
Chlorobenzene	U		11.6	100	100	09/01/2023 00:07	WG2124997
Chlorodibromomethane	U		14.0	100	100	09/01/2023 00:07	WG2124997
Chloroethane	U		19.2	500	100	09/01/2023 00:07	WG2124997
Chloroform	U		11.1	500	100	09/01/2023 00:07	WG2124997
Chloromethane	U		96.0	250	100	09/01/2023 00:07	WG2124997
2-Chlorotoluene	U		10.6	100	100	09/01/2023 00:07	WG2124997
4-Chlorotoluene	U		11.4	100	100	09/01/2023 00:07	WG2124997
1,2-Dibromo-3-Chloropropane	U		27.6	500	100	09/01/2023 00:07	WG2124997
1,2-Dibromoethane	U		12.6	100	100	09/01/2023 00:07	WG2124997
Dibromomethane	U		12.2	100	100	09/01/2023 00:07	WG2124997
1,2-Dichlorobenzene	U		10.7	100	100	09/01/2023 00:07	WG2124997
1,3-Dichlorobenzene	U		11.0	100	100	09/01/2023 00:07	WG2124997
1,4-Dichlorobenzene	U		12.0	100	100	09/01/2023 00:07	WG2124997
Dichlorodifluoromethane	U		37.4	500	100	09/01/2023 00:07	WG2124997
1,1-Dichloroethane	U		10.0	100	100	09/01/2023 00:07	WG2124997
1,2-Dichloroethane	U		8.19	100	100	09/01/2023 00:07	WG2124997
1,1-Dichloroethene	U		18.8	100	100	09/01/2023 00:07	WG2124997
cis-1,2-Dichloroethene	U		12.6	100	100	09/01/2023 00:07	WG2124997
trans-1,2-Dichloroethene	U		14.9	100	100	09/01/2023 00:07	WG2124997
1,2-Dichloropropane	U		14.9	100	100	09/01/2023 00:07	WG2124997
1,1-Dichloropropene	U		14.2	100	100	09/01/2023 00:07	WG2124997
1,3-Dichloropropane	U		11.0	100	100	09/01/2023 00:07	WG2124997
cis-1,3-Dichloropropene	U		11.1	100	100	09/01/2023 00:07	WG2124997
trans-1,3-Dichloropropene	U		11.8	100	100	09/01/2023 00:07	WG2124997
2,2-Dichloropropane	U		16.1	100	100	09/01/2023 00:07	WG2124997
Di-isopropyl ether	U		10.5	100	100	09/01/2023 00:07	WG2124997
Ethylbenzene	54.7	J	13.7	100	100	09/01/2023 00:07	WG2124997

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	U		33.7	100	100	09/01/2023 00:07	WG2124997
Isopropylbenzene	12.9	J	10.5	100	100	09/01/2023 00:07	WG2124997
p-Isopropyltoluene	51.1	J	12.0	100	100	09/01/2023 00:07	WG2124997
2-Butanone (MEK)	U		119	1000	100	09/01/2023 00:07	WG2124997
Methylene Chloride	U		43.0	500	100	09/01/2023 00:07	WG2124997
4-Methyl-2-pentanone (MIBK)	U		47.8	1000	100	09/01/2023 00:07	WG2124997
Methyl tert-butyl ether	U		10.1	100	100	09/01/2023 00:07	WG2124997
Naphthalene	U		100	500	100	09/01/2023 00:07	WG2124997
n-Propylbenzene	13.0	J	9.93	100	100	09/01/2023 00:07	WG2124997
Styrene	U		11.8	100	100	09/01/2023 00:07	WG2124997
1,1,1,2-Tetrachloroethane	U		14.7	100	100	09/01/2023 00:07	WG2124997
1,1,2,2-Tetrachloroethane	U		13.3	100	100	09/01/2023 00:07	WG2124997
1,1,2-Trichlorotrifluoroethane	U		18.0	100	100	09/01/2023 00:07	WG2124997
Tetrachloroethene	U		30.0	100	100	09/01/2023 00:07	WG2124997
Toluene	152		27.8	100	100	09/01/2023 00:07	WG2124997
1,2,3-Trichlorobenzene	U		23.0	100	100	09/01/2023 00:07	WG2124997
1,2,4-Trichlorobenzene	U		48.1	100	100	09/01/2023 00:07	WG2124997
1,1,1-Trichloroethane	U		14.9	100	100	09/01/2023 00:07	WG2124997
1,1,2-Trichloroethane	U		15.8	100	100	09/01/2023 00:07	WG2124997
Trichloroethene	U		19.0	100	100	09/01/2023 00:07	WG2124997
Trichlorofluoromethane	U		16.0	500	100	09/01/2023 00:07	WG2124997
1,2,3-Trichloropropane	U		23.7	250	100	09/01/2023 00:07	WG2124997
1,2,4-Trimethylbenzene	1810		32.2	100	100	09/01/2023 00:07	WG2124997
1,2,3-Trimethylbenzene	516		10.4	100	100	09/01/2023 00:07	WG2124997
1,3,5-Trimethylbenzene	554		10.4	100	100	09/01/2023 00:07	WG2124997
Vinyl chloride	U		23.4	100	100	09/01/2023 00:07	WG2124997
Xylenes, Total	5870		17.4	300	100	09/01/2023 00:07	WG2124997
o-Xylene	1990		17.4	100	100	09/01/2023 00:07	WG2124997
m&p-Xylene	3880		43.0	200	100	09/01/2023 00:07	WG2124997
(S) Toluene-d8	*112*			*80.0-120*		*09/01/2023 00:07*	WG2124997
(S) 4-Bromofluorobenzene	*116*			*77.0-126*		*09/01/2023 00:07*	WG2124997
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*09/01/2023 00:07*	WG2124997

Sample Narrative:

L1649472-10 WG2124997, WG2124571: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	3050		170	800	1	09/02/2023 10:08	WG2122949
(S) o-Terphenyl	*85.9*			*50.0-150*		*09/02/2023 10:08*	WG2122949

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0190	0.0500	1	08/26/2023 19:48	WG2120839
Acenaphthene	0.0983		0.0190	0.0500	1	08/26/2023 19:48	WG2120839
Acenaphthylene	U		0.0170	0.0500	1	08/26/2023 19:48	WG2120839
Benzo(a)anthracene	0.0408	J	0.0200	0.0500	1	08/26/2023 19:48	WG2120839
Benzo(a)pyrene	U		0.0180	0.0500	1	08/26/2023 19:48	WG2120839
Benzo(b)fluoranthene	0.0237	J	0.0170	0.0500	1	08/26/2023 19:48	WG2120839
Benzo(g,h,i)perylene	U		0.0180	0.0500	1	08/26/2023 19:48	WG2120839
Benzo(k)fluoranthene	U		0.0200	0.250	1	08/26/2023 19:48	WG2120839
Chrysene	0.0391	J	0.0180	0.0500	1	08/26/2023 19:48	WG2120839
Dibenz(a,h)anthracene	U		0.0180	0.0500	1	08/26/2023 19:48	WG2120839

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Fluoranthene	0.0980		0.0110	0.0500	1	08/26/2023 19:48	WG2120839
Fluorene	0.0638		0.0170	0.0500	1	08/26/2023 19:48	WG2120839
Indeno(1,2,3-cd)pyrene	U		0.0180	0.0500	1	08/26/2023 19:48	WG2120839
Naphthalene	19.2		0.128	0.500	1	08/26/2023 19:48	WG2120839
Phenanthrene	0.0857		0.0180	0.0500	1	08/26/2023 19:48	WG2120839
Pyrene	0.107		0.0170	0.0500	1	08/26/2023 19:48	WG2120839
1-Methylnaphthalene	6.65		0.0200	0.500	1	08/26/2023 19:48	WG2120839
2-Methylnaphthalene	7.53		0.0280	0.500	1	08/26/2023 19:48	WG2120839
2-Chloronaphthalene	U		0.0120	0.500	1	08/26/2023 19:48	WG2120839
(S) Nitrobenzene-d5	*56.0*			*11.0-135*		*08/26/2023 19:48*	WG2120839
(S) 2-Fluorobiphenyl	*53.0*			*32.0-120*		*08/26/2023 19:48*	WG2120839
(S) p-Terphenyl-d14	*47.3*			*23.0-122*		*08/26/2023 19:48*	WG2120839

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	30.2		2.99	6.00	1	08/31/2023 21:26	WG2122633

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	10200		2870	10000	100	09/05/2023 14:13	WG2124595
TPHGAK C6 to C10	7000	Q	287	1000	10	09/07/2023 03:11	WG2127486
(S) a,a,a-Trifluorotoluene(FID)	*92.4*			*50.0-150*		*09/05/2023 14:13*	WG2124595
(S) a,a,a-Trifluorotoluene(FID)	*96.5*			*50.0-150*		*09/07/2023 03:11*	WG2127486

Sample Narrative:

L1649472-11 WG2124595: In hold result biased high due to carryover. Reporting out of hold without carryover as well.

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		226	1000	20	08/27/2023 17:52	WG2121884
1,2,3-Trichloropropane	U		2.00	5.00	1000	08/31/2023 14:18	WG2124571
Acrolein	U	C3	50.8	1000	20	08/27/2023 17:52	WG2121884
1,2-Dibromoethane	11.0		4.10	5.00	1000	08/31/2023 14:18	WG2124571
Acrylonitrile	U		13.4	200	20	08/27/2023 17:52	WG2121884
Benzene	44.6		1.88	20.0	20	08/27/2023 17:52	WG2121884
Bromobenzene	U		2.36	20.0	20	08/27/2023 17:52	WG2121884
Bromochloromethane	U		2.56	20.0	20	08/27/2023 17:52	WG2121884
Bromodichloromethane	U		2.72	20.0	20	08/27/2023 17:52	WG2121884
Bromoform	U		2.58	20.0	20	08/27/2023 17:52	WG2121884
Bromomethane	U	C3	12.1	100	20	08/27/2023 17:52	WG2121884
n-Butylbenzene	U		3.14	20.0	20	08/27/2023 17:52	WG2121884
sec-Butylbenzene	4.90	J	2.50	20.0	20	08/27/2023 17:52	WG2121884
tert-Butylbenzene	U		2.54	20.0	20	08/27/2023 17:52	WG2121884
Carbon disulfide	U		1.92	20.0	20	08/27/2023 17:52	WG2121884
Carbon tetrachloride	U		2.56	20.0	20	08/27/2023 17:52	WG2121884
Chlorobenzene	U		2.32	20.0	20	08/27/2023 17:52	WG2121884
Chlorodibromomethane	U		2.80	20.0	20	08/27/2023 17:52	WG2121884
Chloroethane	U		3.84	100	20	08/27/2023 17:52	WG2121884
Chloroform	U		2.22	100	20	08/27/2023 17:52	WG2121884
Chloromethane	U		19.2	50.0	20	08/27/2023 17:52	WG2121884
2-Chlorotoluene	U		2.12	20.0	20	08/27/2023 17:52	WG2121884
4-Chlorotoluene	U		2.28	20.0	20	08/27/2023 17:52	WG2121884
1,2-Dibromo-3-Chloropropane	U		5.52	100	20	08/27/2023 17:52	WG2121884
1,2-Dibromoethane	9.38	J	2.52	20.0	20	08/27/2023 17:52	WG2121884
Dibromomethane	U		2.44	20.0	20	08/27/2023 17:52	WG2121884
1,2-Dichlorobenzene	U		2.14	20.0	20	08/27/2023 17:52	WG2121884
1,3-Dichlorobenzene	U		2.20	20.0	20	08/27/2023 17:52	WG2121884
1,4-Dichlorobenzene	U		2.40	20.0	20	08/27/2023 17:52	WG2121884
Dichlorodifluoromethane	U		7.48	100	20	08/27/2023 17:52	WG2121884
1,1-Dichloroethane	U		2.00	20.0	20	08/27/2023 17:52	WG2121884
1,2-Dichloroethane	9.94	J	1.64	20.0	20	08/27/2023 17:52	WG2121884
1,1-Dichloroethene	U		3.76	20.0	20	08/27/2023 17:52	WG2121884
cis-1,2-Dichloroethene	U		2.52	20.0	20	08/27/2023 17:52	WG2121884
trans-1,2-Dichloroethene	U		2.98	20.0	20	08/27/2023 17:52	WG2121884
1,2-Dichloropropane	U		2.98	20.0	20	08/27/2023 17:52	WG2121884
1,1-Dichloropropene	U		2.84	20.0	20	08/27/2023 17:52	WG2121884
1,3-Dichloropropane	U		2.20	20.0	20	08/27/2023 17:52	WG2121884

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
cis-1,3-Dichloropropene	U		2.22	20.0	20	08/27/2023 17:52	WG2121884
trans-1,3-Dichloropropene	U		2.36	20.0	20	08/27/2023 17:52	WG2121884
2,2-Dichloropropane	U	C3 J4	3.22	20.0	20	08/27/2023 17:52	WG2121884
Di-isopropyl ether	U		2.10	20.0	20	08/27/2023 17:52	WG2121884
Ethylbenzene	39.2		2.74	20.0	20	08/27/2023 17:52	WG2121884
Hexachloro-1,3-butadiene	U		6.74	20.0	20	08/27/2023 17:52	WG2121884
Isopropylbenzene	8.64	J	2.10	20.0	20	08/27/2023 17:52	WG2121884
p-Isopropyltoluene	4.27	J	2.40	20.0	20	08/27/2023 17:52	WG2121884
2-Butanone (MEK)	U		23.8	200	20	08/27/2023 17:52	WG2121884
Methylene Chloride	U		8.60	100	20	08/27/2023 17:52	WG2121884
4-Methyl-2-pentanone (MIBK)	U		9.56	200	20	08/27/2023 17:52	WG2121884
Methyl tert-butyl ether	U		2.02	20.0	20	08/27/2023 17:52	WG2121884
Naphthalene	40.2	J	20.0	100	20	08/27/2023 17:52	WG2121884
n-Propylbenzene	9.15	J	1.99	20.0	20	08/27/2023 17:52	WG2121884
Styrene	U		2.36	20.0	20	08/27/2023 17:52	WG2121884
1,1,1,2-Tetrachloroethane	U		2.94	20.0	20	08/27/2023 17:52	WG2121884
1,1,2,2-Tetrachloroethane	U	C3 J4	2.66	20.0	20	08/27/2023 17:52	WG2121884
1,1,2-Trichlorotrifluoroethane	U		3.60	20.0	20	08/27/2023 17:52	WG2121884
Tetrachloroethene	U		6.00	20.0	20	08/27/2023 17:52	WG2121884
Toluene	86.8		5.56	20.0	20	08/27/2023 17:52	WG2121884
1,2,3-Trichlorobenzene	U		4.60	20.0	20	08/27/2023 17:52	WG2121884
1,2,4-Trichlorobenzene	U		9.62	20.0	20	08/27/2023 17:52	WG2121884
1,1,1-Trichloroethane	U		2.98	20.0	20	08/27/2023 17:52	WG2121884
1,1,2-Trichloroethane	U		3.16	20.0	20	08/27/2023 17:52	WG2121884
Trichloroethene	U		9.50	50.0	50	08/31/2023 17:28	WG2124091
Trichlorofluoromethane	U		3.20	100	20	08/27/2023 17:52	WG2121884
1,2,3-Trichloropropane	U		4.74	50.0	20	08/27/2023 17:52	WG2121884
1,2,4-Trimethylbenzene	1100		6.44	20.0	20	08/27/2023 17:52	WG2121884
1,2,3-Trimethylbenzene	322		2.08	20.0	20	08/27/2023 17:52	WG2121884
1,3,5-Trimethylbenzene	315		2.08	20.0	20	08/27/2023 17:52	WG2121884
Vinyl chloride	U		4.68	20.0	20	08/27/2023 17:52	WG2121884
Xylenes, Total	3760		3.48	60.0	20	08/27/2023 17:52	WG2121884
o-Xylene	1270		3.48	20.0	20	08/27/2023 17:52	WG2121884
m&p-Xylene	2490		8.60	40.0	20	08/27/2023 17:52	WG2121884
(S) Toluene-d8	*109*			*80.0-120*		*08/27/2023 17:52*	WG2121884
(S) Toluene-d8	*114*			*80.0-120*		*08/31/2023 17:28*	WG2124091
(S) 4-Bromofluorobenzene	*98.5*			*77.0-126*		*08/27/2023 17:52*	WG2121884
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*08/31/2023 17:28*	WG2124091
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*08/27/2023 17:52*	WG2121884
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*08/31/2023 17:28*	WG2124091

Sample Narrative:

L1649472-11 WG2124571: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	4060		170	800	1	09/01/2023 19:27	WG2122949
(S) o-Terphenyl	*92.5*			*50.0-150*		*09/01/2023 19:27*	WG2122949

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Anthracene	U		0.0190	0.0500	1	08/26/2023 20:08	WG2120839
Acenaphthene	0.142		0.0190	0.0500	1	08/26/2023 20:08	WG2120839
Acenaphthylene	U		0.0170	0.0500	1	08/26/2023 20:08	WG2120839
Benzo(a)anthracene	0.0292	J	0.0200	0.0500	1	08/26/2023 20:08	WG2120839
Benzo(a)pyrene	U		0.0180	0.0500	1	08/26/2023 20:08	WG2120839
Benzo(b)fluoranthene	U		0.0170	0.0500	1	08/26/2023 20:08	WG2120839
Benzo(g,h,i)perylene	U		0.0180	0.0500	1	08/26/2023 20:08	WG2120839
Benzo(k)fluoranthene	U		0.0200	0.250	1	08/26/2023 20:08	WG2120839
Chrysene	0.0281	J	0.0180	0.0500	1	08/26/2023 20:08	WG2120839
Dibenz(a,h)anthracene	U		0.0180	0.0500	1	08/26/2023 20:08	WG2120839
Fluoranthene	0.0783		0.0110	0.0500	1	08/26/2023 20:08	WG2120839
Fluorene	0.0979		0.0170	0.0500	1	08/26/2023 20:08	WG2120839
Indeno(1,2,3-cd)pyrene	U		0.0180	0.0500	1	08/26/2023 20:08	WG2120839
Naphthalene	26.7		0.128	0.500	1	08/26/2023 20:08	WG2120839
Phenanthrene	0.0862		0.0180	0.0500	1	08/26/2023 20:08	WG2120839
Pyrene	0.101		0.0170	0.0500	1	08/26/2023 20:08	WG2120839
1-Methylnaphthalene	9.88		0.0200	0.500	1	08/26/2023 20:08	WG2120839
2-Methylnaphthalene	11.8		0.0280	0.500	1	08/26/2023 20:08	WG2120839
2-Chloronaphthalene	U		0.0120	0.500	1	08/26/2023 20:08	WG2120839
(S) Nitrobenzene-d5	*44.0*			*11.0-135*		*08/26/2023 20:08*	WG2120839
(S) 2-Fluorobiphenyl	*43.5*			*32.0-120*		*08/26/2023 20:08*	WG2120839
(S) p-Terphenyl-d14	*34.0*			*23.0-122*		*08/26/2023 20:08*	WG2120839

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.99	6.00	1	08/31/2023 21:29	WG2122633

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPHGAK C6 to C10	53.9	B J	28.7	100	1	08/31/2023 04:32	WG2123398
(S) a,a,a-Trifluorotoluene(FID)	*98.3*			*50.0-150*		*08/31/2023 04:32*	WG2123398

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	08/27/2023 13:24	WG2121884
1,2,3-Trichloropropane	U		0.00200	0.00500	1	08/30/2023 16:50	WG2121198
Acrolein	U	C3	2.54	50.0	1	08/27/2023 13:24	WG2121884
1,2-Dibromoethane	U		0.00410	0.00500	1	08/30/2023 16:50	WG2121198
Acrylonitrile	U		0.671	10.0	1	08/27/2023 13:24	WG2121884
Benzene	U		0.0941	1.00	1	08/27/2023 13:24	WG2121884
Bromobenzene	U		0.118	1.00	1	08/27/2023 13:24	WG2121884
Bromochloromethane	U		0.128	1.00	1	08/27/2023 13:24	WG2121884
Bromodichloromethane	U		0.136	1.00	1	08/27/2023 13:24	WG2121884
Bromoform	U		0.129	1.00	1	08/27/2023 13:24	WG2121884
Bromomethane	U	C3	0.605	5.00	1	08/27/2023 13:24	WG2121884
n-Butylbenzene	U		0.157	1.00	1	08/27/2023 13:24	WG2121884
sec-Butylbenzene	U		0.125	1.00	1	08/27/2023 13:24	WG2121884
tert-Butylbenzene	U		0.127	1.00	1	08/27/2023 13:24	WG2121884
Carbon disulfide	U		0.0962	1.00	1	08/27/2023 13:24	WG2121884
Carbon tetrachloride	U		0.128	1.00	1	08/27/2023 13:24	WG2121884
Chlorobenzene	U		0.116	1.00	1	08/27/2023 13:24	WG2121884
Chlorodibromomethane	U		0.140	1.00	1	08/27/2023 13:24	WG2121884
Chloroethane	U		0.192	5.00	1	08/27/2023 13:24	WG2121884
Chloroform	1.81	J	0.111	5.00	1	08/27/2023 13:24	WG2121884
Chloromethane	U		0.960	2.50	1	08/27/2023 13:24	WG2121884
2-Chlorotoluene	U		0.106	1.00	1	08/27/2023 13:24	WG2121884
4-Chlorotoluene	U		0.114	1.00	1	08/27/2023 13:24	WG2121884
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/27/2023 13:24	WG2121884
1,2-Dibromoethane	U		0.126	1.00	1	08/27/2023 13:24	WG2121884
Dibromomethane	U		0.122	1.00	1	08/27/2023 13:24	WG2121884
1,2-Dichlorobenzene	U		0.107	1.00	1	08/27/2023 13:24	WG2121884
1,3-Dichlorobenzene	U		0.110	1.00	1	08/27/2023 13:24	WG2121884
1,4-Dichlorobenzene	U		0.120	1.00	1	08/27/2023 13:24	WG2121884
Dichlorodifluoromethane	U		0.374	5.00	1	08/27/2023 13:24	WG2121884
1,1-Dichloroethane	U		0.100	1.00	1	08/27/2023 13:24	WG2121884
1,2-Dichloroethane	U		0.0819	1.00	1	08/27/2023 13:24	WG2121884
1,1-Dichloroethene	U		0.188	1.00	1	08/27/2023 13:24	WG2121884
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/27/2023 13:24	WG2121884
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/27/2023 13:24	WG2121884
1,2-Dichloropropane	U		0.149	1.00	1	08/27/2023 13:24	WG2121884
1,1-Dichloropropene	U		0.142	1.00	1	08/27/2023 13:24	WG2121884
1,3-Dichloropropane	U		0.110	1.00	1	08/27/2023 13:24	WG2121884
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/27/2023 13:24	WG2121884
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/27/2023 13:24	WG2121884
2,2-Dichloropropane	U	C3 J4	0.161	1.00	1	08/27/2023 13:24	WG2121884
Di-isopropyl ether	U		0.105	1.00	1	08/27/2023 13:24	WG2121884
Ethylbenzene	U		0.137	1.00	1	08/27/2023 13:24	WG2121884

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/27/2023 13:24	WG2121884
Isopropylbenzene	U		0.105	1.00	1	08/27/2023 13:24	WG2121884
p-Isopropyltoluene	U		0.120	1.00	1	08/27/2023 13:24	WG2121884
2-Butanone (MEK)	U		1.19	10.0	1	08/27/2023 13:24	WG2121884
Methylene Chloride	U		0.430	5.00	1	08/27/2023 13:24	WG2121884
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/27/2023 13:24	WG2121884
Methyl tert-butyl ether	U		0.101	1.00	1	08/27/2023 13:24	WG2121884
Naphthalene	U		1.00	5.00	1	08/27/2023 13:24	WG2121884
n-Propylbenzene	U		0.0993	1.00	1	08/27/2023 13:24	WG2121884
Styrene	U		0.118	1.00	1	08/27/2023 13:24	WG2121884
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/27/2023 13:24	WG2121884
1,1,2,2-Tetrachloroethane	U	C3 J4	0.133	1.00	1	08/27/2023 13:24	WG2121884
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/27/2023 13:24	WG2121884
Tetrachloroethene	U		0.300	1.00	1	08/27/2023 13:24	WG2121884
Toluene	U		0.278	1.00	1	08/27/2023 13:24	WG2121884
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/27/2023 13:24	WG2121884
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/27/2023 13:24	WG2121884
1,1,1-Trichloroethane	U		0.149	1.00	1	08/27/2023 13:24	WG2121884
1,1,2-Trichloroethane	U		0.158	1.00	1	08/27/2023 13:24	WG2121884
Trichloroethene	U	J4	0.190	1.00	1	08/27/2023 13:24	WG2121884
Trichlorofluoromethane	U		0.160	5.00	1	08/27/2023 13:24	WG2121884
1,2,3-Trichloropropane	U		0.237	2.50	1	08/27/2023 13:24	WG2121884
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/27/2023 13:24	WG2121884
1,2,3-Trimethylbenzene	U		0.104	1.00	1	08/27/2023 13:24	WG2121884
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/27/2023 13:24	WG2121884
Vinyl chloride	U		0.234	1.00	1	08/27/2023 13:24	WG2121884
Xylenes, Total	U		0.174	3.00	1	08/27/2023 13:24	WG2121884
o-Xylene	U		0.174	1.00	1	08/27/2023 13:24	WG2121884
m&p-Xylene	U		0.430	2.00	1	08/27/2023 13:24	WG2121884
(S) Toluene-d8	*106*			*80.0-120*		*08/27/2023 13:24*	WG2121884
(S) 4-Bromofluorobenzene	*96.5*			*77.0-126*		*08/27/2023 13:24*	WG2121884
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*08/27/2023 13:24*	WG2121884

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		170	800	1	09/01/2023 19:48	WG2122949
(S) o-Terphenyl	*90.0*			*50.0-150*		*09/01/2023 19:48*	WG2122949

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0190	0.0500	1	08/26/2023 20:28	WG2120839
Acenaphthene	U		0.0190	0.0500	1	08/26/2023 20:28	WG2120839
Acenaphthylene	U		0.0170	0.0500	1	08/26/2023 20:28	WG2120839
Benzo(a)anthracene	U		0.0200	0.0500	1	08/26/2023 20:28	WG2120839
Benzo(a)pyrene	U		0.0180	0.0500	1	08/26/2023 20:28	WG2120839
Benzo(b)fluoranthene	U		0.0170	0.0500	1	08/26/2023 20:28	WG2120839
Benzo(g,h,i)perylene	0.0293	J	0.0180	0.0500	1	08/26/2023 20:28	WG2120839
Benzo(k)fluoranthene	U		0.0200	0.250	1	08/26/2023 20:28	WG2120839
Chrysene	U		0.0180	0.0500	1	08/26/2023 20:28	WG2120839
Dibenz(a,h)anthracene	0.0322	J	0.0180	0.0500	1	08/26/2023 20:28	WG2120839
Fluoranthene	U		0.0110	0.0500	1	08/26/2023 20:28	WG2120839
Fluorene	U		0.0170	0.0500	1	08/26/2023 20:28	WG2120839
Indeno(1,2,3-cd)pyrene	0.0372	J	0.0180	0.0500	1	08/26/2023 20:28	WG2120839

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Naphthalene	U		0.128	0.500	1	08/26/2023 20:28	WG2120839
Phenanthrene	U		0.0180	0.0500	1	08/26/2023 20:28	WG2120839
Pyrene	U		0.0170	0.0500	1	08/26/2023 20:28	WG2120839
1-Methylnaphthalene	U		0.0200	0.500	1	08/26/2023 20:28	WG2120839
2-Methylnaphthalene	U		0.0280	0.500	1	08/26/2023 20:28	WG2120839
2-Chloronaphthalene	U		0.0120	0.500	1	08/26/2023 20:28	WG2120839
(S) Nitrobenzene-d5	*34.6*			*11.0-135*		*08/26/2023 20:28*	WG2120839
(S) 2-Fluorobiphenyl	*40.1*			*32.0-120*		*08/26/2023 20:28*	WG2120839
(S) p-Terphenyl-d14	*46.9*			*23.0-122*		*08/26/2023 20:28*	WG2120839

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	U		28.7	100	1	08/30/2023 23:16	WG2123398
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*50.0-150*		*08/30/2023 23:16*	WG2123398

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	08/27/2023 12:01	WG2121884
1,2,3-Trichloropropane	U		0.00200	0.00500	1	08/30/2023 13:15	WG2121198
Acrolein	U	C3	2.54	50.0	1	08/27/2023 12:01	WG2121884
1,2-Dibromoethane	U		0.00410	0.00500	1	08/30/2023 13:15	WG2121198
Acrylonitrile	U		0.671	10.0	1	08/27/2023 12:01	WG2121884
Benzene	U		0.0941	1.00	1	08/27/2023 12:01	WG2121884
Bromobenzene	U		0.118	1.00	1	08/27/2023 12:01	WG2121884
Bromochloromethane	U		0.128	1.00	1	08/27/2023 12:01	WG2121884
Bromodichloromethane	U		0.136	1.00	1	08/27/2023 12:01	WG2121884
Bromoform	U		0.129	1.00	1	08/27/2023 12:01	WG2121884
Bromomethane	U	C3	0.605	5.00	1	08/27/2023 12:01	WG2121884
n-Butylbenzene	U		0.157	1.00	1	08/27/2023 12:01	WG2121884
sec-Butylbenzene	U		0.125	1.00	1	08/27/2023 12:01	WG2121884
tert-Butylbenzene	U		0.127	1.00	1	08/27/2023 12:01	WG2121884
Carbon disulfide	U		0.0962	1.00	1	08/27/2023 12:01	WG2121884
Carbon tetrachloride	U		0.128	1.00	1	08/27/2023 12:01	WG2121884
Chlorobenzene	U		0.116	1.00	1	08/27/2023 12:01	WG2121884
Chlorodibromomethane	U		0.140	1.00	1	08/27/2023 12:01	WG2121884
Chloroethane	U		0.192	5.00	1	08/27/2023 12:01	WG2121884
Chloroform	U		0.111	5.00	1	08/27/2023 12:01	WG2121884
Chloromethane	U		0.960	2.50	1	08/27/2023 12:01	WG2121884
2-Chlorotoluene	U		0.106	1.00	1	08/27/2023 12:01	WG2121884
4-Chlorotoluene	U		0.114	1.00	1	08/27/2023 12:01	WG2121884
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/27/2023 12:01	WG2121884
1,2-Dibromoethane	U		0.126	1.00	1	08/27/2023 12:01	WG2121884
Dibromomethane	U		0.122	1.00	1	08/27/2023 12:01	WG2121884
1,2-Dichlorobenzene	U		0.107	1.00	1	08/27/2023 12:01	WG2121884
1,3-Dichlorobenzene	U		0.110	1.00	1	08/27/2023 12:01	WG2121884
1,4-Dichlorobenzene	U		0.120	1.00	1	08/27/2023 12:01	WG2121884
Dichlorodifluoromethane	U		0.374	5.00	1	08/27/2023 12:01	WG2121884
1,1-Dichloroethane	U		0.100	1.00	1	08/27/2023 12:01	WG2121884
1,2-Dichloroethane	U		0.0819	1.00	1	08/27/2023 12:01	WG2121884
1,1-Dichloroethene	U		0.188	1.00	1	08/27/2023 12:01	WG2121884
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/27/2023 12:01	WG2121884
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/27/2023 12:01	WG2121884
1,2-Dichloropropane	U		0.149	1.00	1	08/27/2023 12:01	WG2121884
1,1-Dichloropropene	U		0.142	1.00	1	08/27/2023 12:01	WG2121884
1,3-Dichloropropane	U		0.110	1.00	1	08/27/2023 12:01	WG2121884
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/27/2023 12:01	WG2121884
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/27/2023 12:01	WG2121884
2,2-Dichloropropane	U	C3 J4	0.161	1.00	1	08/27/2023 12:01	WG2121884
Di-isopropyl ether	U		0.105	1.00	1	08/27/2023 12:01	WG2121884
Ethylbenzene	U		0.137	1.00	1	08/27/2023 12:01	WG2121884
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/27/2023 12:01	WG2121884
Isopropylbenzene	U		0.105	1.00	1	08/27/2023 12:01	WG2121884
p-Isopropyltoluene	U		0.120	1.00	1	08/27/2023 12:01	WG2121884
2-Butanone (MEK)	U		1.19	10.0	1	08/27/2023 12:01	WG2121884
Methylene Chloride	U		0.430	5.00	1	08/27/2023 12:01	WG2121884
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/27/2023 12:01	WG2121884

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methyl tert-butyl ether	U		0.101	1.00	1	08/27/2023 12:01	WG2121884
Naphthalene	U		1.00	5.00	1	08/27/2023 12:01	WG2121884
n-Propylbenzene	U		0.0993	1.00	1	08/27/2023 12:01	WG2121884
Styrene	U		0.118	1.00	1	08/27/2023 12:01	WG2121884
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/27/2023 12:01	WG2121884
1,1,2,2-Tetrachloroethane	U	C3 J4	0.133	1.00	1	08/27/2023 12:01	WG2121884
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/27/2023 12:01	WG2121884
Tetrachloroethene	U		0.300	1.00	1	08/27/2023 12:01	WG2121884
Toluene	U		0.278	1.00	1	08/27/2023 12:01	WG2121884
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/27/2023 12:01	WG2121884
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/27/2023 12:01	WG2121884
1,1,1-Trichloroethane	U		0.149	1.00	1	08/27/2023 12:01	WG2121884
1,1,2-Trichloroethane	U		0.158	1.00	1	08/27/2023 12:01	WG2121884
Trichloroethene	U	J4	0.190	1.00	1	08/27/2023 12:01	WG2121884
Trichlorofluoromethane	U		0.160	5.00	1	08/27/2023 12:01	WG2121884
1,2,3-Trichloropropane	U		0.237	2.50	1	08/27/2023 12:01	WG2121884
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/27/2023 12:01	WG2121884
1,2,3-Trimethylbenzene	U		0.104	1.00	1	08/27/2023 12:01	WG2121884
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/27/2023 12:01	WG2121884
Vinyl chloride	U		0.234	1.00	1	08/27/2023 12:01	WG2121884
Xylenes, Total	U		0.174	3.00	1	08/27/2023 12:01	WG2121884
o-Xylene	U		0.174	1.00	1	08/27/2023 12:01	WG2121884
m&p-Xylene	U		0.430	2.00	1	08/27/2023 12:01	WG2121884
(S) Toluene-d8	*107*			*80.0-120*		*08/27/2023 12:01*	WG2121884
(S) 4-Bromofluorobenzene	*95.0*			*77.0-126*		*08/27/2023 12:01*	WG2121884
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*08/27/2023 12:01*	WG2121884

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	U		28.7	100	1	08/30/2023 23:39	WG2123398
(S) a,a,a-Trifluorotoluene(FID)	*100*			*50.0-150*		*08/30/2023 23:39*	WG2123398

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	08/27/2023 12:22	WG2121884
1,2,3-Trichloropropane	U		0.00200	0.00500	1	08/30/2023 13:39	WG2121198
Acrolein	U	C3	2.54	50.0	1	08/27/2023 12:22	WG2121884
1,2-Dibromoethane	U		0.00410	0.00500	1	08/30/2023 13:39	WG2121198
Acrylonitrile	U		0.671	10.0	1	08/27/2023 12:22	WG2121884
Benzene	U		0.0941	1.00	1	08/27/2023 12:22	WG2121884
Bromobenzene	U		0.118	1.00	1	08/27/2023 12:22	WG2121884
Bromochloromethane	U		0.128	1.00	1	08/27/2023 12:22	WG2121884
Bromodichloromethane	U		0.136	1.00	1	08/27/2023 12:22	WG2121884
Bromoform	U		0.129	1.00	1	08/27/2023 12:22	WG2121884
Bromomethane	U	C3	0.605	5.00	1	08/27/2023 12:22	WG2121884
n-Butylbenzene	U		0.157	1.00	1	08/27/2023 12:22	WG2121884
sec-Butylbenzene	U		0.125	1.00	1	08/27/2023 12:22	WG2121884
tert-Butylbenzene	U		0.127	1.00	1	08/27/2023 12:22	WG2121884
Carbon disulfide	U		0.0962	1.00	1	08/27/2023 12:22	WG2121884
Carbon tetrachloride	U		0.128	1.00	1	08/27/2023 12:22	WG2121884
Chlorobenzene	U		0.116	1.00	1	08/27/2023 12:22	WG2121884
Chlorodibromomethane	U		0.140	1.00	1	08/27/2023 12:22	WG2121884
Chloroethane	U		0.192	5.00	1	08/27/2023 12:22	WG2121884
Chloroform	U		0.111	5.00	1	08/27/2023 12:22	WG2121884
Chloromethane	U		0.960	2.50	1	08/27/2023 12:22	WG2121884
2-Chlorotoluene	U		0.106	1.00	1	08/27/2023 12:22	WG2121884
4-Chlorotoluene	U		0.114	1.00	1	08/27/2023 12:22	WG2121884
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/27/2023 12:22	WG2121884
1,2-Dibromoethane	U		0.126	1.00	1	08/27/2023 12:22	WG2121884
Dibromomethane	U		0.122	1.00	1	08/27/2023 12:22	WG2121884
1,2-Dichlorobenzene	U		0.107	1.00	1	08/27/2023 12:22	WG2121884
1,3-Dichlorobenzene	U		0.110	1.00	1	08/27/2023 12:22	WG2121884
1,4-Dichlorobenzene	U		0.120	1.00	1	08/27/2023 12:22	WG2121884
Dichlorodifluoromethane	U		0.374	5.00	1	08/27/2023 12:22	WG2121884
1,1-Dichloroethane	U		0.100	1.00	1	08/27/2023 12:22	WG2121884
1,2-Dichloroethane	U		0.0819	1.00	1	08/27/2023 12:22	WG2121884
1,1-Dichloroethene	U		0.188	1.00	1	08/27/2023 12:22	WG2121884
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/27/2023 12:22	WG2121884
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/27/2023 12:22	WG2121884
1,2-Dichloropropane	U		0.149	1.00	1	08/27/2023 12:22	WG2121884
1,1-Dichloropropene	U		0.142	1.00	1	08/27/2023 12:22	WG2121884
1,3-Dichloropropane	U		0.110	1.00	1	08/27/2023 12:22	WG2121884
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/27/2023 12:22	WG2121884
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/27/2023 12:22	WG2121884
2,2-Dichloropropane	U	C3 J4	0.161	1.00	1	08/27/2023 12:22	WG2121884
Di-isopropyl ether	U		0.105	1.00	1	08/27/2023 12:22	WG2121884
Ethylbenzene	U		0.137	1.00	1	08/27/2023 12:22	WG2121884
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/27/2023 12:22	WG2121884
Isopropylbenzene	U		0.105	1.00	1	08/27/2023 12:22	WG2121884
p-Isopropyltoluene	U		0.120	1.00	1	08/27/2023 12:22	WG2121884
2-Butanone (MEK)	U		1.19	10.0	1	08/27/2023 12:22	WG2121884
Methylene Chloride	U		0.430	5.00	1	08/27/2023 12:22	WG2121884
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/27/2023 12:22	WG2121884

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methyl tert-butyl ether	U		0.101	1.00	1	08/27/2023 12:22	WG2121884
Naphthalene	U		1.00	5.00	1	08/27/2023 12:22	WG2121884
n-Propylbenzene	U		0.0993	1.00	1	08/27/2023 12:22	WG2121884
Styrene	U		0.118	1.00	1	08/27/2023 12:22	WG2121884
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/27/2023 12:22	WG2121884
1,1,2,2-Tetrachloroethane	U	C3 J4	0.133	1.00	1	08/27/2023 12:22	WG2121884
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/27/2023 12:22	WG2121884
Tetrachloroethene	U		0.300	1.00	1	08/27/2023 12:22	WG2121884
Toluene	U		0.278	1.00	1	08/27/2023 12:22	WG2121884
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/27/2023 12:22	WG2121884
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/27/2023 12:22	WG2121884
1,1,1-Trichloroethane	U		0.149	1.00	1	08/27/2023 12:22	WG2121884
1,1,2-Trichloroethane	U		0.158	1.00	1	08/27/2023 12:22	WG2121884
Trichloroethene	U	J4	0.190	1.00	1	08/27/2023 12:22	WG2121884
Trichlorofluoromethane	U		0.160	5.00	1	08/27/2023 12:22	WG2121884
1,2,3-Trichloropropane	U		0.237	2.50	1	08/27/2023 12:22	WG2121884
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/27/2023 12:22	WG2121884
1,2,3-Trimethylbenzene	U		0.104	1.00	1	08/27/2023 12:22	WG2121884
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/27/2023 12:22	WG2121884
Vinyl chloride	U		0.234	1.00	1	08/27/2023 12:22	WG2121884
Xylenes, Total	U		0.174	3.00	1	08/27/2023 12:22	WG2121884
o-Xylene	U		0.174	1.00	1	08/27/2023 12:22	WG2121884
m&p-Xylene	U		0.430	2.00	1	08/27/2023 12:22	WG2121884
(S) Toluene-d8	*108*			*80.0-120*		*08/27/2023 12:22*	WG2121884
(S) 4-Bromofluorobenzene	*94.4*			*77.0-126*		*08/27/2023 12:22*	WG2121884
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*08/27/2023 12:22*	WG2121884

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	U		28.7	100	1	08/31/2023 00:01	WG2123398
(S) a,a,a-Trifluorotoluene(FID)	*93.5*			*50.0-150*		*08/31/2023 00:01*	WG2123398

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	08/27/2023 12:42	WG2121884
1,2,3-Trichloropropane	U		0.00200	0.00500	1	08/30/2023 14:03	WG2121198
Acrolein	U	C3	2.54	50.0	1	08/27/2023 12:42	WG2121884
1,2-Dibromoethane	U		0.00410	0.00500	1	08/30/2023 14:03	WG2121198
Acrylonitrile	U		0.671	10.0	1	08/27/2023 12:42	WG2121884
Benzene	U		0.0941	1.00	1	08/27/2023 12:42	WG2121884
Bromobenzene	U		0.118	1.00	1	08/27/2023 12:42	WG2121884
Bromochloromethane	U		0.128	1.00	1	08/27/2023 12:42	WG2121884
Bromodichloromethane	U		0.136	1.00	1	08/27/2023 12:42	WG2121884
Bromoform	U		0.129	1.00	1	08/27/2023 12:42	WG2121884
Bromomethane	U	C3	0.605	5.00	1	08/27/2023 12:42	WG2121884
n-Butylbenzene	U		0.157	1.00	1	08/27/2023 12:42	WG2121884
sec-Butylbenzene	U		0.125	1.00	1	08/27/2023 12:42	WG2121884
tert-Butylbenzene	U		0.127	1.00	1	08/27/2023 12:42	WG2121884
Carbon disulfide	U		0.0962	1.00	1	08/27/2023 12:42	WG2121884
Carbon tetrachloride	U		0.128	1.00	1	08/27/2023 12:42	WG2121884
Chlorobenzene	U		0.116	1.00	1	08/27/2023 12:42	WG2121884
Chlorodibromomethane	U		0.140	1.00	1	08/27/2023 12:42	WG2121884
Chloroethane	U		0.192	5.00	1	08/27/2023 12:42	WG2121884
Chloroform	U		0.111	5.00	1	08/27/2023 12:42	WG2121884
Chloromethane	U		0.960	2.50	1	08/27/2023 12:42	WG2121884
2-Chlorotoluene	U		0.106	1.00	1	08/27/2023 12:42	WG2121884
4-Chlorotoluene	U		0.114	1.00	1	08/27/2023 12:42	WG2121884
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/27/2023 12:42	WG2121884
1,2-Dibromoethane	U		0.126	1.00	1	08/27/2023 12:42	WG2121884
Dibromomethane	U		0.122	1.00	1	08/27/2023 12:42	WG2121884
1,2-Dichlorobenzene	U		0.107	1.00	1	08/27/2023 12:42	WG2121884
1,3-Dichlorobenzene	U		0.110	1.00	1	08/27/2023 12:42	WG2121884
1,4-Dichlorobenzene	U		0.120	1.00	1	08/27/2023 12:42	WG2121884
Dichlorodifluoromethane	U		0.374	5.00	1	08/27/2023 12:42	WG2121884
1,1-Dichloroethane	U		0.100	1.00	1	08/27/2023 12:42	WG2121884
1,2-Dichloroethane	U		0.0819	1.00	1	08/27/2023 12:42	WG2121884
1,1-Dichloroethene	U		0.188	1.00	1	08/27/2023 12:42	WG2121884
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/27/2023 12:42	WG2121884
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/27/2023 12:42	WG2121884
1,2-Dichloropropane	U		0.149	1.00	1	08/27/2023 12:42	WG2121884
1,1-Dichloropropene	U		0.142	1.00	1	08/27/2023 12:42	WG2121884
1,3-Dichloropropane	U		0.110	1.00	1	08/27/2023 12:42	WG2121884
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/27/2023 12:42	WG2121884
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/27/2023 12:42	WG2121884
2,2-Dichloropropane	U	C3 J4	0.161	1.00	1	08/27/2023 12:42	WG2121884
Di-isopropyl ether	U		0.105	1.00	1	08/27/2023 12:42	WG2121884
Ethylbenzene	U		0.137	1.00	1	08/27/2023 12:42	WG2121884
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/27/2023 12:42	WG2121884
Isopropylbenzene	U		0.105	1.00	1	08/27/2023 12:42	WG2121884
p-Isopropyltoluene	U		0.120	1.00	1	08/27/2023 12:42	WG2121884
2-Butanone (MEK)	U		1.19	10.0	1	08/27/2023 12:42	WG2121884
Methylene Chloride	U		0.430	5.00	1	08/27/2023 12:42	WG2121884
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/27/2023 12:42	WG2121884

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methyl tert-butyl ether	U		0.101	1.00	1	08/27/2023 12:42	WG2121884
Naphthalene	U		1.00	5.00	1	08/27/2023 12:42	WG2121884
n-Propylbenzene	U		0.0993	1.00	1	08/27/2023 12:42	WG2121884
Styrene	U		0.118	1.00	1	08/27/2023 12:42	WG2121884
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/27/2023 12:42	WG2121884
1,1,2,2-Tetrachloroethane	U	C3 J4	0.133	1.00	1	08/27/2023 12:42	WG2121884
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/27/2023 12:42	WG2121884
Tetrachloroethene	U		0.300	1.00	1	08/27/2023 12:42	WG2121884
Toluene	U		0.278	1.00	1	08/27/2023 12:42	WG2121884
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/27/2023 12:42	WG2121884
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/27/2023 12:42	WG2121884
1,1,1-Trichloroethane	U		0.149	1.00	1	08/27/2023 12:42	WG2121884
1,1,2-Trichloroethane	U		0.158	1.00	1	08/27/2023 12:42	WG2121884
Trichloroethene	U	J4	0.190	1.00	1	08/27/2023 12:42	WG2121884
Trichlorofluoromethane	U		0.160	5.00	1	08/27/2023 12:42	WG2121884
1,2,3-Trichloropropane	U		0.237	2.50	1	08/27/2023 12:42	WG2121884
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/27/2023 12:42	WG2121884
1,2,3-Trimethylbenzene	U		0.104	1.00	1	08/27/2023 12:42	WG2121884
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/27/2023 12:42	WG2121884
Vinyl chloride	U		0.234	1.00	1	08/27/2023 12:42	WG2121884
Xylenes, Total	U		0.174	3.00	1	08/27/2023 12:42	WG2121884
o-Xylene	U		0.174	1.00	1	08/27/2023 12:42	WG2121884
m&p-Xylene	U		0.430	2.00	1	08/27/2023 12:42	WG2121884
(S) Toluene-d8	*106*			*80.0-120*		*08/27/2023 12:42*	WG2121884
(S) 4-Bromofluorobenzene	*94.3*			*77.0-126*		*08/27/2023 12:42*	WG2121884
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*08/27/2023 12:42*	WG2121884

Method Blank (MB)

(MB) R3968115-1 08/31/23 20:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Lead	U		2.99	6.00

Laboratory Control Sample (LCS)

(LCS) R3968115-2 08/31/23 20:19

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Lead	1000	974	97.4	80.0-120	

L1649469-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1649469-02 08/31/23 20:21 • (MS) R3968115-4 08/31/23 20:27 • (MSD) R3968115-5 08/31/23 20:29

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Lead	1000	U	976	983	97.6	98.3	1	75.0-125			0.730	20

L1649472-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1649472-08 08/31/23 20:32 • (MS) R3968115-6 08/31/23 20:34 • (MSD) R3968115-7 08/31/23 20:37

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Lead	1000	U	1020	995	102	99.5	1	75.0-125			2.06	20

Method Blank (MB)

(MB) R3967423-3 08/30/23 03:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TPHGAK C6 to C10	35.1	J	28.7	100
(S) a,a,a-Trifluorotoluene(FID)	*99.2*			*60.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3967423-1 08/30/23 01:13 • (LCSD) R3967423-2 08/30/23 02:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	5000	4030	4120	80.6	82.4	60.0-120			2.21	20
(S) a,a,a-Trifluorotoluene(FID)				*92.1*	*101*	*60.0-120*				

L1649016-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1649016-08 08/30/23 07:35 • (MS) R3967423-4 08/30/23 10:58 • (MSD) R3967423-5 08/30/23 11:20

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	2500	1130	4480	3290	134	86.4	1	70.0-130	J5	J3	30.6	20
(S) a,a,a-Trifluorotoluene(FID)					*95.7*	*95.5*		*50.0-150*				

L1649469-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1649469-02 08/30/23 09:28 • (MS) R3967423-6 08/30/23 11:43 • (MSD) R3967423-7 08/30/23 12:05

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	5000	3620	7620	7660	80.0	80.8	1	70.0-130			0.524	20
(S) a,a,a-Trifluorotoluene(FID)					*103*	*98.5*		*50.0-150*				

Method Blank (MB)

(MB) R3967704-5 08/30/23 21:59

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TPHGAK C6 to C10	44.9	J	28.7	100
(S) a,a,a-Trifluorotoluene(FID)	*92.5*			*60.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3967704-3 08/30/23 19:50 • (LCSD) R3967704-4 08/30/23 20:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	5000	3950	4000	79.0	80.0	60.0-120			1.26	20
(S) a,a,a-Trifluorotoluene(FID)				*79.7*	*101*	*60.0-120*				

L1649723-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1649723-02 08/31/23 00:46 • (MS) R3967704-6 08/31/23 02:39 • (MSD) R3967704-7 08/31/23 03:01

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	5000	U	1890	3510	37.8	70.2	1	70.0-130	J6	J3	60.0	20
(S) a,a,a-Trifluorotoluene(FID)					*99.2*	*83.2*		*50.0-150*				

L1649472-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1649472-08 08/31/23 07:09 • (MS) R3967704-8 08/31/23 08:39 • (MSD) R3967704-9 08/31/23 09:02

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	5000	3350	3140	2920	0.000	0.000	1	70.0-130	J6	J6	7.26	20
(S) a,a,a-Trifluorotoluene(FID)					*106*	*95.4*		*50.0-150*				

Method Blank (MB)

(MB) R3969808-3 09/05/23 11:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TPHGAK C6 to C10	48.5	J	28.7	100
(S) a,a,a-Trifluorotoluene(FID)	*97.1*			*60.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3969808-1 09/05/23 09:47 • (LCSD) R3969808-2 09/05/23 10:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	5000	4680	4740	93.6	94.8	60.0-120			1.27	20
(S) a,a,a-Trifluorotoluene(FID)				*75.3*	*89.2*	*60.0-120*				

Method Blank (MB)

(MB) R3970311-3 09/07/23 01:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TPHGAK C6 to C10	54.8	J	28.7	100
(S) a,a,a-Trifluorotoluene(FID)	*97.0*			*60.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3970311-1 09/07/23 00:33 • (LCSD) R3970311-2 09/07/23 00:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	5000	4750	4790	95.0	95.8	60.0-120			0.839	20
(S) a,a,a-Trifluorotoluene(FID)				*75.5*	*99.0*	*60.0-120*				

Method Blank (MB)

(MB) R3967694-2 08/30/23 12:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,2,3-Trichloropropane	U		0.00200	0.00500
1,2-Dibromoethane	U		0.00410	0.00500

Laboratory Control Sample (LCS)

(LCS) R3967694-1 08/30/23 11:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,3-Trichloropropane	0.0500	0.0480	96.0	70.0-130	
1,2-Dibromoethane	0.0500	0.0490	98.0	70.0-130	

Method Blank (MB)

(MB) R3968072-3 08/26/23 21:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromochloromethane	U		0.128	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	0.185	J	0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00

Method Blank (MB)

(MB) R3968072-3 08/26/23 21:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	1.00
Hexachloro-1,3-butadiene	U		0.337	1.00
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	1.00
1,2,3-Trimethylbenzene	U		0.104	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
o-Xylene	U		0.174	1.00
m&p-Xylene	U		0.430	2.00
(S) Toluene-d8	*101*			*80.0-120*
(S) 4-Bromofluorobenzene	*95.9*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*97.0*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3968072-1 08/26/23 20:49 • (LCSD) R3968072-2 08/26/23 21:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	26.8	25.8	107	103	19.0-160			3.80	27
Acrolein	25.0	21.6	20.9	86.4	83.6	10.0-160			3.29	26
Acrylonitrile	25.0	25.0	24.5	100	98.0	55.0-149			2.02	20
Benzene	5.00	4.85	4.74	97.0	94.8	70.0-123			2.29	20
Bromobenzene	5.00	4.55	4.61	91.0	92.2	73.0-121			1.31	20
Bromochloromethane	5.00	5.23	5.05	105	101	76.0-122			3.50	20
Bromodichloromethane	5.00	4.78	4.75	95.6	95.0	75.0-120			0.630	20
Bromoform	5.00	5.22	4.96	104	99.2	68.0-132			5.11	20
Bromomethane	5.00	8.14	7.30	163	146	10.0-160	J4		10.9	25
n-Butylbenzene	5.00	4.63	4.60	92.6	92.0	73.0-125			0.650	20
sec-Butylbenzene	5.00	4.69	4.67	93.8	93.4	75.0-125			0.427	20
tert-Butylbenzene	5.00	4.73	4.75	94.6	95.0	76.0-124			0.422	20
Carbon disulfide	5.00	4.50	4.45	90.0	89.0	61.0-128			1.12	20
Carbon tetrachloride	5.00	5.03	4.98	101	99.6	68.0-126			0.999	20
Chlorobenzene	5.00	4.78	4.81	95.6	96.2	80.0-121			0.626	20
Chlorodibromomethane	5.00	5.06	4.97	101	99.4	77.0-125			1.79	20
Chloroethane	5.00	6.04	5.83	121	117	47.0-150			3.54	20
Chloroform	5.00	5.01	4.90	100	98.0	73.0-120			2.22	20
Chloromethane	5.00	6.13	5.59	123	112	41.0-142			9.22	20
2-Chlorotoluene	5.00	4.58	4.56	91.6	91.2	76.0-123			0.438	20
4-Chlorotoluene	5.00	4.53	4.51	90.6	90.2	75.0-122			0.442	20
1,2-Dibromo-3-Chloropropane	5.00	4.41	4.50	88.2	90.0	58.0-134			2.02	20
1,2-Dibromoethane	5.00	4.86	4.78	97.2	95.6	80.0-122			1.66	20
Dibromomethane	5.00	4.92	4.83	98.4	96.6	80.0-120			1.85	20
1,2-Dichlorobenzene	5.00	4.98	4.80	99.6	96.0	79.0-121			3.68	20
1,3-Dichlorobenzene	5.00	4.78	4.72	95.6	94.4	79.0-120			1.26	20
1,4-Dichlorobenzene	5.00	4.74	4.78	94.8	95.6	79.0-120			0.840	20
Dichlorodifluoromethane	5.00	4.87	4.94	97.4	98.8	51.0-149			1.43	20
1,1-Dichloroethane	5.00	4.94	4.83	98.8	96.6	70.0-126			2.25	20
1,2-Dichloroethane	5.00	4.94	4.80	98.8	96.0	70.0-128			2.87	20
1,1-Dichloroethene	5.00	4.82	4.88	96.4	97.6	71.0-124			1.24	20
cis-1,2-Dichloroethene	5.00	5.56	5.51	111	110	73.0-120			0.903	20
trans-1,2-Dichloroethene	5.00	4.80	4.73	96.0	94.6	73.0-120			1.47	20
1,2-Dichloropropane	5.00	4.91	4.85	98.2	97.0	77.0-125			1.23	20
1,1-Dichloropropene	5.00	5.05	4.97	101	99.4	74.0-126			1.60	20
1,3-Dichloropropane	5.00	4.81	4.78	96.2	95.6	80.0-120			0.626	20
cis-1,3-Dichloropropene	5.00	4.70	4.61	94.0	92.2	80.0-123			1.93	20
trans-1,3-Dichloropropene	5.00	4.76	4.71	95.2	94.2	78.0-124			1.06	20
2,2-Dichloropropane	5.00	4.62	4.47	92.4	89.4	58.0-130			3.30	20
Di-isopropyl ether	5.00	4.90	4.91	98.0	98.2	58.0-138			0.204	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3968072-1 08/26/23 20:49 • (LCSD) R3968072-2 08/26/23 21:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	5.00	5.02	5.01	100	100	79.0-123			0.199	20
Hexachloro-1,3-butadiene	5.00	5.04	4.81	101	96.2	54.0-138			4.67	20
Isopropylbenzene	5.00	4.71	4.68	94.2	93.6	76.0-127			0.639	20
p-Isopropyltoluene	5.00	4.73	4.69	94.6	93.8	76.0-125			0.849	20
2-Butanone (MEK)	25.0	25.7	24.8	103	99.2	44.0-160			3.56	20
Methylene Chloride	5.00	3.85	3.82	77.0	76.4	67.0-120			0.782	20
4-Methyl-2-pentanone (MIBK)	25.0	23.9	24.0	95.6	96.0	68.0-142			0.418	20
Methyl tert-butyl ether	5.00	4.89	4.79	97.8	95.8	68.0-125			2.07	20
Naphthalene	5.00	4.74	4.88	94.8	97.6	54.0-135			2.91	20
n-Propylbenzene	5.00	4.69	4.74	93.8	94.8	77.0-124			1.06	20
Styrene	5.00	4.71	4.67	94.2	93.4	73.0-130			0.853	20
1,1,1,2-Tetrachloroethane	5.00	4.90	4.75	98.0	95.0	75.0-125			3.11	20
1,1,2,2-Tetrachloroethane	5.00	4.40	4.38	88.0	87.6	65.0-130			0.456	20
1,1,2-Trichlorotrifluoroethane	5.00	5.38	5.22	108	104	69.0-132			3.02	20
Tetrachloroethene	5.00	4.95	4.82	99.0	96.4	72.0-132			2.66	20
Toluene	5.00	4.81	4.68	96.2	93.6	79.0-120			2.74	20
1,2,3-Trichlorobenzene	5.00	4.87	5.01	97.4	100	50.0-138			2.83	20
1,2,4-Trichlorobenzene	5.00	4.90	4.83	98.0	96.6	57.0-137			1.44	20
1,1,1-Trichloroethane	5.00	4.93	4.78	98.6	95.6	73.0-124			3.09	20
1,1,2-Trichloroethane	5.00	4.82	4.92	96.4	98.4	80.0-120			2.05	20
Trichloroethene	5.00	5.70	5.61	114	112	78.0-124			1.59	20
Trichlorofluoromethane	5.00	5.94	5.91	119	118	59.0-147			0.506	20
1,2,3-Trichloropropane	5.00	4.60	4.50	92.0	90.0	73.0-130			2.20	20
1,2,4-Trimethylbenzene	5.00	4.75	4.65	95.0	93.0	76.0-121			2.13	20
1,2,3-Trimethylbenzene	5.00	4.80	4.76	96.0	95.2	77.0-120			0.837	20
1,3,5-Trimethylbenzene	5.00	4.62	4.61	92.4	92.2	76.0-122			0.217	20
Vinyl chloride	5.00	5.56	5.37	111	107	67.0-131			3.48	20
Xylenes, Total	15.0	14.7	14.8	98.0	98.7	79.0-123			0.678	20
o-Xylene	5.00	4.80	4.95	96.0	99.0	80.0-122			3.08	20
m&p-Xylene	10.0	9.86	9.82	98.6	98.2	80.0-122			0.406	20
(S) Toluene-d8				*98.8*	*99.9*	*80.0-120*				
(S) 4-Bromofluorobenzene				*97.2*	*97.2*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*98.4*	*96.9*	*70.0-130*				

L1649472-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1649472-08 08/27/23 05:21 • (MS) R3968072-4 08/27/23 06:42 • (MSD) R3968072-5 08/27/23 07:02

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	U	63.4	52.5	254	210	1	10.0-160	J5	J5	18.8	35
Acrolein	25.0	U	90.7	83.5	363	334	1	10.0-160	J5	J5	8.27	39
Acrylonitrile	25.0	U	52.7	40.1	211	160	1	21.0-160	J5		27.2	32
Benzene	5.00	71.8	136	88.1	1280	326	1	17.0-158	V	J3 V	42.7	27
Bromobenzene	5.00	U	6.05	5.72	121	114	1	30.0-149			5.61	28
Bromochloromethane	5.00	U	4.65	5.29	93.0	106	1	38.0-142			12.9	26
Bromodichloromethane	5.00	U	4.63	5.30	92.6	106	1	31.0-150			13.5	27
Bromoform	5.00	U	4.85	5.33	97.0	107	1	29.0-150			9.43	29
Bromomethane	5.00	U	3.78	4.44	75.6	88.8	1	10.0-160			16.1	38
n-Butylbenzene	5.00	U	4.82	6.24	96.4	125	1	31.0-150			25.7	30
sec-Butylbenzene	5.00	0.153	5.05	5.65	97.9	110	1	33.0-155			11.2	29
tert-Butylbenzene	5.00	U	4.91	5.63	98.2	113	1	34.0-153			13.7	28
Carbon disulfide	5.00	U	3.89	4.56	77.8	91.2	1	10.0-156			15.9	28
Carbon tetrachloride	5.00	U	4.77	5.70	95.4	114	1	23.0-159			17.8	28
Chlorobenzene	5.00	U	4.60	5.34	92.0	107	1	33.0-152			14.9	27
Chlorodibromomethane	5.00	U	4.80	5.47	96.0	109	1	37.0-149			13.0	27
Chloroethane	5.00	U	5.17	6.02	103	120	1	10.0-160			15.2	30
Chloroform	5.00	U	7.32	6.97	146	139	1	29.0-154			4.90	28
Chloromethane	5.00	U	13.5	9.27	270	185	1	10.0-160	J5	J3 J5	37.2	29
2-Chlorotoluene	5.00	U	6.37	5.49	127	110	1	32.0-153			14.8	28
4-Chlorotoluene	5.00	U	4.51	5.26	90.2	105	1	32.0-150			15.4	28
1,2-Dibromo-3-Chloropropane	5.00	U	4.70	5.21	94.0	104	1	22.0-151			10.3	34
1,2-Dibromoethane	5.00	U	4.73	5.36	94.6	107	1	34.0-147			12.5	27
Dibromomethane	5.00	U	4.94	5.32	98.8	106	1	30.0-151			7.41	27
1,2-Dichlorobenzene	5.00	U	4.97	5.53	99.4	111	1	34.0-149			10.7	28
1,3-Dichlorobenzene	5.00	U	4.84	5.43	96.8	109	1	36.0-146			11.5	27
1,4-Dichlorobenzene	5.00	U	4.64	5.26	92.8	105	1	35.0-142			12.5	27
Dichlorodifluoromethane	5.00	U	4.51	5.51	90.2	110	1	10.0-160			20.0	29
1,1-Dichloroethane	5.00	U	4.31	6.16	86.2	123	1	25.0-158		J3	35.3	27
1,2-Dichloroethane	5.00	0.953	6.20	6.20	105	105	1	29.0-151			0.000	27
1,1-Dichloroethene	5.00	U	4.62	5.56	92.4	111	1	11.0-160			18.5	29
cis-1,2-Dichloroethene	5.00	U	5.53	6.01	111	120	1	10.0-160			8.32	27
trans-1,2-Dichloroethene	5.00	U	4.55	5.27	91.0	105	1	17.0-153			14.7	27
1,2-Dichloropropane	5.00	U	5.12	5.80	102	116	1	30.0-156			12.5	27
1,1-Dichloropropene	5.00	U	4.96	5.68	99.2	114	1	25.0-158			13.5	27
1,3-Dichloropropane	5.00	U	4.63	5.16	92.6	103	1	38.0-147			10.8	27
cis-1,3-Dichloropropene	5.00	U	4.47	5.13	89.4	103	1	34.0-149			13.7	28
trans-1,3-Dichloropropene	5.00	U	4.58	5.24	91.6	105	1	32.0-149			13.4	28
2,2-Dichloropropane	5.00	U	4.89	5.31	97.8	106	1	24.0-152			8.24	29
Di-isopropyl ether	5.00	U	4.99	5.54	99.8	111	1	21.0-160			10.4	28

L1649472-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1649472-08 08/27/23 05:21 • (MS) R3968072-4 08/27/23 06:42 • (MSD) R3968072-5 08/27/23 07:02

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	5.00	110	302	131	3840	420	1	30.0-155	E V	J3 V	79.0	27
Hexachloro-1,3-butadiene	5.00	U	4.85	5.77	97.0	115	1	20.0-154			17.3	34
Isopropylbenzene	5.00	3.73	13.2	9.96	189	125	1	28.0-157	J5	J3	28.0	27
p-Isopropyltoluene	5.00	U	6.28	6.26	126	125	1	30.0-154			0.319	29
2-Butanone (MEK)	25.0	U	28.6	29.1	114	116	1	10.0-160			1.73	32
Methylene Chloride	5.00	U	3.66	4.14	73.2	82.8	1	23.0-144			12.3	28
4-Methyl-2-pentanone (MIBK)	25.0	U	25.4	26.9	102	108	1	29.0-160			5.74	29
Methyl tert-butyl ether	5.00	U	4.94	5.46	98.8	109	1	28.0-150			10.0	29
Naphthalene	5.00	2.89	13.3	9.71	208	136	1	12.0-156	J5		31.2	35
n-Propylbenzene	5.00	5.94	18.9	12.4	259	129	1	31.0-154	J5	J3	41.5	28
Styrene	5.00	U	4.71	5.85	94.2	117	1	33.0-155			21.6	28
1,1,1,2-Tetrachloroethane	5.00	U	4.81	5.49	96.2	110	1	36.0-151			13.2	29
1,1,2,2-Tetrachloroethane	5.00	U	5.00	5.37	100	107	1	33.0-150			7.14	28
1,1,2-Trichlorotrifluoroethane	5.00	U	4.81	6.02	96.2	120	1	23.0-160			22.3	30
Tetrachloroethene	5.00	U	4.77	5.55	95.4	111	1	10.0-160			15.1	27
Toluene	5.00	14.9	208	23.1	3860	164	1	26.0-154	E J5	J3 J5	160	28
1,2,3-Trichlorobenzene	5.00	U	4.73	5.49	94.6	110	1	17.0-150			14.9	36
1,2,4-Trichlorobenzene	5.00	U	4.62	5.50	92.4	110	1	24.0-150			17.4	33
1,1,1-Trichloroethane	5.00	U	4.91	5.69	98.2	114	1	23.0-160			14.7	28
1,1,2-Trichloroethane	5.00	U	4.82	5.37	96.4	107	1	35.0-147			10.8	27
Trichloroethene	5.00	U	4.90	5.69	98.0	114	1	10.0-160			14.9	25
Trichlorofluoromethane	5.00	U	5.49	6.62	110	132	1	17.0-160			18.7	31
1,2,3-Trichloropropane	5.00	U	4.79	5.07	95.8	101	1	34.0-151			5.68	29
1,2,4-Trimethylbenzene	5.00	49.8	115	61.9	1300	242	1	26.0-154	V	J3 V	60.0	27
1,2,3-Trimethylbenzene	5.00	5.49	17.7	12.0	244	130	1	32.0-149	J5	J3	38.4	28
1,3,5-Trimethylbenzene	5.00	1.59	19.5	7.35	358	115	1	28.0-153	J5	J3	90.5	27
Vinyl chloride	5.00	U	5.03	5.96	101	119	1	10.0-160			16.9	27
Xylenes, Total	15.0	122	776	156	4360	227	1	29.0-154	V	J3 V	133	28
o-Xylene	5.00	12.9	161	21.1	2960	164	1	45.0-144	J5	J3 J5	154	26
m&p-Xylene	10.0	109	615	135	5060	260	1	43.0-146	E V	J3 V	128	26
(S) Toluene-d8					*96.0*	*98.6*		*80.0-120*				
(S) 4-Bromofluorobenzene					*97.9*	*98.6*		*77.0-126*				
(S) 1,2-Dichloroethane-d4					*97.8*	*97.5*		*70.0-130*				

Method Blank (MB)

(MB) R3967388-3 08/27/23 10:51

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromochloromethane	U		0.128	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00

Method Blank (MB)

(MB) R3967388-3 08/27/23 10:51

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	1.00
Hexachloro-1,3-butadiene	U		0.337	1.00
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	1.00
1,2,3-Trimethylbenzene	U		0.104	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
o-Xylene	U		0.174	1.00
m&p-Xylene	U		0.430	2.00
(S) Toluene-d8	*105*			*80.0-120*
(S) 4-Bromofluorobenzene	*93.9*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3967388-1 08/27/23 09:49 • (LCSD) R3967388-2 08/27/23 10:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	22.9	23.1	91.6	92.4	19.0-160			0.870	27
Acrolein	25.0	10.6	10.4	42.4	41.6	10.0-160			1.90	26
Acrylonitrile	25.0	24.9	23.7	99.6	94.8	55.0-149			4.94	20
Benzene	5.00	4.92	4.88	98.4	97.6	70.0-123			0.816	20
Bromobenzene	5.00	4.84	4.77	96.8	95.4	73.0-121			1.46	20
Bromochloromethane	5.00	5.59	5.20	112	104	76.0-122			7.23	20
Bromodichloromethane	5.00	5.29	4.92	106	98.4	75.0-120			7.25	20
Bromoform	5.00	5.49	5.24	110	105	68.0-132			4.66	20
Bromomethane	5.00	2.07	2.16	41.4	43.2	10.0-160			4.26	25
n-Butylbenzene	5.00	4.34	4.06	86.8	81.2	73.0-125			6.67	20
sec-Butylbenzene	5.00	4.53	4.66	90.6	93.2	75.0-125			2.83	20
tert-Butylbenzene	5.00	4.72	4.65	94.4	93.0	76.0-124			1.49	20
Carbon disulfide	5.00	4.59	4.66	91.8	93.2	61.0-128			1.51	20
Carbon tetrachloride	5.00	5.40	5.10	108	102	68.0-126			5.71	20
Chlorobenzene	5.00	4.89	4.78	97.8	95.6	80.0-121			2.28	20
Chlorodibromomethane	5.00	5.09	4.94	102	98.8	77.0-125			2.99	20
Chloroethane	5.00	4.68	4.67	93.6	93.4	47.0-150			0.214	20
Chloroform	5.00	5.22	4.98	104	99.6	73.0-120			4.71	20
Chloromethane	5.00	4.55	4.19	91.0	83.8	41.0-142			8.24	20
2-Chlorotoluene	5.00	4.78	4.76	95.6	95.2	76.0-123			0.419	20
4-Chlorotoluene	5.00	4.63	4.49	92.6	89.8	75.0-122			3.07	20
1,2-Dibromo-3-Chloropropane	5.00	4.69	4.23	93.8	84.6	58.0-134			10.3	20
1,2-Dibromoethane	5.00	5.20	4.98	104	99.6	80.0-122			4.32	20
Dibromomethane	5.00	5.44	5.03	109	101	80.0-120			7.83	20
1,2-Dichlorobenzene	5.00	5.01	4.62	100	92.4	79.0-121			8.10	20
1,3-Dichlorobenzene	5.00	4.77	4.62	95.4	92.4	79.0-120			3.19	20
1,4-Dichlorobenzene	5.00	4.86	4.85	97.2	97.0	79.0-120			0.206	20
Dichlorodifluoromethane	5.00	5.53	5.19	111	104	51.0-149			6.34	20
1,1-Dichloroethane	5.00	4.66	4.50	93.2	90.0	70.0-126			3.49	20
1,2-Dichloroethane	5.00	5.19	4.94	104	98.8	70.0-128			4.94	20
1,1-Dichloroethene	5.00	4.73	4.65	94.6	93.0	71.0-124			1.71	20
cis-1,2-Dichloroethene	5.00	4.87	4.60	97.4	92.0	73.0-120			5.70	20
trans-1,2-Dichloroethene	5.00	4.96	4.82	99.2	96.4	73.0-120			2.86	20
1,2-Dichloropropane	5.00	4.81	4.76	96.2	95.2	77.0-125			1.04	20
1,1-Dichloropropene	5.00	4.84	4.68	96.8	93.6	74.0-126			3.36	20
1,3-Dichloropropane	5.00	4.95	4.99	99.0	99.8	80.0-120			0.805	20
cis-1,3-Dichloropropene	5.00	4.70	4.33	94.0	86.6	80.0-123			8.19	20
trans-1,3-Dichloropropene	5.00	4.35	4.52	87.0	90.4	78.0-124			3.83	20
2,2-Dichloropropane	5.00	2.69	2.83	53.8	56.6	58.0-130	J4	J4	5.07	20
Di-isopropyl ether	5.00	4.77	4.67	95.4	93.4	58.0-138			2.12	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3967388-1 08/27/23 09:49 • (LCSD) R3967388-2 08/27/23 10:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	5.00	4.55	4.61	91.0	92.2	79.0-123			1.31	20
Hexachloro-1,3-butadiene	5.00	5.28	4.57	106	91.4	54.0-138			14.4	20
Isopropylbenzene	5.00	4.67	4.66	93.4	93.2	76.0-127			0.214	20
p-Isopropyltoluene	5.00	4.49	4.53	89.8	90.6	76.0-125			0.887	20
2-Butanone (MEK)	25.0	23.7	23.3	94.8	93.2	44.0-160			1.70	20
Methylene Chloride	5.00	5.15	4.89	103	97.8	67.0-120			5.18	20
4-Methyl-2-pentanone (MIBK)	25.0	24.3	25.1	97.2	100	68.0-142			3.24	20
Methyl tert-butyl ether	5.00	5.25	5.06	105	101	68.0-125			3.69	20
Naphthalene	5.00	4.33	3.80	86.6	76.0	54.0-135			13.0	20
n-Propylbenzene	5.00	4.48	4.64	89.6	92.8	77.0-124			3.51	20
Styrene	5.00	4.27	4.33	85.4	86.6	73.0-130			1.40	20
1,1,1,2-Tetrachloroethane	5.00	5.03	5.13	101	103	75.0-125			1.97	20
1,1,2,2-Tetrachloroethane	5.00	3.05	3.19	61.0	63.8	65.0-130	J4	J4	4.49	20
1,1,2-Trichlorotrifluoroethane	5.00	4.89	4.53	97.8	90.6	69.0-132			7.64	20
Tetrachloroethene	5.00	4.99	4.89	99.8	97.8	72.0-132			2.02	20
Toluene	5.00	4.73	4.85	94.6	97.0	79.0-120			2.51	20
1,2,3-Trichlorobenzene	5.00	4.72	4.31	94.4	86.2	50.0-138			9.08	20
1,2,4-Trichlorobenzene	5.00	4.66	3.94	93.2	78.8	57.0-137			16.7	20
1,1,1-Trichloroethane	5.00	5.23	5.15	105	103	73.0-124			1.54	20
1,1,2-Trichloroethane	5.00	4.69	4.86	93.8	97.2	80.0-120			3.56	20
Trichloroethene	5.00	6.27	5.84	125	117	78.0-124	J4		7.10	20
Trichlorofluoromethane	5.00	5.85	5.74	117	115	59.0-147			1.90	20
1,2,3-Trichloropropane	5.00	5.27	4.98	105	99.6	73.0-130			5.66	20
1,2,4-Trimethylbenzene	5.00	4.67	4.87	93.4	97.4	76.0-121			4.19	20
1,2,3-Trimethylbenzene	5.00	4.68	4.43	93.6	88.6	77.0-120			5.49	20
1,3,5-Trimethylbenzene	5.00	4.48	4.61	89.6	92.2	76.0-122			2.86	20
Vinyl chloride	5.00	4.43	4.38	88.6	87.6	67.0-131			1.14	20
Xylenes, Total	15.0	13.7	14.1	91.3	94.0	79.0-123			2.88	20
o-Xylene	5.00	4.56	4.61	91.2	92.2	80.0-122			1.09	20
m&p-Xylene	10.0	9.15	9.51	91.5	95.1	80.0-122			3.86	20
(S) Toluene-d8				*102*	*107*	*80.0-120*				
(S) 4-Bromofluorobenzene				*95.3*	*96.8*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*107*	*106*	*70.0-130*				

L1649552-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1649552-12 08/27/23 14:25 • (MS) R3967388-4 08/27/23 18:54 • (MSD) R3967388-5 08/27/23 19:14

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	U	24.6	24.0	98.4	96.0	1	10.0-160			2.47	35
Acrolein	25.0	U	19.9	19.7	79.6	78.8	1	10.0-160			1.01	39
Acrylonitrile	25.0	U	29.2	27.8	117	111	1	21.0-160			4.91	32
Benzene	5.00	U	6.21	6.21	124	124	1	17.0-158			0.000	27
Bromobenzene	5.00	U	5.83	6.36	117	127	1	30.0-149			8.70	28
Bromochloromethane	5.00	U	6.70	6.42	134	128	1	38.0-142			4.27	26
Bromodichloromethane	5.00	U	6.23	6.30	125	126	1	31.0-150			1.12	27
Bromoform	5.00	U	6.41	6.63	128	133	1	29.0-150			3.37	29
Bromomethane	5.00	U	2.33	2.53	46.6	50.6	1	10.0-160			8.23	38
n-Butylbenzene	5.00	U	5.69	5.99	114	120	1	31.0-150			5.14	30
sec-Butylbenzene	5.00	U	6.05	6.49	121	130	1	33.0-155			7.02	29
tert-Butylbenzene	5.00	U	6.00	6.44	120	129	1	34.0-153			7.07	28
Carbon disulfide	5.00	U	4.83	5.17	96.6	103	1	10.0-156			6.80	28
Carbon tetrachloride	5.00	U	6.71	6.86	134	137	1	23.0-159			2.21	28
Chlorobenzene	5.00	U	5.91	6.42	118	128	1	33.0-152			8.27	27
Chlorodibromomethane	5.00	U	5.75	6.15	115	123	1	37.0-149			6.72	27
Chloroethane	5.00	U	5.53	6.01	111	120	1	10.0-160			8.32	30
Chloroform	5.00	U	6.14	6.28	123	126	1	29.0-154			2.25	28
Chloromethane	5.00	U	4.89	4.96	97.8	99.2	1	10.0-160			1.42	29
2-Chlorotoluene	5.00	U	6.01	6.54	120	131	1	32.0-153			8.45	28
4-Chlorotoluene	5.00	U	5.71	6.07	114	121	1	32.0-150			6.11	28
1,2-Dibromo-3-Chloropropane	5.00	U	4.81	5.26	96.2	105	1	22.0-151			8.94	34
1,2-Dibromoethane	5.00	U	6.05	6.34	121	127	1	34.0-147			4.68	27
Dibromomethane	5.00	U	5.93	6.27	119	125	1	30.0-151			5.57	27
1,2-Dichlorobenzene	5.00	U	5.67	6.17	113	123	1	34.0-149			8.45	28
1,3-Dichlorobenzene	5.00	U	5.86	6.32	117	126	1	36.0-146			7.55	27
1,4-Dichlorobenzene	5.00	U	5.83	6.11	117	122	1	35.0-142			4.69	27
Dichlorodifluoromethane	5.00	U	5.80	6.41	116	128	1	10.0-160			9.99	29
1,1-Dichloroethane	5.00	U	5.76	5.82	115	116	1	25.0-158			1.04	27
1,2-Dichloroethane	5.00	U	5.95	5.97	119	119	1	29.0-151			0.336	27
1,1-Dichloroethene	5.00	U	5.57	6.05	111	121	1	11.0-160			8.26	29
cis-1,2-Dichloroethene	5.00	0.822	6.66	6.94	117	122	1	10.0-160			4.12	27
trans-1,2-Dichloroethene	5.00	U	5.77	5.81	115	116	1	17.0-153			0.691	27
1,2-Dichloropropane	5.00	U	6.06	6.24	121	125	1	30.0-156			2.93	27
1,1-Dichloropropene	5.00	U	6.09	6.31	122	126	1	25.0-158			3.55	27
1,3-Dichloropropane	5.00	U	6.24	6.45	125	129	1	38.0-147			3.31	27
cis-1,3-Dichloropropene	5.00	U	5.89	5.89	118	118	1	34.0-149			0.000	28
trans-1,3-Dichloropropene	5.00	U	5.97	6.19	119	124	1	32.0-149			3.62	28
2,2-Dichloropropane	5.00	U	6.00	6.11	120	122	1	24.0-152			1.82	29
Di-isopropyl ether	5.00	U	5.94	5.93	119	119	1	21.0-160			0.168	28

L1649552-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1649552-12 08/27/23 14:25 • (MS) R3967388-4 08/27/23 18:54 • (MSD) R3967388-5 08/27/23 19:14

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	5.00	U	5.83	6.16	117	123	1	30.0-155			5.50	27
Hexachloro-1,3-butadiene	5.00	U	5.64	6.31	113	126	1	20.0-154			11.2	34
Isopropylbenzene	5.00	U	6.03	6.27	121	125	1	28.0-157			3.90	27
p-Isopropyltoluene	5.00	U	5.86	6.21	117	124	1	30.0-154			5.80	29
2-Butanone (MEK)	25.0	U	28.6	27.8	114	111	1	10.0-160			2.84	32
Methylene Chloride	5.00	U	5.76	5.97	115	119	1	23.0-144			3.58	28
4-Methyl-2-pentanone (MIBK)	25.0	U	31.3	31.3	125	125	1	29.0-160			0.000	29
Methyl tert-butyl ether	5.00	U	6.09	6.18	122	124	1	28.0-150			1.47	29
Naphthalene	5.00	U	4.73	4.81	94.6	96.2	1	12.0-156			1.68	35
n-Propylbenzene	5.00	U	5.76	6.29	115	126	1	31.0-154			8.80	28
Styrene	5.00	U	5.64	5.82	113	116	1	33.0-155			3.14	28
1,1,1,2-Tetrachloroethane	5.00	U	6.29	6.41	126	128	1	36.0-151			1.89	29
1,1,2,2-Tetrachloroethane	5.00	U	5.98	6.59	120	132	1	33.0-150			9.71	28
1,1,2-Trichlorotrifluoroethane	5.00	U	6.35	6.73	127	135	1	23.0-160			5.81	30
Tetrachloroethene	5.00	U	6.21	6.43	124	129	1	10.0-160			3.48	27
Toluene	5.00	U	5.97	6.25	119	125	1	26.0-154			4.58	28
1,2,3-Trichlorobenzene	5.00	U	5.24	5.36	105	107	1	17.0-150			2.26	36
1,2,4-Trichlorobenzene	5.00	U	5.07	5.32	101	106	1	24.0-150			4.81	33
1,1,1-Trichloroethane	5.00	U	6.48	6.70	130	134	1	23.0-160			3.34	28
1,1,2-Trichloroethane	5.00	U	6.15	6.54	123	131	1	35.0-147			6.15	27
Trichloroethene	5.00	U	5.82	6.21	116	124	1	10.0-160			6.48	25
Trichlorofluoromethane	5.00	U	6.85	7.20	137	144	1	17.0-160			4.98	31
1,2,3-Trichloropropane	5.00	U	6.11	6.29	122	126	1	34.0-151			2.90	29
1,2,4-Trimethylbenzene	5.00	U	5.81	6.21	116	124	1	26.0-154			6.66	27
1,2,3-Trimethylbenzene	5.00	U	5.64	6.11	113	122	1	32.0-149			8.00	28
1,3,5-Trimethylbenzene	5.00	U	5.81	6.08	116	122	1	28.0-153			4.54	27
Vinyl chloride	5.00	U	5.27	5.53	105	111	1	10.0-160			4.81	27
Xylenes, Total	15.0	U	17.9	18.9	119	126	1	29.0-154			5.43	28
o-Xylene	5.00	U	5.91	6.25	118	125	1	45.0-144			5.59	26
m&p-Xylene	10.0	U	12.0	12.6	120	126	1	43.0-146			4.88	26
(S) Toluene-d8					*105*	*105*		*80.0-120*				
(S) 4-Bromofluorobenzene					*99.8*	*99.2*		*77.0-126*				
(S) 1,2-Dichloroethane-d4					*104*	*99.6*		*70.0-130*				

Method Blank (MB)

(MB) R3968245-3 08/31/23 11:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Trichloroethene	U		0.190	1.00
(S) Toluene-d8	*120*			*80.0-120*
(S) 4-Bromofluorobenzene	*104*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3968245-1 08/31/23 10:47 • (LCSD) R3968245-2 08/31/23 11:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Trichloroethene	5.00	4.52	4.51	90.4	90.2	78.0-124			0.221	20
(S) Toluene-d8				*114*	*115*	*80.0-120*				
(S) 4-Bromofluorobenzene				*102*	*101*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*118*	*112*	*70.0-130*				

Method Blank (MB)

(MB) R3967935-2 08/31/23 13:07

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,2,3-Trichloropropane	U		0.00200	0.00500
1,2-Dibromoethane	U		0.00410	0.00500

Laboratory Control Sample (LCS)

(LCS) R3967935-1 08/31/23 12:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,3-Trichloropropane	0.0500	0.0510	102	70.0-130	
1,2-Dibromoethane	0.0500	0.0470	94.0	70.0-130	

L1649472-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1649472-08 08/31/23 13:31 • (MS) R3967935-3 08/31/23 14:42 • (MSD) R3967935-4 08/31/23 15:06

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2,3-Trichloropropane	5.00	U	5.50	5.40	110	108	100	70.0-130			1.83	20
1,2-Dibromoethane	5.00	U	5.10	4.60	102	92.0	100	70.0-130			10.3	20

Sample Narrative:

OS: Non-target compounds too high to run at a lower dilution.

Method Blank (MB)

(MB) R3968242-2 08/31/23 22:54

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromochloromethane	U		0.128	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00

Method Blank (MB)

(MB) R3968242-2 08/31/23 22:54

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	1.00
Hexachloro-1,3-butadiene	U		0.337	1.00
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	1.00
1,2,3-Trimethylbenzene	U		0.104	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
o-Xylene	U		0.174	1.00
m&p-Xylene	U		0.430	2.00
(S) Toluene-d8	*114*			*80.0-120*
(S) 4-Bromofluorobenzene	*114*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3968242-1 08/31/23 22:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	26.9	108	19.0-160	
Acrolein	25.0	7.18	28.7	10.0-160	
Acrylonitrile	25.0	27.2	109	55.0-149	
Benzene	5.00	5.26	105	70.0-123	
Bromobenzene	5.00	5.16	103	73.0-121	
Bromochloromethane	5.00	5.11	102	76.0-122	
Bromodichloromethane	5.00	5.43	109	75.0-120	
Bromoform	5.00	4.13	82.6	68.0-132	
Bromomethane	5.00	3.87	77.4	10.0-160	
n-Butylbenzene	5.00	4.27	85.4	73.0-125	
sec-Butylbenzene	5.00	5.19	104	75.0-125	
tert-Butylbenzene	5.00	5.14	103	76.0-124	
Carbon disulfide	5.00	4.92	98.4	61.0-128	
Carbon tetrachloride	5.00	5.03	101	68.0-126	
Chlorobenzene	5.00	4.68	93.6	80.0-121	
Chlorodibromomethane	5.00	4.70	94.0	77.0-125	
Chloroethane	5.00	5.55	111	47.0-150	
Chloroform	5.00	5.11	102	73.0-120	
Chloromethane	5.00	6.75	135	41.0-142	
2-Chlorotoluene	5.00	5.61	112	76.0-123	
4-Chlorotoluene	5.00	5.39	108	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	4.24	84.8	58.0-134	
1,2-Dibromoethane	5.00	4.53	90.6	80.0-122	
Dibromomethane	5.00	5.26	105	80.0-120	
1,2-Dichlorobenzene	5.00	4.86	97.2	79.0-121	
1,3-Dichlorobenzene	5.00	5.03	101	79.0-120	
1,4-Dichlorobenzene	5.00	4.90	98.0	79.0-120	
Dichlorodifluoromethane	5.00	6.47	129	51.0-149	
1,1-Dichloroethane	5.00	5.63	113	70.0-126	
1,2-Dichloroethane	5.00	5.55	111	70.0-128	
1,1-Dichloroethene	5.00	5.08	102	71.0-124	
cis-1,2-Dichloroethene	5.00	5.47	109	73.0-120	
trans-1,2-Dichloroethene	5.00	5.46	109	73.0-120	
1,2-Dichloropropane	5.00	5.64	113	77.0-125	
1,1-Dichloropropene	5.00	5.66	113	74.0-126	
1,3-Dichloropropane	5.00	5.08	102	80.0-120	
cis-1,3-Dichloropropene	5.00	5.47	109	80.0-123	
trans-1,3-Dichloropropene	5.00	4.84	96.8	78.0-124	
2,2-Dichloropropane	5.00	5.16	103	58.0-130	
Di-isopropyl ether	5.00	6.16	123	58.0-138	

Laboratory Control Sample (LCS)

(LCS) R3968242-1 08/31/23 22:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	5.00	4.80	96.0	79.0-123	
Hexachloro-1,3-butadiene	5.00	4.92	98.4	54.0-138	
Isopropylbenzene	5.00	4.69	93.8	76.0-127	
p-Isopropyltoluene	5.00	5.18	104	76.0-125	
2-Butanone (MEK)	25.0	26.6	106	44.0-160	
Methylene Chloride	5.00	5.26	105	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	25.7	103	68.0-142	
Methyl tert-butyl ether	5.00	5.50	110	68.0-125	
Naphthalene	5.00	4.20	84.0	54.0-135	
n-Propylbenzene	5.00	5.23	105	77.0-124	
Styrene	5.00	4.41	88.2	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	4.46	89.2	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	4.94	98.8	65.0-130	
1,1,2-Trichlorotrifluoroethane	5.00	5.16	103	69.0-132	
Tetrachloroethene	5.00	4.73	94.6	72.0-132	
Toluene	5.00	4.91	98.2	79.0-120	
1,2,3-Trichlorobenzene	5.00	4.98	99.6	50.0-138	
1,2,4-Trichlorobenzene	5.00	4.80	96.0	57.0-137	
1,1,1-Trichloroethane	5.00	5.31	106	73.0-124	
1,1,2-Trichloroethane	5.00	4.90	98.0	80.0-120	
Trichloroethene	5.00	4.87	97.4	78.0-124	
Trichlorofluoromethane	5.00	5.38	108	59.0-147	
1,2,3-Trichloropropane	5.00	5.00	100	73.0-130	
1,2,4-Trimethylbenzene	5.00	5.16	103	76.0-121	
1,2,3-Trimethylbenzene	5.00	5.09	102	77.0-120	
1,3,5-Trimethylbenzene	5.00	5.41	108	76.0-122	
Vinyl chloride	5.00	5.79	116	67.0-131	
Xylenes, Total	15.0	14.3	95.3	79.0-123	
o-Xylene	5.00	4.76	95.2	80.0-122	
m&p-Xylene	10.0	9.56	95.6	80.0-122	
(S) Toluene-d8			*111*	*80.0-120*	
(S) 4-Bromofluorobenzene			*111*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*111*	*70.0-130*	

Method Blank (MB)

(MB) R3968544-1 09/01/23 11:50

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
AK102 DRO C10-C25	U		170	800
(S) o-Terphenyl	*94.5*			*60.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3968544-2 09/01/23 12:11 • (LCSD) R3968544-3 09/01/23 12:32

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
AK102 DRO C10-C25	6000	5180	6100	86.3	102	75.0-125			16.3	20
(S) o-Terphenyl				*74.9*	*63.3*	*60.0-120*				

L1649469-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1649469-02 09/01/23 13:13 • (MS) R3968544-4 09/01/23 13:34 • (MSD) R3968544-5 09/01/23 13:55

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
AK102 DRO C10-C25	6000	481	5190	5360	78.5	81.3	1	75.0-125			3.22	20
(S) o-Terphenyl					*55.9*	*59.8*		*50.0-150*				

L1649472-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1649472-08 09/01/23 17:43 • (MS) R3968544-6 09/01/23 18:04 • (MSD) R3968544-7 09/01/23 18:25

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
AK102 DRO C10-C25	6000	260	4830	4460	76.2	70.0	1	75.0-125		J6	7.97	20
(S) o-Terphenyl					*53.2*	*48.7*		*50.0-150*		J2		

Method Blank (MB)

(MB) R3966232-2 08/26/23 13:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Anthracene	U		0.0190	0.0500
Acenaphthene	U		0.0190	0.0500
Acenaphthylene	U		0.0170	0.0500
Benzo(a)anthracene	U		0.0200	0.0500
Benzo(a)pyrene	U		0.0180	0.0500
Benzo(b)fluoranthene	U		0.0170	0.0500
Benzo(g,h,i)perylene	U		0.0180	0.0500
Benzo(k)fluoranthene	U		0.0200	0.250
Chrysene	U		0.0180	0.0500
Dibenz(a,h)anthracene	U		0.0180	0.0500
Fluoranthene	U		0.0110	0.0500
Fluorene	U		0.0170	0.0500
Indeno(1,2,3-cd)pyrene	U		0.0180	0.0500
Naphthalene	U		0.128	0.500
Phenanthrene	U		0.0180	0.0500
Pyrene	U		0.0170	0.0500
1-Methylnaphthalene	U		0.0200	0.500
2-Methylnaphthalene	U		0.0280	0.500
2-Chloronaphthalene	U		0.0120	0.500
(S) Nitrobenzene-d5	*55.5*			*11.0-135*
(S) 2-Fluorobiphenyl	*63.0*			*32.0-120*
(S) p-Terphenyl-d14	*67.0*			*23.0-122*

Laboratory Control Sample (LCS)

(LCS) R3966232-1 08/26/23 13:07

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	2.00	1.18	59.0	43.0-127	
Acenaphthene	2.00	1.24	62.0	42.0-120	
Acenaphthylene	2.00	1.23	61.5	43.0-120	
Benzo(a)anthracene	2.00	1.39	69.5	46.0-120	
Benzo(a)pyrene	2.00	1.15	57.5	44.0-122	
Benzo(b)fluoranthene	2.00	1.17	58.5	43.0-122	
Benzo(g,h,i)perylene	2.00	1.07	53.5	25.0-137	
Benzo(k)fluoranthene	2.00	1.16	58.0	39.0-128	
Chrysene	2.00	1.47	73.5	42.0-129	
Dibenz(a,h)anthracene	2.00	1.08	54.0	25.0-139	
Fluoranthene	2.00	1.37	68.5	48.0-131	

Laboratory Control Sample (LCS)

(LCS) R3966232-1 08/26/23 13:07

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	2.00	1.33	66.5	42.0-120	
Indeno(1,2,3-cd)pyrene	2.00	1.20	60.0	37.0-133	
Naphthalene	2.00	1.05	52.5	30.0-120	
Phenanthrene	2.00	1.25	62.5	42.0-120	
Pyrene	2.00	1.19	59.5	38.0-124	
1-Methylnaphthalene	2.00	1.14	57.0	43.0-120	
2-Methylnaphthalene	2.00	1.18	59.0	40.0-120	
2-Chloronaphthalene	2.00	1.33	66.5	39.0-120	
(S) Nitrobenzene-d5			*53.0*	*11.0-135*	
(S) 2-Fluorobiphenyl			*61.5*	*32.0-120*	
(S) p-Terphenyl-d14			*62.0*	*23.0-122*	

L1649472-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1649472-08 08/26/23 18:29 • (MS) R3966232-3 08/26/23 18:48 • (MSD) R3966232-4 08/26/23 19:08

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	2.00	U	1.13	0.734	56.5	36.7	1	28.0-120		J3	42.5	25
Acenaphthene	2.00	U	1.16	0.746	58.0	37.3	1	16.0-120		J3	43.4	25
Acenaphthylene	2.00	U	1.12	0.717	56.0	35.8	1	16.0-121		J3	43.9	26
Benzo(a)anthracene	2.00	U	1.21	0.915	60.5	45.7	1	19.0-125		J3	27.8	26
Benzo(a)pyrene	2.00	U	0.824	0.639	41.2	31.9	1	10.0-126			25.3	32
Benzo(b)fluoranthene	2.00	U	0.842	0.646	42.1	32.3	1	10.0-125			26.3	36
Benzo(g,h,i)perylene	2.00	U	0.567	0.482	28.3	24.1	1	10.0-128			16.2	37
Benzo(k)fluoranthene	2.00	U	0.825	0.627	41.2	31.3	1	10.0-124			27.3	32
Chrysene	2.00	U	1.31	0.978	65.5	48.9	1	18.0-127		J3	29.0	26
Dibenz(a,h)anthracene	2.00	U	0.515	0.458	25.8	22.9	1	10.0-132			11.7	43
Fluoranthene	2.00	0.0121	1.29	0.897	63.9	44.2	1	37.0-122		J3	35.9	23
Fluorene	2.00	U	1.29	0.814	64.5	40.7	1	20.0-120		J3	45.2	26
Indeno(1,2,3-cd)pyrene	2.00	U	0.588	0.500	29.4	25.0	1	10.0-130			16.2	38
Naphthalene	2.00	4.23	5.19	2.89	48.0	0.000	1	14.0-120		J3 J6	56.9	20
Phenanthrene	2.00	U	1.20	0.794	60.0	39.7	1	26.0-120		J3	40.7	24
Pyrene	2.00	U	1.15	0.787	57.5	39.3	1	29.0-120		J3	37.5	24
1-Methylnaphthalene	2.00	0.218	1.26	0.785	52.1	28.3	1	10.0-145		J3	46.5	24
2-Methylnaphthalene	2.00	0.250	1.31	0.825	53.0	28.7	1	10.0-143		J3	45.4	24
2-Chloronaphthalene	2.00	U	1.25	0.802	62.5	40.1	1	16.0-120		J3	43.7	25
(S) Nitrobenzene-d5					*48.7*	*31.6*		*11.0-135*				
(S) 2-Fluorobiphenyl					*58.0*	*37.6*		*32.0-120*				
(S) p-Terphenyl-d14					*55.5*	*40.7*		*23.0-122*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
Q	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.

GLOSSARY OF TERMS

Qualifier	Description
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Arcadis - Chevron - AK

880 H St.
Anchorage, AK 99501

Billing Information:
Attn: Acounts Payable
630 Plaza Dr Ste 600
Highlands Ranch, CO 80129

Pres Chk

Report to:
Skip Robinson

Email To:
Alaura.Gonzalez@arcadis.com;Sydney.kunze@a

Project Description:
306450

City/State Collected: Anchorage, AK

Please Circle: PT MT CT ET (AK)

Phone: **907-276-8095**

Client Project #
30064225.19.45

Lab Project #
CHEVARCAK-306450

Collected by (print):
E. Wujcik

Site/Facility ID #
4351 W. ITNL AIRPORT RD

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day X 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	AK101 40mlAmb HCl	AK102 100ml Amb HCl	EDB/123TCP VS24LL 40mlAmb-HCl	PAHs 8270SIM 100ml Amb-NoPres	Total Lead 6010 250mlHDPE-HNO3	VOCs 8260 40mlAmb-HCl				Remarks	Sample # (lab only)
MW-10-W-20230822	Grab	GW	—	8.22.23	0700	14	X	X	X	X	X	X					-01
MW-9-W-20230822		GW	—		0800	14	X	X	X	X	X	X					-02
MW-5A-W-20230822		GW	—		0900	14	X	X	X	X	X	X					-03
MW-11-W-20230822		GW	—		1000	14	X	X	X	X	X	X					-04
MW-12-W-20230822		GW	—		1100	14	X	X	X	X	X	X					-05
MW-13-W-20230822		GW	—		1200	14	X	X	X	X	X	X					-06
RW-14-W-20230822		GW	—		1300	14	X	X	X	X	X	X					-07
MW-5-W-20230822		GW	—		1400	42	X	X	X	X	X	X				MS/MSD	-08
MW-7-W-20230822		GW	—		1500	14	X	X	X	X	X	X					-09
MW-7A-W-20230822		GW	—		1600	14	X	X	X	X	X	X					-10

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 16494-72

C238

Acctnum: **CHEVARCAK**
Template: **T234814**
Prelogin: **P1014658**
PM: **110 - Brian Ford**
PB: NG 8/11/23

Shipped Via:

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS X FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y / N
COC Signed/Accurate:		Y / N
Bottles arrive intact:		Y / N
Correct bottles used:		Y / N
Sufficient volume sent:		Y / N
If Applicable		
VOA Zero Headspace:		Y / N
Preservation Correct/Checked:		Y / N
RAD Screen <0.5 mR/hr:		Y / N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	8.23.23	0800		12	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 196	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Alexa Mitchell	Date: 8/24/23 Time: 0900	Hold: Condition: NCF / OK

Company Name/Address:
Arcadis - Chevron - AK

880 H St.
Anchorage, AK 99501

Billing Information:
Attn: Acounts Payable
630 Plaza Dr Ste 600
Highlands Ranch, CO 80129

Pres Chk

Report to:
Skip Robinson

Email To:
Alaura.Gonzalez@arcadis.com;Sydney.kunze@a

Project Description:
306450

City/State Collected: Anchorage, AK

Please Circle: PT MT CT ET (AK)

Phone: **907-276-8095**

Client Project #
30064225.19.45

Lab Project #
CHEVARCAK-306450

Collected by (print):
E. Wyatt

Site/Facility ID #
4351 W. ITNL AIRPORT RD

P.O. #

Collected by (signature):
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
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Date Results Needed

Quote #

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	AK101 40mlAmb HCl	AK102 100ml Amb HCl	EDB/123TCP V524LL 40mlAmb-HCl	PAHs 8270SIM 100ml Amb-NoPres	Total Lead 6010 250mlHDPE-HNO3	VOCs 8260 40mlAmb-HCl					Remarks	Sample # (lab only)
BP-1-W-20230822	Grab	GW	-	8.22.23	-	14	X	X	X	X	X	X						-11
EQB-1-W-20230822	↓	GW	-	↓	1630	14	X	X	X	X	X	X						-12
Trip Blank 1	-	GW	-	-	-	4	X		X			X						-13
Trip Blank 2	-	GW	-	-	-	4	X		X			X						-14
Trip Blank 3	-	GW	-	-	-	4	X		X			X						-15

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 164972

Table #

Acctnum: **CHEVARCAK**
Template: **T234814**
Prelogin: **P1014658**
PM: **110 - Brian Ford**
PB: NG 8/11/23

Shipped Via:

Remarks | Sample # (lab only)

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
~~**WW** - WasteWater~~
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS X FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: Y __N
Preservation Correct/Checked: Y __N
RAD Screen <0.5 mR/hr: Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	8.23.23	0800		12	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 196	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) alexa mitchell	Date: 8/24/23 Time: 0900	Hold: Condition: NCF / OK

L1649472

Tracking Numbers	Temperature
6426 8303 9510	1.7+0=1.7
6426 8303 9543	2.4+0=2.4
6357 9924 6551	.3+0=.3

Attachment C

Historical Groundwater Analytical Results – Third Quarter 2001 through 2022

Table 1. Historical Groundwater Gauging and Analytical Results
Third Quarter 2001 to Current
Chevron Facility 306450
4351 Old International Airport Road
Anchorage, Alaska

Well ID	Sample Date	Screen Interval (ft bTOC)	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (feet)	GW Elev (ft)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-d w/si (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Comments
ADEC Groundwater Cleanup Levels							**2,200**	**1,500**	**1,500**	**4.6**	**1,100**	**15**	**190**	**140**	**1.7**	
MW-5	3/4/2001	--	76.74	44.42	--	32.32	**4,660 / 4,900**	--	--	**104 / 100**	**394 / 376**	**360 / 338**	**1,540 / 1,430**	--	--	
MW-5	4/21/2001	--	76.74	44.50	--	32.24	--	--	--	--	--	--	--	--	--	
MW-5	5/30/2001	--	76.74	44.79	--	31.95	--	--	--	--	--	--	--	--	--	
MW-5	6/27/2001	--	76.74	45.75	--	30.99	**5,220**	--	--	**112**	**371**	**355**	**1,450**	--	--	
MW-5	9/26/2001	--	76.74	45.07	--	31.67	**2,420**	--	--	**89.5**	**20**	**174**	**520**	--	--	
MW-5	12/9/2001	--	76.74	44.96	--	31.78	**2,980**	--	--	**65.4**	**209**	**280**	**1,170**	--	--	
MW-5	3/18/2002	--	76.74	45.46	--	31.28	**5,040**	--	--	**74.3**	**243**	**402**	**1,560**	--	--	
MW-5	6/24/2002	--	76.74	45.49	--	31.25	**4,240**	--	--	**87.3**	**226**	**361**	**1,500**	--	--	
MW-5	3/27/2003	--	76.74	--	--	--	**5,200**	--	--	**63**	**300**	**143**	**1,200**	--	--	
MW-5	6/10/2003	--	76.74	--	--	--	**4,000**	--	--	**75**	**353**	**195**	**1,420**	--	--	
MW-5	9/6/2003	--	76.74	--	--	--	**5,600**	--	--	**97**	**419**	**171**	**1,520**	--	--	
MW-5	11/29/2003	--	76.74	46.40	--	30.34	**870**	--	--	**65**	**48**	**30**	**150**	--	--	
MW-5	3/22/2004	--	76.74	46.40	--	30.34	--	--	--	--	--	--	--	--	--	
MW-5	6/29/2004	--	76.74	45.86	--	30.88	--	--	--	**8.0**	**4.4**	**34**	**110**	--	--	
MW-5	12/28/2004	--	76.74	45.21	--	31.53	**1,100**	--	--	**30**	**16**	**77**	**206**	--	--	
MW-5	6/30/2005	--	76.74	46.05	--	30.69	**790**	--	--	**42**	**6.3**	**82**	**139**	--	--	
MW-5	12/27/2005	--	76.74	45.79	--	30.95	--	--	--	--	--	--	--	--	--	
MW-5	6/30/2006	--	76.74	46.36	--	30.38	**1,240**	--	--	**44.2**	**9.34**	**147**	**215**	--	--	
MW-5	4/30/2007	--	76.74	43.92	--	32.82	--	--	--	--	--	--	--	--	--	
MW-5	8/31/2007	--	76.74	46.03	--	30.71	**3,900**[1]	--	--	**200**	**100**	**200**	**700**	<50[1,2]	--	
MW-5	8/20/2008	--	83.03	45.40	--	37.63	**2,200**	**140**	--	**200**	**400**	**90**	**200**	--	--	
MW-5	12/9/2008	--	83.03	44.19	--	38.84	--	--	--	--	--	--	--	--	--	
MW-5	3/18/2009	--	83.03	44.46	--	38.57	**2,400/2,400**	**320/830**	--	**250/250**	**260/260**	**110/110**	**260/260**	<10/<10	--	
MW-5	6/4/2009	--	83.03	44.83	--	38.20	--	--	--	--	--	--	--	--	--	
MW-5	9/2/2009	--	83.03	45.85	--	37.18	**3,900/3,700**	--	--	**350/330**	**840/790**	**120/110**	**400/370**	--	--	
MW-5	12/8/2009	--	83.03	45.55	--	37.48	--	--	--	--	--	--	--	--	--	
MW-5	5/17/2010	--	83.03	43.60	--	39.43	**3,600/3,300**	**78/63**	--	**340/340**	**580/670**	**99/90**	**270/240**	--	--	
MW-5	8/24/2010	--	83.03	45.80	--	37.23	**3,300**	**180**	--	**290**	**390**	**110**	**340**	--	--	
MW-5	4/26/2011	--	83.03	45.44	--	37.59	**2,500**	**150**	--	**250**	**170**	**150**	**360**	--	--	
MW-5	9/20/2011	--	83.03	45.29	--	37.74	**3,200**	--	--	**330**	**630**	**110**	**310**	--	--	
MW-5	9/20/2011	--	83.03	45.29	--	37.74	**3,100**	--	--	**320**	**620**	**100**	**290**	--	--	Duplicate
MW-5	5/18/2012	--	83.03	45.27	--	37.76	**4,400**	**190**	<49	**280**	**760**	**150**	**440**	--	--	
MW-5	5/18/2012	--	83.03	45.27	--	37.76	**4,400**	--	--	**280**	**740**	**150**	**430**	--	--	Duplicate
MW-5	9/17/2012	--	83.03	45.30	--	37.73	**2,500**	**330**	**95**	**210**	**370**	**140**	**230**	--	--	
MW-5	4/29/2013	--	83.03	44.64	--	38.39	<100	**1,000**	<620	<1.0	**<1.0**	**1.4**	<3.0	--	--	
MW-5	9/17/2013	--	83.03	44.59	--	38.44	**251**	**<410**	--	**19.3**	**27.1**	**10.7**	**38.4**	--	--	
MW-5	4/28/2014	--	83.03	43.42	--	39.61	**7,070**	**<260**	--	**247**	**1,450**	**193**	**703**	--	--	
MW-5	9/4/2014	--	83.03	45.15	--	37.88	**14,700**	**<400**	--	**345**	**2,560**	**195**	**737**	--	--	
MW-5	9/4/2014	--	83.03	45.15	--	37.88	**15,500**	**<400**	--	**347**	**2,400**	**226**	**682**	--	--	Duplicate
MW-5	4/14/2015	--	83.03	44.59	--	38.44	<100	**1,100**	--	<1.0	<1.0	<1.0	<3.0	--	--	
MW-5	4/14/2015	--	83.03	44.59	--	38.44	<100	**1,000**	--	<1.0	<1.0	<1.0	<3.0	--	--	Duplicate
MW-5	9/2/2015	--	83.03	47.25	--	35.78	**2,560**	<400	--	**155**	**206**	**122**	**259**	--	--	
MW-5	4/12/2016	--	83.03	45.65	--	37.38	**180**	**600**	--	**1.0**	**13**	**13**	**34**	--	--	
MW-5	9/15/2016	--	83.03	46.36	--	36.67	**2,600**	**240**	--	**130**	**290**	**130**	**330**	--	--	
MW-5	5/10/2017	--	83.03	46.20	--	36.83	**130**	**900**	--	<0.5	**<0.5**	**0.6**	**0.9**	--	--	
MW-5	9/11/2017	--	83.03	46.71	--	36.32	**1,000**	**130**	--	**35**	**4.0**	**150**	**29**	--	--	
MW-5	4/6/2018	--	83.03	45.43	--	37.60	**1,300 J**	**<150**	--	**15**	**11 J**	**110 J**	**110 J**	--	--	
MW-5	4/6/2018	--	83.03	45.43	--	37.60	**900 J**	**130 J**	--	**12**	**8 J**	**69 J**	**64 J**	--	--	Duplicate
MW-5	10/24/2018	--	83.03	46.07	--	36.96	**210 J**	**660**	--	**2 J**	**2 J**	**13 J**	**14 J**	--	--	
MW-5	4/19/2019	--	83.11	46.67	--	36.44	**3,500 [2,800]**	**<290 BJ [<260 B]**	**--**	**13 J [20 J]**	**10 J [15 J]**	**110 J [170 J]**	**170 J [260 J]**	**170 J**	--	
MW-5	9/18/2019	--	83.11	47.44	--	35.67	**2,900**	**390**	**--**	**51**	**30**	**340 D**	**609 D**	**--**	--	
MW-5	4/9/2020	--	83.11	46.38	0.00	36.73	**877**	**328 J**	--	**16.8**	**6.28**	**39.9**	**97.4**	<1.00	**1.16 J**	
MW-5	10/7/2020	--	83.11	46.86	0.00	36.25	**1,700**	**318 J**	--	**32.1**	**15.7**	**188**	**325**	<1.00	**3.63 J**	
MW-5	9/7/2021	--	83.11	47.46	0.00	35.65	**2,180 [2,180]**	<895 B [<834 B]	**43.2 [45.8]**	**18.5 [20.4]**	**302 J [140 J]**	**493 J [220 J]**	<1.00 [<1.00]	**5.19 [6.51]**	**).00519 [0.00651]**	
MW-5	4/12/2022	--	83.11	39.52	0.00	43.59	**2,190 [2,360]**	**561 J [545 J]**		**49.2 [51.8]**	**16.5 [19]**	**226 [265]**	**249 [310]**	<5.00 [<10.0]	**5.26 J [<50.0]**	

Table 1. Historical Groundwater Gauging and Analytical Results
Third Quarter 2001 to Current
Chevron Facility 306450
4351 Old International Airport Road
Anchorage, Alaska

Well ID	Sample Date	Screen Interval (ft bTOC)	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (feet)	GW Elev (ft)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-d w/si (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Comments
ADEC Groundwater Cleanup Levels							**2,200**	**1,500**	**1,500**	**4.6**	**1,100**	**15**	**190**	**140**	**1.7**	
MW-5A	3/4/2001	--	76.26	30.51	--	45.75	**1,180**	--	--	**4.87**	**17.6**	**44.4**	**354**	--	--	
MW-5A	4/21/2001	--	76.26	30.90	--	45.36	--	--	--	--	--	--	--	--	--	
MW-5A	5/30/2001	--	76.26	31.46	--	44.80	--	--	--	--	--	--	--	--	--	
MW-5A	6/27/2001	--	76.26	31.95	--	48.70	**410**	--	--	**1.95**	**3.04**	**9.88**	**88.1**	--	--	
MW-5A	9/26/2001	--	76.26	33.19	--	43.07	**830**	--	--	**2.6**	**16.3**	**38.9**	**215**	--	--	
MW-5A	12/9/2001	--	76.26	33.80	--	42.46	--	--	--	**2.9**	**31**	**28.3**	**216**	--	--	
MW-5A	3/18/2002	--	76.26		--	76.26	--	--	--	--	--	--	--	--	--	
MW-5A	6/24/2002	--	76.26	35.35	--	40.91	--	--	--	**2.4**	**184**	**25.9**	**184**	--	--	
MW-5A	6/10/2003	--	76.26	--	--	--	--	--	--	**51**	**70**	**226**	**1,020**	--	--	
MW-5A	11/29/2003	--	76.26	37.00	--	39.26	--	--	--	**33**	**30**	**63**	**358**	--	--	
MW-5A	3/22/2004	--	76.26	36.80	--	39.46	--	--	--	--	--	--	--	--	--	
MW-5A	6/29/2004	--	76.26	36.98	--	39.28	--	--	--	<0.5	<0.5	<0.5	**2.7**	--	--	
MW-5A	12/28/2004	--	76.26	34.03	--	42.23	--	--	--	**0.92/1.0**	**21/21**	**17/17**	**118/119**	--	--	
MW-5A	6/30/2005	--	76.26	32.65	--	43.61	--	--	--	<0.5	<0.5	0.54	6.7	--	--	
MW-5A	12/27/2005	--	76.26	32.70	--	43.56	--	--	--	--	--	--	--	--	--	
MW-5A	6/30/2006	--	76.26	37.11	--	39.15	--	--	--	<0.5	**2.67**	**8.47**	**80.7**	--	--	
MW-5A	4/30/2007	--	76.26	35.94	--	40.32	--	--	--	--	--	--	--	--	--	
MW-5A	8/31/2007	--	76.26	36.92	--	39.34	--	--	--	**60**	**1,800**	**2,100**	**17,000**	<30[3]	--	
MW-5A	8/15/2008	--	82.93	37.89	37.78	45.13	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-5A	12/9/2008	--	82.93	37.50	37.44	75.38	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-5A	3/18/2009	--	82.93	36.91	36.90	75.54	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-5A	6/4/2009	--	82.93	37.40	--	45.53	--	--	--	--	--	--	--	--	--	
MW-5A	9/2/2009	--	82.93	38.01	--	44.92	--	--	--	**6.7**	**32**	**17**	**1,600**	--	--	
MW-5A	12/8/2009	--	82.93	38.31	--	44.62	--	--	--	--	--	--	--	--	--	
MW-5A	5/17/2010	--	82.93	37.60	--	45.33	**670**	**3,600**	--	**0.8**	**9**	**2**	**120**	--	--	
MW-5A	5/20/2010	--	--	--	--	--	**230,000**	**120,000**	--	<2,500	<2,500	<2,500	<7,500	--	--	Sampling performed for post-surfactant injection monitoring.
MW-5A	5/21/2010	--	--	--	--	--	**200,000**	**170,000**	--	<500	<500	<500	<1,500	--	--	Sampling performed for post-surfactant injection monitoring.
MW-5A	5/27/2010	--	--	--	--	--	**49,000**	**40,000**	--	<250	<250	<250	**1,400**	--	--	Sampling performed for post-surfactant injection monitoring.
MW-5A	6/3/2010	--	--	--	--	--	**48,000**	**32,000**	--	<250	<250	<250	**1,600**	--	--	Sampling performed for post-surfactant injection monitoring.
MW-5A	6/25/2010	--	--	--	--	--	**21,000**	**37,000**	--	<250	<250	<250	**1,200**	--	--	Sampling performed for post-surfactant injection monitoring.
MW-5A	7/1/2010	--	--	--	--	--	**23,000/130,000**	**50,000/28,000**	--	**30/830**	**180/270,000**	**53/3,000**	**1,500/16,000**	--	--	Sampling performed for post-surfactant injection monitoring.
MW-5A	7/29/2010	--	82.93	38.59	--	44.34	<10,000	25,000	--	<5,000	<5,000	<5,000	<1,500	--	--	Sampling performed for post-surfactant injection monitoring.
MW-5A	8/25/2010	--	82.93	38.79	--	44.14	**5,400**	**8,300**	--	**41**	**200**	**60**	**1,400**	--	--	
MW-5A	10/19/2010	--	82.93	38.35	--	44.58	**2,100/3,000**	**12,000/14,000**	--	<25/<10	<25/13	<25/16	**320/340**	--	--	Sampling performed for post-surfactant injection monitoring.
MW-5A	4/26/2011	--	82.93	38.31	--	44.62	--	--	--	--	--	--	--	--	--	
MW-5A	9/20/2011	--	82.93	38.84	--	44.09	**5,200**	--	--	**110**	**820**	**28**	**1,400**	--	--	
MW-5A	5/18/2012	--	82.93	39.60	--	43.33	**990**	**8,100**	**860**	**31**	**82**	**5.7**	**190**	--	--	
MW-5A	9/17/2012	--	82.93	37.90	--	45.03	**2,500**	**6,700**	**1,200**	**56**	**290**	**48**	**600**	--	--	
MW-5A	9/17/2012	--	82.93	37.90	--	45.03	**2,600**	**3,800**	--	**59**	**300**	**54**	**630**	--	--	Duplicate
MW-5A	4/30/2013	--	82.93	35.30	--	47.63	**604**	**1,700**	**490**	<1.0	**30.1**	**15.1**	**212**	--	--	
MW-5A	9/17/2013	--	82.93	36.20	--	46.73	**802**	**1,100**	**410**	<1.0	**15.5**	**19**	**257**	--	--	
MW-5A	4/29/2014	--	82.93	32.43	--	50.50	**689**	**430**	--	<1.0	**25.8**	**42.8**	**283**	--	--	
MW-5A	9/4/2014	--	82.93	33.29	--	49.64	**782**	**430**	--	<1.0	**26.6**	**29.3**	**176**	--	--	
MW-5A	4/14/2015	--	82.93	33.25	--	49.68	**674**	<400	--	<1.0	**25.1**	**34.5**	**206**	--	--	
MW-5A	9/3/2015	--	82.93	35.11	--	47.82	**128**	<420	--	<1.0	<1.0	**1.5**	**23.6**	--	--	
MW-5A	9/3/2015	--	82.93	35.11	--	47.82	**145**	<430	--	<1.0	**1.5**	**3.5**	**32.7**	--	--	Duplicate
MW-5A	4/13/2016	--	82.93	35.77	--	47.16	**240**	**450**	--	<0.5	**0.6**	**7**	**39**	--	--	
MW-5A	9/16/2016	--	82.93	37.50	--	45.43	**200**	**350**	--	<0.5	<0.5	**4**	**24**	--	--	
MW-5A	5/11/2017	--	82.93	37.80	--	45.13	**7,000**	**1,600**	--	**6.0**	**120**	**220**	**1,600**	--	--	
MW-5A	9/11/2017	--	82.93	38.71	--	44.22	**1,500**	**710**	--	**2.0**	**38**	**39**	**390**	--	--	
MW-5A	4/6/2018	--	82.93	37.52	--	45.41	**3,000**	**940**	--	**2.0**	**28**	**5.0**	**560**	--	--	
MW-5A	10/24/2018	--	82.93	38.50	--	44.43	**370**	**1,300**	--	**0.4 J**	**1.0**	**1.0**	**120**	--	--	
MW-5A	4/19/2019	--	83.09	38.85	--	44.24	**150 J**	<340 BJ	--	**1**	<1 B	<0.4	**37 J**	--	--	
MW-5A	9/18/2019	--	83.09	38.68	--	44.41	<100 **[120 J]**	**610 [500]**	--	<0.53 **[0.66 J]**	<0.39 [<0.39]	<0.50 [<0.50]	**23.6 [23.6]**	--	--	
MW-5A	4/9/2020	--	83.09	39.38	0.00	43.71	**405 [365]**	**946 [993]**	--	**0.832 J [0.855 J]**	**0.667 J [0.656 J]**	<1.00 [<1.00]	**222 [198]**	<1.00 [<1.00]	**8.99 [10.7]**	
MW-5A	10/7/2020	--	83.09	38.99	0.00	44.10	**313 [226]**	**674 J [607 J]**	--	**0.253 J [0.234 J]**	<1.00 [<1.00]	**0.174 J** [<1.00]	**116 [85.9]**	<1.00 [<1.00]	**1.88 J [2.66 J]**	
MW-5A	04/14/2021	--	83.09	39.22	0.00	43.87	**288**	**418 J**	--	**0.530 J**	**1.15 J**	**0.305 J**	**15.2**	<1.00	**11.5 J**	
MW-5A	9/7/2021	--	83.09	39.99	0.00	43.10	**229**	<888 B	**0.790 J**	**0.747 J**	**0.253 J**	**8.91**	<1.00	**20**	**0.02**	
MW-5A	4/12/2022	--	83.09	46.85	0.00	36.24	<136 B	**577 J**		**0.249 J**	**0.588 J**	**0.271 J**	**8.45**	<1.00	**10.1 J**	

Table 1. Historical Groundwater Gauging and Analytical Results
Third Quarter 2001 to Current
Chevron Facility 306450
4351 Old International Airport Road
Anchorage, Alaska

Well ID	Sample Date	Screen Interval (ft bTOC)	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (feet)	GW Elev (ft)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-d w/si (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Comments
ADEC Groundwater Cleanup Levels							**2,200**	**1,500**	**1,500**	**4.6**	**1,100**	**15**	**190**	**140**	**1.7**	

Table 1. Historical Groundwater Gauging and Analytical Results
Third Quarter 2001 to Current
Chevron Facility 306450
4351 Old International Airport Road
Anchorage, Alaska

Well ID	Sample Date	Screen Interval (ft bTOC)	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (feet)	GW Elev (ft)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-d w/si (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Comments
ADEC Groundwater Cleanup Levels							**2,200**	**1,500**	**1,500**	**4.6**	**1,100**	**15**	**190**	**140**	**1.7**	
MW-6	3/4/2001	--	76.05	49.78	--	26.27	--	--	--	--	--	--	--	--	--	
MW-6	4/21/2001	--	76.05	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	5/30/2001	--	76.05	50.14	--	25.91	--	--	--	--	--	--	--	--	--	
MW-6	6/27/2001	--	76.05	Dry	--	Dry	--	--	--	--	--	--	--	--	--	
MW-6	9/26/2001	--	76.05	50.98	--	25.07	--	--	--	--	--	--	--	--	--	
MW-6	12/9/2001	--	76.05	50.45	--	25.60	--	--	--	--	--	--	--	--	--	
MW-6	3/18/2002	--	76.05	50.57	--	25.48	--	--	--	--	--	--	--	--	--	
MW-6	6/24/2002	--	76.05	51.15	--	24.90	--	--	--	--	--	--	--	--	--	
MW-6	11/29/2003	--	76.05	DRY	--	DRY	--	--	--	--	--	--	--	--	--	
MW-6	3/22/2004	--	76.05	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	6/29/2004	--	76.05	51.04	--	25.01	--	--	--	--	--	--	--	--	--	
MW-6	12/28/2004	--		ABANDONED						ABANDONED					--	
MW-7	3/4/2001	--	77.97	51.29	--	26.68	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7	4/21/2001	--	77.97	51.60	--	26.38	--	--	--	--	--	--	--	--	--	
MW-7	5/30/2001	--	77.97	51.72	--	26.25	--	--	--	--	--	--	--	--	--	
MW-7	6/27/2001	--	77.97	56.10	--	24.49	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7	7/19/2001	--	77.97	55.20	--	24.35	--	--	--	--	--	--	--	--	--	
MW-7	8/19/2001	--	77.97	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	9/26/2001	--	77.97	53.61	--	26.2	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7	10/23/2001	--	77.97	53.09	--	25.47	--	--	--	--	--	--	--	--	--	
MW-7	11/29/2001	--	77.97	52.23	--	25.74	--	--	--	--	--	--	--	--	--	
MW-7	12/9/2001	--	77.97	52.00	--	25.97	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7	1/16/2002	--	77.97	51.67	--	26.30	--	--	--	--	--	--	--	--	--	
MW-7	2/26/2002	--	77.97	52.43	--	25.54	--	--	--	--	--	--	--	--	--	
MW-7	3/18/2002	--	77.97	52.21	--	25.76	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7	4/30/2002	--	77.97	52.22	--	25.75	--	--	--	--	--	--	--	--	--	
MW-7	5/24/2002	--	77.97	52.26	--	25.72	--	--	--	--	--	--	--	--	--	
MW-7	6/24/2002	--	77.97	52.50	--	25.47	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7	3/27/2003	--	77.97	53.39	**0.49**	24.97	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7	6/10/2003	--	77.97	54.40	**0.90**	24.29	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7	9/6/2003	--	77.97	55.44	**1.02**	23.35	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7	11/29/2003	--	77.97	53.65	**0.25**	24.52	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7	3/22/2004	--	77.97	52.62	**0.02**	25.37	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7	6/29/2004	--	77.97	52.61	**film**	25.36	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7	12/28/2004	--	77.97	50.86	**0.03**	27.13	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7	6/30/2005	--	77.97	53.24	**film**	24.73	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7	9/28/2005	--	77.97	52.95	**film**	25.02	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7	12/27/2005	--	77.97	52.78	--	25.19	--	--	--	--	--	--	--	--	--	
MW-7	3/31/2006	--	77.97	53.08	**film**	24.89	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7	6/30/2006	--	77.97	53.27	**film**	24.70	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7	4/30/2007	--	77.97	51.58	**film**	26.39	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7	8/31/2007	--	77.97	52.42	--	25.55	--	--	--	--	--	--	--	--	--	
MW-7	10/31/2007	--	77.97	51.99	--	25.98	**220,000**	**40,000**	--	**11,000**	**31,000**	**4,300**	**23,000**	<1,000	--	
MW-7	1/23/2008	--	77.97	51.56	--	26.41	**210,000**	**24,000**	--	**10,000**	**30,000**	**4,200**	**30,000**	--	--	
MW-7	6/27/2008	--	77.97	52.31	--	25.66	**190,000**	**25,000**	--	**11,000**	**32,000**	**3,900**	**21,000**	--	--	
MW-7	8/15/2008	--	84.58	52.58	--	32.00	**120,000/130,000**	**20,000/20,000**	--	**8,500/8,900**	**26,000/27,000**	**3,100/3,300**	**17,000/18,000**	--	--	
MW-7	12/9/2008	--	84.58	51.59	--	32.99	**74,000**	**17,000**	--	**5,600**	**17,000**	**2,100**	**11,000**	<500	--	
MW-7	3/18/2009	--	84.58	51.41	--	33.17	**120,000**	**20,000**	--	**7,500**	**23,000**	**3,300**	**16,000**	**230**	--	
MW-7	6/5/2009	--	84.58	51.64	--	32.94	**150,000**	**16,000**	--	**8,500**	**27,000**	**3,600**	**19,000**	--	--	
MW-7	9/2/2009	--	84.58	53.27	--	31.31	**170,000**	**49,000**	--	**9,600**	**35,000**	**4,500**	**25,000**	--	--	
MW-7	12/8/2009	--	84.58	52.51	--	32.07	**140,000**	**20,000**	--	**6,300**	**24,000**	**3,600**	**18,000**	--	--	
MW-7	5/17/2010	--	84.58	51.95	--	32.63	**170,000**	**16,000**	--	**7,500**	**31,000**	**4,300**	**24,000**	--	--	
MW-7	5/20/2010	--	--	--	--	--	**1,200,000**	**270,000**	--	**4,200**	**36,000**	**12,000**	**87,000**	--	--	Sampling performed for post-surfactant injection monitoring.
MW-7	5/21/2010	--	--	--	--	--	**690,000**	**170,000**	--	**5,500**	**35,000**	**10,000**	**60,000**	--	--	Sampling performed for post-surfactant injection monitoring.
MW-7	5/27/2010	--	--	--	--	--	**120,000**	**38,000**	--	**6,900**	**25,000**	**3,200**	**17,000**	--	--	Sampling performed for post-surfactant injection monitoring.
MW-7	6/3/2010	--	--	--	--	--	**110,000/130,000**	**29,000/30,000**	--	**6,400/7,400**	**21,000/26,000**	**2,200/3,000**	**12,000/16,000**	--	--	Sampling performed for post-surfactant injection monitoring.
MW-7	6/25/2010	--	--	--	--	--	--/140	**29,000/32,000**	--	**--/9,000**	**--/30,000**	**--/3,000**	**--/17,000**	--	--	Sampling performed for post-surfactant injection monitoring.
MW-7	7/1/2010	--	--	--	--	--	**130,000**	**28,000**	--	**8,300**	**27,000**	**3,000**	**16,000**		--	Sampling performed for post-surfactant injection monitoring.

Table 1. Historical Groundwater Gauging and Analytical Results
Third Quarter 2001 to Current
Chevron Facility 306450
4351 Old International Airport Road
Anchorage, Alaska

Well ID	Sample Date	Screen Interval (ft bTOC)	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (feet)	GW Elev (ft)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-d w/si (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Comments
ADEC Groundwater Cleanup Levels							**2,200**	**1,500**	**1,500**	**4.6**	**1,100**	**15**	**190**	**140**	**1.7**	

Table 1. Historical Groundwater Gauging and Analytical Results
Third Quarter 2001 to Current
Chevron Facility 306450
4351 Old International Airport Road
Anchorage, Alaska

Well ID	Sample Date	Screen Interval (ft bTOC)	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (feet)	GW Elev (ft)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-d w/si (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Comments
ADEC Groundwater Cleanup Levels							**2,200**	**1,500**	**1,500**	**4.6**	**1,100**	**15**	**190**	**140**	**1.7**	
MW-7	7/29/2010	--	84.58	53.48	--	31.10	**170,000**	**22,000**	--	**10,000**	**36,000**	**4,100**	**22,000**	--	--	Sampling performed for post-surfactant injection monitoring.
MW-7	8/25/2010	--	84.58	53.00	--	31.58	**150,000**	**22,000**	--	**8,300**	**32,000**	**3,500**	**18,000**	--	--	
MW-7	10/19/2010	--	84.58	53.19	--	31.39	**160,000**	**16,000**	--	**7,500**	**29,000**	**3,500**	**19,000**	--	--	Sampling performed for post-surfactant injection monitoring.
MW-7	4/26/2011	--	84.58	52.06	--	32.52	--	--	--	--	--	--	--	--	--	
MW-7	9/20/2011	--	84.58	--	--	--	--	--	--	--	--	--	--	--	--	Unable to access
MW-7	5/18/2012	--	84.58	53.10	--	31.48	**160,000**	**25,000**	**5,100**	**7,600**	**31,000**	**3,900**	**21,000**	--	--	
MW-7	9/17/2012	--	84.58	53.45	--	31.13	**110,000**	**23,000**	**6,800**	**5,800**	**24,000**	**3,100**	**16,000**	--	--	
MW-7	4/29/2013	--	84.58	52.68	--	31.90	--	--	--	--	--	--	--	--	--	
MW-7	9/17/2013	--	84.58	53.93	--	30.65	**266,000**	**11,900**	**7,400**	--	--	--	--		--	
MW-7	4/29/2014	--	84.58	51.89	--	32.69	**134,000**	**13,200**	--	**8,940**	**31,900**	**2,570**	**14,000**		--	
MW-7	4/29/2014	--	84.58	51.89	--	32.69									--	Duplicate
MW-7	9/3/2014	--	84.58	55.35	**0.01**	29.24	**127,000**	**16,500**	--	**8,650**	**30,700**	**2,460**	**13,900**	--	--	
MW-7	9/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7	4/15/2015	--	84.58	53.31	--	31.27	**213,000**	**19,500**	--	**8,430**	**36,400**	**3,050**	**17,300**	--	--	Duplicate
MW-7	4/15/2015	--	84.58	53.31	--	31.27	**202,000**	**21,500**	--	**8,830**	**36,900**	**3,440**	**20,900**	--	--	
MW-7	9/2/2015	--	84.58	53.40	--	31.18	**245,000**	**24,900**	--	**6,690**	**43,800**	**4,200**	**24,200**	--	--	
MW-7	4/12/2016	--	84.58	54.04	--	30.54	**200,000**	**29,000**	--	**7,300**	**36,000**	**3,400**	**20,000**	--	--	
MW-7	9/15/2016	--	84.58	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	5/11/2017	--	84.58	54.12	--	30.46	**210,000**	**29,000**	--	**6,800**	**41,000**	**4,500**	**27,000**	--	--	
MW-7	9/11/2017	--	84.58	54.80	--	29.78	**170,000**	**20,000**	--	**6,300**	**45,000**	**4,700**	**28,000**	--	--	
MW-7	4/6/2018	--	84.58	53.58	--	31.00	**200,000**	**22,000**	--	**5,000**	**37,000**	**4,500**	**25,000**	--	--	
MW-7	10/24/2018	--	84.58	54.76	--	29.82	**160,000**	**23,000**	--	**460**	**3,600**	**420**	**2,800**	--	--	
MW-7	4/19/2019	--	85.68	55.03	--	30.65	**190,000**	**22,000**	--	**5,000**	**46,000 D**	**4,600**	**26,000**	--	--	
MW-7	9/18/2019	--	85.68	--	--	--	--	--	--	--	--	--	--	--	--	Well Dry
MW-7	4/9/2020	--	85.68	54.95	0.00	30.73	**97,800**	**19,700 J**	--	**3,320**	**43,000**	**4,600**	**29,500**	***<250***	**466 J**	
MW-7	10/8/2020	--	85.68	55.13	0.00	30.55	**84,200**	**19,000**	--	**2,800**	**37,700**	**3,680**	**24,000**	<250	***<1,250***	
MW-7	04/14/2021	--	85.68	54.66	0.00	31.02	**133,000 [130,000 J]**	**24,600 [23,900]**	--	**2,800 [2,920]**	**28,900 [24,900]**	**4,080 [4,060]**	**25,600 [24,600]**	<250 [<100]	**327 J [299 J]**	
MW-7	9/7/2021	--	85.68	55.82	0.00	29.86	**112,000**	**23,700**	**2,930**	**30,700**	**2,990**	**18,600**	**<1,000**	***<5,000***	***<5.00***	
MW-7	4/12/2022	--	85.68	54.65	0.00	31.03	**116,000**	**40,100**		**3,170**	**32,500**	**3,730**	**24,000**	***<1,000***	***<5,000***	
MW-7A	3/4/2001	--	79.02	53.96	--	25.06	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	4/21/2001	--	79.02	54.03	--	24.99	--	--	--	--	--	--	--	--	--	
MW-7A	5/30/2001	--	79.02	54.15	--	24.87	--	--	--	--	--	--	--	--	--	
MW-7A	6/27/2001	--	79.02	55.57	--	23.45	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	7/19/2001	--	79.02	55.46	--	23.56	--	--	--	--	--	--	--	--	--	
MW-7A	8/19/2001	--	79.02	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7A	9/26/2001	--	79.02	54.04	--	24.98	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	10/23/2001	--	79.02	53.72	--	25.30	--	--	--	--	--	--	--	--	--	
MW-7A	11/29/2001	--	79.02	55.60	--	23.42	--	--	--	--	--	--	--	--	--	
MW-7A	12/9/2001	--	79.02	55.11	--	23.91	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	1/16/2002	--	79.02	53.78	--	25.24	--	--	--	--	--	--	--	--	--	
MW-7A	2/26/2002	--	79.02	55.22	--	23.80	--	--	--	--	--	--	--	--	--	
MW-7A	3/18/2002	--	79.02	54.00	--	25.02	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	4/30/2002	--	79.02	54.02	--	25.00	--	--	--	--	--	--	--	--	--	
MW-7A	5/24/2002	--	79.02	54.15	--	24.87	--	--	--	--	--	--	--	--	--	
MW-7A	6/24/2002	--	79.02	54.46	--	24.56	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	3/27/2003	--	79.02	54.53	--	24.49	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	6/10/2003	--	79.02	55.15	--	23.87	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	9/6/2003	--	79.02	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7A	11/29/2003	--	79.02	55.98	--	23.04	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	3/22/2004	--	79.02	55.28	--	23.74	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	6/29/2004	--	79.02	53.83	--	25.19	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	12/28/2004	--	79.02	53.60	--	25.42	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	6/30/2005	--	79.02	55.25	--	23.77	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	9/28/2005	--	79.02	54.89	--	24.13	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	12/27/2005	--	79.02	54.35	--	24.67	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	3/31/2006	--	79.02	54.34	--	24.68	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	6/30/2006	--	79.02	54.57	--	24.45	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	4/30/2007	--	79.02	52.85	--	26.17	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL

Table 1. Historical Groundwater Gauging and Analytical Results
Third Quarter 2001 to Current
Chevron Facility 306450
4351 Old International Airport Road
Anchorage, Alaska

Well ID	Sample Date	Screen Interval (ft bTOC)	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (feet)	GW Elev (ft)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-d w/si (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Comments
ADEC Groundwater Cleanup Levels							**2,200**	**1,500**	**1,500**	**4.6**	**1,100**	**15**	**190**	**140**	**1.7**	

Table 1. Historical Groundwater Gauging and Analytical Results
Third Quarter 2001 to Current
Chevron Facility 306450
4351 Old International Airport Road
Anchorage, Alaska

Well ID	Sample Date	Screen Interval (ft bTOC)	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (feet)	GW Elev (ft)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-d w/si (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Comments
ADEC Groundwater Cleanup Levels							**2,200**	**1,500**	**1,500**	**4.6**	**1,100**	**15**	**190**	**140**	**1.7**	
MW-7A	8/31/2007	--	79.02	53.60	--	25.42	--	--	--	--	--	--	--	--	--	
MW-7A	10/31/2007	--	79.02	53.08	--	25.94	--	--	--	--	--	--	--	--	--	
MW-7A	1/24/2008	--	79.02	52.87	--	26.15	**18,000**	**2,000**	--	**400**	**2,000**	**400**	**2,600**	--	--	
MW-7A	6/27/2008	--	79.02	53.27	--	25.75	**17,000**	**3,100**	--	**500**	**1,900**	**500**	**2,600**	--	--	
MW-7A	8/15/2008	--	85.62	53.52	--	32.10	**7,200**	**1,200**	--	**200**	**700**	**200**	**900**	--	--	
MW-7A	12/9/2008	--	85.62	52.77	--	32.85	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	3/18/2009	--	85.62	52.70	--	32.92	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	6/5/2009	--	85.62	52.59	--	33.03	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	9/2/2009	--	85.62	53.20	--	32.42	**5,200**	**650**	--	**75**	**510**	**180**	**1,100**	--	--	
MW-7A	12/8/2009	--	85.62	53.42	--	32.20	**12,000/12,000**	**2,600/6,300**	--	**32/31**	**280/270**	**260/270**	**1,900/2,100**	--	--	Duplicate
MW-7A	5/17/2010	--	85.62	52.89	--	32.73	**67,000**	**8,100**	--	**670**	**7,000**	**1,800**	**13,000**		--	
MW-7A	5/20/2010	--	--	--	--	--	**730,000**	**270,000**	--	<2,500	14,000	**8,200**	**57,000**	--	--	Sampling performed for post-surfactant injection monitoring.
MW-7A	5/21/2010	--	--	--	--	--	**23,000**	**13,000**	--	**140**	**780**	**300**	**1,900**	--	--	Sampling performed for post-surfactant injection monitoring.
MW-7A	5/24/2010	--	--	--	--	--	**5,300**	**5,100**	--	**130**	**500**	**150**	**890**	--	--	Sampling performed for post-surfactant injection monitoring.
MW-7A	5/27/2010	--	--	--	--	--	**4,500**	**3,800**	--	**150**	**500**	**110**	**680**	--	--	Sampling performed for post-surfactant injection monitoring.
MW-7A	6/3/2010	--	--	--	--	--	**8,100**	**1,200**	--	**130**	**890**	**170**	**1,400**	--	--	Sampling performed for post-surfactant injection monitoring.
MW-7A	6/9/2010	--	--	--	--	--	**15,000**	**2,700**	--	**260**	**1,600**	**310**	**2,500**	--	--	Sampling performed for post-surfactant injection monitoring.
MW-7A	6/19/2010	--	--	--	--	--	**20,000**	**2,800**	--	**600**	**2,600**	**440**	**4,000**		--	Sampling performed for post-surfactant injection monitoring.
MW-7A	6/25/2010	--	--	--	--	--	**1,600**	**3,000**	--	**30**	**170**	**25**	**290**	--	--	Sampling performed for post-surfactant injection monitoring.
MW-7A	7/1/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Sampling performed for post-surfactant injection monitoring.
MW-7A	7/29/2010	--	85.62	54.48	--	31.14	**8,600/7,900**	**1,900/--**	--	**190/160**	**950/860**	**71/61**	**2,000/1,800**	--	--	Sampling performed for post-surfactant injection monitoring.
MW-7A	8/25/2010	--	85.62	54.12	--	31.50	**4,300**	**1,000**	--	**91**	**320**	**17**	**850**	--	--	
MW-7A	10/19/2010	--	85.62	53.90	--	31.72	**5,800**	**1,400**	--	**60**	**260**	**13**	**1,300**	--	--	Sampling performed for post-surfactant injection monitoring.
MW-7A	4/26/2011	--	85.62	53.22	0.12	32.50	--	--	--	--	--	--	--	--	--	
MW-7A	9/20/2011	--	85.62	55.05	--	30.57	--	--	--	--	--	--	--	--	--	
MW-7A	5/18/2012	--	85.62	54.70	--	30.92	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	9/17/2012	--	85.62	54.60	--	31.02	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	5/1/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	4/29/2013	--	85.62	53.83	0.20	31.95	--	--	--	--	--	--	--	--	--	
MW-7A	9/17/2013	--	85.62	55.10	--	30.52	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	4/29/2014	--	85.62	52.94	--	32.68	--	--	--	--	--	--	--	--	--	Well not sampled due to presence of LNAPL
MW-7A	9/4/2014	--	85.62	56.40	--	29.22	--	--	--	--	--	--	--	--	--	
MW-7A	4/15/2015	--	85.62	54.35	--	31.27	**8,460**	**2,600**	--	**18.2**	**210**	**10.1**	**969**	--	--	
MW-7A	9/3/2015	--	85.62	56.42	--	29.20	**26,500**	**3,700**	--	**103**	**1,610**	**469**	**5,830**	--	--	
MW-7A	4/13/2016	--	85.62	55.09	--	30.53	**12,000**	**13,000**	--	**170**	**1,100**	**58**	**2,400**	--	--	
MW-7A	9/16/2016	--	85.62	56.27	--	29.35	**14,000**	**3,800**	--	**420**	**1,600**	**180**	**4,400**	--	--	
MW-7A	5/11/2017	--	85.62	55.17	--	30.45	**13,000**	**2,900**	--	**99**	**280**	**88**	**3,500**	--	--	
MW-7A	9/11/2017	--	85.62	55.85	--	29.77	**20,000**	**6,900**	--	**340**	**1,600**	**170**	**6,700**	--	--	
MW-7A	4/6/2018	--	85.62	54.65	--	30.97	**15,000**	**3,500**	--	**210**	**580**	**91**	**4,800**	--	--	
MW-7A	10/24/2018	--	85.62	55.82	--	29.80	**9,300**	**4,600**	--	**49**	**340**	**71**	**2,900**	--	--	
MW-7A	4/19/2019	--	86.82	53.16	--	33.66	**18,000**	**4,900**	--	**320**	**720**	**92**	**5,000**	--	--	
MW-7A	9/18/2019	--	86.82	58.65	--	28.17	**900**	**440**	--	**29**	**130**	**14**	**162**	--	--	
MW-7A	4/9/2020	--	86.82	56.00	0.00	30.82	**3,820**	**2,060**	--	**74.2**	**545**	**175**	**3,590**	<1.00	**46.5**	
MW-7A	10/8/2020	--	86.82	55.70	0.00	31.12	**14,100**	**3,350**	--	**133**	**1,940**	**124**	**7,750**	<25.0	**49.7 J**	
MW-7A	04/14/2021	--	86.82	55.70	0.00	31.12	**6,440**	**1,610**	--	**64.4**	**247**	**53.5**	**2,360**	<25.0	<125	
MW-7A	9/7/2021	--	86.82	56.87	0.00	29.95	**825**	<939 B	**8.48 J**	**61**	**10.4 J**	**167**	<25.0	<125	<0.125	
MW-7A	4/12/2022	--	86.82	55.76	0.00	31.06	**8,090**	**2,750**		**64.7**	**357**	**44.4**	**3,700**	<25.0	***<125***	
MW-8	3/4/2001	--	77.21	45.10	--	32.11	--	--	--	--	--	--	--	--	--	
MW-8	4/21/2001	--	77.21	45.39	--	31.82	--	--	--	--	--	--	--	--	--	
MW-8	5/30/2001	--	77.21	45.96	--	31.25	--	--	--	--	--	--	--	--	--	
MW-8	6/27/2001	--	77.21	47.13	--	30.08	--	--	--	--	--	--	--	--	--	
MW-8	9/26/2001	--	77.21	46.76	--	30.45	--	--	--	--	--	--	--	--	--	
MW-8	12/9/2001	--	77.21	46.45	--	30.76	--	--	--	--	--	--	--	--	--	
MW-8	3/18/2002	--	77.21	46.99	--	30.22	--	--	--	--	--	--	--	--	--	
MW-8	6/24/2002	--	77.21	47.23	--	29.98	--	--	--	--	--	--	--	--	--	
MW-8	11/29/2003	--	77.21	48.13	--	29.08	--	--	--	--	--	--	--	--	--	
MW-8	3/22/2004	--	77.21	47.58	--	29.63	--	--	--	--	--	--	--	--	--	
MW-8	6/29/2004	--	77.21	47.49	--	29.72	--	--	--	--	--	--	--	--	--	

Table 1. Historical Groundwater Gauging and Analytical Results
Third Quarter 2001 to Current
Chevron Facility 306450
4351 Old International Airport Road
Anchorage, Alaska

Well ID	Sample Date	Screen Interval (ft bTOC)	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (feet)	GW Elev (ft)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-d w/si (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Comments
ADEC Groundwater Cleanup Levels							**2,200**	**1,500**	**1,500**	**4.6**	**1,100**	**15**	**190**	**140**	**1.7**	

Table 1. Historical Groundwater Gauging and Analytical Results
Third Quarter 2001 to Current
Chevron Facility 306450
4351 Old International Airport Road
Anchorage, Alaska

Well ID	Sample Date	Screen Interval (ft bTOC)	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (feet)	GW Elev (ft)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-d w/si (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Comments
ADEC Groundwater Cleanup Levels							**2,200**	**1,500**	**1,500**	**4.6**	**1,100**	**15**	**190**	**140**	**1.7**	
MW-8	12/28/2004	--		ABANDONED						ABANDONED					--	
MW-9	3/4/2001	--	76.58	33.03	--	43.55	**12,000**	**11,900**	--	**1,460**	**491**	**283**	**887**	--	--	
MW-9	4/21/2001	--	76.58	33.59	--	42.99	--	--	--	--	--	--	--	--	--	
MW-9	5/30/2001	--	76.58	33.99	--	42.59	**5,360 / 7,780**	**8,410 / --**	--	**1,080 / 1,010**	**185 / 171**	**202 / 186**	**540 / 505**	--	--	
MW-9	6/27/2001	--	76.58	34.22	--	42.36	--	--	--	--	--	--	--	--	--	
MW-9	9/27/2001	--	76.58	35.00	--	41.58	**5,470 / --**	**5,970 / --**	--	**791 / 853**	**110 / 118**	**135 / 146**	**376 / 406**	--	--	
MW-9	12/9/2001	--	76.58	35.20	--	41.38	**3,470 / 4,290**	**4,870 / --**	--	**840 / 716**	**23.6 / 33.1**	**167 / 167**	**218 / 309**	--	--	
MW-9	3/18/2002	--	76.58	35.90	--	40.68	**4,120 / --**	**4,020 / --**	--	**600 / 533**	**9.46 / 9.62**	**99.3 / 117**	**119 / 162**	--	--	
MW-9	6/24/2002	--	76.58	36.19	--	40.39	**3,190**	**3050**	--	**512**	**7.44**	**111**	**136**	--	--	
MW-9	3/27/2003	--	76.58	--	--	--	**2,400**	**4,300**	--	**329**	**40**	**2.7**	**33**	--	--	
MW-9	6/10/2003	--	76.58	--	--	--	**4,800**	**4,600**	--	**791**	**158**	**15**	**177**	--	--	
MW-9	9/6/2003	--	76.58	--	--	--	**3,100**	**3,700**	--	**485**	**74**	**<5**	**85**	--	--	
MW-9	11/29/2003	--	76.58	37.58	--	39.00	**2,400**	**2,800**	--	**435**	**98**	**3.5**	**85**	--	--	
MW-9	3/22/2004	--	76.58	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	6/29/2004	--	76.58	36.69	--	39.89	**300**	**690**	--	**44**	**<0.5**	**2.7**	**3.2**	--	--	
MW-9	12/28/2004	--	76.58	35.68	--	40.90	**1,100**	**4,800**	--	**172**	**1.7**	**3.5**	**11**	--	--	
MW-9	6/30/2005	--	76.58	35.12	--	41.46	**4,100/3,900**	**7,900/10,000**	--	**683/676**	**4.6/4.4**	**67/66**	**43/42**	--	--	
MW-9	12/27/2005	--	76.58	36.12	--	40.46	**3,410**	**2,250**	--	**657**	**<5**	**18.7**	**19**	--	--	
MW-9	6/30/2006	--	76.58	37.32	--	39.26	**2,030/1,690**	**3,120/2,930**	--	**445/465**	<5.00/<5.00	**29.9/17.6**	**31.5/16.8**	--	--	
MW-9	4/30/2007	--	76.58	36.39	--	40.19	**3,900**	**4,900**	--	**800**	**3**	**60**	**50**	--	--	
MW-9	8/31/2007	--	76.58	37.53	--	39.05	**--/7,000**	**4,400/4,500**	--	**900/900**	**40/40**	**200/200**	**500/500**	<20/--	--	
MW-9	1/23/2008	--	76.58	37.32	--	39.26	**1,200**	**3,400**	--	**100**	**2**	**20**	**20**	--	--	
MW-9	8/8/2008	--	83.19	38.02 [1]	--	45.17	**3,700**	**4,000**	--	**900**	**8**	**90**	**80**	--	--	
MW-9	3/18/2009	--	83.19	38.80	--	44.39	--	--	--	--	--	--	--	--	--	
MW-9	6/5/2009	--	83.19	37.86	--	45.33	**5,500**	**5,400**	--	**1,000**	**9.6**	**150**	**170**	--	--	
MW-9	9/2/2009	--	83.19	38.40	--	44.79	**2,700**	**6,100**	--	**500**	**4.6**	**59**	**72**	--	--	
MW-9	12/8/2009	--	83.19	38.81	--	44.38	--	--	--	--	--	--	--	--	--	
MW-9	5/17/2010	--	83.19	39.15	--	44.04	--	--	--	--	--	--	--	--	--	
MW-9	8/24/2010	--	83.19	39.20	--	43.99	--	--	--	--	--	--	--	--	--	
MW-9	4/26/2011	--	83.19	39.15	--	44.04	--	--	--	--	--	--	--	--	--	
MW-9	9/20/2011	--	83.19	39.20	--	43.99	--	--	--	--	--	--	--	--	--	
MW-9	5/18/2012	--	83.19	--	--	--	--	--	--	--	--	--	--	--	--	Well Dry
MW-9	9/17/2012	--	83.19	37.80	--	45.39	**3,600**	**6,500**	<50	**690**	**1.7**	**100**	**95**	--	--	
MW-9	5/1/2013	--	83.19	36.11	--	47.08	**122**	**3,100**	**560**	**11.5**	<1.0	<1.0	<3.0	--	--	
MW-9	9/17/2013	--	83.19	36.99	--	46.20	**4,470**	**8,600**	**930**	**678**	**5.2**	**161**	**120**	--	--	
MW-9	4/29/2014	--	83.19	33.97	--	49.22	**1,730**	**10,700**	--	**553**	<5.0	**10.9**	<15.0	--	--	
MW-9	9/4/2014	--	83.19	34.92	--	48.27	**3,620**	**11,200**	--	**611**	<5.0	**121**	**77.9**	--	--	
MW-9	4/14/2015	--	83.19	35.14	--	48.05	**1,220**	**3,500**	--	**284**	<1.0	**40.2**	**29.2**	--	--	
MW-9	9/3/2015	--	83.19	36.92	--	46.27	**2,470**	**8,100**	--	**338**	<2.0	**88.9**	**111**	--	--	
MW-9	4/12/2016	--	83.19	36.85	--	46.34	--	--	--	--	--	--	--	--	--	Not Sampled
MW-9	9/15/2016	--	83.19	--	--	--	--	--	--	--	--	--	--	--	--	Well Dry
MW-9	5/10/2017	--	83.19	--	--	--	--	--	--	--	--	--	--	--	--	Well Dry
MW-9	4/6/2018	--	83.19	--	--	--	--	--	--	--	--	--	--	--	--	Well Dry
MW-9	10/24/2018	--	83.19	--	--	--	--	--	--	--	--	--	--	--	--	Well Dry
MW-9	4/19/2019	--	83.20	39.48	--	43.72	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	
MW-9	9/18/2019	--	83.20	39.52	--	43.68	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	
MW-9	4/9/2020	--	83.20	39.55	0.00	43.65	--	--	--	--	--	--	--	--	--	
MW-9	10/7/2020	--	83.20	39.55	0.00	43.65	--	--	--	--	--	--	--	--	--	Insufficient water to sample
MW-9	9/7/2021	--	83.20	39.61	0.00	43.59	--	--	--	--	--	--	--	--	--	Insufficient water to sample
MW-9	4/12/2022	--	83.20	39.65	0.00	43.55	--	--		--	--	--	--	--	--	Insufficient water to sample

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Third Quarter 2001 to Current
Chevron Facility 306450
4351 Old International Airport Road
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Well ID	Sample Date	Screen Interval (ft bTOC)	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (feet)	GW Elev (ft)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-d w/si (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Comments
ADEC Groundwater Cleanup Levels							**2,200**	**1,500**	**1,500**	**4.6**	**1,100**	**15**	**190**	**140**	**1.7**	
MW-10	3/4/2001	--	75.85	40.70	--	35.15	**--**	**--**	**--**	**26.6**	**0.732**	<0.500	<1.00	**--**	--	
MW-10	4/21/2001	--	75.85	40.57	--	35.28	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	
MW-10	5/30/2001	--	75.85	40.29	--	35.56	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	
MW-10	6/27/2001	--	75.85	41.75	--	34.10	**--**	**--**	**--**	**8.58**	<0.500	<0.500	<1.00	**--**	--	
MW-10	9/26/2001	--	75.85	41.21	--	34.64	--	--	--	**1.1**	<0.500	<0.500	<1.00	--	--	
MW-10	12/9/2001	--	75.85	42.00	--	33.85	--	--	--	**1.2**	<0.500	<0.500	<1.00	--	--	
MW-10	3/18/2002	--	75.85	42.40	--	33.45	--	--	--	**1.9**	<0.500	<0.500	<1.00	--	--	
MW-10	6/24/2002	--	75.85	41.96	--	33.89	--	--	--	**0.3**	<0.500	<0.500	<1.00	--	--	
MW-10	11/29/2003	--	75.85	38.28	--	37.57	--	--	--	--	--	--	--	--	--	
MW-10	3/22/2004	--	75.85	42.40	--	33.45	--	--	--	--	--	--	--	--	--	
MW-10	6/29/2004	--	75.85	45.90	--	29.95	--	--	--	--	--	--	--	--	--	
MW-10	12/28/2004	--	75.85	43.51	--	32.34	--	--	--	--	--	--	--	--	--	
MW-10	6/30/2005	--	75.85	41.33	--	34.52	--	--	--	--	--	--	--	--	--	
MW-10	12/27/2005	--	75.85	41.05	--	34.80	--	--	--	--	--	--	--	--	--	
MW-10	6/30/2006	--	75.85	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	4/30/2007	--	75.85	46.92	--	28.93	--	--	--	--	--	--	--	--	--	
MW-10	8/31/2007	--	75.85	42.28	--	33.57	--	--	--	--	--	--	--	--	--	
MW-10	8/15/2008	--	82.50	41.71	--	40.79	--	--	--	--	--	--	--	--	--	
MW-10	3/18/2009	--	82.50	42.10	--	40.40	--	--	--	--	--	--	--	--	--	
MW-10	6/4/2009	--	82.50	42.03	--	40.47	--	--	--	--	--	--	--	--	--	
MW-10	8/31/2009	--	82.50	38.40	--	44.10	--	--	--	--	--	--	--	--	--	
MW-10	12/8/2009	--	82.50	42.95	--	39.55	--	--	--	--	--	--	--	--	--	
MW-10	5/17/2010	--	82.50	42.01	--	40.49	<10	**250**	--	<0.5	0.5	<0.5	<1.5	--	--	
MW-10	8/24/2010	--	82.50	41.38	--	41.12	<10	**160**	--	<0.5	0.5	<0.5	<1.5	--	--	
MW-10	4/26/2011	--	82.50	42.62	--	39.88	--	--	--	--	--	--	--	--	--	
MW-10	9/20/2011	--	82.50	41.41	--	41.09	--	--	--	--	--	--	--	--	--	
MW-10	9/3/2014	--	82.50	36.28	--	46.22	--	--	--	--	--	--	--	--	--	
MW-10	4/19/2019	--	82.52	40.85	--	41.67	--	--	--	--	--	--	--	--	--	
MW-10	9/18/2019	--	82.52	43.96	--	38.56	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	
MW-10	4/9/2020	--	82.52	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate well
MW-10	10/7/2020	--	82.52	43.50	0.00	39.02	--	--	--	--	--	--	--	--	--	
MW-10	9/7/2021	--	82.52	38.72	0.00	43.80	--	--	--	--	--	--	--	--	--	
MW-10	4/12/2022	--	82.52	38.58	0.00	43.94	--	--		--	--	--	--	--	--	
MW-11	3/4/2001	--	77.27	49.65	--	27.62	--	--	--	**4.18**	<0.500	<0.500	<1.00	--	--	
MW-11	4/21/2001	--	77.27	49.77	--	27.50	--	--	--	--	--	--	--	--	--	
MW-11	5/30/2001	--	77.27	49.95	--	27.32	--	--	--	--	--	--	--	--	--	
MW-11	6/27/2001	--	77.27	50.50	--	26.77	--	--	--	**2.61**	<0.500	<0.500	<1.00	--	--	
MW-11	9/26/2001	--	77.27	50.72	--	26.55	--	--	--	**2.02**	<0.500	<0.500	<1.00	--	--	
MW-11	12/9/2001	--	77.27	50.47	--	26.80	--	--	--	**0.538**	<0.500	<0.500	<1.00	--	--	
MW-11	3/18/2002	--	77.27	50.55	--	26.72	--	--	--	--	--	--	--	--	--	
MW-11	6/24/2002	--	77.27	50.30	--	26.97	--	--	--	**7.67**	<0.500	<0.500	<1.00	--	--	
MW-11	6/10/2003	--	77.27	--	--	--	--	--	--	**2.0**	**<0.5**	**1.2**	**2.3**	--	--	
MW-11	11/29/2003	--	77.27	51.80	--	25.47	--	--	--	<0.5	<0.5	<0.5	<1.0	--	--	
MW-11	3/22/2004	--	77.27	--	--	--	--	--	--	--	--	--	--	--	--	
MW-11	6/29/2004	--	77.27	51.03	--	26.24	--	--	--	<0.5	<0.5	<0.5	<1.0	--	--	
MW-11	12/28/2004	--	77.27	51.06	--	26.21	--	--	--	<0.5	<0.5	<0.5	<1.0	--	--	
MW-11	6/30/2005	--	77.27	50.63	--	26.64	--	--	--	<0.5	<0.5	<0.5	<1.0	--	--	
MW-11	12/27/2005	--	77.27	50.46	--	26.81	--	--	--	--	--	--	--	--	--	
MW-11	6/30/2006	--	77.27	50.95	--	26.32	--	--	--	<0.5	<0.5	<0.5	<1.5	--	--	
MW-11	4/30/2007	--	77.27	49.99	--	27.28	--	--	--	--	--	--	--	--	--	
MW-11	8/31/2007	--	77.27	50.75	--	26.52	--	--	--	<1	<1	<1	<2	<3	--	
MW-11	8/15/2008	--	83.88	50.77	--	33.11	--	--	--	**6**	**3**	**2**	**10**	--	--	
MW-11	3/18/2009	--	83.88	50.01	--	33.87	--	--	--	--	--	--	--	--	--	
MW-11	6/4/2009	--	83.88	51.90	--	31.98	--	--	--	--	--	--	--	--	--	
MW-11	9/2/2009	--	83.88	51.39	--	32.49	--	--	--	**7.1**	<0.5	<0.5	<1.5	--	--	
MW-11	12/8/2009	--	83.88	59.40	--	24.48	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	
MW-11	5/17/2010	--	83.88	50.55	--	33.33	<10	**210**	**--**	<0.5	0.9	<0.5	<1.5	**--**	--	
MW-11	8/24/2010	--	83.88	51.10	--	32.78	<10	**400**	**--**	<0.5	0.9	<0.5	<1.5	**--**	--	

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Well ID	Sample Date	Screen Interval (ft bTOC)	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (feet)	GW Elev (ft)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-d w/si (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Comments
ADEC Groundwater Cleanup Levels							**2,200**	**1,500**	**1,500**	**4.6**	**1,100**	**15**	**190**	**140**	**1.7**	
MW-11	4/26/2011	--	83.88	50.56	--	33.32	<10	**210**	**--**	<0.5	<0.5	<0.5	<1.5	**--**	--	
MW-11	9/20/2011	--	83.88	51.32	--	32.56	<10	--	--	<0.5	<0.5	<0.5	<1.5	--	--	
MW-11	5/18/2012	--	83.88	50.69	--	33.19	<10	**270**	<48	**1**	<0.5	<0.5	<1.5	--	--	
MW-11	9/17/2012	--	83.88	51.38	--	32.50	<10	**130**	<51	**1.4**	<0.5	<0.5	<1.5	--	--	
MW-11	4/29/2013	--	83.88	50.15	--	33.73	<100	<520	--	**1.5**	<1.0	<1.0	<3.0	--	--	
MW-11	9/17/2013	--	83.88	50.85	--	33.03	<100	<420	--	<1.0	<1.0	<1.0	<3.0	--	--	
MW-11	4/28/2014	--	83.88	49.00	--	34.88	<100	<260	--	**7.2**	<1.0	<1.0	<3.0	--	--	
MW-11	9/3/2014	--	83.88	51.05	--	32.83	--	--	--	--	--	--	--	--	--	Well Flooded
MW-11	4/14/2015	--	83.88	50.42	--	33.46	<100	<430	--	**2.3**	<1.0	<1.0	<3.0	--	--	
MW-11	9/2/2015	--	83.88	51.99	--	31.89	<100	**2,000**	--	<1.0	<1.0	<1.0	<3.0	--	--	
MW-11	4/12/2016	--	83.88	51.32	--	32.56	<10	**200**	--	<0.5	<0.5	<0.5	<0.5	--	--	
MW-11	9/15/2016	--	83.88	52.60	--	31.28	<10	**290**	--	<0.5	<0.5	<0.5	<0.5	--	--	
MW-11	5/10/2017	--	83.88	51.32	--	32.56	<10	**190**	--	<0.5	<0.5	<0.5	<0.5	--	--	
MW-11	9/11/2017	--	83.88	52.13	--	31.75	<10	**940**	--	<0.5	<0.5	<0.5	<0.5	--	--	
MW-11	4/6/2018	--	83.88	51.21	--	32.67	<10	**190 J**	--	<0.5	<0.5	<0.5	<0.5	--	--	
MW-11	10/24/2018	--	83.88	51.76	--	32.12	<14	<430 B	--	<0.2	<0.2	<0.4	<1.0	--	--	
MW-11	10/24/2018	--	83.88	51.76	--	32.12	<14	<330 B	--	<0.2	<0.2	<0.4	<1.0	--	--	Duplicate
MW-11	4/19/2019	--	83.95	52.55	--	31.40	--	--	--	--	--	--	--	--	--	
MW-11	9/24/2019	--	83.95	54.00	--	29.95	<100 [<100]	**140 J [200 J]**	**--**	<0.53 [<0.53]	<0.39 [<0.39]	<0.50 [<0.50]	<0.75 [<0.75]	**--**	--	
MW-11	4/9/2020	--	83.95	--	0.00	--	--	--	--	--	--	--	--	--	--	Well vault frozen with ice, Could not free PVC Without damaging it
MW-11	10/8/2020	--	83.95	52.64	0.00	31.31	<100 [<100]	<800 [<800]	--	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<3.00 [<3.00]	<1.00 [<1.00]	***<5.00 [<5.00]***	
MW-11	9/7/2021	--	83.95	53.14	0.00	30.81	<100	<800 B	<1.00	<1.00	<1.00	<3.00	<1.00	<5.00	<0.00500	
MW-11	4/12/2022	--	83.95	52.35	0.00	31.60	<100	244 J		<1.00	<1.00	<1.00	<3.00	<1.00	***<5.00 J***	
MW-12	3/4/2001	--	77.28	51.20	--	26.08	--	--	--	<0.500	<0.500	<0.500	<1.00	--	--	
MW-12	4/21/2001	--	77.28	51.35	--	25.93	--	--	--	--	--	--	--	--	--	
MW-12	5/30/2001	--	77.28	51.37	--	25.91	--	--	--	--	--	--	--	--	--	
MW-12	6/27/2001	--	77.28	53.52	--	23.76	--	--	--	**0.32**	<0.500	<0.500	<1.00	--	--	
MW-12	9/26/2001	--	77.28	52.36	--	24.92	--	--	--	<0.200	<0.500	<0.500	<1.00	--	--	
MW-12	12/9/2001	--	77.28	51.85	--	25.43	--	--	--	<0.200	<0.500	<0.500	<1.00	--	--	
MW-12	3/18/2002	--	77.28	51.88	--	25.40	--	--	--	--	--	--	--	--	--	
MW-12	6/24/2002	--	77.28	52.40	--	24.88	--	--	--	<0.200	<0.500	<0.500	<1.00	--	--	
MW-12	11/29/2003	--	77.28	53.30	--	23.98	--	--	--	<0.5	<0.5	<0.5	<1.0	--	--	
MW-12	3/22/2004	--	77.28	52.47	--	24.81	--	--	--	--	--	--	--	--	--	
MW-12	6/29/2004	--	77.28	52.50	--	24.78	--	--	--	<0.5	<0.5	<0.5	<1.0	--	--	
MW-12	12/28/2004	--	77.28	52.55	--	24.73	--	--	--	<0.5	<0.5	<0.5	<1.0	--	--	
MW-12	6/30/2005	--	77.28	53.17	--	24.11	--	--	--	<0.5	<0.5	<0.5	<1.0	--	--	
MW-12	12/27/2005	--	77.28	53.17	--	24.11	--	--	--	**0.824**	<0.5	<0.5	<1.5	--	--	
MW-12	6/30/2006	--	77.28	52.96	--	24.32	--	--	--	<0.5	<0.5	<0.5	<1.5	--	--	
MW-12	4/30/2007	--	77.28	51.37	--	25.91	--	--	--	<1.0	<1.0	<1.0	<2.0	--	--	
MW-12	8/31/2007	--	77.28	51.93	--	25.35	--	--	--	<1	<1	<1	<2	<3	--	
MW-12	1/23/2008	--	77.28	51.39	--	25.89	--	--	--	<1	<1	<1	<2	--	--	
MW-12	8/15/2008	--	83.90	52.25	--	31.65	--	--	--	<1	<1	<1	**3**	--	--	
MW-12	3/18/2009	--	83.90	51.20	--	32.70	--	--	--	--	--	--	--	--	--	
MW-12	6/4/2009	--	83.90	51.39	--	32.51	--	--	--	<0.5	<0.5	<0.5	<1.5	--	--	
MW-12	9/1/2009	--	83.90	53.00	--	30.90	--	--	--	<0.5	<0.5	<0.5	<1.5	--	--	
MW-12	12/8/2009	--	83.90	52.27	--	31.63	--	--	--	--	--	--	--	--	--	
MW-12	5/17/2010	--	83.90	51.61	--	32.29	<10	**360**	--	<0.5	<0.5	<0.5	<1.5	--	--	
MW-12	8/24/2010	--	83.90	52.65	--	31.25	<10	**160**	--	<0.5	<0.5	<0.5	<1.5	--	--	
MW-12	4/26/2011	--	83.90	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	Obstructed
MW-12	9/20/2011	--	83.90	52.82	--	31.08	<10	**220**	**91**	<0.5	<0.5	<0.5	<1.5	--	--	
MW-12	5/18/2012	--	83.90	51.84	--	32.06	<10	**430**	**73**	<0.5	<0.5	<0.5	<1.5	--	--	
MW-12	9/17/2012	--	83.90	52.33	--	31.57	<10	**410**	**52**	<0.5	<0.5	<0.5	<1.5	--	--	
MW-12	4/29/2013	--	83.90	44.40	--	39.50	<100	<520	**--**	<1.0	<1.0	<1.0	<3.0	**--**	--	
MW-12	9/17/2013	--	83.90	52.75	--	31.15	<100	<420	**--**	<1.0	<1.0	<1.0	<3.0	**--**	--	
MW-12	4/28/2014	--	83.90	50.74	--	33.16	<100	**270**	**--**	<1.0	<1.0	<1.0	<3.0	**--**	--	
MW-12	9/4/2014	--	83.90	51.63	--	32.27	<100	<400	**--**	<1.0	<1.0	<1.0	<3.0	**--**	--	
MW-12	4/14/2015	--	83.90	52.25	--	31.65	<100	<400	--	<1.0	<1.0	<1.0	<3.0	--	--	

Table 1. Historical Groundwater Gauging and Analytical Results
Third Quarter 2001 to Current
Chevron Facility 306450
4351 Old International Airport Road
Anchorage, Alaska

Well ID	Sample Date	Screen Interval (ft bTOC)	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (feet)	GW Elev (ft)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-d w/si (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Comments
ADEC Groundwater Cleanup Levels							**2,200**	**1,500**	**1,500**	**4.6**	**1,100**	**15**	**190**	**140**	**1.7**	
MW-12	9/3/2015	--	83.90	54.31	--	29.59	<100	<400	--	<1.0	<1.0	<1.0	<3.0	--	--	
MW-12	4/13/2016	--	83.90	53.10	--	30.80	<10	**400**	--	<0.5	<0.5	<0.5	<0.5	--	--	
MW-12	9/16/2016	--	83.90	54.43	--	29.47	<10	**1,100**	--	<0.5	<0.5	<0.5	<0.5	--	--	
MW-12	5/11/2017	--	83.90	52.98	--	30.92	--	--	--	--	--	--	--	--	--	Not Sampled
MW-12	9/11/2017	--	83.90	53.77	--	30.13	<10	**280**	--	<0.5	<0.5	<0.5	<0.5	--	--	
MW-12	4/6/2018	--	83.90	--	--	--	<10	**130 J**	--	<0.5	<0.5	<0.5	<0.5	--	--	Well not gauged - Half Frozen
MW-12	10/24/2018	--	83.90	53.48	--	30.42	<14	<500 B	--	<0.2	<0.2	<0.4	<1.0	--	--	
MW-12	4/19/2019	--	84.04	53.86	--	30.18	**14 J**	<490 B	--	<0.2	<1 B	<0.4	<1	--	--	
MW-12	9/18/2019	--	84.04	56.56	--	27.48	--	--	--	--	--	--		--	--	
MW-12	4/9/2020	--	84.04	53.71	0.00	30.33	**29.1 J**	**727 J**	--	<1.00	<1.00	<1.00	<3.00	<1.00	***<5.00***	
MW-12	10/7/2020	--	84.04	54.05	0.00	29.99	<100	<800	--	<1.00	<1.00	<1.00	<3.00	<1.00	***<5.00***	
MW-12	9/7/2021	--	84.04	54.62	0.00	29.42	<100	<800 B	<1.00	<1.00	<1.00	<3.00	<1.00	<5.00	<0.00500	
MW-12	4/12/2022	--	84.04	53.45	0.00	30.59	<100 J	460 J		<1.00	<1.00	<1.00	<3.00	<1.00	***<5.00 J***	
MW-13	3/4/2001	--	78.28	52.20	--	26.08	--	--	--	**262**	<2.50	<2.50	<5.00	--	--	
MW-13	4/21/2001	--	78.28	52.38	--	25.90	--	--	--	--	--	--	--	--	--	
MW-13	5/30/2001	--	78.28	52.52	--	25.76	--	--	--	--	--	--	--	--	--	
MW-13	6/27/2001	--	78.28	54.10	--	24.18	--	--	--	**0.36**	<0.500	<0.500	<1.00	--	--	
MW-13	9/26/2001	--	78.28	53.41	--	24.87	--	--	--	**1,050**	**5.46**	**6.08**	**17.2**	--	--	
MW-13	12/9/2001	--	78.28	52.86	--	25.42	--	--	--	**3,110**	<0.500	**57.8**	**191**	--	--	
MW-13	3/18/2002	--	78.28	52.98	--	25.30	--	--	--	**71.5**	<0.500	<0.500	<1.00	--	--	
MW-13	6/24/2002	--	78.28	53.25	--	25.03	--	--	--	**1.16 / 0.711**	<0.50/<0.50	<0.50/<0.50	<1.00/<1.00	--	--	
MW-13	3/27/2003	--	78.28	--	--	--	--	--	--	**0.8**	<0.5	<0.5	<1.0	--	--	
MW-13	6/10/2003	--	78.28	--	--	--	--	--	--	<0.5	<0.5	<0.5	<1.0	--	--	
MW-13	9/6/2003	--	78.28	--	--	--	--	--	--	<0.5	<0.5	<0.5	<1.0	--	--	
MW-13	11/29/2003	--	78.28	54.25	--	24.03	--	--	--	**2,725**	<0.5	**8.9**	**63**	--	--	
MW-13	3/22/2004	--	78.28	53.40	--	24.88	--	--	--	**764**	<0.5	**0.88**	**1.4**	--	--	
MW-13	6/29/2004	--	78.28	53.43	--	24.85	<50	--	--	**1.8**	<0.5	<0.5	<1.0	--	--	
MW-13	9/15/2004	--	78.28	--	--	--	<50	--	--	**3.75**	<0.5	<0.5	<1.0	--	--	
MW-13	12/28/2004	--	78.28	53.51	--	24.77	**3,400**	--	--	**1,690**	3.0	<0.5	<1.0	--	--	
MW-13	3/29/2005	--	78.28	--	--	--	**430**	--	--	**138**	<0.5	<0.5	<1.0	--	--	
MW-13	6/30/2005	--	78.28	53.86	--	24.42	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	
MW-13	9/28/2005	--	78.28	--	--	--	**<5,000**	--	--	**640**	<50	<50	<150	--	--	
MW-13	12/27/2005	--	78.28	52.89	--	25.39	**4,150/4,290**	--	--	**1,380/1,430**	<5/<5	<5/<5	<15/<15	--	--	
MW-13	3/31/2006	--	78.28	--	--	--	<50	--	--	<0.5	<0.5	<0.5	<1.5	--	--	
MW-13	6/30/2006	--	78.28	53.80	--	24.48	<50	--	--	**0.634**	<0.5	<0.5	<1.5	--	--	
MW-13	11/18/2006	--	78.28	--	--	--	**<10,000**	--	--	**7.6**	<1.0	<1.0	<2.0	--	--	
MW-13	4/30/2007	--	78.28	52.25	--	26.03	<10	--	--	<1/<1	<1/<1	<1/<1	<2/<2	--	--	
MW-13	8/31/2007	--	78.28	53.18	--	25.10	10	--	--	<1	<1	<1	<2	<3	--	
MW-13	10/31/2007	--	78.28	52.71	--	25.57	10	--	--	<1	<1	<1	<2	<3	--	
MW-13	1/23/2008	--	78.28	52.31	--	25.97	10	--	--	<1	<1	<1	<2	--	--	
MW-13	6/27/2008	--	78.28	52.90	--	25.38	<10	--	--	<1	<1	<1	<2	--	--	
MW-13	8/8/2008	--	84.89	53.24	--	31.65	<10/<10	**87/110**	--	<1/<1	<1/<1	<1/<1	<2/<2	--	--	
MW-13	12/9/2008	--	84.89	52.35	--	32.54	**20**	--	--	<1	<1	<1	<2	<3	--	
MW-13	3/18/2009	--	84.89	52.14	--	32.75	**15**	<49	--	<0.5	<0.5	<0.5	<1.5	<2.5	--	
MW-13	6/4/2009	--	84.89	52.32	--	32.57	**17**	--	--	<0.5	<0.5	<0.5	<1.5	--	--	
MW-13	9/1/2009	--	84.89	53.90	--	30.99	**20**	--	--	<0.5	<0.5	<0.5	<1.5	--	--	
MW-13	12/8/2009	--	84.89	53.18	--	31.71	<10	--	--	<0.5	<0.5	<0.5	<1.5	--	--	
MW-13	5/17/2010	--	84.89	52.60	--	32.29	<10	<50	--	<0.5	<0.5	<0.5	<1.5	--	--	
MW-13	6/25/2010	--	--	--	--	--	<10	<49	--	<0.5	<0.5	<0.5	<1.5	--	--	Sampling performed for post-surfactant injection monitoring.
MW-13	8/25/2010	--	84.89	53.60	--	31.29	<10	160	--	<0.5	0.7	<0.5	<1.5	--	--	
MW-13	4/26/2011	--	84.89	53.60	--	31.29	<10	<48	--	<0.5	<0.5	<0.5	<1.5	--	--	
MW-13	9/20/2011	--	84.89	53.79	--	31.10	**28**	<47	<48	**4.9**	<0.5	<0.5	<1.5	--	--	
MW-13	5/18/2012	--	84.89	52.75	--	32.14	<10	**58**	<47	<0.5	<0.5	<0.5	<1.5	--	--	
MW-13	9/17/2012	--	84.89	53.21	--	31.68	<10	**250**	**89**	<0.5	<0.5	<0.5	<1.5	--	--	
MW-13	4/30/2013	--	84.89	52.41	--	32.48	<100	<520	--	<1.0	<1.0	<1.0	<3.0	--	--	
MW-13	9/17/2013	--	84.89	53.62	--	31.27	<100	<420	--	<1.0	<1.0	<1.0	<3.0	--	--	
MW-13	4/28/2014	--	84.89	51.62	--	33.27	<100	<260	--	<1.0	<1.0	<1.0	<3.0	--	--	

Table 1. Historical Groundwater Gauging and Analytical Results
Third Quarter 2001 to Current
Chevron Facility 306450
4351 Old International Airport Road
Anchorage, Alaska

Well ID	Sample Date	Screen Interval (ft bTOC)	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (feet)	GW Elev (ft)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-d w/si (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Comments
ADEC Groundwater Cleanup Levels							**2,200**	**1,500**	**1,500**	**4.6**	**1,100**	**15**	**190**	**140**	**1.7**	
MW-13	9/4/2014	--	84.89	55.21	--	29.68	<100	<400	--	<1.0	<1.0	<1.0	<3.0	--	--	
MW-13	4/14/2015	--	84.89	53.13	--	31.76	<100	<420	--	<1.0	<1.0	<1.0	<3.0	--	--	
MW-13	9/3/2015	--	84.89	55.03	--	29.86	<100	<410	--	<1.0	<1.0	<1.0	<3.0	--	--	
MW-13	4/13/2016	--	84.89	53.89	--	31.00	<10	<49	--	<0.5	<0.5	<0.5	<0.5	--	--	
MW-13	9/16/2016	--	84.89	55.28	--	29.61	<10	**73**	--	<0.5	<0.5	<0.5	<0.5	--	--	
MW-13	5/11/2017	--	84.89	53.73	--	31.16	<10	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	
MW-13	9/11/2017	--	84.89	54.58	--	30.31	<10	<51	--	<0.5	<0.5	<0.5	<0.5	--	--	
MW-13	4/6/2018	--	84.89	54.58	--	30.31	<10	<51	--	<0.5	<0.5	<0.5	<0.5	--	--	
MW-13	10/24/2018	--	84.89	54.20	--	30.69	<14	<120 B	--	<0.2	<0.2	<0.4	<1.0	--	--	
MW-13	4/19/2019	--	84.89	54.73	--	30.16	<14	<270 B	--	<0.2	<0.2	<0.4	<1	--	--	
MW-13	9/24/2019	--	84.89	57.22	--	27.67	<100	<94	--	<0.53	<0.39	<0.50	<0.75	--	--	
MW-13	4/9/2020	--	84.89	54.63	0.00	30.26	**19.2 J**	<800	--	<1.00	**0.385 J**	**0.272 J**	**2.74 J**	<1.00	***<5.00***	
MW-13	10/7/2020	--	84.89	54.86	0.00	30.03	<100 J	<800	--	<1.00	<1.00	<1.00	<3.00	<1.00	***<5.00***	
MW-13	04/14/2021	--	84.89	54.40	0.00	30.49	<100 B	<840	--	<1.00	**0.402 J**	<1.00	**0.824 J**	<1.00	***<5.00***	
MW-13	9/7/2021	--	84.89	55.41	0.00	29.48	<100	<925 B	<1.00	**0.365 J**	<1.00	<3.00	<1.00	<5.00	<0.00500	
MW-13	4/12/2022	--	84.89	54.33	0.00	30.56	<100	<888		<1.00	<1.00	<1.00	<3.00	<1.00	***<5.00 J***	
MW-14	9/20/2011	--	82.62	23.25	--	59.37	--	--	--	--	--	--	--	--	--	
MW-14	5/18/2012	--	82.62	--	--	--	--	--	--	--	--	--	--	--	--	Well Dry
MW-14	9/17/2012	--	82.62	--	--	--	--	--	--	--	--	--	--	--	--	Well Dry
MW-14	4/29/2013	--	82.62	23.05	--	59.57	--	--	--	--	--	--	--	--	--	
MW-14	9/17/2013	--	82.62	--	--	--	--	--	--	--	--	--	--	--	--	Well Dry
MW-14	4/28/2014	--	82.62	--	--	--	--	--	--	--	--	--	--	--	--	Well Dry
MW-14	9/3/2014	--	82.62	23.43	--	59.19	--	--	--	--	--	--	--	--	--	
MW-14	4/14/2015	--	82.62	23.40	--	59.22	--	--	--	--	--	--	--	--	--	
MW-14	9/2/2015	--	82.62	--	--	--	--	--	--	--	--	--	--	--	--	Well Dry
MW-14	9/15/2016	--	82.62	--	--	--	--	--	--	--	--	--	--	--	--	Well Dry
MW-14	5/10/2017	--	82.62	--	--	--	--	--	--	--	--	--	--	--	--	Well Dry
MW-14	9/11/2017	--	82.62	--	--	--	--	--	--	--	--	--	--	--	--	Well Dry
MW-14	4/6/2018	--	82.62	--	--	--	--	--	--	--	--	--	--	--	--	Well Frozen
MW-14	10/24/2018	--	82.62	--	--	--	--	--	--	--	--	--	--	--	--	Well Dry
MW-14	4/19/2019	--	83.66	--	--	--	--	--	--	--	--	--	--	--	--	Well Dry
MW-14	9/18/2019	--	83.66	--	--	--	--	--	--	--	--	--	--	--	--	Well Dry
MW-14	4/9/2020	--	83.66	--	--	--	--	--	--	--	--	--	--	--	--	Dry at 23.4 ft btoc
MW-14	10/7/2020	--	83.66	23.35	0.00	60.31	--	--	--	--	--	--	--	--	--	Insufficient water to sample
MW-14	9/7/2021	--	83.66	--	0.00	--	--	--	--	--	--	--	--	--	--	Dry at 23.3 ft btoc
RW-14	3/4/2001	--	77.46	50.65	--	26.81	--	--	--	--	--	--	--	--	--	Not sampled due to the presence of LNAPL
RW-14	4/21/2001	--	77.46	50.82	--	26.38	--	--	--	--	--	--	--	--	--	
RW-14	5/30/2001	--	77.46	50.94	--	26.52	--	--	--	--	--	--	--	--	--	
RW-14	6/27/2001	--	77.46	52.55	--	24.49	--	--	--	--	--	--	--	--	--	Not sampled due to the presence of LNAPL
RW-14	7/19/2001	--	77.46	52.82	--	24.35	--	--	--	--	--	--	--	--	--	
RW-14	8/19/2001	--	77.46	--	--	--	--	--	--	--	--	--	--	--	--	
RW-14	9/26/2001	--	77.46	51.90	--	26.2	--	--	--	--	--	--	--	--	--	Not sampled due to the presence of LNAPL
RW-14	10/23/2001	--	77.46	51.71	--	25.47	--	--	--	--	--	--	--	--	--	
RW-14	11/29/2001	--	77.46	51.28	--	26.18	--	--	--	--	--	--	--	--	--	
RW-14	12/9/2001	--	77.46	51.28	--	26.18	--	--	--	--	--	--	--	--	--	Not sampled due to the presence of LNAPL
RW-14	1/16/2002	--	77.46	50.83	--	26.63	--	--	--	--	--	--	--	--	--	
RW-14	2/26/2002	--	77.46	51.36	--	26.10	--	--	--	--	--	--	--	--	--	
RW-14	3/18/2002	--	77.46	51.04	--	26.42	--	--	--	--	--	--	--	--	--	Not sampled due to the presence of LNAPL
RW-14	4/30/2002	--	77.46	51.25	--	26.21	--	--	--	--	--	--	--	--	--	
RW-14	5/24/2002	--	77.46	51.09	--	25.72	--	--	--	--	--	--	--	--	--	
RW-14	6/24/2002	--	77.46	51.58	--	25.47	--	--	--	--	--	--	--	--	--	Not sampled due to the presence of LNAPL
RW-14	3/27/2003	--	77.46	51.57	--	25.89	--	--	--	--	--	--	--	--	--	
RW-14	6/10/2003	--	77.46	52.41	--	25.05	--	--	--	--	--	--	--	--	--	
RW-14	9/6/2003	--	77.46	53.81	**0.02**	23.67	--	--	--	--	--	--	--	--	--	Duplicate (labeled RW-15) assumed to be from well RW-14.
RW-14	11/29/2003	--	77.46	52.65	**0.01**	24.82	--	--	--	--	--	--	--	--	--	Duplicate (labeled RW-15) assumed to be from well RW-14.
RW-14	3/22/2004	--	77.46	51.86	**0.01**	25.61	--	--	--	--	--	--	--	--	--	Duplicate (labeled RW-15) assumed to be from well RW-14.

Table 1. Historical Groundwater Gauging and Analytical Results
Third Quarter 2001 to Current
Chevron Facility 306450
4351 Old International Airport Road
Anchorage, Alaska

Well ID	Sample Date	Screen Interval (ft bTOC)	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (feet)	GW Elev (ft)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-d w/si (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Comments
ADEC Groundwater Cleanup Levels							**2,200**	**1,500**	**1,500**	**4.6**	**1,100**	**15**	**190**	**140**	**1.7**	
RW-14	6/29/2004	--	77.46	51.84	**film**	25.62	--	--	--	--	--	--	--	--	--	
RW-14	12/28/2004	--	77.46	50.84	**film**	26.62	--	--	--	--	--	--	--	--	--	
RW-14	6/30/2005	--	77.46	50.30	**film**	27.16	--	--	--	--	--	--	--	--	--	
RW-14	9/28/2005	--	77.46	50.13	--	27.33	--	--	--	--	--	--	--	--	--	
RW-14	12/27/2005	--	77.46	50.02	--	27.44	--	--	--	--	--	--	--	--	--	
RW-14	3/31/2006	--	77.46	51.66	**0.01**	25.81	--	--	--	--	--	--	--	--	--	Duplicate (labeled RW-15) assumed to be from well RW-14.
RW-14	6/30/2006	--	77.46	52.33	**film**	25.13	--	--	--	--	--	--	--	--	--	
RW-14	4/30/2007	--	77.46	48.35	**film**	29.11	--	--	--	--	--	--	--	--	--	
RW-14	8/31/2007	--	77.46	50.03	--	27.43	--	--	--	--	--	--	--	--	--	
RW-14	10/31/2007	--	77.46	49.20	--	28.26	**6,000/5,700**	**1,400/1,100**	--	**100/90**	**600/600**	**200/200**	**1,000/1,000**	<10/<10	--	Duplicate (labeled RW-15) assumed to be from well RW-14.
RW-14	1/24/2008	--	77.46	48.68	--	28.78	**7,300/7,000**	**2,900/2,200**	--	**30/40**	**500/500**	**200/200**	**1,300/1,300**		--	Duplicate
RW-14	7/1/2008	--	77.46	51.78	--	25.68	**3,500**	**1,500**	--	**9**	**100**	**60**	**400**		--	
RW-14	8/15/2008	--	83.85	51.78	--	32.07	**1,500**	**780**	--	**20**	**40**	**20**	**100**	--	--	
RW-14	12/9/2008	--	83.85	50.75	--	33.10	**700/700**	**690/250**	--	**8/8**	**20/20**	**10/10**	**60/60**	<3/<5	--	
RW-14	3/18/2009	--	83.85	50.59	--	33.26	**1,600**	**1,700**	--	**7**	**11**	**16**	**100**	<2.5	--	
RW-14	6/5/2009	--	83.85	50.81	--	33.04	**1,100**	**530**	--	**5.7**	**17**	**23**	**130**	--	--	
RW-14	9/2/2009	--	83.85	52.51	**0.02**	31.36	--	--	--	--	--	--	--	--	--	
RW-14	12/8/2009	--	83.85	51.63	--	32.22	**19,000**	**2,300**	--	**83**	**1,800**	**540**	**4,400**		--	
RW-14	5/17/2010	--	83.85	51.06	--	32.79	**7,200**	**1,500**	--	**14**	**310**	**240**	**1,700**	--	--	
RW-14	5/21/2010	--	--	--	--	--	**6,300**	**5,500**	--	**54**	**240**	**150**	**1,100**	--	--	Sampling performed for post-surfactant injection monitoring.
RW-14	5/24/2010	--	--	--	--	--	**5,500**	**2,200**	--	**260**	**470**	**130**	**810**	--	--	Sampling performed for post-surfactant injection monitoring.
RW-14	5/27/2010	--	--	--	--	--	**2,900/4,900**	**4,300/3,900**	--	**88/160**	**250/390**	**63/110**	**390/750**	--	--	Sampling performed for post-surfactant injection monitoring.
RW-14	6/3/2010	--	--	--	--	--	**6,700**	**3,100**	--	**73**	**420**	**150**	**1,300**	--	--	Sampling performed for post-surfactant injection monitoring.
RW-14	6/9/2010	--	--	--	--	--	**14,000/13,000**	**1,800/2,400**	--	**59/54**	**580/540**	**250/240**	**2,200/2,400**	--	--	Sampling performed for post-surfactant injection monitoring.
RW-14	6/19/2010	--	--	--	--	--	**5,800**	**1,700**	--	**32**	**450**	**140**	**4,000**	--	--	Sampling performed for post-surfactant injection monitoring.
RW-14	6/25/2010	--	83.85	56.41	--	32.79	**6,800**	**5,200**	--	**28**	**280**	**98**	**1,400**	--	--	Sampling performed for post-surfactant injection monitoring.
RW-14	7/29/2010	--	83.85	52.27	--	31.58	**9,400**	**3,600**	--	**43**	**310**	**120**	**2,200**	--	--	Sampling performed for post-surfactant injection monitoring.
RW-14	8/25/2010	--	83.85	51.9	--	31.95	**5,400/1,200**	**4,100/3,600**	--	**23/19**	**95/52**	**51/15**	**610/210**	--	--	
RW-14	10/19/2010	--	83.85	51.15	--	32.70	**6,300**	**2,200**	--	**20**	**52**	**54**	**710**	--	--	Sampling performed for post-surfactant injection monitoring.
RW-14	4/26/2011	--	83.85	51.04	--	32.81	**2,500**	**2,900**	--	**13**	**36**	**18**	**610**	--	--	
RW-14	9/20/2011	--	83.85	52.05	--	31.80	**4,800**	**1,800**	**1,300**	**93**	**370**	**37**	**1,100**	--	--	
RW-14	5/18/2012	--	83.85	51.38	--	32.47	**1,700**	**990**	**540**	**8.7**	**8.8**	**13**	**78**	--	--	
RW-14	9/17/2012	--	83.85	51.6	--	32.25	**1,100**	**360**	**120**	**7.6**	<4.0	**11**	**29**	--	--	
RW-14	4/30/2013	--	83.85	49.8	--	34.05	**795**	<510	--	**7.7**	**1.7**	**22.5**	**95.7**	--	--	
RW-14	9/17/2013	--	83.85	52.05	--	31.80	**281**	<410	--	**6.7**	**1.7**	**11.4**	**28.8**	--	--	
RW-14	9/17/2013	--	83.85	52.05	--	31.80	**230**	<420	--	**19.2**	**26.4**	**10.5**	**37.6**	--	--	Duplicate
RW-14	4/28/2014	--	83.85	50.05	--	33.80	**443**	**850**	--	**5.4**	<1.0	**12.7**	**34.9**	--	--	
RW-14	4/28/2014	--	83.85	50.05	--	33.80	**436**	**1,000**	--	**5.4**	<1.0	**12.6**	**35**	--	--	Duplicate
RW-14	9/4/2014	--	83.85	53.44	--	30.41	**435**	**1,100**	--	**5**	<1.0	**16.8**	**40.2**	--	--	
RW-14	4/15/2015	--	83.85	51.45	--	32.40	<100	<400	--	**2.9**	<1.0	**4.4**	**3.5**	--	--	
RW-14	9/3/2015	--	83.85	--	--	--	--	--	--	--	--	--	--	--	--	Well Dry
RW-14	4/13/2016	--	83.85	51.36	--	32.49	**210**	**810**	--	**3.0**	<0.5	**3**	**1.0**	--	--	
RW-14	9/15/2016	--	83.85	54.30	--	29.55	**82**	**89**	--	**2.0**	<0.5	**3**	<0.5	--	--	
RW-14	5/10/2017	--	83.85	52.25	--	31.60	--	--	--	--	--	--	--	--	--	Well Dry
RW-14	9/11/2017	--	83.85	--	--	--	--	--	--	--	--	--	--	--	--	Well Dry
RW-14	4/6/2018	--	83.85	--	--	--	**120**	**140 J**	--	**2.0**	<0.5	<0.5	<0.5	--	--	Obstruction, well not gauged
RW-14	10/24/2018	--	83.85	--	--	--	--	--	--	--	--	--	--	--	--	
RW-14	4/19/2019	--	83.89	53.15	--	30.74	**280**	<560 B	--	**2**	<0.2	**7**	<1	--	--	
RW-14	9/18/2019	--	83.89	Dry	--	Dry	--	--	--	--	--	--	--	--	--	Well Dry
RW-14	4/9/2020	--	83.89	53.10	0.00	30.79	--	--	--	--	--	--	--	--	--	Unable to sample due to pump stuck in well
RW-14	10/7/2020	--	83.89	53.26	0.00	30.63	--	--	--	--	--	--	--	--	--	Unable to sample due to pump stuck in well
RW-14	9/7/2021	--	83.89	53.90	0.00	29.99	--	--	--	--	--	--	--	--	--	Unable to sample due to pump stuck in well

Table 1. Historical Groundwater Gauging and Analytical Results
Third Quarter 2001 to Current
Chevron Facility 306450
4351 Old International Airport Road
Anchorage, Alaska

Well ID	Sample Date	Screen Interval (ft bTOC)	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (feet)	GW Elev (ft)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-d w/si (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Comments
ADEC Groundwater Cleanup Levels							**2,200**	**1,500**	**1,500**	**4.6**	**1,100**	**15**	**190**	**140**	**1.7**	
QA-TB	4/9/2020	--	--	--	--	--	<100	--	--	<1.00	<1.00	<1.00	<3.00	<1.00	***<5.00***	
QA-TB	10/8/2020	--	--	--	--	--	<100	--	--	<1.00	<1.00	<1.00	<3.00	<1.00	***<5.00***	
QA-TB	4/14/2021	--	--	--	--	--	**11.1 J**	--	--	<1.00	<1.00	<1.00	<3.00	<1.00	***<5.00***	
QA-TB	9/7/2021	--	--	--	--	--	**32.7 J**	--	<1.00	<1.00	<1.00	<3.00	<1.00	<5.00 J	<0.00500 J	
QA-TB	4/12/2022	--	--	--	--	--	<100	--		<1.00	<1.00	<1.00	<3.00	<1.00	***<5.00***	
QA-EB	4/8/2020	--	--	--	--	--	<100	<840	--	<1.00	<1.00	<1.00	<3.00	<1.00	***<5.00***	
QA-EB	10/7/2020	--	--	--	--	--	<100	<800	--	<1.00	<1.00	<1.00	<3.00	<1.00	***<5.00***	
QA-EB	4/14/2021	--	--	--	--	--	**11.4 J**	<840	--	<1.00	<1.00	<1.00	<3.00	<1.00	***<5.00***	
QA-EB	9/7/2021	--	--	--	--	--	<100	**520 J**	<1.00	<1.00	<1.00	<3.00	<1.00	<5.00	<0.00500	
QA-EB	4/12/2022	--	--	--	--	--	<100	<888		<1.00	<1.00	<1.00	<3.00	<1.00	***<5.00***	

Notes:

ID = Identification
MW, RW = Groundwater monitoring well
TOC = Top of casing
DTW = Depth to groundwater
ft bTOC = Feet below top of casing
ft = Feet relative to NAVD88
GW Elev = Groundwater elevation
µg/L = Micrograms per liter
Additional analysis for diesel range organics will be included on the laboratory report for April 2015 event.
UB (or B): Compound considered non-detect at the listed value due to associated blank contamination.
Bold = Value exceeds laboratory method detection limit (MDL)
Bold and shaded = Value exceeds ADEC Groundwater Cleanup Level
Laboratory RDL is greater than the ADEC Groundwater Cleanup Level
<100 = Not detected at or above the reported detection limit (RDL)
J - The compound was positively identified; however, the associated numerical value is an estimated concentration only.

TPH-g = Total petroleum hydrocarbons, gasoline range by LUFT GC/MS according to State of Alaska Method AK101.
TPH-d = Total petroleum hydrocarbons, diesel range by LUFT GC/MS according to State of Alaska Method AK102.
Samples analytes by USEPA Method 8260D:
Benzene, Toluene, Ethylbenzene and Total xylenes (collectively BTEX)
MTBE = Methyl-t-butyl ether
Naphthalene
QA-EB = Quality Assurance, Equipment Blank
QA-TB = Quality Assurance, Trip Blank
LUFT = Leaking Underground Fuel Tank
GC/MS = Gas chromatography/Mass Spectrometry
[ ] -Blind Duplicate Sample Results
NAVD 88 = North American Vertical Datum of 1988
ADEC GCL = Alaska Department of Environmental Conservation groundwater cleanup level
ND = Not detected
LNAPL = Light non-aqueous phase liquid
-- = Not sampled/not measured
D = The result reported from diluted analysis

Table 2a. Historical Groundwater Analytical Results - Additional VOCs
Second Quarter 2020 to Current
Chevron Facility 306450
4351 Old International Airport Road
Anchorage, Alaska

Well ID	Sample Date	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Tetrachloroethene (µg/L)	Isopropylbenzene (µg/L)	1,1,2,2-Tetrachloroethane (µg/L)	1,1,2-Trichloroethane (µg/L)	Chloroform (µg/L)	Vinyl chloride (Chloroethene) (µg/L)	1,1-Dichloroethane (µg/L)	Comments
ADEC Groundwater Cleanup Levels		**0.0750**	**1.7**	**56**	**41**	**--**	**0.76**	**0.41**	**2.2**	**0.19**	**28**	
MW-5	**4/9/2020**	***<0.500***	<1.00	**28.3**	<1.00	**1.43**	***<1.00***	***<1.00***	***<5.00***	***<1.00***	<1.00	
MW-5	**10/7/2020**	***<0.125***	**0.977 J**	**108**	<1.00	**6.96**	***<1.00***	***<1.00***	***<5.00***	***<1.00***	<1.00	
MW-5	**9/7/2021**	***<0.250 [<0.250]***	<1.00 [1.08]	**113 J [49.7 J]**	<1.00 [<1.00]	**9.24 [9.99]**	***<1.00 [<1.00]***	***<1.00 [<1.00]***	**2.81 J [2.84 J]**	***<1.00 [<1.00]***	<1.00 [<1.00]	
MW-5	**4/12/2022**	***<0.250 [<0.250]***	<5.00 **[1.65 J**]	**119[153]**	<5.00 [<10.0]	**7.77[9.78 J]**	***<5.00 [<10.0]***	***<5.00 [<10.0]***	**<25.0 [<50.0]**	***<5.00 [<10.0]***	<5.00 [<10.0]	
MW-5A	**4/9/2020**	**1.50 [1.55]**	**0.478 J [0.439 J]**	**8.44 J [12.3 J]**	<1.00 [<5.00]	**1.06 [1.04]**	***<1.00 [<1.00]***	***<1.00 [<1.00]***	***<5.00 [<5.00]***	***<1.00 [<1.00]***	<1.00 [<1.00]	
MW-5A	**10/7/2020**	**1.06 [0.96]**	<1.00 [<1.00]	**9.08 J [4.59 J]**	<1.00 [<1.00]	**0.604 J [0.909 J]**	***<1.00 [<1.00]***	***<1.00 [<1.00]***	***<5.00 [<5.00]***	***<1.00 [<1.00]***	<1.00 [<1.00]	
MW-5A	**4/14/2021**	**0.08**	**0.253 J**	**0.640 J**	<1.00 J	**6.05**	***<1.00***	***<1.00***	***<5.00 J***	***<1.00 J***	<1.00 J	
MW-5A	**9/7/2021**	<0.0500 J	<1.00	**0.721 J**	<1.00	**9.17**	***<1.00***	***<1.00***	***0.315 J***	***<1.00***	<1.00	
MW-5A	**4/12/2022**	**0.09**	**0.195 J**	**2.78**	<1.00	**2.19**	***<1.00***	***<1.00***	***<5.00***	***<1.00***	<1.00	
MW-7	**4/9/2020**	**160**	**158 J**	**3,350**	**150 J**	**142 J**	***<250***	***<250***	***<1,250***	***<250***	***<250***	
MW-7	**10/8/2020**	**180**	**152 J**	**2,230**	***<250***	**111 J**	***<250***	***<250***	***<1,250***	***<250***	***<250***	
MW-7	**4/14/2021**	**370 [380]**	**177 J [140]**	**2,550 [2,570]**	***<250 [<100]***	**117 J [116]**	***<250 [<100]***	***<250 [<100]***	***<1,250 [<500]***	***<250 [<100]***	***<250 [<100]***	
MW-7	**9/7/2021**	**325**	***<1,000***	**1,670**	***<1,000***	<1,000	***<1,000***	***<1,000***	***<5,000***	***<1,000***	***<1,000***	
MW-7	**4/12/2022**	**375**	***<1,000***	**2,040**	***<1,000***	115 J	***<1,000***	***<1,000***	***<5,000***	***<1,000***	***<1,000***	
MW-7A	**4/9/2020**	**8.80**	**10.4**	**883**	<25.0	**28.7**	***<1.00***	***<1.00***	***<5.00***	***<1.00***	<1.00	
MW-7A	**10/8/2020**	**50.0 J**	**31.9**	**1,550**	<25.0	**18.6 J**	***<25.0***	***<25.0***	***<125***	***<25.0***	<25.0	
MW-7A	**4/14/2021**	**14**	**11.0 J**	**679**	<25.0	**7.95 J**	***<25.0***	***<25.0***	***<125***	***<25.0***	<25.0	
MW-7A	**9/7/2021**	**0.65**	**5.67 J**	**45.4**	<25.0	<25.0	***<25.0***	***<25.0***	***<125***	***<25.0***	<25.0	
MW-7A	**4/12/2022**	**2.25**	**13.7 J**	**1,040**	<25.0	8.40 J	***<25.0***	***<25.0***	***<125***	***<25.0***	<25.0	
MW-11	**4/9/2020**	--	--	--	--	--	--	--	--	--	--	Well vault frozen with ice, Could not free PVC Without damaging it
MW-11	**10/8/2020**	<0.00500 [<0.00500]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	***<1.00 [<1.00]***	***<1.00 [<1.00]***	***<5.00 [<5.00]***	***<1.00 [<1.00]***	<1.00 [<1.00]	
MW-11	**9/7/2021**	<0.00500	**0.191 J**	<1.00	<1.00	<1.00	***<1.00***	***<1.00***	***<5.00***	***<1.00***	<1.00	
MW-11	**4/12/2022**	<0.00500	<1.00	<1.00	<1.00	<1.00	***<1.00***	***<1.00***	***<5.00 B***	***<1.00***	<1.00	
MW-12	**4/9/2020**	<0.00500	<1.00	<1.00	<1.00	<1.00	***<1.00***	***<1.00***	***<5.00***	***<1.00***	<1.00	
MW-12	**10/7/2020**	<0.00500	<1.00	<1.00	<1.00	<1.00	***<1.00***	***<1.00***	***<5.00***	***<1.00***	<1.00	
MW-12	**9/7/2021**	<0.00500	<1.00	<1.00	<1.00	<1.00	***<1.00***	***<1.00***	***<5.00***	***<1.00***	<1.00	
MW-12	**4/12/2022**	<0.00500	<1.00	<1.00	<1.00	<1.00	***<1.00***	***<1.00***	***<5.00 B***	***<1.00***	<1.00	
MW-13	**4/9/2020**	<0.00500	**3.05**	**1.47 J**	<1.00	<1.00	***<1.00***	***<1.00***	***<5.00***	***<1.00***	<1.00	
MW-13	**10/7/2020**	<0.00500	**0.915 J**	<1.00	<1.00	<1.00	***<1.00***	***<1.00***	***<5.00***	***<1.00***	<1.00	
MW-13	**4/14/2021**	<0.00500	<1.00	<1.00	<1.00	<1.00	***<1.00***	***<1.00***	***<5.00***	***<1.00***	<1.00	
MW-13	**9/7/2021**	<0.00500	<1.00	<1.00	<1.00	<1.00 B	***<1.00***	***<1.00***	***<5.00***	***<1.00***	<1.00	
MW-13	**4/12/2022**	<0.00500	<1.00	<1.00	<1.00	<1.00	***<1.00***	***<1.00***	***<5.00 B***	***<1.00***	<1.00	
QA-TB	**4/9/2020**	<0.00500	<1.00	<1.00	<1.00	<1.00	***<1.00***	***<1.00***	***<5.00***	***<1.00***	<1.00	
QA-TB	**10/8/2020**	<0.00500	<1.00	<1.00	<1.00	<1.00	***<1.00***	***<1.00***	***<5.00***	***<1.00***	<1.00	
QA-TB	**4/14/2021**	<0.00500	<1.00	<1.00	<1.00	<1.00	***<1.00***	***<1.00***	***<5.00***	***<1.00***	<1.00	
QA-TB	**9/7/2021**	<0.00500	<1.00	<1.00	<1.00	<1.00	***<1.00***	***<1.00***	***<5.00***	***<1.00 J***	<1.00	
QA-TB	**4/12/2022**	<0.00500	<1.00	<1.00	<1.00	<1.00	***<1.00***	***<1.00***	***<5.00***	***<1.00***	<1.00	
EQB	**4/8/2020**	<0.00500	<1.00	<1.00	<1.00	<1.00	***<1.00***	***<1.00***	***<5.00***	***<1.00***	<1.00	
EQB	**10/7/2020**	<0.00500	<1.00	<1.00	<1.00	<1.00	***<1.00***	***<1.00***	***<5.00***	***<1.00***	<1.00	
EQB	**4/14/2021**	<0.00500	<1.00	<1.00	<1.00	<1.00	***<1.00***	***<1.00***	***<5.00***	***<1.00***	<1.00	
EQB	**9/7/2021**	<0.00500	<1.00	<1.00	<1.00	**0.121 J**	***<1.00***	***<1.00***	***<5.00***	***<1.00***	<1.00	
EQB	**4/12/2022**	<0.00500	<1.00	<1.00	<1.00	**<1.00**	***<1.00***	***<1.00***	***<5.00***	***<1.00***	<1.00	

Notes:
ID = Identification
MW = Groundwater monitoring well
µg/L = Micrograms per liter
<1.00 = Not detected at or above the Reported Detection Limit
Bold = Detected above laboratory method detection limit (MDL)
Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level
Bold and *Italicized* : Constituent considered non-detect, however Laboratory RDL is greater than the ADEC Groundwater Cleanup Level
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
[ ] = Blind Duplicate Sample Result
ADEC = Alaska Department of Environmental Conservation
Constituents analyzed by United States Environmental Protection Agency Method 8260D

Table 2b. Historical Groundwater Analytical Results - Additional VOCs
Second Quarter 2020 to Current
Chevron Facility 306450
4351 Old International Airport Road
Anchorage, Alaska

Well ID	Sample Date	1,2-Dichloropropane (µg/L)	1,3-Dichlorobenzene (µg/L)	1,4-Dichlorobenzene (µg/L)	Bromodichloromethane (µg/L)	Bromoform (µg/L)	Bromomethane (Methyl bromide) (µg/L)	Carbon Tetrachloride (µg/L)	Chlorobenzene (µg/L)	Chloromethane (Methyl chloride) (µg/L)	cis-1,2-Dichloroethene (µg/L)	Comments
ADEC Groundwater Cleanup Levels		**8.2**	**4.7**	**4.8**	**1.3**	**33**	**7.5**	**4.6**	**78**	**190**	**36**	
MW-5	**4/9/2020**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
MW-5	**10/7/2020**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
MW-5	**9/7/2021**	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<5.00 [<5.00]	<1.00 [<1.00]	<1.00 [<1.00]	<2.50 [<2.50]	<1.00 [<1.00]	
MW-5	**4/12/2022**	<5.00 [<10.0]	<5.00 [<10.0]	<5.00 [<10.0]	<5.00 [<10.0]	<5.00 [<10.0]	<25.0 [<50.0]	<5.00 [<10.0]	<5.00 [<10.0]	<12.5 [<25.0]	<5.00 [<10.0]	
MW-5A	**4/9/2020**	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<5.00 [<5.00]	<1.00 [<1.00]	<1.00 [<1.00]	<2.50 [<2.50]	<1.00 [<1.00]	
MW-5A	**10/7/2020**	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<5.00 [<5.00]	<1.00 [<1.00]	<1.00 [<1.00]	<2.50 [<2.50]	**0.236 J** [<1.00]	
MW-5A	**4/14/2021**	<1.00 J	<1.00 J	<1.00 J	<1.00 J	<1.00	<5.00 J	<1.00 J	<1.00 J	<2.50 J	<1.00 J	
MW-5A	**9/7/2021**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	**<1.00**	
MW-5A	**4/12/2022**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	**<1.00**	
MW-7	**4/9/2020**	***<250***	***<250***	***<250***	***<250***	***<250***	***<1,250***	***<250***	***<250***	***<625***	***<250***	
MW-7	**10/8/2020**	***<250***	***<250***	***<250***	***<250***	***<250***	***<1,250***	***<250***	***<250***	***<625***	***<250***	
MW-7	**4/14/2021**	***<250 [<100]***	***<250 [<100]***	***<250 [<100]***	***<250 [<100]***	***<250 [<100]***	***<1,250 [<500]***	***<250 [<100]***	***<250 [<100]***	***<625 [<250]***	***<250 [<100]***	
MW-7	**9/7/2021**	***<1,000***	***<1,000***	***<1,000***	***<1,000***	***<1,000***	***<5,000***	***<1,000***	***<1,000***	***<2,500***	***<1,000***	
MW-7	**4/12/2022**	***<1,000***	***<1,000***	***<1,000***	***<1,000***	***<1,000***	***<5,000***	***<1,000***	***<1,000***	***<2,500***	***<1,000***	
MW-7A	**4/9/2020**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
MW-7A	**10/8/2020**	***<25.0***	***<25.0***	***<25.0***	***<25.0***	<25.0	***<125***	***<25.0***	<25.0	<62.5	<25.0	
MW-7A	**4/14/2021**	***<25.0***	***<25.0***	***<25.0***	***<25.0***	<25.0	***<125***	***<25.0***	<25.0	<62.5	<25.0	
MW-7A	**9/7/2021**	***<25.0***	***<25.0***	***<25.0***	***<25.0***	<25.0	***<125***	***<25.0***	<25.0	<62.5	<25.0	
MW-7A	**4/12/2022**	***<25.0***	***<25.0***	***<25.0***	***<25.0***	<25.0	***<125***	***<25.0***	<25.0	<62.5	<25.0	
MW-11	**4/9/2020**	--	--	--	--	--	--	--	--	--	--	Well vault frozen with ice, Could not free PVC Without damaging it
MW-11	**10/8/2020**	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<5.00 [<5.00]	<1.00 [<1.00]	<1.00 [<1.00]	<2.50 [<2.50]	<1.00 [<1.00]	
MW-11	**9/7/2021**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
MW-11	**4/12/2022**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
MW-12	**4/9/2020**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
MW-12	**10/7/2020**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
MW-12	**9/7/2021**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
MW-12	**4/12/2022**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
MW-13	**4/9/2020**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
MW-13	**10/7/2020**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
MW-13	**4/14/2021**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
MW-13	**9/7/2021**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
MW-13	**4/12/2022**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
QA-TB	**4/9/2020**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
QA-TB	**10/8/2020**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
QA-TB	**4/14/2021**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
QA-TB	**9/7/2021**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50 J	<1.00	
QA-TB	**4/12/2022**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
EQB	**4/8/2020**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
EQB	**10/7/2020**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
EQB	**4/14/2021**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
EQB	**9/7/2021**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	
EQB	**4/12/2022**	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<2.50	<1.00	

Notes:
ID = Identification
MW = Groundwater monitoring well
µg/L = Micrograms per liter
<1.00 = Not detected at or above the Reported Detection Limit
Bold = Detected above laboratory method detection limit (MDL)
Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level
Bold and *Italicized* : Constituent considered non-detect, however Laboratory RDL is greater than the ADEC Groundwater Cleanup Level
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
[ ] = Blind Duplicate Sample Result
ADEC = Alaska Department of Environmental Conservation
Constituents analyzed by United States Environmental Protection Agency Method 8260D

Table 2c. Historical Groundwater Analytical Results - Additional VOCs
Second Quarter 2020 to Current
Chevron Facility 306450
4351 Old International Airport Road
Anchorage, Alaska

Well ID	Sample Date	Dichlorodifluoromethane (Freon 12) (µg/L)	Methylene chloride (Dichloromethane) (µg/L)	trans-1,3-Dichloropropene (µg/L)	Trichloroethene (Trichloroethylene) (µg/L)	2-Butanone (Methyl ethyl ketone) (µg/L)	1,1 Dichloroethene (µg/L)	1,1,1-Trichloroethane (µg/L)	1,1,2-Trichlorotrifluoroethane (Freon 113) (µg/L)	1,2-Dichlorobenzene (o-Dichlorobenzene) (µg/L)	4-Methyl-2-pentanone (µg/L)	Comments
ADEC Groundwater Cleanup Levels		**200**	**100**	**4.7**	**2.8**	**--**	**280**	**8,000**	**10,000**	**300**	**6,300**	
MW-5	**4/9/2020**	<5.00	<5.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<10.0	
MW-5	**10/7/2020**	<5.00	<5.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<10.0	
MW-5	**9/7/2021**	<5.00 J [<5.00 J]	<5.00 [<5.00]	<1.00 [<1.00]	<1.00 [<1.00]	<10.0 J [<10.0 J]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	7.24 J [6.86 J]	
MW-5	**4/12/2022**	<25.0 J[<50.0]	<25.0 [<50.0]	<5.00 [<10.0]	<5.00 [<10.0]	<50.0 [<100]	<5.00 [<10.0]	<5.00 [<10.0]	<5.00 [<10.0]	<5.00 [<10.0]	<50.0 [<100]	
MW-5A	**4/9/2020**	<5.00 [<5.00]	<5.00 [<5.00]	<1.00 [<1.00]	<1.00 [<1.00]	<10.0 [<10.0]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<10.0 [<10.0]	
MW-5A	**10/7/2020**	<5.00 [<5.00]	<5.00 [<5.00]	<1.00 [<1.00]	<1.00 [<1.00]	**1.45 J** [<10.0]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<10.0 [<10.0]	
MW-5A	**4/14/2021**	<5.00 J	<5.00 J	<1.00	<1.00 J	<10.0	<1.00 J	<1.00 J	<1.00 J	<1.00	<10.0	
MW-5A	**9/7/2021**	<5.00 J	<5.00	<1.00	<1.00	<10.0 J	<1.00	<1.00	<1.00	<1.00	<10.0	
MW-5A	**4/12/2022**	<5.00 J	<5.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<10.0	
MW-7	**4/9/2020**	***<1,250***	***<1,250***	***<250***	***<250***	<2,500	<250	<250	<250	**<250**	<2,500	
MW-7	**10/8/2020**	***<1,250***	**108 J**	***<250***	***<250***	<2,500	*<250*	<250	<250	**<250**	<2,500	
MW-7	**9/7/2021**	***<5,000 J***	**<5,000**	***<1,000***	***<1,000***	<10,000 J	***<1,000***	<1,000	<1,000	**<1,000**	<10,000	
MW-7	**4/12/2022**	***<5,000***	**<5,000**	***<1,000***	***<1,000***	<10,000	***<1,000***	<1,000	<1,000	**<1,000**	<10,000	
MW-7A	**4/9/2020**	<5.00	<5.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<10.0	
MW-7A	**10/8/2020**	<125	***<125***	***<25.0***	***<25.0***	<250	<25.0	<25.0	<25.0	<25.0	<250	
MW-7A	**4/14/2021**	<1,250 [<500]	***<1,250 [<500]***	***<250 [<100]***	***<250 [<100]***	<2,500 [<1,000]	<250 [<100]	<250 [<100]	<250 [<100]	<250 [<100]	<2,500 [<1,000]	
MW-7A	**9/7/2021**	<125 J	***<125***	***<25.0***	***<25.0***	<250 J	<25.0	<25.0	<25.0	<25.0	<250	
MW-7A	**4/12/2022**	<125	***<125***	***<25.0***	***<25.0***	<250	<25.0	<25.0	<25.0	<25.0	<250	
MW-11	**4/9/2020**	--	--	--	--	--	--	--	--	--	--	Well vault frozen with ice, Could not free PVC Without damaging it
MW-11	**10/8/2020**	<5.00 [<5.00]	<5.00 [<5.00]	<1.00 [<1.00]	<1.00 [<1.00]	<10.0 [<10.0]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<10.0 [<10.0]	
MW-11	**9/7/2021**	<5.00 J	<5.00	<1.00	<1.00	<10.0 J	<1.00	<1.00	<1.00	<1.00	<10.0	
MW-11	**4/12/2022**	<5.00 J	<5.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<10.0	
MW-12	**4/9/2020**	<5.00	<5.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<10.0	
MW-12	**10/7/2020**	<5.00	<5.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<10.0	
MW-12	**9/7/2021**	<5.00 J	<5.00	<1.00	<1.00	<10.0 J	<1.00	<1.00	<1.00	<1.00	<10.0	
MW-12	**4/12/2022**	<5.00 J	<5.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<10.0	
MW-13	**4/9/2020**	<5.00	<5.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<10.0	
MW-13	**10/7/2020**	<5.00	<5.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<10.0	
MW-13	**4/14/2021**	<5.00	<5.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<10.0	
MW-13	**9/7/2021**	<5.00 J	<5.00	<1.00	<1.00	<10.0 J	<1.00	<1.00	<1.00	<1.00	<10.0	
MW-13	**4/12/2022**	<5.00 J	<5.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<10.0	
QA-TB	**4/9/2020**	<5.00	<5.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<10.0	
QA-TB	**10/8/2020**	<5.00	<5.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<10.0	
QA-TB	**4/14/2021**	<5.00	<5.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<10.0	
QA-TB	**9/7/2021**	<5.00 J	<5.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<10.0	
QA-TB	**4/12/2022**	<5.00	<5.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<10.0	
EQB	**4/8/2020**	<5.00	<5.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<10.0	
EQB	**10/7/2020**	<5.00	<5.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<10.0	
EQB	**4/14/2021**	<5.00	<5.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<10.0	
EQB	**9/7/2021**	<5.00 J	<5.00	<1.00	<1.00	<10.0 J	<1.00	<1.00	<1.00	<1.00	<10.0	
EQB	**4/12/2022**	<5.00	<5.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<10.0	

Notes:
ID = Identification
MW = Groundwater monitoring well
µg/L = Micrograms per liter
<1.00 = Not detected at or above the Reported Detection Limit
Bold = Detected above laboratory method detection limit (MDL)
Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level
Bold and *Italicized* : Constituent considered non-detect, however Laboratory RDL is greater than the ADEC Groundwater Cleanup Level
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
[ ] = Blind Duplicate Sample Result
ADEC = Alaska Department of Environmental Conservation
Constituents analyzed by United States Environmental Protection Agency Method 8260D

Table 2d. Historical Groundwater Analytical Results - Additional VOCs
Second Quarter 2020 to Current
Chevron Facility 306450
4351 Old International Airport Road
Anchorage, Alaska

Well ID	Sample Date	1,2,3-Trichlorobenzene (µg/L)	1,2,4-Trichlorobenzene (µg/L)	cis-1,3-Dichloropropene (µg/L)	Dibromochloromethane (µg/L)	Acetone (µg/L)	Bromochloromethane (µg/L)	Carbon disulfide (µg/L)	Chloroethane (µg/L)	Styrene (µg/L)	trans-1,2-Dichloroethene (µg/L)	Trichlorofluoromethane (Freon 11) (µg/L)	Comments
ADEC Groundwater Cleanup Levels		**7**	**4**	**4.7**	**8.7**	**14,000**	**--**	**810**	**--**	**1,200**	**360**	**5,200**	
MW-5	**4/9/2020**	<1.00	<1.00	<1.00	<1.00	<50.0	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	
MW-5	**10/7/2020**	<1.00	<1.00	<1.00	<1.00	<50.0	<1.00	<1.00	<5.00	<1.00	<1.00	<5.00	
MW-5	**9/7/2021**	<1.00[<1.00]	<1.00[<1.00]	<1.00[<1.00]	<1.00[<1.00]	<50.0 [<50.00]	<1.00[<1.00]	<1.00[<1.00]	<5.00 [<5.00]	<1.00[<1.00]	<1.00[<1.00]	<5.00 [<5.00]	
MW-5	**4/12/2022**	<5.00 [<10.0]	<5.00 J[<10.0]	<5.00 [<10.0]	<5.00 [<10.0]	<250 [<500]	<5.00 [<10.0]	<5.00 [<10.0]	<25.0 [<50.0]	<5.00 [<10.0]	<5.00 [<10.0]	<25.0 J[<50.0]	
MW-5A	**4/9/2020**	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<50.0 [<50.0]	<5.00 [<5.00]	<1.00 [<1.00]	<5.00 [<5.00]	<1.00 [<1.00]	<1.00 [<1.00]	<5.00 [<5.00]	
MW-5A	**10/7/2020**	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<50.0 [<50.0]	<1.00 [<1.00]	<1.00 [<1.00]	<5.00 [<5.00]	<1.00 [<1.00]	<1.00 [<1.00]	<5.00 [<5.00]	
MW-5A	**4/14/2021**	<1.00	<1.00	<1.00 J	<1.00	<50.0	<1.00 J	<1.00 J	<5.00 J	<1.00 J	<1.00 J	<5.00 J	
MW-5A	**9/7/2021**	<1.00	<1.00	<1.00	<1.00	<50.0	<1.00	<1.00	<5.00	<1.00	<1.00	<5.00	
MW-5A	**4/12/2022**	<1.00	<1.00 J	<1.00	<1.00	<50.0	<1.00	<1.00	<5.00	<1.00	<1.00	<5.00 J	
MW-7	**4/9/2020**	***<250***	***<250***	***<250***	***<250***	**<12,500**	<1,250	<250	<1,250	<250	<250	<1,250	
MW-7	**10/8/2020**	***<250***	***<250***	***<250***	***<250***	**<12,500**	<250	<250	<1,250	<250	<250	<1,250	
MW-7	**4/14/2021**	***<250 [<100]***	***<250 [<100]***	***<250 [<100]***	***<250 [<100]***	<12,500 [<5,000]	<250 [<100]	<250 [<100]	<1,250 [<500]	<250 [<100]	<250 [<100]	<1,250 [<500]	
MW-7	**9/7/2021**	***<1,000***	***<1,000***	***<1,000***	***<1,000***	<50,000	<1,000	<1,000	<5,000	<1,000	<1,000	<5,000	
MW-7	**4/12/2022**	***<1,000***	***<1,000***	***<1,000***	***<1,000***	<50,000	<1,000	<1,000	<5,000	<1,000	<1,000	<5,000	
MW-7A	**4/9/2020**	<1.00	<1.00	<1.00	<1.00	<50.0	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	
MW-7A	**10/8/2020**	***<25.0***	***<25.0***	***<25.0***	***<25.0***	<1,250	<25.0	<25.0	<125	<25.0	<25.0	<125	
MW-7A	**4/14/2021**	***<25.0***	***<25.0***	***<25.0***	***<25.0***	<1,250	<25.0	<25.0	<125	<25.0	<25.0	<125	
MW-7A	**9/7/2021**	***<25.0***	***<25.0***	***<25.0***	***<25.0***	<1,250	<25.0	<25.0	<125	<25.0	<25.0	<125	
MW-7A	**4/12/2022**	***<25.0***	***<25.0***	***<25.0***	***<25.0***	<1,250	<25.0	<25.0	<125	<25.0	<25.0	<125	
MW-11	**4/9/2020**	--	--	--	--	--	--	--	--	--	--	--	Well vault frozen with ice, Could not free PVC Without damaging it
MW-11	**10/8/2020**	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<50.0 [<50.0]	<1.00 [<1.00]	<1.00 [<1.00]	<5.00 [<5.00]	<1.00 [<1.00]	<1.00 [<1.00]	<5.00 [<5.00]	
MW-11	**9/7/2021**	<1.00	<1.00	<1.00	<1.00	<50.0	<1.00	<1.00	<5.00	<1.00	<1.00	<5.00	
MW-11	**4/12/2022**	<1.00	<1.00 J	<1.00	<1.00	<50.0	<1.00	<1.00	<5.00	<1.00	<1.00	<5.00 J	
MW-12	**4/9/2020**	<1.00	<1.00	<1.00	<1.00	<50.0	<1.00	<1.00	<5.00	<1.00	<1.00	<5.00	
MW-12	**10/7/2020**	<1.00	<1.00	<1.00	<1.00	<50.0	<1.00	<1.00	<5.00	<1.00	<1.00	<5.00	
MW-12	**9/7/2021**	<1.00	<1.00	<1.00	<1.00	<50.0	<1.00	<1.00	<5.00	<1.00	<1.00	<5.00	
MW-12	**4/12/2022**	<1.00	<1.00 J	<1.00	<1.00	<50.0	<1.00	<1.00	<5.00	<1.00	<1.00	<5.00 J	
MW-13	**4/9/2020**	<1.00	<1.00	<1.00	<1.00	<50.0	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	
MW-13	**10/7/2020**	<1.00	<1.00	<1.00	<1.00	<50.0	<1.00	<1.00	<5.00	<1.00	<1.00	<5.00	
MW-13	**4/14/2021**	<1.00	<1.00	<1.00	<1.00	<50.0	<1.00	<1.00	<5.00	<1.00	<1.00	<5.00	
MW-13	**9/7/2021**	<1.00	<1.00	<1.00	<1.00	<50.0	<1.00	<1.00	<5.00	<1.00	<1.00	<5.00	
MW-13	**4/12/2022**	<1.00	<1.00 J	<1.00	<1.00	<50.0	<1.00	<1.00	<5.00	<1.00	<1.00	<5.00 J	
QA-TB	**4/9/2020**	<1.00	<1.00	<1.00	<1.00	<50.0	<1.00	<1.00	<5.00	<1.00	<1.00	<5.00	
QA-TB	**10/8/2020**	<1.00	<1.00	<1.00	<1.00	<50.0	<1.00	<1.00	<5.00	<1.00	<1.00	<5.00	
QA-TB	**4/14/2021**	<1.00	<1.00	<1.00	<1.00	<50.0	<1.00	0.111 J	<5.00	<1.00	<1.00	<5.00	
QA-TB	**9/7/2021**	<1.00 J	<1.00 J	<1.00	<1.00	<50.0	<1.00	<1.00 J	<5.00	<1.00	<1.00	<5.00	
QA-TB	**4/12/2022**	<1.00	<1.00	<1.00	<1.00	<50.0	<1.00	<1.00	<5.00	<1.00	<1.00	<5.00	
EQB	**4/8/2020**	<1.00	<1.00	<1.00	<1.00	<50.0	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	
EQB	**10/7/2020**	<1.00	<1.00	<1.00	<1.00	<50.0	<1.00	<1.00	<5.00	<1.00	<1.00	<5.00	
EQB	**4/14/2021**	<1.00	<1.00	<1.00	<1.00	<50.0	<1.00	<1.00	<5.00	<1.00	<1.00	<5.00	
EQB	**9/7/2021**	<1.00	<1.00	<1.00	<1.00	12.6 J	<1.00	<1.00	<5.00	<1.00	<1.00	<5.00	
EQB	**4/12/2022**	<1.00	<1.00	<1.00	<1.00	<50.0	<1.00	<1.00	<5.00	<1.00	<1.00	<5.00	

Notes:
ID = Identification
MW = Groundwater monitoring well
µg/L = Micrograms per liter
<1.00 = Not detected at or above the Reported Detection Limit
Bold = Detected above laboratory method detection limit (MDL)
Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level
[ ] = Blind Duplicate Sample Result
ADEC = Alaska Department of Environmental Conservation
Constituents analyzed by United States Environmental Protection Agency Method 8260D

Table 2d. Historical Groundwater Analytical Results - Additional VOCs
Second Quarter 2020 to Current
Chevron Facility 306450
4351 Old International Airport Road
Anchorage, Alaska

Well ID	Sample Date	1,1,1,2-Tetrachloroethane (µg/L)	1,3-Dichloropropane (µg/L)	1,3,5-Trimethylbenzene (µg/L)	4-Isopropyltoluene (µg/L)	n-Butylbenzene (µg/L)	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	t-Butylbenzene (µg/L)	Methyl-t-butyl ether (µg/L)	1,1-Dichloropropene (µg/L)	1,2,3-Trichloropropane (µg/L)	Comments
ADEC Groundwater Cleanup Levels		**7**	**4**	**4.7**	**8.7**	**14,000**	**--**	**810**	**--**	**1,200**	**360**	**5,200**	
MW-5	**4/9/2020**	<1.00	<1.00	2.64	<1.00	<1.00	2.12	<1.00	<1.00	<1.00	<1.00	<0.500	
MW-5	**10/7/2020**	<1.00	<1.00	14.4	<1.00	<1.00	11.5	0.325 J	<1.00	<1.00	<1.00	<0.125	
MW-5	**9/7/2021**	<1.00 [<1.00]	<1.00 [<1.00]	18.6[22.7]	<1.00 [<1.00]	<1.00 [<1.00]	14.8[17.7]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<0.250 [<0.250]	
MW-5	**4/12/2022**	<5.00 [<10.0]	<5.00 [<10.0]	8.52[9.36 J]	3.07 J[<10.0]	<5.00 [<10.0]	12.8[11.7 J]	<5.00 [<10.0]	<5.00 [<10.0]	<5.00 [<10.0]	<5.00 [<10.0]	<0.250 [<0.250]	
MW-5A	**4/9/2020**	<1.00 [<1.00]	<1.00 [<1.00]	6.73[8.8]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<0.0500 [<0.0500]	
MW-5A	**10/7/2020**	<1.00 [<1.00]	<1.00 [<1.00]	24.6 J[11.9 J]	<1.00 [0.974 J]	<1.00 [<1.00]	<1.00 [0.102 J]	0.219 J[0.282 J]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<0.0500 [<0.0500]	
MW-5A	**4/14/2021**	<1.00	<1.00	0.106 J	<1.00 J	0.909 J	1.56 J	2.00 J	<1.00 J	<1.00	<1.00 J	<0.0500	
MW-5A	**9/7/2021**	<1.00	<1.00	<1.00 B	<1.00	0.870 J	1.32	2.39	<1.00	<1.00	<1.00	<0.0500 J	
MW-5A	**4/12/2022**	<1.00	<1.00	1.7	1.35	<1.50 B	1.03	1.66	<1.00	<1.00	<1.00	0.0400 J	
MW-7	**4/9/2020**	***<250***	***<250***	***865***	***<250***	**<250**	317	<250	<250	<250	<250	<50.0	
MW-7	**10/8/2020**	***<250***	***<250***	***488***	***<250***	**<250**	192 J	<250	<250	<250	<250	<50.0	
MW-7	**4/14/2021**	***<250 [<100]***	***<250 [<100]***	***595[612]***	***<250 [<100]***	<250 [<100]	283[301]	<250 [<100]	<250 [<100]	<250 [<100]	<250 [<100]	<50.0 [<50.0]	
MW-7	**9/7/2021**	***<1,000***	***<1,000***	***477 J***	***<1,000***	<1,000	184 J	<1,000	<1,000	<1,000	<1,000	<25.0	
MW-7	**4/12/2022**	***<1,000***	***<1,000***	***446 J***	***<1,000***	<1,000	191 J	<1,000	<1,000	<1,000	<1,000	<12.5	
MW-7A	**4/9/2020**	<1.00	<1.00	226	<1.00	<1.00	53.9	<1.00	<1.00	<1.00	<1.00	<0.500	
MW-7A	**10/8/2020**	***<25.0***	***<25.0***	***344***	***26.9***	<25.0	16.7 J	<25.0	<25.0	<25.0	<25.0	<50.0	
MW-7A	**4/14/2021**	***<25.0***	***<25.0***	***172***	***3.30 J***	<25.0	14.8 J	3.58 J	<25.0	<25.0	<25.0	<5.00	
MW-7A	**9/7/2021**	***<25.0***	***<25.0***	***11.5 J***	***<25.0***	<25.0	2.88 J	<25.0	<25.0	<25.0	<25.0	<0.250	
MW-7A	**4/12/2022**	***<25.0***	***<25.0***	***233***	***<25.0***	<25.0	9.42 J	5.78 J	<25.0	<25.0	<25.0	<1.25	
MW-11	**4/9/2020**	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	**<1.00 [<1.00]**	**<1.00 [<1.00]**	**<1.00 [<1.00]**	**<1.00 [<1.00]**	**<0.00500 [<0.0500]**	Well vault frozen with ice, Could not free PVC Without damaging it
MW-11	**10/8/2020**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00500	
MW-11	**9/7/2021**	<1.00	<1.00	<1.00	<1.00	<50.0	<1.00	<1.00	<5.00	<1.00	<1.00	<5.00	
MW-11	**4/12/2022**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00500	
MW-12	**4/9/2020**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00500	
MW-12	**10/7/2020**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00500	
MW-12	**9/7/2021**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00500	
MW-12	**4/12/2022**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00500	
MW-13	**4/9/2020**	<1.00	<1.00	0.437 J	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00500	
MW-13	**10/7/2020**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00500	
MW-13	**4/14/2021**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00500	
MW-13	**9/7/2021**	<1.00	<1.00	<1.00 B	<1.00	<1.00	<1.00 B	<1.00	<1.00	<1.00	<1.00	<0.00500	
MW-13	**4/12/2022**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00500	
QA-TB	**4/9/2020**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00500	
QA-TB	**10/8/2020**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00500	
QA-TB	**4/14/2021**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00500	
QA-TB	**9/7/2021**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00500	
QA-TB	**4/12/2022**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J	<1.00	<1.00	<1.00	<1.00	<0.00500	
EQB	**4/8/2020**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00500	
EQB	**10/7/2020**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00500	
EQB	**4/14/2021**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00500	
EQB	**9/7/2021**	<1.00	<1.00	0.344 J	<1.00	<1.00	0.222 J	<1.00	<1.00	<1.00	<1.00	<0.00500	
EQB	**4/12/2022**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J	<1.00	<1.00	<1.00	<1.00	<0.00500	

Notes:
ID = Identification
MW = Groundwater monitoring well
µg/L = Micrograms per liter
<1.00 = Not detected at or above the Reported Detection Limit
Bold = Detected above laboratory method detection limit (MDL)
Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level
[ ] = Blind Duplicate Sample Result
ADEC = Alaska Department of Environmental Conservation
Constituents analyzed by United States Environmental Protection Agency Method 8260D

Table 2d. Historical Groundwater Analytical Results - Additional VOCs
Second Quarter 2020 to Current
Chevron Facility 306450
4351 Old International Airport Road
Anchorage, Alaska

Well ID	Sample Date	Bromobenzene (µg/L)	Dibromomethane (Methylene bromide) (µg/L)	Hexachlorobutadiene (µg/L)	1,2-Dibromo-3-chloropropane (DBCP) (µg/L)	o-Chlorotoluene (µg/L)	p-Chlorotoluene (µg/L)	sec-Dichloropropane (µg/L)	Diisopropyl ether (µg/L)	m,p-Xylenes (µg/L)	o-Xylene (µg/L)	Acrylonitrile (µg/L)	1,2,3-Trimethylbenzene	2-Propenal	Comments
ADEC Groundwater Cleanup Levels		**7**	**4**	**4.7**	**8.7**	**14,000**	**--**	**810**	**--**	**1,200**	**360**	**5,200**			
MW-5	**4/9/2020**	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	93.2	4.18	<10.0	6.08	<50.0	
MW-5	**10/7/2020**	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	316	8.88	<10.0	21.1	<50.0	
MW-5	**9/7/2021**	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<5.00 [<5.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	483 J[215 J]	9.77[4.89 J]	<10.0 [<10.0]	17.1[20.3]	<50.0 [<50.0]	
MW-5	**4/12/2022**	<5.00 [<10.0 J]	<5.00 [<10.0]	<5.00 J[<10.0 J]	<25.0 [<50.0]	<5.00 [<10.0 J]	<5.00 [<10.0]	<5.00 [<10.0]	<5.00 [<10.0]	241[300]	8.22[10.3]	<50.0 [<100]	14[16.6]	<250 [<500]	
MW-5A	**4/9/2020**	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<5.00 [<5.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	23.3[22]	199[176]	<10.0 [<10.0]	55.8[62.3]	<50.0 [<50.0]	
MW-5A	**10/7/2020**	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<5.00 [<5.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	28.2 J[19.1 J]	87.5[66.8]	<10.0 [<10.0]	36.8 J[24.3 J]	<50.0 [<50.0]	
MW-5A	**4/14/2021**	<1.00 J	<1.00 J	<1.00 J	<5.00	<1.00 J	<1.00 J	<1.00 J	<1.00	1.37 J	13.8 J	<10.0	14.8 J	<50.0	
MW-5A	**9/7/2021**	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	1.16 J	7.75	<10.0	26	<50.0	
MW-5A	**4/12/2022**	<1.00	<1.00	<1.00 J	<5.00	<1.00	<1.00	<1.00	<1.00	3.76	4.69	<10.0	2.53	<50.0	
MW-7	**4/9/2020**	***<250***	***<250***	***<250***	***<1,250***	***<250***	<250	<250	<250	20,700	8,770	<2,500	1,160	<12,500	
MW-7	**10/8/2020**	***<250***	***<250***	***<250***	***<1,250***	***<250***	<250	<250	<250	16,400	7,570	<2,500	796	<12,500	
MW-7	**4/14/2021**	***<250 [<100]***	***<250 [<100]***	***<250 [<100]***	***<1,250 [<500]***	<250 [<100]	<250 [<100]	<250 [<100]	<250 [<100]	17,800 [17,100]	7,800 [7,530]	<2,500 [<1,000]	651[637]	<12,500 [<5,000]	
MW-7	**9/7/2021**	***<1,000***	***<1,000***	***<1,000***	***<5,000***	<1,000	<1,000	<1,000	<1,000	12,500	6,080	<10,000	534 J	<50,000	
MW-7	**4/12/2022**	***<1,000 J***	***<1,000***	***<1,000 J***	***<5,000***	<1,000 J	<1,000	<1,000	<1,000	16,500	7,520	<10,000	589 J	<50,000	
MW-7A	**4/9/2020**	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	2,440	1,150	<10.0	280	<50.0	
MW-7A	**10/8/2020**	***<25.0***	***<25.0***	***<25.0***	***<125***	<25.0	<25.0	<25.0	<25.0	5,190	2,560	<250	525	<1,250	
MW-7A	**4/14/2021**	***<25.0***	***<25.0***	***<25.0***	***<125***	<25.0	<25.0	<25.0	<25.0	1,590	768	<250	176	<1,250	
MW-7A	**9/7/2021**	***<25.0***	***<25.0***	***<25.0***	***<125***	<25.0	<25.0	<25.0	<25.0	117	50.4	<250	13.1 J	<1,250	
MW-7A	**4/12/2022**	***<25.0 J***	***<25.0***	***<25.0 J***	***<125***	<25.0 J	<25.0	<25.0	<25.0	2,420	1,280	<250	296	<1,250	
MW-11	**4/9/2020**	--	--	--	--	--	--	--	--	--	--	--			Well vault frozen with ice, Could not free PVC Without damaging it
MW-11	**10/8/2020**	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<5.00 [<5.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<2.00 [<2.00]	<1.00 [<1.00]	<10.0 [<10.0]	<1.00 [<1.00]	<50.0 [<50.0]	
MW-11	**9/7/2021**	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<10.0	<1.00 B	<50.0	
MW-11	**4/12/2022**	<1.00	<1.00	<1.00 J	<5.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<10.0	<1.00	<50.0	
MW-12	**4/9/2020**	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<10.0	<1.00	<50.0	
MW-12	**10/7/2020**	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<10.0	<1.00	<50.0	
MW-12	**9/7/2021**	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<10.0	<1.00 B	<50.0	
MW-12	**4/12/2022**	<1.00	<1.00	<1.00 J	<5.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<10.0	<1.00	<50.0	
MW-13	**4/9/2020**	<1.00	<1.00 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	1.61 J	1.13	<10.0	0.681 J	<50.0	
MW-13	**10/7/2020**	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<10.0	<1.00	<50.0	
MW-13	**4/14/2021**	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	0.605 J	0.219 J	<10.0	0.155 J	<50.0	
MW-13	**9/7/2021**	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<10.0	<1.00 B	<50.0	
MW-13	**4/12/2022**	<1.00	<1.00	<1.00 J	<5.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<10.0	<1.00	<50.0	
QA-TB	**4/9/2020**	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<10.0	<1.00	<50.0	
QA-TB	**10/8/2020**	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<10.0	<1.00	<50.0	
QA-TB	**9/7/2021**	<1.00	<1.00	<1.00	<5.00 J	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<10.0	<1.00	<50.0 J	
QA-TB	**4/12/2022**	<1.00 J	<1.00	<1.00 J	<5.00	<1.00 J	<1.00	<1.00	<1.00	<2.00	<1.00	<10.0	<1.00	<50.0	
EQB	**4/8/2020**	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<10.0	<1.00	<50.0	
EQB	**10/7/2020**	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<10.0	<1.00	<50.0	
EQB	**4/14/2021**	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<10.0	<1.00	<50.0	
EQB	**9/7/2021**	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<10.0	0.366 J	<50.0	
EQB	**4/12/2022**	<1.00 J	<1.00	<1.00 J	<5.00	<1.00 J	<1.00	<1.00	<1.00	<2.00	<1.00	<10.0	<1.00	<50.0	

Notes:
ID = Identification
MW = Groundwater monitoring well
µg/L = Micrograms per liter
<1.00 = Not detected at or above the Reported Detection Limit
Bold = Detected above laboratory method detection limit (MDL)
Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level
[ ] = Blind Duplicate Sample Result
ADEC = Alaska Department of Environmental Conservation
Constituents analyzed by United States Environmental Protection Agency Method 8260D

Table 3. Historical Groundwater Analytical Results - PAHs
Second Quarter 2010 to Current
Chevron Facility 306450
4351 Old International Airport Road
Anchorage, Alaska

Well	Sample Date	1-Methyl-naphthlalene	2-Methyl-naphthlalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ADEC Groundwater Cleanup Levels		**11**	**36**	**530**	**260**	**43**	**0.3**	**0.25**	**2.5**	**0.26**	**0.8**	**2**	**0.25**
MW-5	5/17/2010	--	--	**0.016**	<0.0094	<0.0094	<0.0094	<0.0094	--	--	--	--	--
MW-5	4/26/2011	--	--	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	--	--	--	--	--
MW-5	9/20/2011	--	--	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	--	--	--	--	--
MW-5	5/18/2012	--	--	<0.010	<0.010	<0.010	<0.010	<0.010	--	--	--	--	--
MW-5	9/17/2012	--	--	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	--	--	--	--	--
MW-5	4/30/2013	--	--	<0.044	<0.044	<0.044	<0.050	<0.044	--	--	--	--	--
MW-5	4/30/2013	--	--	<0.043	<0.043	<0.043	<0.043	<0.043	--	--	--	--	--
MW-5	9/17/2013	--	--	<0.041	<0.041	<0.041	<0.041	<0.041	--	--	--	--	--
MW-5	4/29/2014	**0.12**	**0.11**	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043
MW-5	9/4/2014	**0.20**	**0.21**	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
MW-5	5/1/2015	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
MW-5	9/3/2015	**0.11**	**0.091**	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041
MW-5	4/13/2016	--	--	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
MW-5	9/16/2016	--	--	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099
MW-5	5/11/2017	--	--	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098
MW-5	9/11/2017	--	--	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-5	4/6/2018	--	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW-5	10/24/2018	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	**0.1 J**	<0.1
MW-5	4/19/2019	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MW-5	9/18/2019	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	4/9/2020	**0.0393 J**	**0.0401 J**	<0.0555	<0.0555	<0.0555	<0.0555	<0.0555	<0.0555	<0.0555	<0.278	<0.0555	<0.0555
MW-5	10/7/2020	**0.128 J**	**0.0891 J**	<0.0525	<0.0525	<0.0525	<0.0525	<0.0525	<0.0525	<0.0525	<0.263	<0.0525	<0.0525
MW-5	9/7/2021	**0.181 J [0.171 J]**	**0.139 J [0.131 J]**	<0.0500 [<0.0500]	<0.0500 [<0.0500]	<0.0500 [<0.0500]	<0.0500 [<0.0500]	<0.0500 [<0.0500]	<0.0500 [<0.0500]	<0.0500 [<0.0500]	<0.250 [<0.250]	<0.0500 [<0.0500]	<0.0500 [<0.0500]
MW-5	4/12/2022	**0.188 J[0.150 J]**	**0.152 J[0.120 J]**	<0.0500 [<0.0500]	<0.0500 [<0.0500]	<0.0500 [<0.0500]	<0.0500 [<0.0500]	<0.0500 [<0.0500]	0.0195 J[<0.0500]	<0.0500 [<0.0500]	<0.250 [<0.250]	<0.0500 [<0.0500]	<0.0500 [<0.0500]
MW-7	5/17/2010	--	--	**0.48**	**0.40**	**0.55**	**0.12**	**0.12**	--	--	--	--	--
MW-7	5/18/2012	--	--	**0.18**	<0.096	<0.096	<0.096	<0.096	--	--	--	--	--
MW-7	9/17/2012	--	--	**0.19**	**0.12**	<0.0095	<0.0095	<0.0095	--	--	--	--	--
MW-7	5/1/2013	--	--	**1.2**	**0.063**	<0.044	<0.044	<0.044	--	--	--	--	--
MW-7	5/1/2013	--	--	**1.3**	**0.071**	<0.044	<0.044	<0.044	--	--	--	--	--
MW-7	9/17/2013	--	--	**1.0**	**0.061**	<0.045	<0.045	<0.045	--	--	--	--	--
MW-7	4/29/2014	**27.7**	**50.4**	**0.93**	**0.059**	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043
MW-7	9/4/2014	Well not sampled, LNAPL present											
MW-7	4/15/2015	--	--	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
MW-7	9/3/2015	**47.2**	**81.3**	**0.97**	**0.064**	**0.052**	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
MW-7	4/13/2016	--	--	**0.17**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-7	9/16/2016	Well not sampled - no specific reason mentioned											
MW-7	5/11/2017	--	--	**0.12**	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096
MW-7	9/11/2017	--	--	**0.096**	**0.11**	**0.15**	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095
MW-7	4/6/2018	--	--	**0.02 J**	<0.01	**0.08**	0.03 J	**0.01 J**	**0.03 J**	0.02 J	<0.01	0.02 J	<0.01
MW-7	10/24/2018	--	--	**0.2 J**	<0.1	<0.1	0.1 J	<0.1	<0.1	<0.2	<0.1	0.1 J	<0.1
MW-7	4/19/2019	--	--	**0.2 J**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MW-7	9/18/2019	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	4/9/2020	**48.4**	**85.1**	**0.211**	<0.0555	**0.0462 J**	<0.0555	<0.0555	<0.0555	<0.0555	<0.278	<0.0555	<0.0555
MW-7	10/8/2020	**45.9**	**77.5**	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.250	<0.0500	<0.0500
MW-7	04/14/2021	**35.1 [57.8]**	**62 [68.4]**	0.359 [<0.0500]	<0.0525 [<0.0500]	<0.0525 [<0.0500]	<0.0525 [<0.0500]	<0.0525 [<0.0500]	<0.0525 [<0.0500]	<0.0525 [<0.0500]	<0.263 [<0.250]	<0.0525 [<0.0500]	<0.0525 [<0.0500]
MW-7	9/7/2021	**27.10**	**46.20**	<0.0595	<0.0595	<0.0595	<0.0595	<0.0595	<0.0595	<0.0595	<0.297	<0.0595	<0.0595
MW-7	4/12/2022	**48.1**	**85.7**	<0.500	<0.500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.250	<0.0500	<0.0500

RW-14	4/26/2011	--	--	<0.010	**0.01**	<0.010	<0.010	<0.010	--	--	--	--	--
RW-14	9/20/2011	--	--	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	--	--	--	--	--
RW-14	9/18/2019	--	--	--	--	--	--	--	--	--	--	--	--
EQB	4/8/2020	<0.555	<0.555	<0.0555	<0.0555	<0.0555	<0.0555	<0.0555	<0.0555	<0.0555	<0.278	<0.0555	<0.0555
EQB	10/7/2020	<0.525	<0.525	<0.0525	<0.0525	<0.0525	<0.0525	<0.0525	<0.0525	<0.0525	<0.263	<0.0525	<0.0525
EQB	04/14/2021	**0.0229 J**	<0.500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.250	<0.0500	<0.0500
EQB	9/7/2021	<0.500	<0.500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	0.0196 J	<0.0500	<0.250	<0.0500	<0.0500
EQB	4/12/2022	<0.500	<0.500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.250	<0.0500	<0.0500

Notes:

ADEC GCL = Alaska Department of Environmental Conservation groundwater cleanup level

(µg/L) = micrograms per liter

LNAPL = Light Non-aqueous Phase Liquids

-- = Not sampled or not analyzed

<0.0525 = Not detected at or above the reported detection limit (RDL)

Bold = Detections above the MDL

Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level

Bold and *Italicized* : Constituent considered non-detect, however Laboratory RDL is greater than the ADEC Groundwater Cleanup Level

J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B = Compound considered non-detect at the listed value due to associated blank contamination

Constituents analyzed by United States Environmental Protection Agency Method EPA 8270E-SIM

Data QA/QC by: SS 05.20.2020

Table 3. Historical Grou
Second Quarter 2010 to
Chevron Facility 306450
4351 Old International Air
Anchorage, Alaska

Well	Sample Date	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene	Comments
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
ADEC Groundwater Cleanup Levels		**260**	**290**	**0.19**	**1.7**	**170**	**120**	
MW-5	5/17/2010	<0.0094	<0.0094	<0.0094	**1.2**	<0.0094	<0.0094	
MW-5	4/26/2011	<0.0098	<0.0098	**4.00**	<0.0098	<0.0098	<0.0098	
MW-5	9/20/2011	<0.0095	<0.0095	<0.0095	**3.9**	<0.028	<0.0095	
MW-5	5/18/2012	<0.010	<0.010	<0.010	**4**	<0.031	<0.010	
MW-5	9/17/2012	<0.0095	<0.0095	<0.0095	**3.2**	<0.029	<0.0095	
MW-5	4/30/2013	<0.044	<0.044	<0.044	**2**	**0.17**	**0.12**	Analytes collected using low-flow sampling methods
MW-5	4/30/2013	<0.043	<0.043	<0.043	<0.043	<0.053	<0.043	
MW-5	9/17/2013	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	
MW-5	4/29/2014	<0.043	<0.043	<0.043	**1.0**	<0.043	<0.043	
MW-5	9/4/2014	<0.042	<0.042	<0.042	**4.0**	<0.042	<0.042	
MW-5	5/1/2015	<0.042	<0.042	<0.042	**0.7**	<0.042	<0.042	PAH was not collected from MW-5 originally, ARCADIS returned to collect this sample.
MW-5	9/3/2015	<0.041	<0.041	<0.041	**3.1**	<0.041	<0.041	
MW-5	4/13/2016	<0.11	<0.11	<0.11	**0.12**	<0.0.32	<0.011	
MW-5	9/16/2016	<0.0099	<0.0099	<0.0099	**3.0**	<0.030	<0.0099	
MW-5	5/11/2017	<0.0098	<0.0098	<0.0098	<0.029	<0.029	<0.0098	
MW-5	9/11/2017	<0.010	<0.010	<0.010	**1.3**	<0.030	<0.010	
MW-5	4/6/2018	<0.01	<0.01	<0.01	**0.08**	<0.03	<0.01	
MW-5	10/24/2018	<0.1	<0.1	<0.1	**1 J**	<0.1	<0.1	
MW-5	4/19/2019	<0.1	<0.1	<0.1	**4.0**	<0.1	<0.1	
MW-5	9/18/2019	--	--	--	--	--	--	
MW-5	4/9/2020	<0.0555	<0.0555	<0.0555	**0.674**	<0.0555	<0.0555	
MW-5	10/7/2020	<0.0525 B	<0.0525	<0.0525	**4.35**	**0.0321 J**	**0.0325 J**	
MW-5	9/7/2021	<0.0500 B [<0.0500]	<0.0500 [<0.0500]	<0.0500 [<0.0500]	**7.2 [6.64]**	<0.0500 [<0.0500]	<0.0500 [<0.0500]	
MW-5	4/12/2022	<0.0500 B[<0.0500 B]	<0.0500 [<0.0500]	<0.0500 [<0.0500]	**6.39 J[4.58 J]**	0.0219 J[0.0195 J]	<0.0500 B[<0.0500 B]	
MW-7	5/17/2010	**0.37**	**0.68**	<0.10	**660**	**1.60**	**0.50**	
MW-7	5/18/2012	<0.096	**0.19**	<0.096	**320**	<0.29	<0.096	
MW-7	9/17/2012	**0.13**	**0.28**	<0.0095	**320**	**0.35**	**0.16**	
MW-7	5/1/2013	<0.044	**0.22**	<0.044	**236**	**0.053**	<0.044	Analytes collected using low-flow sampling methods
MW-7	5/1/2013	<0.044	**0.25**	<0.044	**261**	**0.065**	<0.044	
MW-7	9/17/2013	<0.045	**0.28**	<0.045	<0.045	**0.091**	<0.045	
MW-7	4/29/2014	<0.043	<0.043	<0.043	**230**	**0.060**	<0.043	
MW-7	9/4/2014							
MW-7	4/15/2015	<0.21	<0.21	<0.21	**279**	<0.21	<0.21	
MW-7	9/3/2015	<0.042	**0.26**	<0.042	**317**	**0.13**	**0.055**	
MW-7	4/13/2016	<0.10	<0.10	<0.10	**400**	**0.44**	<0.10	
MW-7	9/16/2016							
MW-7	5/11/2017	<0.096	**0.21**	<0.096	**340**	<0.29	<0.096	
MW-7	9/11/2017	<0.0095	**0.1**	<0.0095	**340**	<0.29	<0.096	
MW-7	4/6/2018	**0.07**	<0.01	0.01 J	**290**	**0.2**	**0.1**	
MW-7	10/24/2018	**0.1 J**	**0.2 J**	<0.1	**420 J**	**0.6**	**0.2 J**	
MW-7	4/19/2019	**0.2 J**	**0.4 J**	<0.1 U	**31**	**0.6**	**0.3 J**	
MW-7	9/18/2019	--	--	--	--	--	--	
MW-7	4/9/2020	**0.0223 J**	**0.229**	<0.0555	**308**	**0.157**	**0.0396 J**	
MW-7	10/8/2020	<0.0631 B	**0.188**	<0.0500	**381**	<0.0500	**0.0606**	
MW-7	04/14/2021	<0.0525 B [<0.0500 B]	**0.136 [0.145]**	<0.0525 [<0.0500]	**199 [293]**	<0.0525 [<0.0500]	<0.0525 B [<0.0607 B]	
MW-7	9/7/2021	<0.0595	**0.133**	<0.0595	**242**	<0.0595	<0.0595	
MW-7	4/12/2022	<0.0500 B	**<0.500**	<0.0500	**278**	0.157	<0.0573 B	

RW-14	4/26/2011	**0.02**	**0.02**	<0.010	**1.00**	**0.01**	**0.03**
RW-14	9/20/2011	**0.02**	**0.04**	<0.0098	**7.4**	**0.04**	**0.03**
RW-14	9/18/2019	--	--	--	--	--	--
EQB	4/8/2020	<0.0555	<0.0555	<0.0555	<0.555	<0.0555	<0.0555
EQB	10/7/2020	**0.0128 J**	<0.0525	<0.0525	<0.525	<0.0525	<0.0525
EQB	04/14/2021	**0.0160 J**	<0.0500	<0.0500	<0.500	<0.0500	**0.0293 J**
EQB	9/7/2021	0.0233 J	<0.0500	<0.0500	<0.500	0.0192 J	0.0207 J
EQB	4/12/2022	0.0150 J	<0.0500	<0.0500	<0.500	<0.0500	0.0249 J

Notes:

ADEC GCL = Alaska Depa
(µg/L) = micrograms per lit
LNAPL = Light Non-aqueo
-- = Not sampled or not an
<0.0525 = Not detected at
Bold = Detections above tl
Bold and Shaded = Value
Bold and *Italicized* : Const
J = The compound was po
B = Compound considered

Attachment D

ADEC Data Review Checklist

Laboratory Data Review Checklist

Completed By:

Dilip Kumar H S

Title:

Project Chemist

Date:

September 22, 2023

Consultant Firm:

ARCADIS U.S., Inc

Laboratory Name:

Pace Analytical

Laboratory Report Number:

L1649472

Laboratory Report Date:

8/24/2023

CS Site Name:

Semi Annual 2023 Groundwater Monitoring Report

ADEC File Number:

2100.26.115

Hazard Identification Number:

23369

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

   a. Did an ADEC Contaminated Sites Laboratory Approval Program (CS-LAP) approved laboratory receive and perform all of the submitted sample analyses?

   Yes☒ No☐ N/A☐ Comments:

Yes.

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS-LAP approved?

   Yes☐ No☐ N/A☒ Comments:

Not applicable.

2. Chain of Custody (CoC)

   a. Is the CoC information completed, signed, and dated (including released/received by)?

   Yes☒ No☐ N/A☐ Comments:

Yes.

   b. Were the correct analyses requested?

   Yes☒ No☐ N/A☐ Comments:

Yes.

3. Laboratory Sample Receipt Documentation

   a. Is the sample/cooler temperature documented and within range at receipt (0° to 6° C)?

   Yes☒ No☐ N/A☐ Comments:

Yes.

   b. Is the sample preservation acceptable – acidified waters, methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

   Yes☒ No☐ N/A☐ Comments:

Yes.

   c. Is the sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials); canister vacuum/pressure checked and no open valves etc?

   Yes☒ No☐ N/A☐ Comments:

Yes.

   d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum, etc.?

   Yes☒ No☐ N/A☐ Comments:

Yes. no discrepancies.

e. Is the data quality or usability affected?

Comments:

Data quality or usability was not affected.

4. Case Narrative

a. Is the case narrative present and understandable?

Yes☒ No☐ N/A☐ Comments:

Yes.

b. Are there discrepancies, errors, or QC failures identified by the lab?

Yes☒ No☐ N/A☐ Comments:

Yes.

c. Were all corrective actions documented?

Yes☒ No☐ N/A☐ Comments:

Yes.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Data quality or usability was not affected.

5. Samples Results

a. Are the correct analyses performed/reported as requested on COC?

Yes☒ No☐ N/A☐ Comments:

Yes.

b. Are all applicable holding times met?

Yes☒ No☐ N/A☐ Comments:

Yes.

c. Are all soils reported on a dry weight basis?

Yes☐ No☒ N/A☐ Comments:

No soil samples were submitted for analysis.

d. Are the reported limit of quantitation (LOQs) or limits of detection (LOD), or reporting limits (RL) less than the Cleanup Level for the project?

Yes☒ No☐ N/A☐ Comments:

Yes.

e. Is the data quality or usability affected?

Data quality or usability was not affected.

6. QC Samples

a. Method Blank

i. Was one method blank reported per matrix, analysis and 20 samples?

Yes☒ No☐ N/A☐ Comments:

Yes.

ii. Are all method blank results less than limit of quantitation LOQ (or RL)?

Yes☐ No☒ N/A☐ Comments:

No.

iii. If above LOQ or RL, what samples are affected?

Comments:

Sample Locations	Method	Compounds	Sample Result	Qualification
MW-10-W-20230822 MW-5A-W-20230822 MW-11-W-20230822 RW-14-W-20230822	AK 101	TPHGAK C6 to C10	Detected sample results <RL and <BAL	"UB" at the RL

Note:
RL Reporting limit

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes☒ No☐ N/A☐ Comments:

Yes.

v. Data quality or usability affected?

Comments:

The method blank contamination is considered minor and would result in the non-detect of the associated data. The reported data should still consider as usable.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – Are one LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes☒ No☐ N/A☐ Comments:

Yes.

ii. Metals/Inorganics – Are one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes☒ No☐ N/A☐ Comments:

Yes.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes☐ No☒ N/A☐ Comments:

No.

Sample locations associated with the LCS/LCSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Method	Compounds	LCS Recovery	LCSD Recovery
MW-10-W-20230822 MW-5A-W-20230822 MW-11-W-20230822 MW-12-W-20230822 MW-13-W-20230822 RW-14-W-20230822 MW-5-W-20230822 MW-7-W-20230822	8260 D	Bromomethane	> UL	AC
BD-1-W-20230822 EQB-1-W-20230822 TRIP BLANK 1-20230822 TRIP BLANK 2-20230822 TRIP BLANK 3-20230822	8260 D	2,2-Dichloropropane	< LL but > 10%	< LL but > 10%
		1,1,2,2-Tetrachloroethane	< LL but > 10%	< LL but > 10%
		Trichloroethene	> UL	AC

Note:
UL – Upper control limit
LL – Lower control limit
AC - Acceptable

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCSS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

iv. Precision –Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? Was the RPD reported from LCS/LCSD, and or sample/sample duplicate? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes☒ No☐ N/A☐ Comments:

Yes.

v. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes☒ No☐ N/A☐ Comments:

Yes.

vii. Is the data quality or usability affected? (Use comment box to explain.)

Comments:

Recovery: Method SW846 8260D: LCS recovery for bromomethane was greater than the control limit. Samples MW-10-W-20230822, MW-5A-W-20230822, MW-11-W-20230822, MW-12-W-20230822, MW-13-W-20230822, RW-14-W-20230822, MW-5-W-20230822 and MW-7-W-20230822 were non-detect for this compound; therefore, qualification of the data was not warranted. Method SW846 8260D: LCS recovery for trichloroethene was greater than the control limit. Samples BD-1-W-20230822, EQB-1-W-20230822, TRIP BLANK 1-20230822, TRIP BLANK 2-20230822 and TRIP BLANK 3-20230822 were non-detect for this compound; therefore, qualification of the data was not warranted. Method SW846 8260D: LCS recovery for 2,2-dichloropropane and 1,1,2,2 tetrachloroethane were less than the control limit. Samples BD-1-W-20230822, EQB-1-W-20230822, TRIP BLANK 1-20230822, TRIP BLANK 2-20230822 and TRIP BLANK 3-20230822 were qualified as estimated (UJ).

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Note: Leave blank if not required for project

i. Organics – Are one MS/MSD reported per matrix, analysis and 20 samples?

Yes☒ No☐ N/A☐ Comments:

The MS/MSD analysis was performed on sample ID MW-5-W-20230822.

ii. Metals/Inorganics – Are one MS/MSD reported per matrix, analysis and 20 samples?

Yes☒ No☐ N/A☐ Comments:

The MS/MSD analysis was performed on sample ID MW-5-W-20230822.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes☐ No☒ N/A☐ Comments:

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Method	Compounds	MS Recovery	MSD Recovery
MW-5-W-20230822	AK 101	TPHGAK C6 to C10	< 10%	< 10%
	8260 D	Acetone	> UL	> UL
		Acrolein	> UL	> UL
		Acrylonitrile	> UL	AC
		Isopropylbenzene	> UL	AC
		Naphthalene	> UL	AC
		n-Propylbenzene	> UL	AC
		Toluene	> UL	> UL
		1,2,3-Trimethylbenzene	> UL	AC
		1,3,5-Trimethylbenzene	> UL	AC
		o-Xylene	> UL	> UL
	AK 102	AK102 DRO C10-C25	AC	< LL but > 10%
	8270 E SIM	Naphthalene	AC	< 10%

Note:
LL – Lower control limit
UL – Upper control limit
AC - Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes☐ No☒ N/A☐ Comments:

No

Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than of the control limit presented in the following table.

Sample Locations	Compounds
MW-5-W-20230822	Chloromethane
	1,1-Dichloroethane
	Isopropylbenzene
	n-Propylbenzene
	Toluene
	1,2,3-Trimethylbenzene
	1,3,5-Trimethylbenzene
	o-Xylene
	Anthracene
	Acenaphthene
	Acenaphthylene
	Benzo(a)anthracene
	Chrysene
	Fluoranthene
	Fluorene
	Naphthalene
	Phenanthrene
	Pyrene
	1-Methylnaphthalene
	2-Methylnaphthalene
	2-Chloronaphthalene

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
	Detect	J

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Recovery:
Method AK 101: MS/MSD recovery for TPHGAK C6 to C10 was less than ten percent of the control limit in sample MW-5-W-20230822. Target compound result in associated sample was qualified as estimated (J).
Method AK102: MSD recovery for AK102 DRO C10-C25 was less than the control limit in sample MW-5-W-20230822. Target compound result in associated sample was qualified as estimated (J).
Method 8260 D: MS/MSD recovery for acetone, acrolein and acrylonitrile were greater than the control limit in sample MW-5-W-20230822. Target compound result in associated sample were non-detect for this compound; therefore, qualification of the data was not warranted.
Method 8260 D: MS recovery for Isopropylbenzene, Naphthalene, n-Propylbenzene, 1,2,3-Trimethylbenzene and 1,3,5-Trimethylbenzene were greater than the control limit in sample MW-5-W-20230822. Target compound result in associated sample was qualified as estimated (J).
Method 8260 D: MS/MSD recovery for toluene and o-xylene were greater than the control limit in sample MW-5-W-20230822. Target compound result in associated sample was qualified as estimated (J).
Method 8270E SIM: MSD recovery for naphthalene was less than ten percent of the control limit in sample MW-5-W-20230822. Target compound result in associated sample was qualified as estimated (J).
RPD:
Method 8260D/8270 E SIM: Compounds chloromethane, 1,1-dichloroethane, Isopropylbenzene, n-Propylbenzene, toluene, 1,2,3-trimethylbenzene, 1,3,5-trimethylbenzene, o-xylene, anthracene, acenaphthene, acenaphthylene, benzo(a)anthracene, chrysene, fluoranthene, fluorene, naphthalene, phenanthrene, pyrene, 1-methylnaphthalene, 2-methylnaphthalene and 2-chloronaphthalene result in sample ID MW-5-W-20230822 was qualified as estimated (UJ/J).

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes☒ No☐ N/A☐ Comments:

Yes.

vii. Is the data quality or usability affected? (Use comment box to explain.)

Comments:

MS/MSD recovery and RPD exceedance are considered minor and would result in the estimation of the associated data. The reported data should still consider as usable.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes☒ No☐ N/A☐ Comments:

Yes.

ii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples 60-120% R for QC samples ; all other analyses see the laboratory report pages)

Yes☐ No☒ N/A☐ Comments:

Sample locations associated with surrogates exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Method	Surrogate	Recovery
MW-7-W-20230822	8260D	Toluene-d8	< LL but > 10%
	AK 102	(S) o-Terphenyl	< LL but > 10%

Note:
LL – Lower control limit

The criteria used to evaluate the surrogate recoveries are presented in the following table. In the case of a surrogate deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	No Action
	Detect	J
< LL but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Surrogates diluted below the calibration curve due to the high concentration of a target compounds	Non-detect	UJ1
	Detect	J1

Note:
[1] A more concentrated analysis was not performed with surrogate compounds within the calibration range; therefore, no determination of extraction efficiency could be made.

Method 8260D/AK 102: Surrogate recovery for Toluene-d8 and o-Terphenyl were less than the control limit in samples MW-7-W-20230822. Target compounds result in associated samples were qualified as estimated (UJ/J).

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes☒ No☐ N/A☐ Comments:

Yes.

iv. Is the data quality or usability affected?

Comments:

Surrogate recovery exceedance are considered minor and would result in the estimation of the associated data. The reported data should still consider as usable.

e. Trip Blanks

i. Is one trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes☒ No☐ N/A☐ Comments:

Trip blank samples were collected as TRIP BLANK 1-20230822, TRIP BLANK 2-20230822 and TRIP BLANK 3-20230822.

ii. Are all results less than LOQ or RL?

Yes☒ No☐ N/A☐ Comments:

Yes.

iii. If above LOQ or RL, what samples are affected?

Comments:

None of the samples were affected.

iv. Is data quality or usability affected?

Comments:

Data quality or usability was not affected.

f. Field Duplicate

i. Are one field duplicate submitted per matrix, analysis and 10 project samples?

Yes☒ No☐ N/A☐ Comments:

Yes.

ii. Was the duplicate submitted blind to lab?

Yes☒ No☐ N/A☐ Comments:

Yes.

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

Yes☐ No☒ N/A☐ Comments:

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Method	Compounds / Analytes	Sample Result	Duplicate Result	RPD
MW-7A-W-20230822/ BD-1-W-20230822	6010D	Lead	27.7	30.2	AC
	AK 101	TPHGAK C6 to C10	7730	10200	AC
	8260D	1,2,3-Trimethylbenzene	516	322	AC
		1,2,4-Trimethylbenzene	1810	1100	48.8%
		1,2-Dibromoethane	19	11	AC
		1,2-Dichloroethane	100 U	9.94 J	AC
		1,3,5-Trimethylbenzene	554	315	NC
		Benzene	87.5 J	44.6	AC
		Ethylbenzene	54.7 J	39.2	AC
		Isopropylbenzene	12.9 J	8.64 J	AC
		m&p-Xylene	3880	2490	43.6%
		Naphthalene	500 U	40.2 J	AC
		n-Propylbenzene	13 J	9.15 J	AC
		o-Xylene	1990	1270	44.2%
		p-Isopropyltoluene	51.1 J	4.27 J	AC
		sec-Butylbenzene	100 U	4.90 J	AC
		Toluene	152	86.8	AC
		Total Xylenes	5870	3760	43.8%
	AK 102/103	AK102 DRO C10-C25	3050	4060	28.4%
	8270E-SIM	1-Methylnaphthalene	6.65	9.88	39%

		2-Methylnaphthalene	7.53	11.8	44.1%
		Acenaphthene	0.0983	0.142	AC
		Benzo(a)anthracene	0.0408 J	0.0292 J	AC
		Benzo(b)fluoranthene	0.0237 J	0.0500 U	AC
		Chrysene	0.0391 J	0.0281 J	AC
		Fluoranthene	0.0980	0.0783	AC
		Fluorene	0.0638	0.0979	AC
		Naphthalene	19.2	26.7	32.7%
		Phenanthrene	0.0857	0.0862	AC
		Pyrene	0.107	0.101	AC

Notes:
AC - Acceptable
NC – Noncompliance

Method SW846 8260D: The compounds 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, total xylenes, m&p-xylene and o-xylene associated with sample locations MW-7A and BD-1 exhibited a field duplicate RPD greater than the control limit. The associated sample results from sample locations for the listed analyte were qualified as estimated (J).
Method SW846 8270 E SIM: The compounds 1-Methylnaphthalene, 2-Methylnaphthalene and naphthalene associated with sample locations MW-7A and BD-1 exhibited a field duplicate RPD greater than the control limit. The associated sample results from sample locations for the listed analyte were qualified as estimated (J).

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Field duplicate RPD exceedance are considered minor and would result in the estimation of the associated data. The reported data should still consider as usable.

g. Decontamination or Equipment Blank

i. Were decontamination or equipment blanks collected?

Yes☒ No☐ N/A☐ Comments:

Equipment blank sample was collected as EQB-1-W-20230822.

ii. Are all results less than LOQ or RL?

Yes☒ No☐ N/A☐ Comments:

Yes.

iii. If above LOQ or RL, specify what samples are affected?

Comments:

Sample Locations	Method	Compounds	Sample Result	Qualification
MW-10-W-20230822 MW-5A-W-20230822 MW-11-W-20230822 RW-14-W-20230822	AK 101	TPHGAK C6 to C10	Detected sample results <RL and <BAL	"UB" at the RL
MW-12-W-20230822	8270 E SIM	Benzo(g,h,i)perylene Indeno(1,2,3-cd)pyrene	Detected sample results <RL and <BAL	"UB" at the RL
MW-10-W-20230822		Benzo(g,h,i)perylene Dibenz(a,h)anthracene Indeno(1,2,3-cd)pyrene	Detected sample results >RL and <BAL	"UB" at the sample detection

Note:
RL Reporting limit

iv. Are data quality or usability affected?

Comments:

The equipment blank contamination is considered minor and would result in the non-detect of the associated data. The reported data should still consider as usable.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Are they defined and appropriate?

Yes☒ No☐ N/A☐ Comments:

Yes.

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compounds	Recovery
MW-10-W-20230822 MW-5A-W-20230822 MW-11-W-20230822 MW-12-W-20230822 MW-13-W-20230822 RW-14-W-20230822 MW-5-W-20230822 MW-7-W-20230822	CCV %D	Methylene Chloride	Low
BD-1-W-20230822 EQB-1-W-20230822 TRIP BLANK 1-20230822 TRIP BLANK 2-20230822 TRIP BLANK 3-20230822		1,1,2,2-Tetrachloroethane	
		2,2-Dichloropropane	
		Acrolein	
		Bromomethane	

Sample Locations	Initial/Continuing	Compounds	Recovery
MW-9-W-20230822 MW-7A-W-20230822		Acrolein	
		Bromomethane	

Results associated with calibrations outside of the recovery limits are qualified as estimated (UJ/J).

Compounds analyzed at a dilution for sample results that were greater than the calibration. The diluted results were reported and qualified as being reported at a dilution (D).

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
MW-7-W-20230822	Benzene	--	2990	2990 D
	1,2-Dibromoethane	--	260 J	260 DJ
	Ethylbenzene	--	3420	3420 D
	n-Propylbenzene	--	222 J	222 DJ
	Toluene	--	28200	28200 D
	1,2,4-Trimethylbenzene	--	2090	2090 D
	1,2,3-Trimethylbenzene	--	580	580 D
	1,3,5-Trimethylbenzene	--	597	597 D
	Xylenes, Total	--	22000	22000 D
	o-Xylene	--	6940	6940 D
	m&p-Xylene	--	15100	15100 D
	Fluorene	--	0.187	0.187 DJ
	Naphthalene	--	241	241 D
	2-Chloronaphthalene	--	0.394	0.394 DJ
MW-7A-W-20230822	1,2-Dibromoethane	--	19	19 DJ
BD-1-W-20230822	1,2-Dibromoethane	--	11	11 DJ

Compounds 1,2,3-trichloropropane and 1,2-dibromoethane analyzed for USEPA method 524/8260 hybrid procedure by the laboratory. The results are considered from lower reporting limit, but surrogate recoveries were not reported for USEPA method 524. Hence the results for compounds 1,2,3-trichloropropane and 1,2-dibromoethane are qualified as estimated (J/UJ).

Sample ID	Compounds
MW-10-W-20230822 MW-9-W-20230822 MW-5A-W-20230822 MW-11-W-20230822 MW-12-W-20230822	1,2,3-Trichloropropane

Sample ID	Compounds
MW-13-W-20230822 RW-14-W-20230822 MW-5-W-20230822 MW-7-W-20230822 MW-7A-W-20230822 BD-1-W-20230822 EQB-1-W-20230822 TRIP BLANK 1-20230822 TRIP BLANK 2-20230822 TRIP BLANK 3-20230822	1,2-Dibromoethane