2023 Groundwater Monitoring Report

536 4th Avenue, Fairbanks, Alaska

March 8, 2024

Prepared for:

Alaska Aerofuel Inc.

Prepared by:

Alaska Resources and Environmental Services LLC

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EXECUTIVE SUMMARY

This report summarizes the findings of groundwater analytical sampling conducted by Alaska Resources and Environmental Services LLC (ARES) for the subject property referenced as 536 4th Avenue. The Alaska Department of Environment Conservation (ADEC) file number for the site is 102.38.192. The property surveyed in this report is located at 536 4th Avenue, Fairbanks, AK (Figures 1-2).

Groundwater monitoring included the collection of a total of five (5) groundwater analytical samples in 2023.

The groundwater collected from the source area well, MW1, in 2023 was below ADEC cleanup levels (CULs) for all tested analytes with the exception of naphthalene (1.76 µg/L, CUL = 1.70 µg/L). The concentrations of naphthalene in MW1 were decreasing from 2017-2020, however, an increase in concentration to above ADEC CULs was documented from 2021-2023. The concentrations of 1-methylnaphthalene in MW1 have shown a decreasing trend from 2017-2023, and the well no longer exceeds ADEC CULs for this analyte.

Historical analytical results confirm that MW2, which is located upgradient from the source area, has been non-detect or had insignificant detections below ADEC CULs for all tested analytes during all historical sampling events from 2016-2023. Trace detections of multiple polycyclic aromatic hydrocarbon (PAH) analytes were documented in 2018. Low level detections of diesel-range organics (DRO) were noted in 2016, 2017, 2019, 2020, and 2023. In 2022, the well was non-detect for all tested analytes excepting trace detections for phenanthrene and trichlorofluoromethane. In 2023, the well had detections of 2-methylnaphthalene well below ADEC CULs. These historical analytical results confirm that upgradient sources of contaminants have not affected the sample results of the source area or downgradient monitoring wells.

The groundwater collected from downgradient well MW3 has been non-detect or had insignificant detections below ADEC CULs for all tested analytes during all historical sampling events from 2016-2023. This well is the furthest downgradient of all the current monitoring wells. The results from this well indicate that contaminants have not migrated in this direction from the source area.

RW4 is a former recovery well installed in the basement of the subject property that has been repurposed as a monitoring well because it is directly downgradient from the source area according to the calculated groundwater flow direction. RW4 has been significantly below ADEC CULs for all tested analytes, except DRO, for all sampling events from 2016-2023. DRO concentrations exceeded ADEC CULs in 2017 (1,510 µg/L), 2019 (4,300 µg/L), 2020 (4,700 µg/L), 2021 (1,660 µg/L), 2022 (2,020 µg/L) and 2023 (12,700 µg/L). DRO concentration showed an increasing trend from 2017-2023, as the contaminant plume moved downgradient, and remains above ADEC CULs.

Based on the most recent 2023 groundwater analytical results, groundwater at the site exceeds ADEC CULs at source area MW1 for naphthalene (1.76 µg/L), and at the downgradient well

RW4 for DRO (12,700 µg/L). Neither well has shown a significant decreasing trend for these analytes.

The original spill occurred within the basement of the subject property and seeped through expansion joints in the floor to the soil beneath the building. The water table fluctuates seasonally from several feet above the basement floor slab, to several feet below the base of the building's footings. Groundwater does not flow freely through the sub-slab soils and is trapped and stagnant during high water events. This groundwater flow anomaly has reduced the rate of natural attenuation within the soils under the building and contributed to some of the fluctuations in the concentrations of detected contaminants.

ARES recommends the following actions:

1) Continuing annual groundwater monitoring well/recovery well sampling events to assess groundwater conditions at the site until contaminant concentrations establish a significant decreasing trend or all wells are below ADEC CULs for all analytes. Analytical samples should be collected during a period of high groundwater table conditions (Fall 2024). Groundwater samples should be collected from MW1, MW2, MW3, and RW4 and be analyzed for DRO, PAH, and volatile organic compounds (VOCs). Gasoline range organics (GRO) has never exceeded ADEC CULs in any well during any of the historic sampling events and ARES recommends suspension of analysis for this analyte for future sampling events.

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ACRONYMS AND ABBREVIATIONS

AAC .....Alaska Administrative Code
ADEC.....Alaska Department of Environmental Conservation
AK.....Alaska
ARES .....Alaska Resources and Environmental Services, LLC
bgs.....Below Ground Surface
COC .....Chain of Custody
CULs.....Clean Up Levels
°C .....Degrees Celsius
DO.....Dissolved Oxygen
DRO .....Diesel Range Organics
EHC.....Eternal Holdings Corporation Inc.
EPA.....Environmental Protection Agency
FBO.....Fixed-Base Operator
°F.....Degrees Fahrenheit
ft²....Square Feet
GFAHFH.....Greater Fairbanks Area Habitat for Humanity
GRO .....Gasoline Range Organics
LCS .....Laboratory Control Sample
LCSD .....Laboratory Control Sample Duplicate
LLC.....Limited Liability Company
LOQ .....Limit of Quantitation
MB .....Method Blank
MS/MSD.....Matrix Spike/Matrix Spike Duplicate
mv .....millivolt
ND.....Non-Detect
PAH.....Polycyclic Aromatic Hydrocarbons
ppm .....Parts Per Million
PQL.....Practical Quantitation Limit
QA.....Quality Assurance
QC.....Quality Control
RPD.....Relative Percent Difference
TB .....Trip Blank
µg/L.....Micrograms Per Liter
USGS .....United States Geological Survey

Groundwater Monitoring Report

1.0 INTRODUCTION

This report summarizes the findings and records of groundwater sampling activities conducted by Alaska Resources and Environmental Services LLC (ARES) for the property located at 536 4th Avenue Fairbanks, Alaska (Figures 1-2).

This Groundwater Monitoring Report was in response to a diesel heating oil fuel spill that occurred on September 21, 2015, during fueling operations performed by Alaska Aerofuel Inc. The spill occurred at 536 4th Avenue in a building formally owned by Greater Fairbanks Area Habitat for Humanity (GFAHFH). Alaska Aerofuel purchased the building from GFAHFH and took possession of the building on April 15, 2016.

This report contains details of the groundwater assessment in the vicinity of the spill to include the collection of groundwater analytical samples, field observations, and analytical data from sampling activities.

1.1 Objectives and Scope of Work

The purpose of this project was to conduct a groundwater investigation at the subject property to include annual analytical groundwater sampling. The Alaska Department of Environmental Conservation (ADEC) file number for the site is 102.38.192.

1.2 Project Organization / Personnel

Eternal Holdings Corporation Inc (EHC) is the current owner of the property. Mr. Tom Murray is the contact for EHC. The mailing address for EHC is 1355 Manna Way, North Pole, AK 99705. The telephone number for Mr. Tom Murray is (907) 388-0065.

Alaska Aerofuel is the responsible party for the site. Alaska Aerofuel was sold to Ross Aviation which is doing business as Alaska Aerofuel Fixed-Base Operator (FBO). The mailing address for Ross Aviation/Alaska Aerofuel is PO Box 60669, Fairbanks, AK 99706. Mr. Tim Hill is the manager for Ross Aviation/Alaska Aerofuel. The telephone number for Mr. Tim Hill is (907) 451-3833.

SGS North America Inc. performed laboratory analysis for gasoline range organics (GRO), volatile organic compounds (VOCs), diesel range organics (DRO), and polycyclic aromatic hydrocarbons (PAH) in water. SGS is approved by ADEC to provide testing of groundwater for hazardous substances and petroleum related contaminants. The mailing address for SGS North America is 200 West Potter Drive, Anchorage, Alaska 99518. The telephone number for SGS is (907) 562-2343.

The groundwater monitoring work described in this report was conducted by ARES on September 26, 2023 by Mr. Dustin Stahl, Environmental Specialist for ARES, and Mr. Richard

Ranft, Environmental Geologist for ARES. Mr. Stahl and Mr. Ranft meet the qualifications of 'Qualified Environmental Professional' by the ADEC under 18 AAC 75. Mr. Dustin Stahl is the point of contact for this project and may be contacted at Alaska Resources & Environmental Services LLC, P.O. Box 83050, Fairbanks, Alaska 99708. The telephone number for Mr. Stahl is (907) 374-3226 ext 803.

1.3 Regulatory Framework

A regulatory framework for the groundwater monitoring activities has been developed and followed with the consideration of the following regulations and guidance:

- 18 AAC 75 *Oil and Other Hazardous Substances Pollution Control* as amended through November 2021;
- ADEC soil cleanup levels in accordance with 18 AAC 75.341 Table B1 and B2 Method Two 'under 40" zone' most stringent level listed; revised November 2021; and
- *ADEC Field Sampling Guidance* as amended through August 2017-January 2022 (version applicable at the time of the sampling event)

2.0 SITE DESCRIPTION

2.1 Location

The Subject Property is located at 536 4th Avenue, Fairbanks, Alaska (Figures 1, 2 Appendix A). The property consists of a 1250 ft^2 parcel located in a commercial district of downtown Fairbanks. The building consists of a 29.5 ft x 49 ft two-story building with a full basement. Nearby surface water bodies include the Chena River, located approximately 650 ft to the north.

2.2 History

According to former Alaska Aerofuel General Manager Mr. Robert Wilson, on September 21, 2015, at 13:53, a fuel delivery driver removed the fill pipe to the building's heating oil tank during a scheduled fuel delivery due to a locked fill port cap. The tank was located in the basement of the building on a sand filled ledge directly below the sidewalk on the south side of the building. The pipe was contained in what appeared to be a secondary pipe to the tank, however, the secondary pipe only penetrated through the sidewalk and did not connect to the tank. When fuel was dispensed through the pipe, a total of 1,039 gallons of #2 heating oil was released into the building's basement. A portion of the discharged fuel absorbed into the sand filled cavity/cinder block ledge that supported the fuel tank. Some of the fuel also passed through the concrete expansion joints located along the edges of the basement's concrete slab floor. A majority of the fuel (approximately 700 gallons) was discharged into the Golden Heart Utilities sewer system by the basement drainage system's lift station pump.

A complete history of emergency response and corrective action is detailed in the ARES report titled *536 4th Avenue Interim Corrective Action Report-Remedial Actions,*

Vapor Extraction System Installation, Recovery well Installation, and Analytical Sampling Report dated July 13, 2016.

2.3 Site Topography, Geology, and Hydrology

Topography

The United States Geological Survey (USGS) Fairbanks Quadrangle (D-2 SE) provides topographic map coverage of the site (Figure 1). Fairbanks is located in the northern part of the Tanana Basin, which is a relatively flat floodplain of the Tanana River. The Subject Property is situated approximately 0.12 miles south of the Chena River and 3.75 miles north of the Tanana River. Based upon the topographic map of the Fairbanks Quadrangle, the site elevation is approximately 442 feet above mean sea level.

Regional Soils/Geology

Soils in the area are derived from the alluvial plain deposits and consist of alternating layers and lenses of unconsolidated sandy gravels and gravely sands overlain by silt. The well–drained Salchaket soils border the principal rivers in the area and are the most extensive soils of the alluvial plains. The site is underlain by Minto silt loam. The Minto soils consist of moderately well drained soils that have developed into micaceous silty material with many areas underlain at a depth of 6 feet or more by irregular, discontinuous masses of ice. Discontinuous permafrost underlies the floodplain area and can extend to depths of two hundred feet or more. The hills to the north of the site area are part of a metamorphic system that forms the Yukon – Tanana upland. The basin uplands consist of fractured schist. Areas of discontinuous permafrost underlie north-facing slopes. Eolian silts of the Fairbanks loess and reworked silt deposits cover the flanks of bedrock uplands in proximity of the Tanana River. These deposits vary in thickness and grade into alluvial-fan deposits and the Chena alluvium.

Site Hydrology

Historical depth to groundwater during well installation (2016) and for each subsequent sampling event is documented in Table 1 below.

Table 1: Depth to Groundwater

Year	Depth to Groundwater (ft bgs)
2016	12
2017	11.2-13.75
2018	10-12.5
2020	9.5
2021	10.8
2022	11.6

2023	9.94-10.65

A groundwater elevation survey conducted in February 2017 confirmed that groundwater direction flow was 12 degrees west of north with a hydraulic gradient of 0.0012 vertical ft/ horizontal ft. See Figure 4 Appendix A.

3.0 GROUNDWATER SAMPLING

3.1 Groundwater Sampling Procedures

A peristaltic pump with new disposable polyethylene tubing was used during the 2023 sampling event for purging the wells and to collect samples for non-volatile analytes. A bladder pump with disposable polyethylene bladders was used for sample collection of volatile analytes. Before sampling, each well was checked for free product, and the groundwater elevation was measured to 0.010 feet using a Heron Instruments sm.OIL Interface Meter.

Groundwater was purged and sampled using low-flow techniques. For low-flow sampling, the goal is minimum drawdown (<0.3 feet) during purging. A flow rate of 0.3 L/minute was measured and maintained throughout the purging process. Water quality parameters were obtained using a flow-through-cell and a YSI Model 556 multi-parameter water meter. Additionally, water quality parameters were measured and recorded on dedicated water parameter sheets while purging each monitoring well.

Water parameters were monitored and recorded every five minutes until purging was completed. Purging continued until water parameter measurements indicated that the well had stabilized.

The following water quality parameters are considered stable when three successive. readings, collected 3-5 minutes apart, are within:

- ± 3% for temperature (minimum of ± 0.2°C)
- ± 0.1 for pH
- ± 3% for conductivity
- ± 10 mv for redox potential
- ± 10% for dissolved oxygen (DO)

Once the groundwater parameters stabilized, samples were collected in order of decreasing volatility. Groundwater was collected directly from the pump tubing and was placed directly into lab supplied sample bottles. Volatile samples were collected to avoid any headspace in the bottle. All bottles were labeled and placed in a pre-chilled cooler (at approximately 4°C) and submitted to an ADEC approved laboratory (SGS) following chain of custody (COC) procedures.

Purge water was placed into individually labeled 5-gallon buckets with lids and stored offsite in ARES warm storage until analytical results were received. Once the analytical results were received, all purge water that was below ADEC cleanup levels was discharged onto the ground surface. Purge water exceeding ADEC cleanup levels remained in ARES warm storage until

sufficient contaminated water was collected from other projects to make disposal practical and cost efficient.

During the 2023 sampling event, groundwater samples were collected from monitoring wells MW1, MW2, MW3 and recovery well RW4 on September 26, 2023. A blind field duplicate sample (MWD-0923) was collected from well MW1 for quality assurance/quality control purposes.

3.2 Field Observations

Purge water collected from MW1 had a fuel odor and a mostly clear with small sheen color. Purge water from MW2 and MW3 was clear in color, contained no odor or sheen, and did not contain free product. Purge water collected from RW4 was clear in color but had a fuel odor.

3.3 Groundwater Analytical Sampling Summary

During the 2023 sampling event, monitoring wells MW1, MW2, MW3, and recovery well RW4 were sampled and analyzed for GRO by method AK101, DRO by method AK102, VOCs by method SW8260D and PAH by method 8270D SIM.

A summary table of groundwater historical analytical results from all wells is included in Appendix C. Complete laboratory reports are included in Appendix E.

Analytical results from the 2023 sampling event indicate that groundwater collected from all three monitoring wells (MW1, MW2, and MW3) were below ADEC cleanup levels for all tested analytes with the following exceptions:

- **MW1:** Naphthalene: 1.76 µg/L: (ADEC CUL = 1.70 µg/L)

Note: Recovery well RW4 was also sampled during this event. See Section 3.4 below.

3.4 Recovery Well Groundwater Analytical Results

Five recovery wells and the building's emergency "potable" water well are located in the basement of the source area building. Analytical groundwater samples were collected from all of these wells on January 29, 2016. Details of this sampling event are discussed in the ARES report titled *536 4th Avenue Interim Corrective Action Report-Remedial Actions, Vapor Extraction System Installation, Recovery well Installation, and Analytical Sampling Report* dated July 13, 2016. The emergency potable water well was not sampled during the 2023 sampling event. Recovery well locations are shown in Appendix A, Figures 3 and 4.

During the 2023 sampling event, recovery well RW4 was the only recovery well that was sampled. In 2017, it was determined that this well was directly downgradient from the source area and was best suited for sampling.

Analytical results from the 2023 sampling event of RW4 were below ADEC CULs for all tested analytes with the following exceptions:

- DRO: 12,700 µg/L (ADEC CUL = 1,500 µg/L)

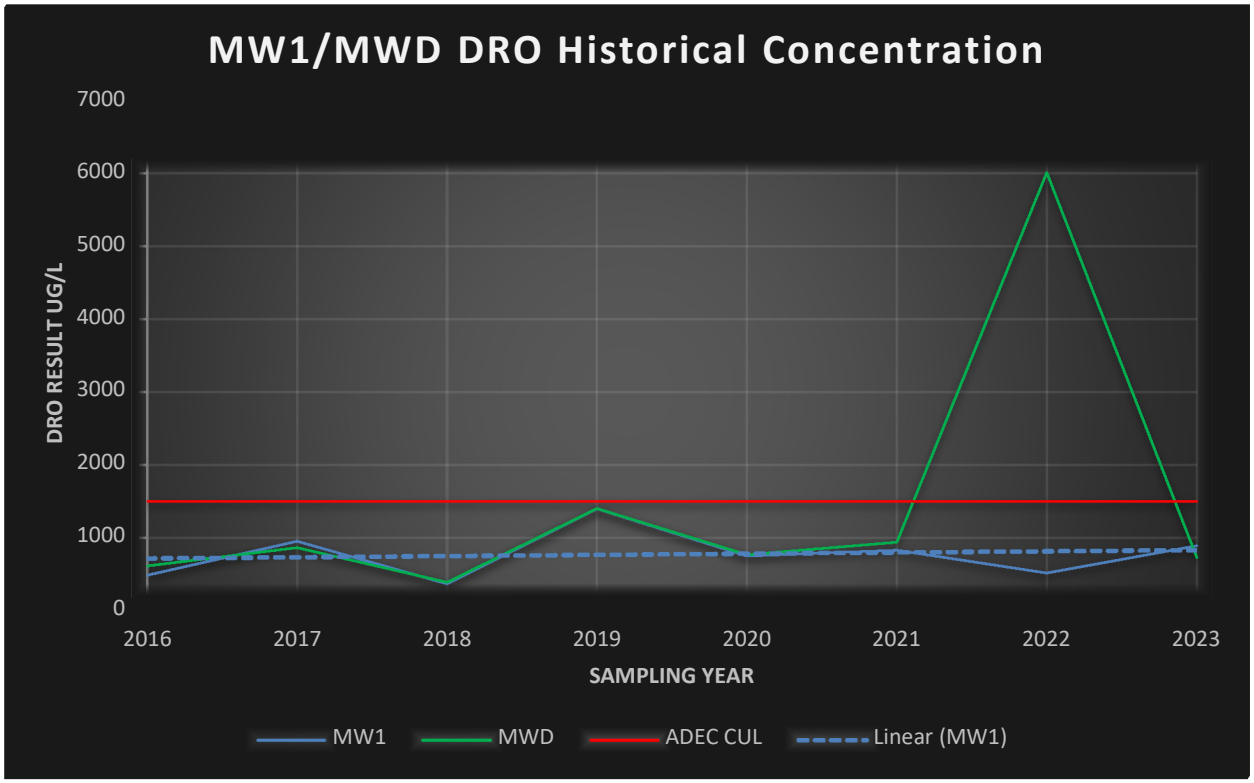
3.5 Historical Review of Analytical Results for Each Monitoring Well

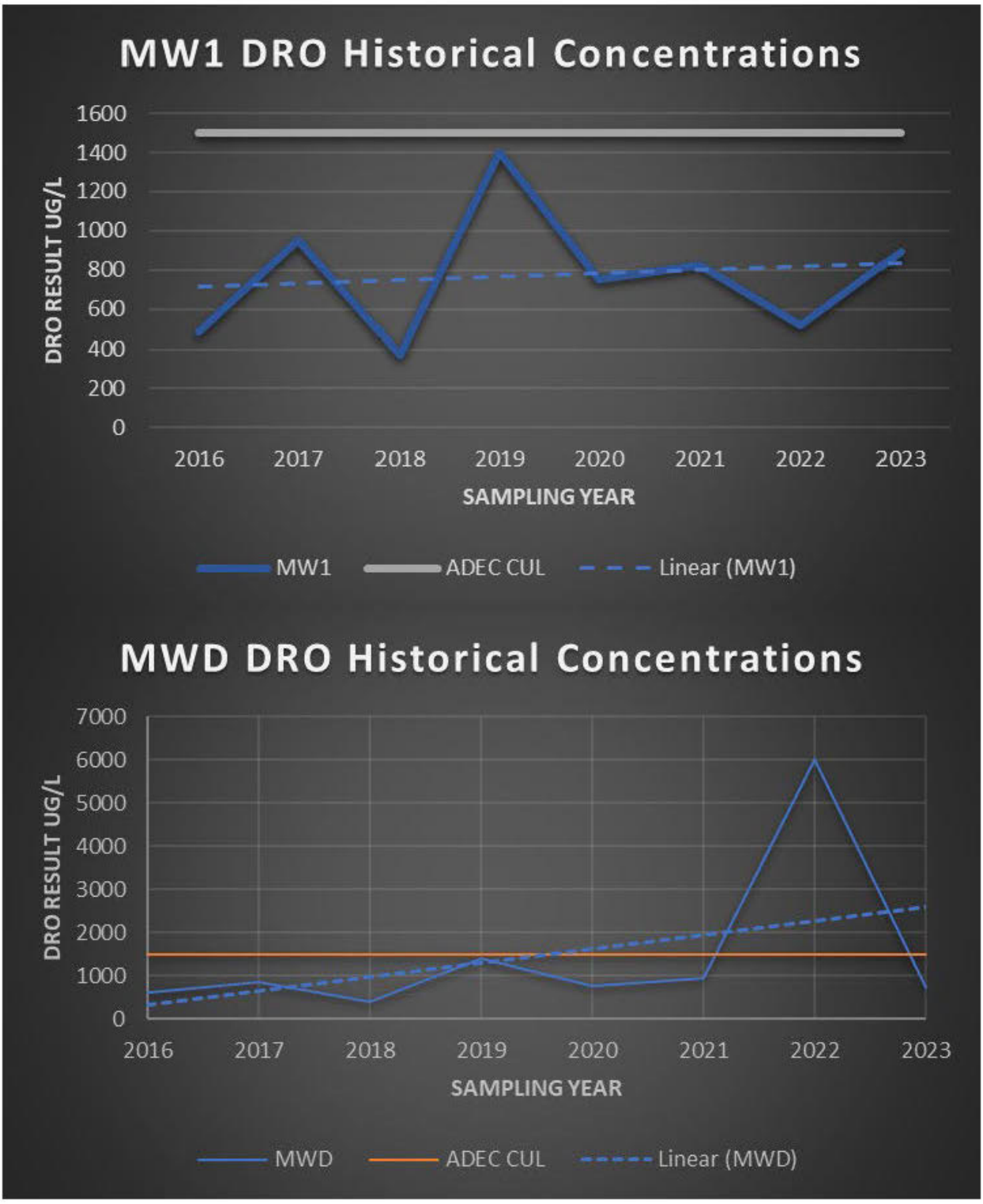
3.5.1 MW1 Analytical Results Review

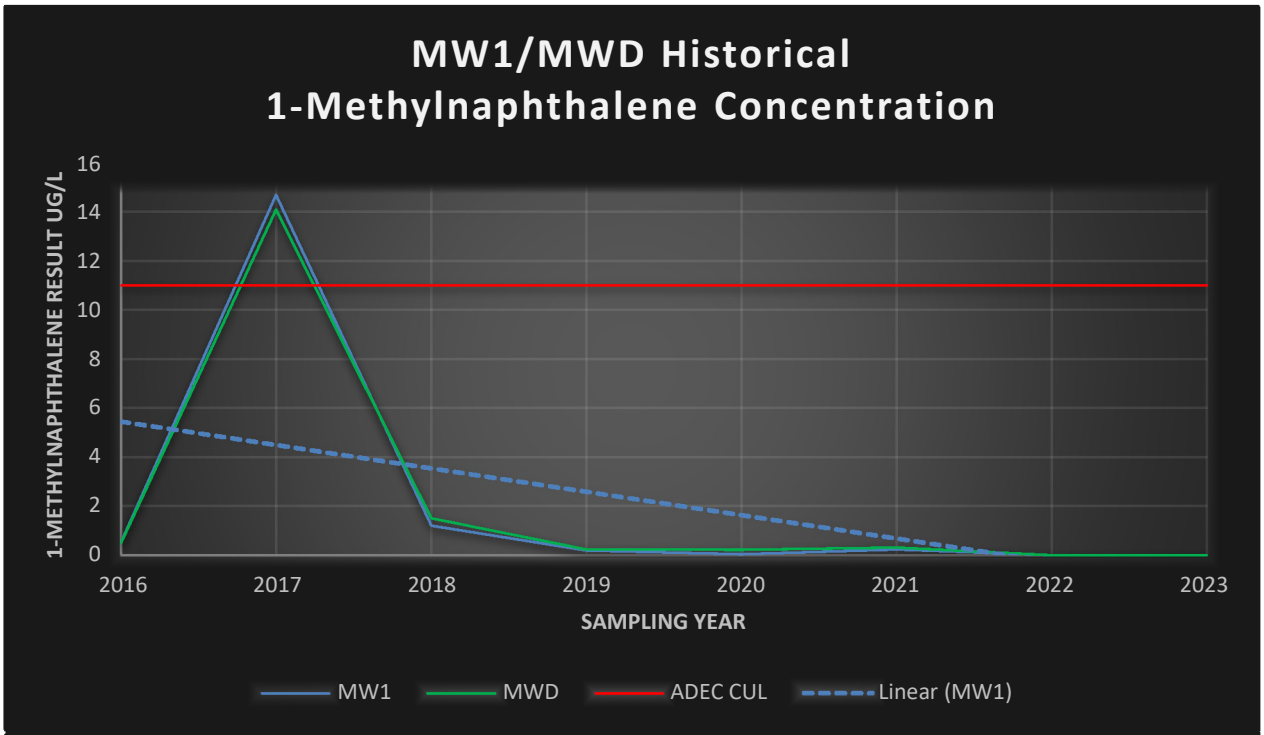
The groundwater collected from the source area well, MW1, was below ADEC CULs for all tested analytes in 2016, and from 2019-2021. This well exceeded ADEC CULs for 1-methylnaphthalene (14.7 µg/L) in 2017. The concentrations of 1-methylnaphthalene have shown a decreasing trend from 2017-2023, and the well no longer exceeds ADEC CULs for this analyte.

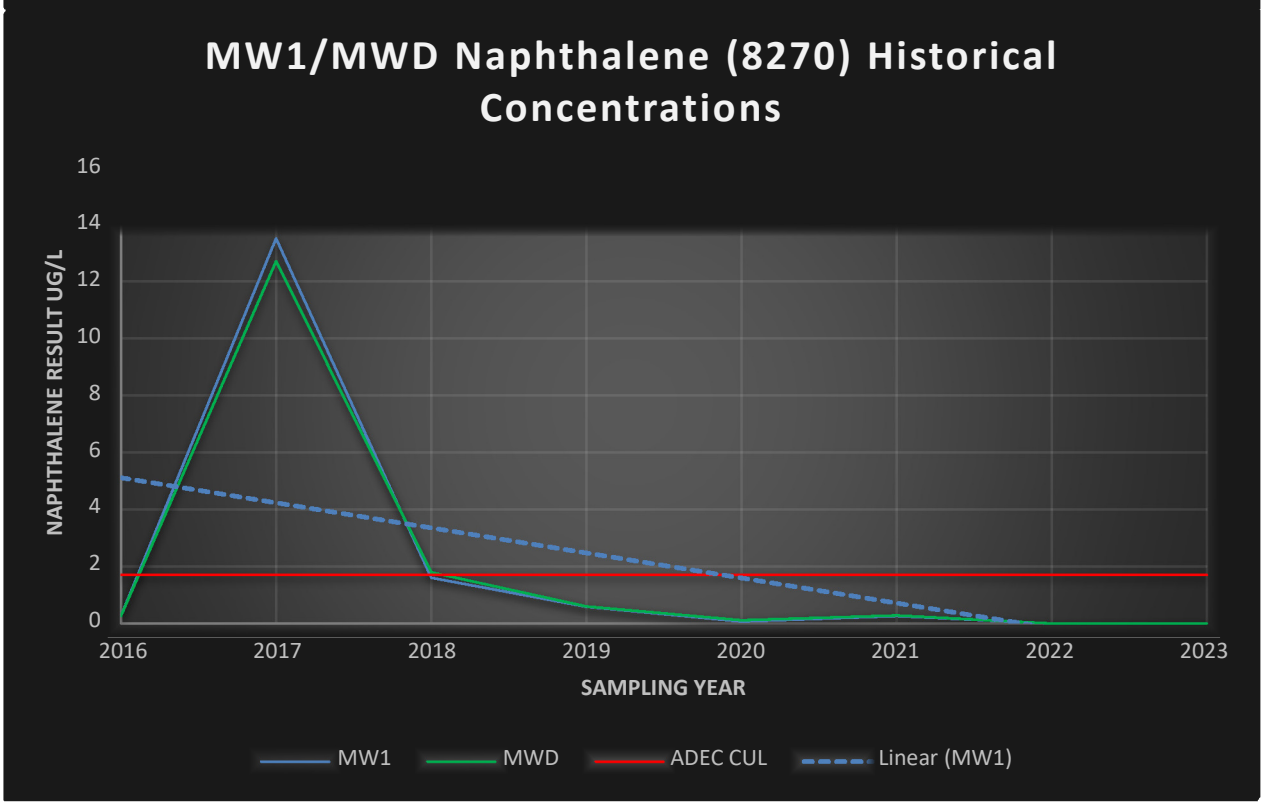
MW1 exceeded ADEC CULs for naphthalene in 2017 (13.5 µg/L), 2018 (1.8 µg/L), and 2023 (1.76 µg/L). The concentrations of naphthalene in MW1 were decreasing from 2017-2020, however, an increase in the concentration to above ADEC CULs was documented from 2021-2023.

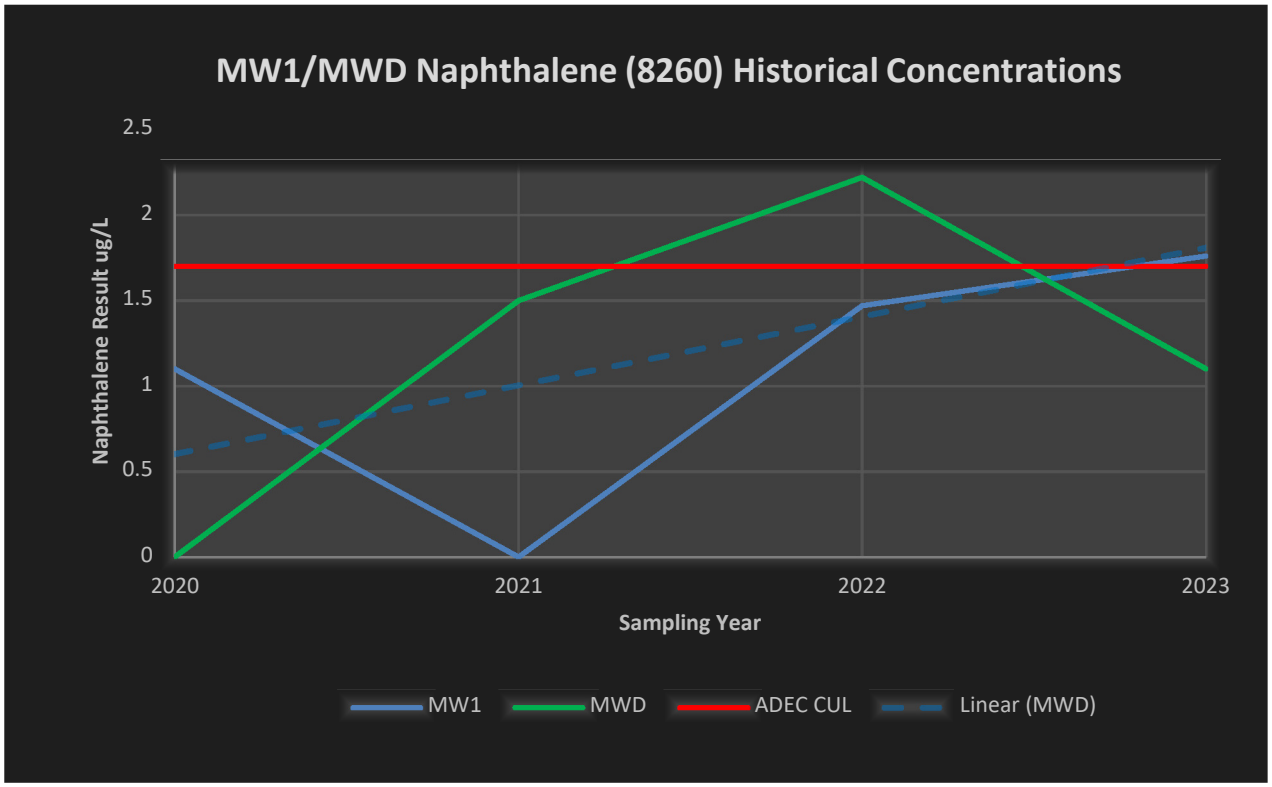
The duplicate groundwater sample collected from the well in 2023 was below ADEC CULs for all tested analytes without exception. The graphs included below show the concentration of DRO, naphthalene (methods 8260D and 8270D SIM), and 1-methylnaphthalene in MW1 between 2016-2023.




MW1 DRO Historical Concentrations
DRO RESULT UG/L
1600
1400
1200
1000
800
600
400
200
0
2016
2017
2018
2019
2020
2021
2022
2023
SAMPLING YEAR
MW1
ADEC CUL
Linear (MW1)
MWD DRO Historical Concentrations
DRO RESULT UG/L
7000
6000
5000
4000
3000
2000
1000
0
2016
2017
2018
2019
2020
2021
2022
2023
SAMPLING YEAR
MWD
ADEC CUL
Linear (MWD)


MW1/MWD Historical
1-Methylnaphthalene Concentration
1-METHYLNAPHTHALENE RESULT UG/L
16
14
12
10
8
6
4
2
0
2016
2017
2018
2019
2020
2021
2022
2023
SAMPLING YEAR
MW1
MWD
ADEC CUL
Linear (MW1)


MW1/MWD Naphthalene (8270) Historical
Concentrations
NAPHTHALENE RESULT UG/L
16
14
12
10
8
6
4
2
0
2016
2017
2018
2019
2020
2021
2022
2023
SAMPLING YEAR
MW1
MWD
ADEC CUL
Linear (MW1)



3.5.2 MW2 Analytical Results Review

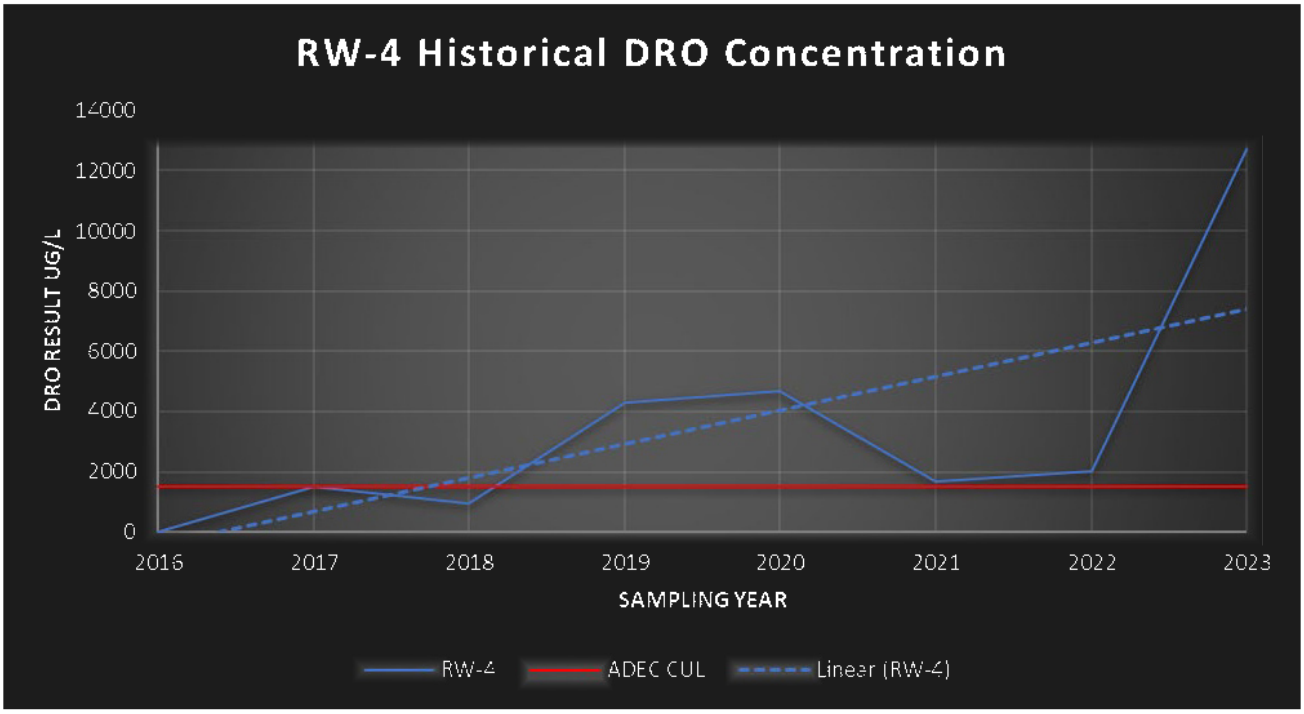
Historical analytical results confirm that MW2, which is located upgradient from the source area, has been non-detect or had detections significantly below ADEC CULs for all tested analytes during all historical sampling events from 2016-2023. Trace detections of multiple PAH analytes were documented in 2018. Low level detections of DRO were noted in 2016, 2017, 2019, 2020, and 2023. In 2023, the well had detections of 2-methylnaphthalene well below ADEC CULs. These historical analytical results confirm that upgradient sources of contaminants have not affected the sample results of the source area or downgradient monitoring wells.

3.5.3 MW3 Analytical Results Review

The groundwater collected from downgradient well MW3 has been non-detect or had detections significantly below ADEC CULs for all tested analytes during all historical sampling events from 2016-2023. This well is the furthest downgradient of all the current monitoring wells. Due to utility conflicts during installation, it is also slightly west of the groundwater flow direction. The results from this well indicate that contaminants have not migrated in this direction from the source area.

3.5.4 RW4 Analytical Results Review

RW4 is a former recovery well installed in the basement of the subject property that has been repurposed as a monitoring well because it is directly downgradient from the source area according to the calculated groundwater flow direction. RW4 has been significantly below ADEC CULs for all tested analytes, except DRO, for all sampling events from 2016-2023. DRO concentrations exceeded ADEC CULs in 2017 (1,510 µg/L), 2019 (4,300 µg/L), 2020 (4,700 µg/L), 2021 (1,660 µg/L), 2022 (2,020 µg/L), and 2023 (12,700 µg/L). DRO concentration showed an increasing trend from 2017-2023, as the contaminant plume moved downgradient, and remains above ADEC CULs. The graph included below shows the concentration of DRO in RW4 from 2016-2023.



4.0 QUALITY ASSURANCE AND QUALITY CONTROL

4.1 Blind Duplicate Samples

Field quality control procedures for this project included the collection and analysis of a blind field duplicate sample. The blind field duplicate sample was analyzed for the same compounds as the original sample. The quality control (QC) sample was analyzed to assess the quality of sample collection and handling, as well as the accuracy and precision of the laboratory's analytical procedures.

RPD calculations provide a comparison of two theoretically identical samples that are submitted blind to the laboratory to provide an unbiased measure of precision. Data for both samples must be reported for the RPD calculation to provide meaningful data. ADEC recommended that the RPD limit for water analysis is <30%. Table 2 lists the analytes which have RPD values that exceed the recommended limit.

Table 2: Relative Percent Difference Calculations in 2023 that Exceed 30%

Sample ID / Duplicate ID	Compound	Sample Concentration (µg/L)	Duplicate Concentration (µg/L)	RPD (%) (Limit < 30%)
MW1-0923 / MWD-0923	1,2,4-Trimethylbenze	7.58	1.69	**127.1**
	n-Propylbenzene	1.05	ND	**71.0**
	Naphthalene	1.76	1.10	**46.2**
	o-Xylene	0.330 J	ND	**41.0**
	sec-Butylbenzene	1.230	0.340	**113.4**

Given two sample concentrations (X and Y) the formula to determine RPD is the absolute value of the following:
[(X - Y) /((X + Y))/ 2)] x 100 = RPD
J - Sample detected above MDL but below MRL. Reported concentration is considered an estimate.

The blind field duplicate RPD calculations fell within the ADEC recommended range excepting the analytes listed in Table 2. The results for the analytes with elevated RPDs should be viewed qualitatively rather than quantitatively. Affected data is considered estimated with unknown bias and is qualified with the QN data flag. Data usability is not impacted. No impact to data quality or usability is expected for all other analytes based upon the blind field duplicate RPD calculations.

4.2 Trip Blank Samples

Field QC procedures for this project included the analysis of one trip blank sample which accompanied the well samples in the field. The trip blank sample was analyzed to assess the quality of sample collection and handling.

In ideal conditions the analysis of a trip blank sample should not indicate the presence of any tested analytes in a quantity above the method reporting limit (MRL). A result above the MRL can indicate that cross-contamination occurred between samples during sample transport and analysis or can indicate laboratory contamination.

The trip blank samples for this project were analyzed for VOCs by method SW8260D, DRO by method AK102, GRO by method AK101, and PAH by method 8270D SIM. The following trip blank detections were noted for the 2023 sampling event:

AK101: GRO (0.0471 mg/L) was detected in the trip blank at concentrations below the limit of quantification (LOQ) (0.100 mg/L). All results in which the analyte was detected in both the sample and the trip blank are qualified with a “B” data flag. Data quality is affected. Associated non-detect results are not affected. Cross-contamination between samples for these analytes may have occurred for this sampling event and associated results may be biased high. GRO was detected in the method blank (0.0507 mg/L) for this sample, and associated results may be attributable to method blank/lab contamination. All affected high bias results are below ADEC CULs. Data remains useable.

4.3 Data Quality Data Review

The ADEC *Environmental Laboratory Data Quality Assurance Requirements* (ADEC 2009) and United States Environmental Protection Agency (EPA) *National Functional Guidelines for Organic Review* (EPA 2018) were followed in this site investigation. The data was reviewed to determine the data quality and to evaluate potential impacts on the useability of the data. The review was performed using Level II reports that were provided by SGS North America Inc. of Anchorage, AK. The analytical laboratory reports, chain-of-custody records, and ADEC Lab Quality Checklists are included in Appendix C.

The following quality control parameters were reviewed:

- Holding times
- Sample handling and receiving
- Surrogate percent recovery
- Field duplicate sample comparability
- Matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and RPD
- Laboratory control sample (LCS)/Laboratory control sample duplicate (LCSD) percent recoveries and RPD
- Method blanks (MB)
- Trip blanks
- Method sensitivity – reporting LOQ

2023 Sampling Event

The quality control parameters were found to be within accepted limits with the following exceptions:

AK101: GRO (0.0507 mg/L) was detected in MB 1739005 at concentrations above the method detection limit (0.0450 mg/L) but below the LOQ (0.100 mg/L). Data quality is affected. Analytes detected in both the sample and the blank are considered high biased estimates and are qualified with the "B" data flag. GRO was detected in associated samples at concentrations below ADEC CULs. Data useability is not affected. Sample 1235372006 (trip blank) is affected.

8270D SIM LV: 2-Methylnaphthalene was detected in MB 1737988 at concentrations (0.0186 ug/L) above the method detection limit but below the LOQ (0.0500 ug/L). Data quality is affected. Analytes detected in both the sample and the blank are considered high biased estimates and are qualified with the "B" data flag. 2-Methylnaphthalene was detected in associated samples significantly below ADEC CULs and remains usable.

AK102: LCS 1739079 recovered criteria low for DRO (%R=50%). Data quality is affected. Associated results for DRO are considered low biased estimates. Due to the RPD error discussed below the bias is unknown and the results are qualified with the "QN" data flag. All associated results are significantly above or below ADEC CULs and remain useable.

AK102: The RPD of LCS 1739079 exceeded control limits for DRO. DRO was detected in the associated samples. All detected results for DRO are considered estimates with unknown bias and are qualified with the "QN" data flag. All associated detected results for DRO are significantly above or below ADEC CULs and remain useable. Non-detect results are not affected and do not require qualification. Samples MW1-0923, MWD-0923, MW2-0923, MW3-0923, and RW4-0923 are affected.

SW8260D: 1,2,3-Trichloropropane has detection limits that exceed ADEC CULs in one or more samples. Data quality is affected. Analytes with elevated detection limits could be present at concentrations that exceed ADEC cleanup levels. Data is still usable. Sample results with detection limits that exceed ADEC CULs are highlighted in blue in the analytical summary table.

5.0 CONCLUSIONS AND RECOMMENDATIONS

This report summarizes the findings of groundwater analytical sampling conducted by Alaska Resources and Environmental Services LLC (ARES) for the subject property referenced as 536 4th Avenue. The ADEC file number for the site is 102.38.192. The property surveyed in this report is located at 536 4th Avenue, Fairbanks, AK (Figures 1-2).

Groundwater monitoring included the collection of a total of five (5) groundwater analytical samples in 2023.

The groundwater collected from the source area well, MW1, was below ADEC CULs for all tested analytes with the exception of naphthalene (1.76 µg/L, CUL = 1.70 µg/L). The concentrations of naphthalene in MW1 were decreasing from 2017-2020, however, an increase in concentration to above ADEC CULs was documented from 2021-2023. The concentrations of 1-methylnaphthalene in MW1 have shown a decreasing trend from 2017-2023, and the well no longer exceeds ADEC CULs for this analyte.

Historical analytical results confirm that MW2, which is located upgradient from the source area, has been non-detect or had insignificant detections below ADEC CULs for all tested analytes during all historical sampling events from 2016-2023. Trace detections of multiple PAH analytes were documented in 2018. Low level detections of DRO were noted in 2016, 2017, 2019, 2020, and 2023. In 2023, the well had detections of 2-methylnaphthalene well below ADEC CULs. These historical analytical results confirm that upgradient sources of contaminants have not affected the sample results of the source area or downgradient monitoring wells.

The groundwater collected from downgradient well MW3, has been non-detect or had insignificant detections below ADEC CULs for all tested analytes during all historical sampling events from 2016-2023. This well is the furthest downgradient of all the current monitoring wells. The results from this well indicate that contaminants have not migrated in this direction from the source area.

RW4 is a former recovery well installed in the basement of the subject property that has been repurposed as a monitoring well because it is directly downgradient from the source area according to the calculated groundwater flow direction. RW4 has been significantly below

ADEC CULs for all tested analytes, except DRO, for all sampling events from 2016-2023. DRO concentrations exceeded ADEC CULs in 2017 (1,510 µg/L), 2019 (4,300 µg/L), 2020 (4,700 µg/L), 2021 (1,660 µg/L), 2022 (2,020 µg/L) and 2023 (12,700 µg/L). DRO concentration showed an increasing trend from 2017-2023, as the contaminant plume moved downgradient, and remains above ADEC CULs.

Based on the most recent 2023 groundwater analytical results, groundwater at the site exceeds ADEC CULs at source area MW1 for naphthalene (1.76 µg/L), and at the downgradient well RW4 for DRO (12,700 µg/L). Neither well has shown a significant decreasing trend for these analytes.

The original spill occurred within the basement of the subject property and seeped through expansion joints in the floor to the soil beneath the building. The water table fluctuates seasonally from several feet above the basement floor slab, to several feet below the base of the building's footings. Groundwater does not flow freely through the sub-slab soils and is trapped and stagnant during high water events. This groundwater flow anomaly has reduced the rate of natural attenuation within the soils under the building and contributed to some of the fluctuations in the concentrations of detected contaminants.

ARES recommends the following actions:

1) ARES recommends continuing annual groundwater monitoring well/recovery well sampling events to assess groundwater conditions at the site until contaminant concentrations establish a significant decreasing trend or all wells are below ADEC CULs for all analytes. Analytical samples should be collected during a period of high groundwater table conditions (Fall 2024). Groundwater samples should be collected from MW1, MW2, MW3 and RW4 and be analyzed for DRO, PAH and VOCs. GRO has never exceeded ADEC CULs in any well during any of the historic sampling events and ARES recommends suspension of analysis for this analyte for future sampling events.

6.0 LIMITATIONS OF INVESTIGATION

This report presents the analytical results from a limited number of groundwater samples and should not be construed as a comprehensive study of subsurface conditions at the site. The samples were intended to evaluate the presence or absence of contaminants at the locations selected. Detectable levels of petroleum hydrocarbons or other substances may be present at different locations. It was also not the intent of our sampling and testing to detect the presence of soil/water affected by contaminants other than those for which laboratory analysis were performed. No conclusions can be drawn on the presence or absence of other contaminants. This is not a geotechnical study.

The data presented in this report should be considered representative of the time of our site observations and sample collection. Changes in site conditions can occur with time because of

natural forces or human activity. ARES reserves the right to modify or alter conclusions and recommendations should additional data become available.

This report was prepared for the exclusive use of Alaska Aerofuel Holdings LLC. and their representatives. If it is made available to others, it should be for information on factual data only and not as a warranty of subsurface conditions.

6.1 Qualifications & Signature of Environmental Professional

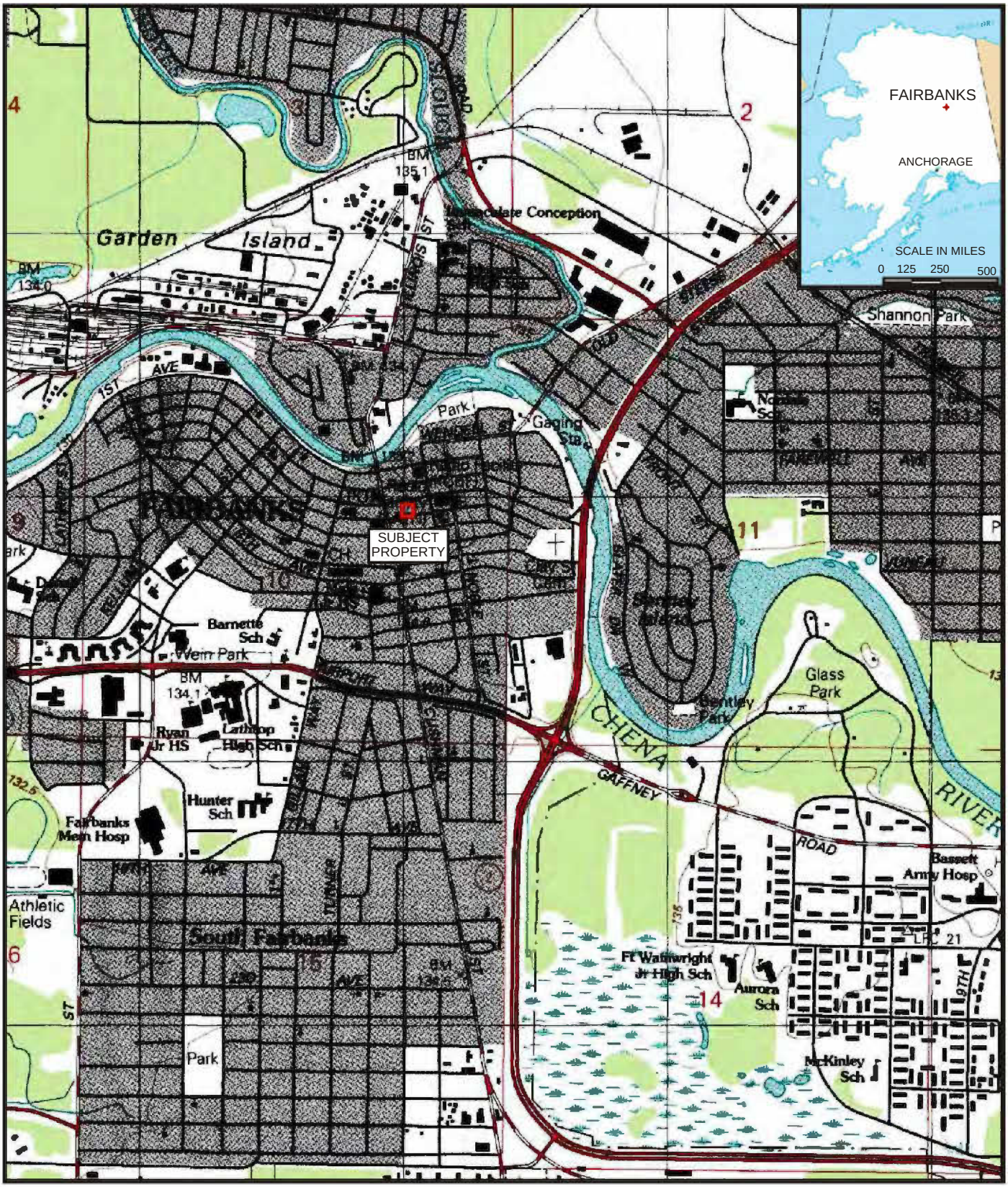
Dustin Stahl is an ADEC 'Qualified Environmental Professional' and has extensive experience as an environmental project manager and has worked on all aspects of environmental assessments, investigations, and clean-up efforts.

Sincerely,

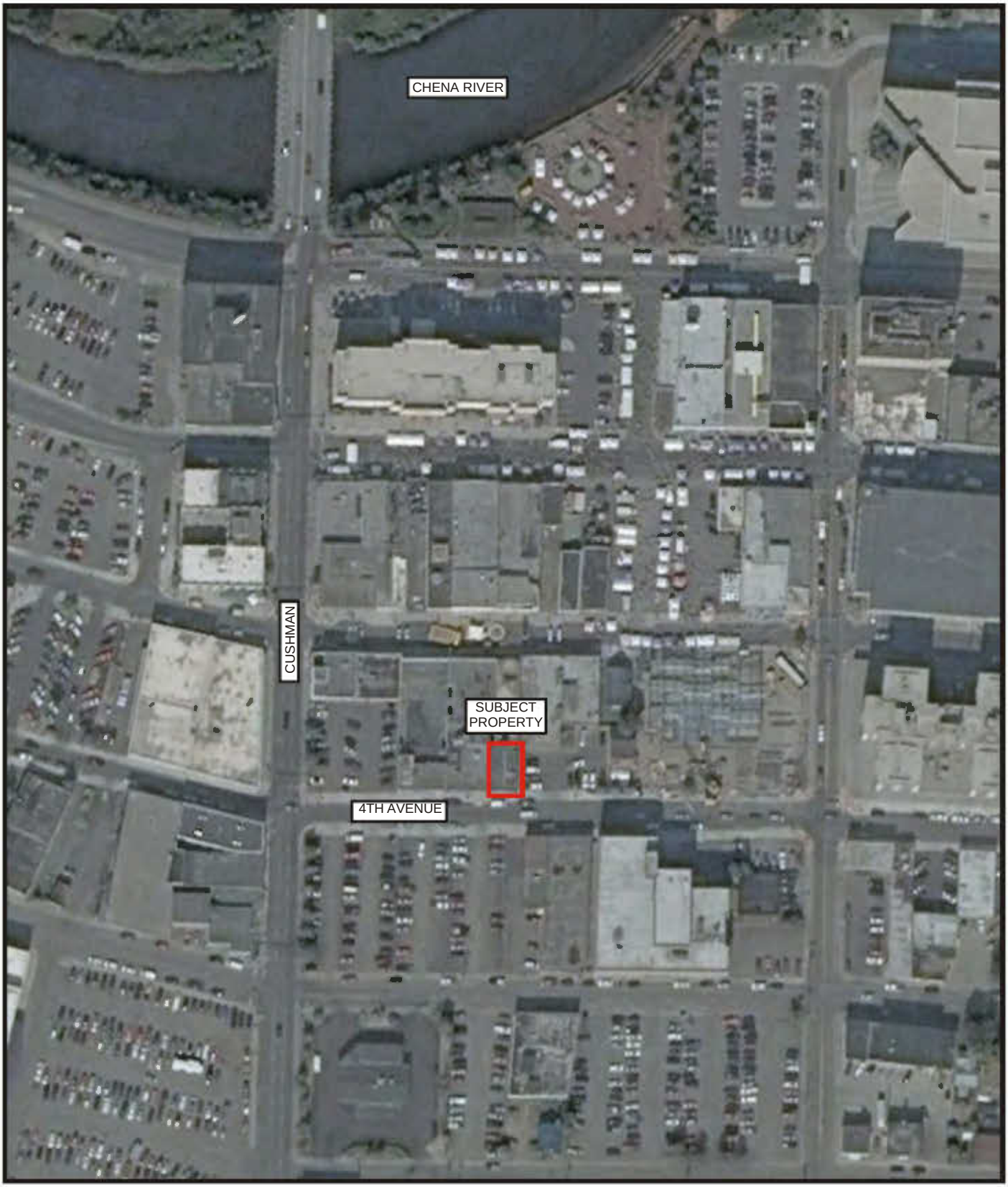
Dustin Stahl
Project Manager/Environmental Specialist
Alaska Resources and Environmental Services LLC

Appendix A:

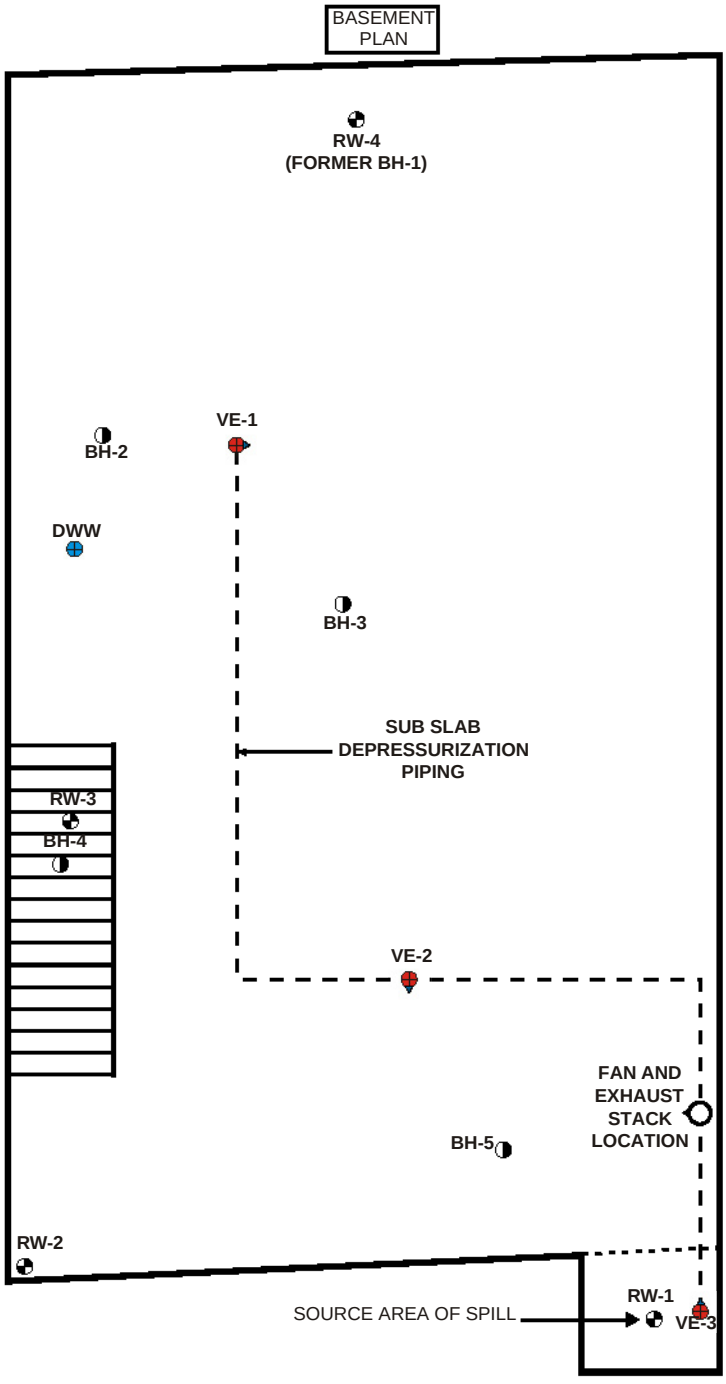
Figures



1992 TOPOGRAPHICAL MAP FAIRBANKS, AK QUAD D-2 SE	DATE: 03/09/16 DRAWN: JDG	SCALE IN MILES: 0 1/4 1/2	**ALASKA RESOURCES AND ENVIRONMENTAL SERVICES, LLC** **PO BOX 83050** **FAIRBANKS, AK 99708** **PH. (907) 374-3226** **FAX (907) 374-3219**	FIGURE 1
	PROJECT: 2023 GROUNDWATER REPORT 536 4TH AVENUE, FAIRBANKS, AK			



AERIAL PHOTOGRAPH JUNE 2007	DATE: 03/09/16	SCALE IN FEET: 0 50 100 150 200	**ALASKA RESOURCES AND ENVIRONMENTAL SERVICES, LLC** **PO BOX 83050** **FAIRBANKS, AK 99708** **PH. (907) 374-3226** **FAX (907) 374-3219**	FIGURE 2
	DRAWN: JDG			
	PROJECT: 2023 GROUNDWATER REPORT 536 4TH AVENUE, FAIRBANKS, AK			



KEY

- PERMANENT VAPOR EXTRACTION / SLAB DEPRESSURIZATION POINT
- SAMPLE PORT FOR VAPOR TESTING
- PREVIOUSLY INSTALLED DRINKING WATER WELL LOCATION
- TEMPORARY BOREHOLE LOCATION FOR SOIL AND GROUNDWATER SAMPLING
- CURRENT / PROPOSED LOCATION FOR RECOVERY WELL

INSTALLED WELL LOCATION MAP

DATE: 03/09/16

DRAWN: JDG

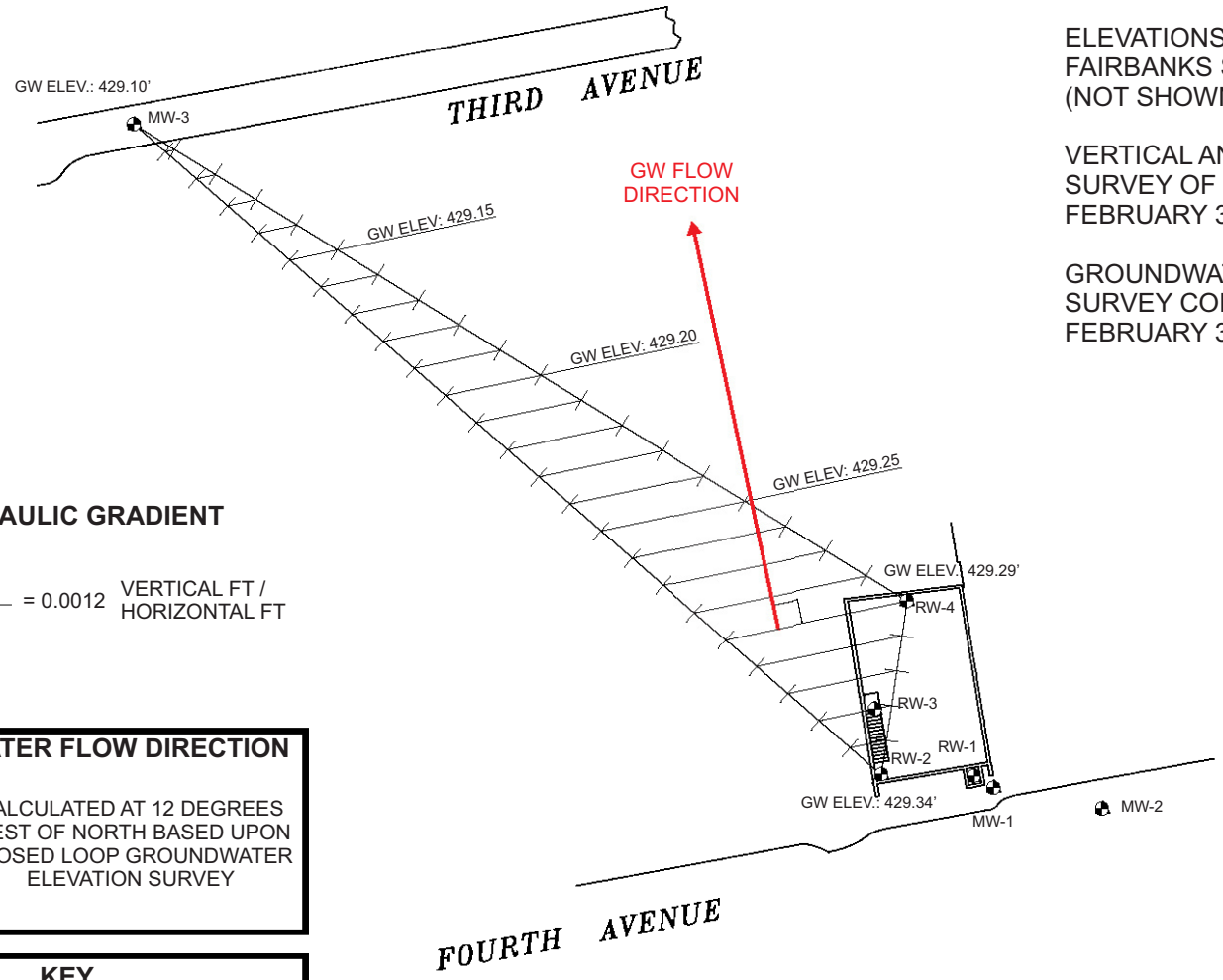
SCALE IN FEET: 0 2 4 6 8 10

PROJECT:
2023 GROUNDWATER REPORT
536 4TH AVENUE, FAIRBANKS, AK

ALASKA RESOURCES AND ENVIRONMENTAL SERVICES, LLC
PO BOX 83050
FAIRBANKS, AK 99708

PH. (907) 374-3226
FAX (907) 374-3219

FIGURE 3



NOTES:

ELEVATIONS RELATIVE TO CITY OF FAIRBANKS SURVEY BENCHMARK (NOT SHOWN).

VERTICAL AND HORIZONTAL SURVEY OF WELLS CONDUCTED FEBRUARY 3, 2017.

GROUNDWATER ELEVATION SURVEY CONDUCTED FEBRUARY 3, 2017.

HYDRAULIC GRADIENT

$$\frac{\triangle H}{\triangle L} = 0.0012$$ VERTICAL FT / HORIZONTAL FT

GROUNDWATER FLOW DIRECTION

CALCULATED AT 12 DEGREES WEST OF NORTH BASED UPON CLOSED LOOP GROUNDWATER ELEVATION SURVEY

KEY

PERMANENT MONITORING WELL LOCATION

Alaska Resources and Environmental Services, LLC
PO BOX 83050 Fairbanks, AK 99708
PH. (907) 374-3226
FAX (907) 374-3219

GROUNDWATER FLOW DIRECTION MAP

N W E S

DATE: 02/17/2017

DRAWN: JDG

PROJECT: 2023 GROUNDWATER MONITORING REPORT
536 4TH AVE, FAIRBANKS, AK

SCALE IN FEET: 0 25 50 75 100

FIGURE 4

Appendix B:

2023 Well Data Sheets

Alaska Resources and Environmental Services

Ground Water Monitoring Well Data Sheet

Site Name: 536 4TH AVE	Well/ Sample ID: MW1 MW1-0923 / MWD-0923
Location: 536 4TH AVE	Initial Depth to Water (DTW): 10.65
Client: ALASKA AEROFUEL	Total Well Depth (TD): 24.0'
Sampler: DUSTIN STAHL	Well Diameter: 2"
Date: 9/26/2023	Purge Method: PERI
Sample Method: PERI / BLADDER	Flow Rate: 0.4 L/min

Time	ph	SC	DO	Temp (°C)	ORP	DTW (feet)	Cumulative Volume	Observations
1318	6.86	0.631	5.01	10.55	40.2	10.66	0.4 L	Pre purge ½ gallon
1321	6.86	0.629	2.25	10.54	36.0	10.66	0.8 L	
1324	6.86	0.628	2.02	10.46	33.6	10.65	1.2 L	
1327	6.87	0.625	2.48	10.46	31.6	10.66	1.6 L	STABLE
1330								

Did Well Dewater?	Start Purge Time:	DTW prior to sample:
Odor: Fuel odor	Stop Purge Time:	Start Sample Time: 1330 / 1430 ← DUP time taken
Color: clear w/ small sheen	Total Purge Volume:	Total Sample Volume:
Water Quality Meter Model:		Serial ID:
Water Level Indicator Model:		Serial ID:

Notes: DUPLICATE COLLECTED - ~~MW1~~ MWD-0923

Alaska Resources and Environmental Services

Ground Water Monitoring Well Data Sheet

Site Name: 536 4th AVE	Well/ Sample ID: MW2-/ MW2-0923
Location: 536 4th AVE	Initial Depth to Water (DTW): 9.94'
Client: ALASKAN AEROFUEL	Total Well Depth (TD): 17.05'
Sampler: DUSTIN SIMHL	Well Diameter: 2"
Date: 9/26/2023	Purge Method: PERI PUMP
Sample Method: PERI (NON VIS) - BLADDER FOR VOCS	Flow Rate: 0.4L/min

Time	ph	SC	DO	Temp (°C)	ORP	DTW (feet)	Cumulative Volume	Observations
12:19	6.73	0.663	0.90	9.84	84.2	9.95'	0.4L	Pre Purge 0.5 gallons
12:22	6.76	0.657	0.83	9.88	81.8	9.95'	0.8L	
12:25	6.80	0.655	0.67	9.93	80.0	9.95	1.2L	
12:28	6.81	0.656	0.64	9.94	78.1	9.95	1.8L	
12:31	6.82	0.656	0.61	9.90	76.6	9.91	2.2L	STABLE

Did Well Dewater? NO	Start Purge Time: 12:00	DTW prior to sample: 9.95
Odor: CLEAR	Stop Purge Time:	Start Sample Time: 12:31
Color: NO ODOR	Total Purge Volume: 2.5 GAL	Total Sample Volume:
Water Quality Meter Model:	Serial ID:	
Water Level Indicator Model:	Serial ID:	

Notes: SAMPLE COLLECTED @ 11' BGS

2.5 gallons purge water in 5 gallon bucket

Alaska Resources and Environmental Services

Ground Water Monitoring Well Data Sheet

Site Name: 536 4th Ave	Well/ Sample ID: MW-3
Location: 536 4th Ave	Initial Depth to Water (DTW): 12.43 to casing
Client: Alaska Heavy Fuel	Total Well Depth (TD): 19.20
Sampler: Richard Ranalf	Well Diameter: 2"
Date: 9/20/2023	Purge Method: Peristaltic
Sample Method: Bladder	Flow Rate: 0.4

Time	ph	SC	DO	Temp (°C)	ORP	DTW (feet)	Cumulative Volume	Observations
1558	7.19	0.934	2.74	12.27	59.9	12.43	1L	
1601	7.15	0.926	3.68	12.30	59.7	12.43	2.2L	
1604	7.16	0.931	3.35	12.29	56.6	12.43	3.4L	Stable

Did Well Dewater? NO	Start Purge Time: 1555	DTW prior to sample: 12.43
Odor: None	Stop Purge Time: 1630	Start Sample Time: 1610
Color: clear	Total Purge Volume: 6.0L	Total Sample Volume:
Water Quality Meter Model:	Serial ID:	
Water Level Indicator Model:	Serial ID:	

Notes: Flush Mount Monitoring Well

Alaska Resources and Environmental Services

Ground Water Monitoring Well Data Sheet

Site Name: 536 4th Ave	Well/ Sample ID: ~~MW~~ RW-4
Location: 536 4th Ave	Initial Depth to Water (DTW): 1.82 to flushmount top
Client: Alaska Aerofuel	Total Well Depth (TD): 2.25
Sampler: Richard Ranft	Well Diameter: 2"
Date: 9/26/23	Purge Method: Peristaltic
Sample Method: Bladder	Flow Rate:

Time	ph ✓	SC	DO	Temp (°C) ✓	ORP ✓	DTW (feet)	Cumulative Volume	Observations
1444	7.13	1.361	4.76	15.17	51.4	1.82	1L	
1447	7.17	1.385	4.19	15.24	43.5	1.82	~~2~~ 2.2L	
1450	7.19	1.392	4.03	15.24	39.9	1.82	3.4L	
1453	7.18	1.400	3.78	15.29	37.6	1.82	4.6L	Stable

Did Well Dewater?	Start Purge Time: 1440	DTW prior to sample: 1.82
Odor: fuel odor	Stop Purge Time: 1515	Start Sample Time: 1455
Color: clear	Total Purge Volume: 6.0L	Total Sample Volume:
Water Quality Meter Model:	Serial ID:	
Water Level Indicator Model:	Serial ID:	

Notes:

Revised 12/16/2015

Appendix C:

2023 Groundwater Analytical Results - Report 1235372

536 4th Ave Analytical 2023 Groundwater Results Summary Table, 1235372

			Sample ID	MW1-0923	MWD-0923	MW2-0923
			Location ID	MW1-0923	MWD-0923	MW2-0923
			Collection Date/Time	09/26/2023 13:30	09/26/2023 14:30	09/26/2023 12:31
			Lab Sample ID	1235372001	1235372005	1235372002
			Matrix	GW	GW	GW
			Description	Field Sample	Duplicate of MW1	Field Sample
Method	**Units**	**Analyte**	**ADEC Cleanup Level**	**Analytical Results [LOD]**	**Analytical Results [LOD]**	**Analytical Results [LOD]**
AK101	ug/L	Gasoline Range Organics	2200	**98.5 [50] J B**	**82.7 [50] J B**	ND [50]
AK102 LV	ug/L	Diesel Range Organics	1500	**891 [196] QN**	**728 [196] QN**	**415 [196] J QN**
SW8260D	ug/L	1,1,1,2-Tetrachloroethane	5.7	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	ug/L	1,1,1-Trichloroethane	8000	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,1,2,2-Tetrachloroethane	0.76	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	ug/L	1,1,2-Trichloroethane	0.41	ND [0.200]	ND [0.200]	ND [0.200]
SW8260D	ug/L	1,1-Dichloroethane	28	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,1-Dichloroethene	280	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,1-Dichloropropene	NS	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,2,3-Trichlorobenzene	7.0	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,2,3-Trichloropropane	0.0075	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,2,4-Trichlorobenzene	4.0	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,2,4-Trimethylbenzene	56	**7.58 [0.500] QN**	**1.69 [0.500] QN**	ND [0.500]
SW8260D	ug/L	1,2-Dibromo-3-chloropropane	NS	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	ug/L	1,2-Dibromoethane	0.075	ND [0.0375]	ND [0.0375]	ND [0.0375]
SW8260D	ug/L	1,2-Dichlorobenzene	300	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,2-Dichloroethane	1.7	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	ug/L	1,2-Dichloropropane	8.2	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,3,5-Trimethylbenzene	60	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,3-Dichlorobenzene	300	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,3-Dichloropropane	NS	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	ug/L	1,4-Dichlorobenzene	4.8	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	ug/L	2,2-Dichloropropane	NS	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	2-Butanone (MEK)	5600	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	ug/L	2-Chlorotoluene	NS	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	2-Hexanone	38	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	ug/L	4-Chlorotoluene	NS	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	4-Isopropyltoluene	NS	**0.500 [0.500] J**	ND [0.500]	ND [0.500]
SW8260D	ug/L	4-Methyl-2-pentanone (MIBK)	6300	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	ug/L	Benzene	4.6	ND [0.200]	ND [0.200]	ND [0.200]
SW8260D	ug/L	Bromobenzene	62	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Bromochloromethane	NS	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Bromodichloromethane	1.3	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	ug/L	Bromoform	33	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Bromomethane	7.5	ND [3.00]	ND [3.00]	ND [3.00]
SW8260D	ug/L	Carbon disulfide	810	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	ug/L	Carbon tetrachloride	4.6	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Chlorobenzene	78	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	ug/L	Chloroethane	21000	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Chloroform	2.2	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Chloromethane	190	**0.330 [0.500] J**	**0.310 [0.500] J**	**0.320 [0.500] J**
SW8260D	ug/L	cis-1,2-Dichloroethene	36	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	cis-1,3-Dichloropropene	NS	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	ug/L	Dibromochloromethane	8.7	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	ug/L	Dibromomethane	8.3	ND [0.500]	ND [0.500]	ND [0.500]

Table Notes and Data Flags are defined at the end of the table
Blue shade indicates ND result has LOD that exceeds ADEC cleanup level
Gray shade indicates ADEC cleanup level exceedance

536 4th Ave Analytical 2023 Groundwater Results Summary Table, 1235372

			Sample ID	MW1-0923	MWD-0923	MW2-0923
			Location ID	MW1-0923	MWD-0923	MW2-0923
			Collection Date/Time	09/26/2023 13:30	09/26/2023 14:30	09/26/2023 12:31
			Lab Sample ID	1235372001	1235372005	1235372002
			Matrix	GW	GW	GW
			Description	Field Sample	Duplicate of MW1	Field Sample
Method	**Units**	**Analyte**	**ADEC Cleanup Level**	**Analytical Results [LOD]**	**Analytical Results [LOD]**	**Analytical Results [LOD]**
SW8260D	ug/L	Dichlorodifluoromethane	200	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Ethylbenzene	15	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Freon-113	10000	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	ug/L	Hexachlorobutadiene	1.4	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Isopropylbenzene (Cumene)	450	**0.660 [0.500] J**	ND [0.500]	ND [0.500]
SW8260D	ug/L	Methyl-t-butyl ether	140	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	ug/L	Methylene chloride	110	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	ug/L	n-Butylbenzene	1000	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	n-Propylbenzene	660	**1.05 [0.500] QN**	ND [0.500]	ND [0.500]
SW8260D	ug/L	Naphthalene	1.7	**1.76 [0.500] QN**	**1.10 [0.500] QN**	ND [0.500]
SW8260D	ug/L	o-Xylene	190	**0.330 [0.500] J QN**	ND [0.500]	ND [0.500]
SW8260D	ug/L	P & M -Xylene	190	ND [1.00]	ND [1.00]	ND [1.00]
SW8260D	ug/L	sec-Butylbenzene	2000	**1.23 [0.500] QN**	**0.340 [0.500] J QN**	ND [0.500]
SW8260D	ug/L	Styrene	1200	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	tert-Butylbenzene	690	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Tetrachloroethene	41	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Toluene	1100	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	trans-1,2-Dichloroethene	360	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	trans-1,3-Dichloropropene	NS	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Trichloroethene	2.8	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	ug/L	Trichlorofluoromethane	5200	**0.530 [0.500] J**	ND [0.500]	ND [0.500]
SW8260D	ug/L	Vinyl acetate	410	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	ug/L	Vinyl chloride	0.19	ND [0.0750]	ND [0.0750]	ND [0.0750]
SW8260D	ug/L	Xylenes (total)	190	ND [1.50]	ND [1.50]	ND [1.50]
8270D SIM LV (PAH)	ug/L	1-Methylnaphthalene	11	ND [0.0245]	ND [0.0240]	ND [0.0245]
8270D SIM LV (PAH)	ug/L	2-Methylnaphthalene	36	ND [0.0245]	ND [0.0240]	**0.0204 [0.0245] J B**
8270D SIM LV (PAH)	ug/L	Acenaphthene	530	ND [0.0245]	ND [0.0240]	ND [0.0245]
8270D SIM LV (PAH)	ug/L	Acenaphthylene	260	ND [0.0245]	ND [0.0240]	ND [0.0245]
8270D SIM LV (PAH)	ug/L	Anthracene	43	ND [0.0245]	ND [0.0240]	ND [0.0245]
8270D SIM LV (PAH)	ug/L	Benzo(a)Anthracene	0.30	ND [0.0245]	ND [0.0240]	ND [0.0245]
8270D SIM LV (PAH)	ug/L	Benzo[a]pyrene	0.25	ND [0.00980]	ND [0.00960]	ND [0.00980]
8270D SIM LV (PAH)	ug/L	Benzo[b]Fluoranthene	2.5	ND [0.0245]	ND [0.0240]	ND [0.0245]
8270D SIM LV (PAH)	ug/L	Benzo[g,h,i]perylene	0.26	ND [0.0245]	ND [0.0240]	ND [0.0245]
8270D SIM LV (PAH)	ug/L	Benzo[k]fluoranthene	0.80	ND [0.0245]	ND [0.0240]	ND [0.0245]
8270D SIM LV (PAH)	ug/L	Chrysene	2.0	ND [0.0245]	ND [0.0240]	ND [0.0245]
8270D SIM LV (PAH)	ug/L	Dibenzo[a,h]anthracene	0.25	ND [0.00980]	ND [0.00960]	ND [0.00980]
8270D SIM LV (PAH)	ug/L	Fluoranthene	260	ND [0.0245]	ND [0.0240]	ND [0.0245]
8270D SIM LV (PAH)	ug/L	Fluorene	290	ND [0.0245]	ND [0.0240]	ND [0.0245]
8270D SIM LV (PAH)	ug/L	Indeno[1,2,3-c,d] pyrene	0.19	ND [0.0245]	ND [0.0240]	ND [0.0245]
8270D SIM LV (PAH)	ug/L	Naphthalene	1.7	ND [0.0490]	ND [0.0481]	ND [0.0490]
8270D SIM LV (PAH)	ug/L	Phenanthrene	170	ND [0.0490]	ND [0.0481]	ND [0.0490]
8270D SIM LV (PAH)	ug/L	Pyrene	120	ND [0.0245]	ND [0.0240]	ND [0.0245]

Table Notes and Data Flags are defined at the end of the table
Blue shade indicates ND result has LOD that exceeds ADEC cleanup level
Gray shade indicates ADEC cleanup level exceedance

536 4th Ave Analytical 2023 Groundwater Results Summary Table, 1235372

			Sample ID	MW3-0923	RW4-0923	Trip Blank
			Location ID	MW3-0923	RW4-0923	Trip Blank
			Collection Date/Time	09/26/2023 16:10	09/26/2023 14:55	09/26/2023 0800
			Lab Sample ID	1235372003	1235372004	1235372006
			Matrix	GW	GW	QC
			Description	Field Sample	Field Sample	Trip Blank
Method	**Units**	**Analyte**	**ADEC Cleanup Level**	**Analytical Results [LOD]**	**Analytical Results [LOD]**	**Analytical Results [LOD]**
AK101	ug/L	Gasoline Range Organics	2200	**48.9 [50] J B**	**65 [50] J B**	**47.1 [50] J B**
AK102 LV	ug/L	Diesel Range Organics	1500	**341 [196] J QN**	**12700 [196] QN**	
SW8260D	ug/L	1,1,1,2-Tetrachloroethane	5.7	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	ug/L	1,1,1-Trichloroethane	8000	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,1,2,2-Tetrachloroethane	0.76	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	ug/L	1,1,2-Trichloroethane	0.41	ND [0.200]	ND [0.200]	ND [0.200]
SW8260D	ug/L	1,1-Dichloroethane	28	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,1-Dichloroethene	280	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,1-Dichloropropene	NS	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,2,3-Trichlorobenzene	7.0	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,2,3-Trichloropropane	0.0075	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,2,4-Trichlorobenzene	4.0	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,2,4-Trimethylbenzene	56	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,2-Dibromo-3-chloropropane	NS	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	ug/L	1,2-Dibromoethane	0.075	ND [0.0375]	ND [0.0375]	ND [0.0375]
SW8260D	ug/L	1,2-Dichlorobenzene	300	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,2-Dichloroethane	1.7	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	ug/L	1,2-Dichloropropane	8.2	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,3,5-Trimethylbenzene	60	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,3-Dichlorobenzene	300	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	1,3-Dichloropropane	NS	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	ug/L	1,4-Dichlorobenzene	4.8	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	ug/L	2,2-Dichloropropane	NS	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	2-Butanone (MEK)	5600	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	ug/L	2-Chlorotoluene	NS	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	2-Hexanone	38	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	ug/L	4-Chlorotoluene	NS	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	4-Isopropyltoluene	NS	ND [0.500]	**0.690 [0.500] J**	ND [0.500]
SW8260D	ug/L	4-Methyl-2-pentanone (MIBK)	6300	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	ug/L	Benzene	4.6	ND [0.200]	ND [0.200]	ND [0.200]
SW8260D	ug/L	Bromobenzene	62	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Bromochloromethane	NS	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Bromodichloromethane	1.3	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	ug/L	Bromoform	33	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Bromomethane	7.5	ND [3.00]	ND [3.00]	ND [3.00]
SW8260D	ug/L	Carbon disulfide	810	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	ug/L	Carbon tetrachloride	4.6	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Chlorobenzene	78	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	ug/L	Chloroethane	21000	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Chloroform	2.2	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Chloromethane	190	**0.370 [0.500] J**	ND [0.500]	ND [0.500]
SW8260D	ug/L	cis-1,2-Dichloroethene	36	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	cis-1,3-Dichloropropene	NS	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	ug/L	Dibromochloromethane	8.7	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	ug/L	Dibromomethane	8.3	ND [0.500]	ND [0.500]	ND [0.500]

Table Notes and Data Flags are defined at the end of the table
Blue shade indicates ND result has LOD that exceeds ADEC cleanup level
Gray shade indicates ADEC cleanup level exceedance

536 4th Ave Analytical 2023 Groundwater Results Summary Table, 1235372

			Sample ID	MW3-0923	RW4-0923	Trip Blank
			Location ID	MW3-0923	RW4-0923	Trip Blank
			Collection Date/Time	09/26/2023 16:10	09/26/2023 14:55	09/26/2023 0800
			Lab Sample ID	1235372003	1235372004	1235372006
			Matrix	GW	GW	QC
			Description	Field Sample	Field Sample	Trip Blank
Method	**Units**	**Analyte**	**ADEC Cleanup Level**	**Analytical Results [LOD]**	**Analytical Results [LOD]**	**Analytical Results [LOD]**
SW8260D	ug/L	Dichlorodifluoromethane	200	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Ethylbenzene	15	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Freon-113	10000	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	ug/L	Hexachlorobutadiene	1.4	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Isopropylbenzene (Cumene)	450	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Methyl-t-butyl ether	140	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	ug/L	Methylene chloride	110	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	ug/L	n-Butylbenzene	1000	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	n-Propylbenzene	660	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Naphthalene	1.7	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	o-Xylene	190	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	P & M -Xylene	190	ND [1.00]	ND [1.00]	ND [1.00]
SW8260D	ug/L	sec-Butylbenzene	2000	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Styrene	1200	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	tert-Butylbenzene	690	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Tetrachloroethene	41	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Toluene	1100	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	trans-1,2-Dichloroethene	360	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	trans-1,3-Dichloropropene	NS	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Trichloroethene	2.8	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	ug/L	Trichlorofluoromethane	5200	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	ug/L	Vinyl acetate	410	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	ug/L	Vinyl chloride	0.19	ND [0.0750]	ND [0.0750]	ND [0.0750]
SW8260D	ug/L	Xylenes (total)	190	ND [1.50]	ND [1.50]	ND [1.50]
8270D SIM LV (PAH)	ug/L	1-Methylnaphthalene	11	ND [0.0236]	ND [0.0236]	
8270D SIM LV (PAH)	ug/L	2-Methylnaphthalene	36	**0.0158 [0.0236] J B**	ND [0.0236]	
8270D SIM LV (PAH)	ug/L	Acenaphthene	530	ND [0.0236]	ND [0.0236]	
8270D SIM LV (PAH)	ug/L	Acenaphthylene	260	ND [0.0236]	ND [0.0236]	
8270D SIM LV (PAH)	ug/L	Anthracene	43	ND [0.0236]	ND [0.0236]	
8270D SIM LV (PAH)	ug/L	Benzo(a)Anthracene	0.30	ND [0.0236]	ND [0.0236]	
8270D SIM LV (PAH)	ug/L	Benzo[a]pyrene	0.25	ND [0.00945]	ND [0.00945]	
8270D SIM LV (PAH)	ug/L	Benzo[b]Fluoranthene	2.5	ND [0.0236]	ND [0.0236]	
8270D SIM LV (PAH)	ug/L	Benzo[g,h,i]perylene	0.26	ND [0.0236]	ND [0.0236]	
8270D SIM LV (PAH)	ug/L	Benzo[k]fluoranthene	0.80	ND [0.0236]	ND [0.0236]	
8270D SIM LV (PAH)	ug/L	Chrysene	2.0	ND [0.0236]	ND [0.0236]	
8270D SIM LV (PAH)	ug/L	Dibenzo[a,h]anthracene	0.25	ND [0.00945]	ND [0.00945]	
8270D SIM LV (PAH)	ug/L	Fluoranthene	260	ND [0.0236]	ND [0.0236]	
8270D SIM LV (PAH)	ug/L	Fluorene	290	ND [0.0236]	ND [0.0236]	
8270D SIM LV (PAH)	ug/L	Indeno[1,2,3-c,d] pyrene	0.19	ND [0.0236]	ND [0.0236]	
8270D SIM LV (PAH)	ug/L	Naphthalene	1.7	ND [0.0471]	ND [0.0471]	
8270D SIM LV (PAH)	ug/L	Phenanthrene	170	ND [0.0471]	ND [0.0471]	
8270D SIM LV (PAH)	ug/L	Pyrene	120	ND [0.0236]	ND [0.0236]	

Table Notes and Data Flags are defined at the end of the table
Blue shade indicates ND result has LOD that exceeds ADEC cleanup level
Gray shade indicates ADEC cleanup level exceedance

536 4th Ave Analytical 2023 Groundwater Results Summary Table, 1235372

Data Flag / Abbreviation	Definition
B	Analyte result is considered a high estimated value due to contamination present in the method, trip, or equipment blank. ND results are not flagged.
D	The reported value is from a dilution.
DL	Detection Limit
H	Analyte result is considered a low estimate due to a hold time exceedance.
J	Analyte result is considered an estimated value because the level is below the laboratory LOQ but above the DL
LL	(Low Level) Analysis with lower reporting limits than standard methanol preservative analysis.
LOD	Limit of Detection
LOQ	Limit of Quantitation (equivalent to Method Reporting Limit)
M	Manual integrated compound.
ND	(Not Detected) Analyte not detected above the Method Detection Limit.
NS	(Not Stipulated) Cleanup level not stipulated by ADEC.
NA	Not Analyzed
QH, QL, QN	Analyte result is considered an estimated value biased (high, low, uncertain) due to a quality control failure.
R	Analyte result is rejected; the result is not usable. Note that "R" replaces the chemical result (no result shall be reported with an "R" flag).
RL	Reporting Limit
*	RPD of the LCS/LCSD Exceeds Control Limits

Notes
ADEC regulatory limits / cleanup levels for groundwater samples from 18 AAC 75.341 Table C. 18 AAC 75.341 Revison Dated February 2023.
Results column consists of the results if the compound is detected above the method detection limit. Otherwise it gives the ND symbol. The number in brackets is the LOD.

Appendix C-1:

MW1: 2016-2023 Historical Analytical Groundwater Summary

MW1/MWD : 2016-2023 Historical Groundwater Data

Method	Analyte	ADEC CULs (µg/L)	MW1-816 (2016)	DUP-816 (2016)	MW1-617 (2017)	DUP-617 (2017)	MW1-718 (2018)	D-718 (2018)	MW1-919 (2019)	MWD-919 (2019)	MW1-0720 (2020)	MWD-0720 (2020)	MW1-0921 (2021)	MWD-0921 (2021)	MW1-0822 (2022)	MWD-0822 (2022)	MW1-0923 (2023)	MWD-0923 (2023)
AK101	Gasoline Range Organics (GRO)	2200	**61.2 J**	**72.0 J**	**312**	**359**	ND [36]	ND [36]	ND [250]	ND [250]	ND [250]	ND [250]	**160 [5.00]**	**136 [50.0]**	ND [50.0]	**58.5 [50.0] J**	**98.5 [50] J**	**82.7 [50] J**
AK102 LV	DRO (nC10-<nC25)	1500	**485 J**	**612 J**	**954**	**864**	**370**	**390**	**1400 [120]**	**1400 [110]**	**750 [110] * QL**	**770 [110] * QL**	**828 [319.0]**	**938 [319.0]**	**516 [334] J QN**	6009 [334] QN	**891 [196] QN**	**728 [196] QN**
8270D SIM LV (PAH)	1-Methylnaphthalene	11	**0.515**	**0.489**	**14.7**	**14.1**	**1.2 B**	**1.5 B**	**0.19 [0.11]**	**0.23 [0.11]**	**0.041 [0.1] J QN**	**0.22 [0.11] QN**	**0.233 [0.0261]**	**0.315 [0.0272]**	ND [0.0261]	ND [0.0255]	ND [0.0245]	ND [0.0240]
8270D SIM LV (PAH)	2-Methylnaphthalene	36	**0.696**	**0.698**	**9.02 QN**	**6.46 QN**	**0.085 J B QN**	**0.12 B QN**	ND [0.22]	ND [0.21]	ND [0.21]	ND [0.22]	**0.0432 [0.0261] J**	**0.0576 [0.0272]**	ND [0.0261]	ND [0.0255]	ND [0.0245]	ND [0.0240]
8270D SIM LV (PAH)	Acenaphthene	530	**0.0308 J Q**	**0.251 J Q**	**0.193**	**0.184**	**0.10 B**	**0.12 B**	**0.055 [0.11] J**	**0.05 [0.11] J**	**0.031 [0.1] J QN**	**0.055 [0.11] J QN**	**0.0302[0.0261] J**	**0.0326 [0.0272] J**	ND [0.0261]	ND [0.0255]	ND [0.0245]	ND [0.0240]
8270D SIM LV (PAH)	Acenaphthylene	260	ND [0.0144]	ND [0.0144]	ND [0.0142]	ND [0.0142]	ND [0.016]	ND [0.016]	ND [0.054]	ND [0.053]	ND [0.052]	ND [0.054]	ND [0.0261]	ND [0.0272]	ND [0.0261]	ND [0.0255]	ND [0.0245]	ND [0.0240]
8270D SIM LV (PAH)	Anthracene	43	ND [0.0144]	ND [0.0144]	ND [0.0142]	ND [0.0142]	ND [0.025]	ND [0.026]	ND [0.11]	ND [0.11]	ND [0.1]	ND [0.11]	ND [0.0261]	ND [0.0272]	ND [0.0261]	ND [0.0255]	ND [0.0245]	ND [0.0240]
8270D SIM LV (PAH)	Benzo[a]anthracene	0.30	ND [0.0144]	ND [0.0144]	ND [0.0142]	ND [0.0142]	ND [0.012]	ND [0.012]	ND [0.054]	ND [0.053]	ND [0.052]	ND [0.054]	ND [0.0261]	ND [0.0272]	ND [0.0261]	ND [0.0255] QN	ND [0.0245]	ND [0.0240]
8270D SIM LV (PAH)	Benzo[a]pyrene	0.25	ND [0.0144]	ND [0.0144]	ND [0.00585]	ND [0.00585]	ND [0.012]	ND [0.012]	ND [0.11]	ND [0.11]	ND [0.1]	ND [0.11]	ND [0.0104]	ND [0.0109]	ND [0.0104]	ND [0.0102] QN	ND [0.00980]	ND [0.00960]
8270D SIM LV (PAH)	Benzo[b]fluoranthene	2.5	ND [0.0144]	ND [0.0144]	ND [0.0142]	ND [0.0142]	ND [0.011]	ND [0.011]	ND [0.054]	ND [0.053]	ND [0.052]	ND [0.054]	ND [0.0261]	ND [0.0272]	ND [0.0261]	ND [0.0255] QN	ND [0.0245]	ND [0.0240]
8270D SIM LV (PAH)	Benzo[g,h,i]perylene	0.26	ND [0.0144]	ND [0.0144]	ND [0.0142]	ND [0.0142]	ND [0.021]	ND [0.021]	ND [0.054]	ND [0.053]	ND [0.052]	ND [0.054]	ND [0.0261]	ND [0.0272]	ND [0.0261]	ND [0.0255] QN	ND [0.0245]	ND [0.0240]
8270D SIM LV (PAH)	Benzo[k]fluoranthene	0.80	ND [0.0144]	ND [0.0144]	ND [0.0142]	ND [0.0142]	ND [0.015]	ND [0.015]	ND [0.054]	ND [0.053]	ND [0.052]	ND [0.054]	ND [0.0261]	ND [0.0272]	ND [0.0261]	ND [0.0255] QN	ND [0.0245]	ND [0.0240]
8270D SIM LV (PAH)	Chrysene	2.0	ND [0.0144]	ND [0.0144]	ND [0.0142]	ND [0.0142]	ND [0.0091]	ND [0.0092]	ND [0.11]	ND [0.11]	ND [0.1]	ND [0.11]	ND [0.0261]	ND [0.0272]	ND [0.0261]	ND [0.0255] QN	ND [0.0245]	ND [0.0240]
8270D SIM LV (PAH)	Dibenz(a,h)anthracene	0.26	ND [0.0144]	ND [0.0144]	ND [0.00585]	ND [0.00585]	ND [0.013]	ND [0.013]	ND [0.11]	ND [0.11]	ND [0.1]	ND [0.11]	ND [0.0104]	ND [0.0109]	ND [0.0104]	ND [0.0102] QN	ND [0.00980]	ND [0.00960]
8270D SIM LV (PAH)	Fluoranthene	260	ND [0.0144]	ND [0.0144]	ND [0.0142]	ND [0.0142]	ND [0.017]	ND [0.017]	ND [0.22]	ND [0.21]	ND [0.21]	ND [0.22]	ND [0.0261]	ND [0.0272]	ND [0.0261]	**0.0159 [0.0255] J QL**	ND [0.0245]	ND [0.0240]
8270D SIM LV (PAH)	Fluorene	290	**0.0735 Q**	**0.0541 Q**	**0.345**	**0.314**	**0.15 B**	**0.17 B**	**0.074 [0.11] J**	**0.071 [0.11] J**	**0.033 [0.1] J QN**	**0.067 [0.11] J QN**	**0.0575 [0.0261]**	**0.0563 [0.0272]**	**0.0189 [0.0255] J**	ND [0.0255]	ND [0.0245]	ND [0.0240]
8270D SIM LV (PAH)	Indeno[1,2,3-cd]pyrene	0.19	ND [0.0144]	ND [0.0144]	ND [0.0142]	ND [0.0142]	ND [0.022]	ND [0.022]	ND [0.054]	ND [0.053]	ND [0.052]	ND [0.054]	ND [0.0261]	ND [0.0272]	ND [0.0261]	ND [0.0255] QN	ND [0.0245]	ND [0.0240]
8270D SIM LV (PAH)	Naphthalene	1.7	**0.259**	**0.268**	**13.5**	**12.7**	**1.6 B**	**1.8 B**	**0.59 [0.11]**	**0.6 [0.11]**	**0.076 [0.1] J QN**	**0.12 [0.11] QN**	**0.261 [0.052]**	**0.285 [0.0545]**	ND [0.0520]	ND [0.0510]	ND [0.0490]	ND [0.0481]
8270D SIM LV (PAH)	Phenanthrene	170	ND [0.0144]	ND [0.0144]	**0.063**	**0.0649**	ND [0.057]	ND [0.057]	ND [0.11]	ND [0.11]	ND [0.1]	ND [0.11]	**0.0357 [0.0261] J B**	**0.0305 [0.0272] J B**	**0.0465 [0.0510] J**	ND [0.0510]	ND [0.0490]	ND [0.0481]
8270D SIM LV (PAH)	Pyrene	120	ND [0.0144]	ND [0.0144]	ND [0.0142]	ND [0.0142]	ND [0.026]	ND [0.027]	ND [0.11]	ND [0.11]	ND [0.1]	ND [0.11]	ND [0.0261]	ND [0.0272]	ND [0.0261]	ND [0.0255] QN	ND [0.0245]	ND [0.0240]
SW8260D	1,1,1,2-Tetrachloroethane	5.7									ND [2]	ND [2]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	1,1,1-Trichloroethane	8000									ND [3]	ND [3]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,1,2,2-Tetrachloroethane	0.76									ND [3]	ND [3]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	1,1,2-Trichloroethane	0.41									ND [1]	ND [1]	ND [0.200]	ND [0.200]	ND [0.200]	ND [0.200]	ND [0.200]	ND [0.200]
SW8260D	1,1-Dichloroethane	28									ND [2]	ND [2]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,1-Dichloroethene	280									ND [4]	ND [4]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,1-Dichloropropene	NS									ND [3]	ND [3]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,2,3-Trichlorobenzene	7.0									ND [5]	ND [5]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,2,3-Trichloropropane	0.0075									ND [2]	ND [2]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,2,4-Trichlorobenzene	4.0									ND [2]	ND [2]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,2,4-Trimethylbenzene	56									**3.6 [3]**	**3.4 [3]**	**5.65 [0.500]**	**6.06 [0.500]**	2.94 [0.500]	**3.71 [0.500]**	**7.58 [0.500] QN**	**1.69 [0.500] QN**
SW8260D	1,2-Dibromo-3-Chloropropane	NS									ND [10]	ND [10]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	1,2-Dibromoethane	0.075									ND [2]	ND [2]	ND [0.0375]	ND [0.0375]	ND [0.0375]	ND [0.0375]	ND [0.0375]	ND [0.0375]
SW8260D	1,2-Dichlorobenzene	300									ND [2]	ND [2]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,2-Dichloroethane	1.7									ND [2]	ND [2]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	1,2-Dichloropropane	8.2									ND [1]	ND [1]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,3,5-Trimethylbenzene	60									ND [3]	ND [3]	ND [0.500]	ND [0.500]	ND [0.500] QN	**0.361 [0.500] J QN**	ND [0.500]	ND [0.500]
SW8260D	1,3-Dichlorobenzene	300									ND [2]	ND [2]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,3-Dichloropropane	NS									ND [2]	ND [2]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	1,4-Dichlorobenzene	4.8									ND [4]	ND [4]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]

MW1/MWD : 2016-2023 Historical Groundwater Data

Method	Analyte	ADEC CULs (µg/L)	MW1-816 (2016)	DUP-816 (2016)	MW1-617 (2017)	DUP-617 (2017)	MW1-718 (2018)	D-718 (2018)	MW1-919 (2019)	MWD-919 (2019)	MW1-0720 (2020)	MWD-0720 (2020)	MW1-0921 (2021)	MWD-0921 (2021)	MW1-0822 (2022)	MWD-0822 (2022)	MW1-0923 (2023)	MWD-0923 (2023)
SW8260D	2,2-Dichloropropane	NS									ND [3]	ND [3]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	2-Butanone	5600									ND [20]	ND [20]	**4.26 [5.00] J**	**3.27 [5.00] J**	ND [5.00] QN	**3.62 [5.00] J QN**	ND [5.00]	ND [5.00]
SW8260D	2-Chlorotoluene	NS									ND [3]	ND [3]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	2-Hexanone	38									ND [20]	ND [20]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	4-Chlorotoluene	NS									ND [2]	ND [2]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	4-Isopropyltoluene	NS									**0.7 [3] J**	**0.7 [3] J**	**1.83 [0.500]**	**1.64 [0.500]**	ND [0.500] QN	**0.354 [0.500] J QN**	**0.500 [0.500] J**	ND [0.500]
SW8260D	4-Methyl-2-pentanone	6300									ND [15]	ND [15]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	Acetone	14000									ND [50]	ND [50]						
SW8260D	Benzene	4.6	ND [0.150]	**0.350 J**	ND [0.150]	ND [0.250]	ND [0.093]	ND [0.093]	ND [3]	ND [3]	ND [3]	ND [3]	ND [0.200]	ND [0.200]	ND [0.200]	ND [0.200]	ND [0.200]	ND [0.200]
SW8260D	Bromobenzene	62									ND [2]	ND [2]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Bromochloromethane	NS									ND [2]	ND [2]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Bromodichloromethane	1.3									ND [2]	ND [2]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	Bromoform	33									ND [3]	ND [3]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Bromomethane	7.5									ND [6]	ND [6]	ND [3.00]	ND [3.00]	ND [3.00]	ND [3.00]	ND [3.00]	ND [3.00]
SW8260D	Carbon disulfide	810									ND [3]	ND [3]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	Carbon tetrachloride	4.6									ND [3]	ND [3]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Chlorobenzene	78									ND [2]	ND [2]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	Chloroethane	21000									ND [5]	ND [5]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Chloroform	2.2									ND [5]	ND [5]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Chloromethane	190									ND [20]	ND [20]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	**0.330 [0.500] J**	**0.310 [0.500] J**
SW8260D	cis-1,2-Dichloroethene	36									ND [3]	ND [3]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	cis-1,3-Dichloropropene	NS									ND [1]	ND [1]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	Dibromochloromethane	8.7									ND [2]	ND [2]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	Dibromomethane	8.3									ND [2]	ND [2]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Dichlorodifluoromethane	200									ND [10]	ND [10]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Ethylbenzene	15	**0.960 J**	**1.04**	**6.71**	**8.08**	**0.32 J**	**0.30 J**	**0.96 [3] J**	**1 [3] J**	ND [3]	ND [3]	**0.373 [0.500] J**	**0.930 [0.500] J**	ND [0.500] QN	**0.336 [0.500] J QN**	ND [0.500]	ND [0.500]
SW8260D	Freon-113	NS											ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	Hexachlorobutadiene	1.4									ND [6]	ND [6]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Isopropylbenzene	450									ND [2]	ND [2]	**0.599 [0.500] J**	**0.640 [0.500] J**	ND [0.500]	**0.380 [0.500] J**	**0.660 [0.500] J**	ND [0.500]
SW8260D	Methyl tert-butyl ether	140									ND [2]	ND [2]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	Methylene Chloride	110									ND [5]	ND [5]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	m-Xylene & p-Xylene	190							**2.2 [3] J**	**1.7 [3] J**	ND [3]	ND [3]	ND [1.00]	ND [1.00]	ND [1.00]	**0.793 [1.00] J**	ND [1.00]	ND [1.00]
SW8260D	Naphthalene	1.7									**1.1 [4] J QN**	ND [4] QN	ND [0.500]	**1.5 [0.500]**	**1.47 [0.500] QN**	**2.22 [0.500] QN**	**1.76 [0.500] QN**	**1.10 [0.500] QN**
SW8260D	n-Butylbenzene	1000									ND [3]	ND [3]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	N-Propylbenzene	660									**0.55 [3] J**	**0.54 [3] J**	**0.818 [0.500] J**	**0.850 [0.500] J**	ND [0.472]	**0.589 [0.500] J**	**1.05 [0.500] QN**	ND [0.500]
SW8260D	o-Xylene	190							**0.41 [2] J QN**	ND [2] QN	ND [2]	ND [2]	ND [0.500]	ND [0.500]	ND [0.500] QN	**0.313 [0.500] J QN**	**0.330 [0.500] J QN**	ND [0.500]
SW8260D	sec-Butylbenzene	2000									**0.57 [3] J**	**0.57 [3] J**	**0.558 [0.500] J**	**0.600 [0.500] J**	**0.548 [0.500] J**	**0.647 [0.500] J**	**1.23 [0.500] QN**	**0.340 [0.500] J QN**
SW8260D	Styrene	1200									ND [5]	ND [5]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	t-Butylbenzene	690									ND [3]	ND [3]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Tetrachloroethene	41									ND [3]	ND [3]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Toluene	1100	**0.790 J**	**0.660 J**	**0.390 J**	**0.470J**	ND [0.31]	ND [0.31]	**2 [2] B QN**	**0.89 [2] J B QN**	ND [2]	ND [2]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	trans-1,2-Dichloroethene	360									ND [3]	ND [3]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	trans-1,3-Dichloropropene	NS									ND [1]	ND [1]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Trichloroethene	2.8									ND [3]	ND [3]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.500]	ND [0.250]	ND [0.250]
SW8260D	Trichlorofluoromethane	5200									ND [3]	ND [3]	**0.496 [0.500] J**	**0.380 [0.500] J**	**1.04 [0.500]**	**1.16 [0.500]**	**0.530 [0.500] J**	ND [0.500]
SW8260D	Vinyl acetate	410											ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	Vinyl chloride	0.19									ND [1]	ND [1]	ND [0.0750]	ND [0.0750]	ND [0.0750]	ND [0.0750]	ND [0.0750]	ND [0.0750]
SW8260D	Xylenes (total)	190	**6.76**	**7.52**	**65.5**	**78.1**	**1.1 J**	**1.2 J**	**2.6 [3] J QN**	**1.7 [3] J QN**			ND [1.50]	ND [1.50]	ND [1.50]	**1.11 [1.50] J**	ND [1.50]	ND [1.50]

Appendix C-2:

MW2: 2016-2023 Historical Analytical Groundwater Summary

MW2: 2016-2023 Historical Analytical Groundwater Summary

Method	Analyte	ADEC CULs (µg/L)	MW2-816 (2016)	MW2-617 (2017)	MW2-718 (2018)	MW2-919 (2019)	MW2-0720 (2020)	MW2-0921 (2021)	MW2-0822 (2022)	MW2-0923 (2023)
AK101	Gasoline Range Organics (GRO)	2200	**39.3 J**	ND [31.0]	ND [36]	ND [250]	ND [250]	ND [50.0]	ND [50.0]	ND [50]
AK102 LV	DRO (nC10-<nC25)	1500	**29.3 J**	**180 J**	ND [91]	**130 [120]**	**230 [110] * B QL**	ND [306.0]	ND [334]	**415 [196] J QN**
8270D SIM LV (PAH)	1-Methylnaphthalene	11			**0.045 J B**	ND [0.11]	ND [0.11]	ND [0.0261]	ND [0.0266]	ND [0.0245]
8270D SIM LV (PAH)	2-Methylnaphthalene	36			**0.076 J B QN**	ND [0.22]	ND [0.21]	ND [0.0261]	ND [0.0266]	**0.0204 [0.0245] J**
8270D SIM LV (PAH)	Acenaphthene	530			ND [0.090]	ND [0.11]	ND [0.11]	ND [0.0261]	ND [0.0266]	ND [0.0245]
8270D SIM LV (PAH)	Acenaphthylene	260			**0.024 J B**	ND [0.054]	ND [0.053]	ND [0.0261]	ND [0.0266]	ND [0.0245]
8270D SIM LV (PAH)	Anthracene	43			ND [0.090]	ND [0.11]	ND [0.11]	ND [0.0261]	ND [0.0266]	ND [0.0245]
8270D SIM LV (PAH)	Benzo[a]anthracene	0.30			**0.15**	ND [0.054]	ND [0.053]	ND [0.0261]	ND [0.0266]	ND [0.0245]
8270D SIM LV (PAH)	Benzo[a]pyrene	0.25			**0.21**	ND [0.11]	ND [0.11]	ND [0.0104]	ND [0.0107]	ND [0.00980]
8270D SIM LV (PAH)	Benzo[b]fluoranthene	2.5			**0.36**	ND [0.054]	ND [0.053]	ND [0.0261]	ND [0.0266]	ND [0.0245]
8270D SIM LV (PAH)	Benzo[g,h,i]perylene	0.26			**0.16**	ND [0.054]	ND [0.053]	ND [0.0261]	ND [0.0266]	ND [0.0245]
8270D SIM LV (PAH)	Benzo[k]fluoranthene	0.80			ND [0.090]	ND [0.054]	ND [0.053]	ND [0.0261]	ND [0.0266]	ND [0.0245]
8270D SIM LV (PAH)	Chrysene	2.0			**0.24**	ND [0.11]	ND [0.11]	ND [0.0261]	ND [0.0266]	ND [0.0245]
8270D SIM LV (PAH)	Dibenz(a,h)anthracene	0.26			**0.053 J**	ND [0.11]	ND [0.11]	ND [0.0104]	ND [0.0107]	ND [0.00980]
8270D SIM LV (PAH)	Fluoranthene	260			**0.16**	ND [0.22]	ND [0.21]	ND [0.0261]	ND [0.0266]	ND [0.0245]
8270D SIM LV (PAH)	Fluorene	290			**0.021 J B**	ND [0.11]	ND [0.11]	ND [0.0261]	ND [0.0266]	ND [0.0245]
8270D SIM LV (PAH)	Indeno[1,2,3-cd]pyrene	0.19			**0.13**	ND [0.054]	ND [0.053]	ND [0.0261]	ND [0.0266]	ND [0.0245]
8270D SIM LV (PAH)	Naphthalene	1.7			**0.078 J B**	ND [0.11]	ND [0.11]	ND [0.0520]	ND [0.0530]	ND [0.0490]
8270D SIM LV (PAH)	Phenanthrene	170			**0.068 J**	ND [0.11]	ND [0.11]	**0.0203 [0.0261] J B**	**0.0361 [0.0266] J**	ND [0.0490]
8270D SIM LV (PAH)	Pyrene	120			**0.21**	ND [0.11]	ND [0.11]	ND [0.0261]	ND [0.0266]	ND [0.0245]
SW8260D	1,1,1,2-Tetrachloroethane	5.7					ND [2]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	1,1,1-Trichloroethane	8000					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,1,2,2-Tetrachloroethane	0.76					ND [3]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	1,1,2-Trichloroethane	0.41					ND [1]	ND [0.200]	ND [0.200]	ND [0.200]
SW8260D	1,1-Dichloroethane	28					ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,1-Dichloroethene	280					ND [4]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,1-Dichloropropene	NS					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,2,3-Trichlorobenzene	7.0					ND [5]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,2,3-Trichloropropane	0.0075					ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,2,4-Trichlorobenzene	4.0					ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,2,4-Trimethylbenzene	56					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,2-Dibromo-3-Chloropropane	NS					ND [10]	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	1,2-Dibromoethane	0.075					ND [2]	ND [0.0375]	ND [0.0375]	ND [0.0375]
SW8260D	1,2-Dichlorobenzene	300					ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,2-Dichloroethane	1.7					ND [2]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	1,2-Dichloropropane	8.2					ND [1]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,3,5-Trimethylbenzene	60					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,3-Dichlorobenzene	300					ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,3-Dichloropropane	NS					ND [2]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	1,4-Dichlorobenzene	4.8					ND [4]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	2,2-Dichloropropane	NS					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	2-Butanone	5600					ND [20]	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	2-Chlorotoluene	NS					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	2-Hexanone	38					ND [20]	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	4-Chlorotoluene	NS					ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	4-Isopropyltoluene	NS					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	4-Methyl-2-pentanone	6300					ND [15]	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	Acetone	14000					ND [50]			

MW2: 2016-2023 Historical Analytical Groundwater Summary

Method	Analyte	ADEC CULs (µg/L)	MW2-816 (2016)	MW2-617 (2017)	MW2-718 (2018)	MW2-919 (2019)	MW2-0720 (2020)	MW2-0921 (2021)	MW2-0822 (2022)	MW2-0923 (2023)
SW8260D	Benzene	4.6	ND [0.150]	ND [0.150]	ND [0.093]	ND [3]	ND [3]	ND [0.200]	ND [0.200]	ND [0.200]
SW8260D	Bromobenzene	62					ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Bromochloromethane	NS					ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Bromodichloromethane	1.3					ND [2]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	Bromoform	33					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Bromomethane	7.5					ND [6]	ND [3.00]	ND [3.00]	ND [3.00]
SW8260D	Carbon disulfide	810					ND [3]	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	Carbon tetrachloride	4.6					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Chlorobenzene	78					ND [2]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	Chloroethane	21000					ND [5]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Chloroform	2.2					ND [5]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Chloromethane	190					ND [20]	ND [0.500]	ND [0.500]	**0.320 [0.500] J**
SW8260D	cis-1,2-Dichloroethene	36					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	cis-1,3-Dichloropropene	NS					ND [1]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	Dibromochloromethane	8.7					ND [2]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	Dibromomethane	8.3					ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Dichlorodifluoromethane	200					ND [10]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Ethylbenzene	15	ND [0.310]	ND [0.310]	ND [0.20]	ND [3]	ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Freon-113	NS						ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	Hexachlorobutadiene	1.4					ND [6]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Isopropylbenzene	450					ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Methyl tert-butyl ether	140					ND [2]	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	Methylene Chloride	110					ND [5]	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	m-Xylene & p-Xylene	190				**2.4 [3] J**	ND [3]	ND [1.00]	ND [1.00]	ND [1.00]
SW8260D	Naphthalene	1.7					ND [4]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	n-Butylbenzene	1000					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	N-Propylbenzene	660					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	o-Xylene	190				**0.59 [2] J**	ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	sec-Butylbenzene	2000					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Styrene	1200					ND [5]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	t-Butylbenzene	690					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Tetrachloroethene	41					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Toluene	1100	ND [0.310]	ND [0.310]	ND [0.31]	**2.1 [2] B**	ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	trans-1,2-Dichloroethene	360					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	trans-1,3-Dichloropropene	NS					ND [1]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Trichloroethene	2.8					ND [3]	ND [0.500]	ND [0.500]	ND [0.250]
SW8260D	Trichlorofluoromethane	5200					ND [3]	**1.05 [0.500]**	**2.22 [0.500]**	ND [0.500]
SW8260D	Vinyl acetate	410						ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	Vinyl chloride	0.19					ND [1]	ND [0.0750]	ND [0.0750]	ND [0.0750]
SW8260D	Xylenes (total)	190	ND [0.930]	ND [0.930]	ND [0.44]	**3 [3]**		ND [1.50]	ND [1.50]	ND [1.50]

Appendix C-3:

MW3: 2016-2023 Historical Analytical Groundwater Summary

MW3: 2016-2023 Historical Analytcial Groundwater Summary

Method	Analyte	ADEC CULs (µg/L)	MW3-816 (2016)	MW3-617 (2017)	MW3-718 (2018)	MW3-919 (2019)	MW3-0720 (2020)	MW3-0921 (2021)	MW3-0822 (2022)	MW3-0923 (2023)
AK101	Gasoline Range Organics (GRO)	2200	38.3 J	ND [31.0]	ND [36]	ND [250]	ND [250]	ND [50.0]	ND [50.0]	**48.9 [50] J**
AK102 LV	DRO (nC10-<nC25)	1500	29.0 J	ND [170]	ND [92]	**140 [120]**	**130 [120] * B QL**	ND [306.0]	ND [334]	**341 [196] J QN**
8260C	Benzene	4.6	ND [0.150]	ND [0.150]	ND [0.093]	ND [3]	ND [3]	ND [0.200]	ND [0.200]	ND [0.200]
8260C	Ethylbenzene	15	ND [0.310]	ND [0.310]	ND [0.20]	ND [3]	ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
8260C	m-Xylene & p-Xylene	190				ND [3]	ND [3]	ND [1.00]	ND [1.00]	ND [1.00]
8260C	o-Xylene	190				ND [2]	ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
8260C	Toluene	1100	ND [0.310]	ND [0.310]	ND [0.31]	**0.99 [2] J B**	ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
8260C	Xylenes, Total	190	ND [0.930]	ND [0.930]	ND [0.44]	ND [3]		ND [1.50]	ND [1.50]	ND [1.50]
8270D SIM LV (PAH)	1-Methylnaphthalene	11				ND [0.11]	ND [0.11]	ND [0.0255]	**0.0259 [0.0272] J**	ND [0.0236]
8270D SIM LV (PAH)	2-Methylnaphthalene	36				ND [0.22]	ND [0.21]	ND [0.0255]	**0.0367 [0.0272] J**	**0.0158 [0.0236] J**
8270D SIM LV (PAH)	Acenaphthene	530				ND [2.7]	ND [0.11]	ND [0.0255]	ND [0.0272]	ND [0.0236]
8270D SIM LV (PAH)	Acenaphthylene	260				ND [0.055]	ND [0.053]	ND [0.0255]	ND [0.0272]	ND [0.0236]
8270D SIM LV (PAH)	Anthracene	43				ND [0.11]	ND [0.11]	ND [0.0255]	ND [0.0272]	ND [0.0236]
8270D SIM LV (PAH)	Benzo[a]anthracene	0.30				ND [0.055]	ND [0.053]	ND [0.0255]	ND [0.0272]	ND [0.0236]
8270D SIM LV (PAH)	Benzo[a]pyrene	0.25				ND [0.11]	ND [0.11]	ND [0.0102]	ND [0.0109]	ND [0.00945]
8270D SIM LV (PAH)	Benzo[b]fluoranthene	2.5				ND [0.055]	ND [0.053]	ND [0.0255]	ND [0.0272]	ND [0.0236]
8270D SIM LV (PAH)	Benzo[g,h,i]perylene	0.26				ND [0.055]	ND [0.053]	ND [0.0255]	ND [0.0272]	ND [0.0236]
8270D SIM LV (PAH)	Benzo[k]fluoranthene	0.80				ND [0.055]	ND [0.053]	ND [0.0255]	ND [0.0272]	ND [0.0236]
8270D SIM LV (PAH)	Chrysene	2.0				ND [0.11]	ND [0.11]	ND [0.0255]	ND [0.0272]	ND [0.0236]
8270D SIM LV (PAH)	Dibenz(a,h)anthracene	0.26				ND [0.11]	ND [0.11]	ND [0.0102]	ND [0.0109]	ND [0.00945]
8270D SIM LV (PAH)	Fluoranthene	260				ND [0.22]	ND [0.21]	ND [0.0255]	ND [0.0272]	ND [0.0236]
8270D SIM LV (PAH)	Fluorene	290				ND [0.11]	ND [0.11]	ND [0.0255]	ND [0.0272]	ND [0.0236]
8270D SIM LV (PAH)	Indeno[1,2,3-cd]pyrene	0.19				ND [0.055]	ND [0.053]	ND [0.0255]	ND [0.0272]	ND [0.0236]
8270D SIM LV (PAH)	Naphthalene	1.7				ND [0.11]	ND [0.11]	ND [0.0510]	ND [0.0545]	ND [0.0471]
8270D SIM LV (PAH)	Phenanthrene	170				ND [0.11]	ND [0.11]	**0.0230 [0.0255] J B**	**0.0351 [0.0272] J**	ND [0.0471]
8270D SIM LV (PAH)	Pyrene	120				ND [0.11]	ND [0.11]	ND [0.0255]	ND [0.0272]	ND [0.0236]

Appendix C-4:

RW4: 2016-2023 Historical Analytical Groundwater Summary

Method	Analyte	ADEC CULs (µg/L)	RW4-0116 (2016)	RW4-617 (2017)	RW4-618 (2018)	RW4-919 (2019)	RW4-0720 (2020)	RW4-0921 (2021)	RW4-0822 (2022)	RW4-0923 (2023)
AK101	Gasoline Range Organics (GRO)	2200	0.000078 J	76.7 J	ND [36]	ND [250]	ND [250]	ND [50.0]	ND [50.0]	**65 [50] J**
AK102 LV	DRO (nC10-<nC25)	1500	**0.000349 J**	**1510**	**950**	**4300 [130]**	**4700 [110] * B QL**	**1660 [306.0]**	**2020 [334]**	**12700 [196] QN**
8270D SIM LV (PAH)	1-Methylnaphthalene	11			**0.081 J B**	ND [0.11] QN	**0.4 [0.11]**	ND [0.0255]	**0.0354 [0.0250] J**	ND [0.0236]
8270D SIM LV (PAH)	2-Methylnaphthalene	36			**0.10 B QN**	ND [0.22] QN	**0.13 [0.22] J**	**0.0184 [0.0255] J**	**0.0464 [0.0250] J**	ND [0.0236]
8270D SIM LV (PAH)	Acenaphthene	530			**0.048 J B**	ND [2.7] QN	ND [0.11]	ND [0.0255]	ND [0.0250]	ND [0.0236]
8270D SIM LV (PAH)	Acenaphthylene	260			**0.023 J**	ND [1.4] QN	ND [0.054]	ND [0.0255]	ND [0.0250]	ND [0.0236]
8270D SIM LV (PAH)	Anthracene	43			ND [0.090]	ND [0.11] QN	ND [0.11]	ND [0.0255]	ND [0.0250]	ND [0.0236]
8270D SIM LV (PAH)	Benzo[a]anthracene	0.30			ND [0.090]	ND [0.054] QN	ND [0.054]	ND [0.0255]	ND [0.0250]	ND [0.0236]
8270D SIM LV (PAH)	Benzo[a]pyrene	0.25			ND [0.090]	ND [0.11] QN	ND [0.11]	ND [0.0102]	ND [0.0100]	ND [0.00945]
8270D SIM LV (PAH)	Benzo[b]fluoranthene	2.5			**0.013 J**	ND [0.054] QN	ND [0.054]	ND [0.0255]	ND [0.0250]	ND [0.0236]
8270D SIM LV (PAH)	Benzo[g,h,i]perylene	0.26			ND [0.090]	ND [0.054] QN	ND [0.054]	ND [0.0255]	ND [0.0250]	ND [0.0236]
8270D SIM LV (PAH)	Benzo[k]fluoranthene	0.80			ND [0.090]	ND [0.054] QN	ND [0.054]	ND [0.0255]	ND [0.0250]	ND [0.0236]
8270D SIM LV (PAH)	Chrysene	2.0			**0.011 J**	ND [0.11] QN	ND [0.11]	ND [0.0255]	ND [0.0250]	ND [0.0236]
8270D SIM LV (PAH)	Dibenz(a,h)anthracene	0.26			ND [0.090]	ND [0.11] QN	ND [0.11]	ND [0.0102]	ND [0.0100]	ND [0.00945]
8270D SIM LV (PAH)	Fluoranthene	260			**0.020 J**	ND [0.22] QN	ND [0.22]	ND [0.0255]	ND [0.0250]	ND [0.0236]
8270D SIM LV (PAH)	Fluorene	290			**0.031 J B**	ND [2.7] QN	ND [0.11]	ND [0.0255]	ND [0.0250]	ND [0.0236]
8270D SIM LV (PAH)	Indeno[1,2,3-cd]pyrene	0.19			ND [0.090]	ND [0.054] QN	ND [0.054]	ND [0.0255]	ND [0.0250]	ND [0.0236]
8270D SIM LV (PAH)	Naphthalene	1.7			**0.56 B**	ND [0.11] QN	**0.11 [0.11]**	ND [0.0510]	**0.0399 [0.0500] J**	ND [0.0471]
8270D SIM LV (PAH)	Phenanthrene	170			**0.074 J**	ND [0.11] QN	ND [0.11]	**ND [0.0255]**	**0.0688 [0.0500] J**	ND [0.0471]
8270D SIM LV (PAH)	Pyrene	120			ND [0.090]	ND [0.11] QN	ND [0.11]	ND [0.0255]	ND [0.0250]	ND [0.0236]
SW8260D	1,1,1,2-Tetrachloroethane	5.7					ND [2]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	1,1,1-Trichloroethane	8000					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,1,2,2-Tetrachloroethane	0.76					ND [3]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	1,1,2-Trichloroethane	0.41					ND [1]	ND [0.200]	ND [0.200]	ND [0.200]
SW8260D	1,1-Dichloroethane	28					ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,1-Dichloroethene	280					ND [4]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,1-Dichloropropene	NS					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,2,3-Trichlorobenzene	7.0					ND [5]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,2,3-Trichloropropane	0.0075					ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,2,4-Trichlorobenzene	4.0					ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,2,4-Trimethylbenzene	56					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,2-Dibromo-3-Chloropropane	NS					ND [10]	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	1,2-Dibromoethane	0.075					ND [2]	ND [0.0375]	ND [0.0375]	ND [0.0375]
SW8260D	1,2-Dichlorobenzene	300					ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,2-Dichloroethane	1.7					ND [2]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	1,2-Dichloropropane	8.2					ND [1]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,3,5-Trimethylbenzene	60					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,3-Dichlorobenzene	300					ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	1,3-Dichloropropane	NS					ND [2]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	1,4-Dichlorobenzene	4.8					ND [4]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	2,2-Dichloropropane	NS					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	2-Butanone	5600					ND [20]	ND [5.00]	**4.13 [5.00] J**	ND [5.00]
SW8260D	2-Chlorotoluene	NS					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	2-Hexanone	38					ND [20]	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	4-Chlorotoluene	NS					ND [2]	ND [0.500]	ND [0.500]	ND [0.500]

Method	Analyte	ADEC CULs (µg/L)	RW4-0116 (2016)	RW4-617 (2017)	RW4-618 (2018)	RW4-919 (2019)	RW4-0720 (2020)	RW4-0921 (2021)	RW4-0822 (2022)	RW4-0923 (2023)
SW8260D	4-Isopropyltoluene	NS					ND [3]	ND [0.500]	**7.61 [0.500]**	**0.690 [0.500] J**
SW8260D	4-Methyl-2-pentanone	6300					ND [15]	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	Acetone	14000					ND [50]			
SW8260D	Benzene	4.6	ND [0.120]	ND [0.150]	ND [0.093]	ND [3]	ND [3]	ND [0.200]	ND [0.200]	ND [0.200]
SW8260D	Bromobenzene	62					ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Bromochloromethane	NS					ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Bromodichloromethane	1.3					ND [2]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	Bromoform	33					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Bromomethane	7.5					ND [6]	ND [3.00]	ND [3.00]	ND [3.00]
SW8260D	Carbon disulfide	810					ND [3]	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	Carbon tetrachloride	4.6					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Chlorobenzene	78					ND [2]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	Chloroethane	21000					ND [5]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Chloroform	2.2					ND [5]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Chloromethane	190					ND [20]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	cis-1,2-Dichloroethene	36					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	cis-1,3-Dichloropropene	NS					ND [1]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	Dibromochloromethane	8.7					ND [2]	ND [0.250]	ND [0.250]	ND [0.250]
SW8260D	Dibromomethane	8.3					ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Dichlorodifluoromethane	200					ND [10]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Ethylbenzene	15	**0.760 J**	ND [0.310]	ND [0.20]	ND [3]	ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Freon-113	NS						ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	Hexachlorobutadiene	1.4					ND [6]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Isopropylbenzene	450					ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Methyl tert-butyl ether	140					ND [2]	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	Methylene Chloride	110					ND [5]	ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	m-Xylene & p-Xylene	190				ND [3]	ND [3]	ND [1.00]	ND [1.00]	ND [1.00]
SW8260D	Naphthalene	1.7					ND [4]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	n-Butylbenzene	1000					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	N-Propylbenzene	660					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	o-Xylene	190				ND [2]	ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	sec-Butylbenzene	2000					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Styrene	1200					ND [5]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	t-Butylbenzene	690					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Tetrachloroethene	41					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Toluene	1100	**0.380 J**	ND [0.310]	ND [0.31]	**0.53 [2] J B**	ND [2]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	trans-1,2-Dichloroethene	360					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	trans-1,3-Dichloropropene	NS					ND [1]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Trichloroethene	2.8					ND [3]	ND [0.500]	ND [0.500]	ND [0.250]
SW8260D	Trichlorofluoromethane	5200					ND [3]	ND [0.500]	ND [0.500]	ND [0.500]
SW8260D	Vinyl acetate	410						ND [5.00]	ND [5.00]	ND [5.00]
SW8260D	Vinyl chloride	0.19					ND [1]	ND [0.0750]	ND [0.0750]	ND [0.0750]
SW8260D	Xylenes (total)	190	**5.56**	**3.11**	**0.66 J**	ND [3]		ND [1.50]	ND [1.50]	ND [1.50]

Appendix D:

2023 Laboratory Report 1235372 and ADEC Lab Checklist

Laboratory Report of Analysis

To: Alaska Resources and Env. Svcs
P.O. Box 83050
Fairbanks, AK 99708

Report Number: **1235372**

Client Project: **17M-195 536 4th Ave**

Dear Lyle Gresehover,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Jennifer at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

_____

Jennifer Dawkins Date
Project Manager
Jennifer.Dawkins@sgs.com

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Case Narrative

SGS Client: **Alaska Resources and Env. Svcs**
SGS Project: **1235372**
Project Name/Site: **17M-195 536 4th Ave**
Project Contact: **Lyle Gresehover**

Refer to sample receipt form for information on sample condition.

MW1-0923 (1235372001) PS

AK103 - LCS recoveries for DRO and n-triacontane do not meet QC criteria. Sample was re-extracted outside of hold-time and results confirmed. In-hold data is reported.

MW2-0923 (1235372002) PS

AK103 - LCS recoveries for DRO and n-triacontane do not meet QC criteria. Sample was re-extracted outside of hold-time and results confirmed. In-hold data is reported.

MW3-0923 (1235372003) PS

AK103 - LCS recoveries for DRO and n-triacontane do not meet QC criteria. Sample was re-extracted outside of hold-time and results confirmed. In-hold data is reported.

RW4-0923 (1235372004) PS

AK103 - LCS recoveries for DRO and n-triacontane do not meet QC criteria. Sample was re-extracted outside of hold-time and results confirmed. In-hold data is reported.

MWD-0923 (1235372005) PS

AK103 - LCS recoveries for DRO and n-triacontane do not meet QC criteria. Sample was re-extracted outside of hold-time and results confirmed. In-hold data is reported.

MB for HBN 1865484 [VXX/40557] (1739005) MB

AK101 - GRO was detected above one-half the LOQ but below the LOQ in the MB. All associated DOD sample concentrations are less than the LOQ.

LCS for HBN 1865509 [XXX/48792 (1739079) LCS

AK103 - Surrogate recovery for n-triacontane does not meet QC criteria.
AK102 - LCS recovery for DRO does not meet QC criteria.

LCSD for HBN 1865509 [XXX/4879 (1739080) LCSD

AK102/103 - LCS/LCSD RPD's for DRO/RRO do not meet QC criteria.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

Report of Manual Integrations

Laboratory ID	Client Sample ID	Analytical Batch	Analyte	Reason
SW8260D				
1235372001	MW1-0923	VMS22873	4-Isopropyltoluene	SP

Manual Integration Reason Code Descriptions

Code	Description
O	Original Chromatogram
M	Modified Chromatogram
SS	Skimmed surrogate
BLG	Closed baseline gap
RP	Reassign peak name
PIR	Pattern integration required
IT	Included tail
SP	Split peak
RSP	Removed split peak
FPS	Forced peak start/stop
BLC	Baseline correction
PNF	Peak not found by software

All DRO/RRO analysis are integrated per SOP.

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Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
TNTC	Too Numerous To Count
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
MW1-0923	1235372001	09/26/2023	09/28/2023	Water (Surface, Eff., Ground)
MW2-0923	1235372002	09/26/2023	09/28/2023	Water (Surface, Eff., Ground)
MW3-0923	1235372003	09/26/2023	09/28/2023	Water (Surface, Eff., Ground)
RW4-0923	1235372004	09/26/2023	09/28/2023	Water (Surface, Eff., Ground)
MWD-0923	1235372005	09/26/2023	09/28/2023	Water (Surface, Eff., Ground)
Trip Blank	1235372006	09/26/2023	09/28/2023	Water (Surface, Eff., Ground)

Method	Method Description
8270D SIM LV (PAH)	8270 PAH SIM GC/MS LV
AK102	DRO Low Volume (W)
AK101	Gasoline Range Organics (W)
SW8260D	Volatile Organic Compounds (W) FULL

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Detectable Results Summary

Client Sample ID: **MW1-0923**
Lab Sample ID: 1235372001

Semivolatile Organic Fuels
Volatile Fuels
Volatile GC/MS

Parameter	Result	Units
Diesel Range Organics	0.891	mg/L
Gasoline Range Organics	0.0985J	mg/L
1,2,4-Trimethylbenzene	7.58	ug/L
4-Isopropyltoluene	0.500J	ug/L
Chloromethane	0.330J	ug/L
Isopropylbenzene (Cumene)	0.660J	ug/L
Naphthalene	1.76	ug/L
n-Propylbenzene	1.05	ug/L
o-Xylene	0.330J	ug/L
sec-Butylbenzene	1.23	ug/L
Trichlorofluoromethane	0.530J	ug/L

Client Sample ID: **MW2-0923**
Lab Sample ID: 1235372002

Polynuclear Aromatics GC/MS
Semivolatile Organic Fuels
Volatile GC/MS

Parameter	Result	Units
2-Methylnaphthalene	0.0204J	ug/L
Diesel Range Organics	0.415J	mg/L
Chloromethane	0.320J	ug/L

Client Sample ID: **MW3-0923**
Lab Sample ID: 1235372003

Polynuclear Aromatics GC/MS
Semivolatile Organic Fuels
Volatile Fuels
Volatile GC/MS

Parameter	Result	Units
2-Methylnaphthalene	0.0158J	ug/L
Diesel Range Organics	0.341J	mg/L
Gasoline Range Organics	0.0489J	mg/L
Chloromethane	0.370J	ug/L

Client Sample ID: **RW4-0923**
Lab Sample ID: 1235372004

Semivolatile Organic Fuels
Volatile Fuels
Volatile GC/MS

Parameter	Result	Units
Diesel Range Organics	12.7	mg/L
Gasoline Range Organics	0.0650J	mg/L
4-Isopropyltoluene	0.690J	ug/L

Client Sample ID: **MWD-0923**
Lab Sample ID: 1235372005

Semivolatile Organic Fuels
Volatile Fuels
Volatile GC/MS

Parameter	Result	Units
Diesel Range Organics	0.728	mg/L
Gasoline Range Organics	0.0827J	mg/L
1,2,4-Trimethylbenzene	1.69	ug/L
Chloromethane	0.310J	ug/L
Naphthalene	1.10	ug/L
sec-Butylbenzene	0.340J	ug/L

Client Sample ID: **Trip Blank**
Lab Sample ID: 1235372006

Volatile Fuels

Parameter	Result	Units
Gasoline Range Organics	0.0471J	mg/L

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Results of **MW1-0923**

Client Sample ID: **MW1-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372001
Lab Project ID: 1235372

Collection Date: 09/26/23 13:30
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:26
2-Methylnaphthalene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:26
Acenaphthene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:26
Acenaphthylene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:26
Anthracene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:26
Benzo(a)Anthracene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:26
Benzo[a]pyrene	0.00980	U	0.0196	0.00608	0.00980	ug/L	1		10/16/23 19:26
Benzo[b]Fluoranthene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:26
Benzo[g,h,i]perylene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:26
Benzo[k]fluoranthene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:26
Chrysene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:26
Dibenzo[a,h]anthracene	0.00980	U	0.0196	0.00608	0.00980	ug/L	1		10/16/23 19:26
Fluoranthene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:26
Fluorene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:26
Indeno[1,2,3-c,d] pyrene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:26
Naphthalene	0.0490	U	0.0980	0.0304	0.0490	ug/L	1		10/16/23 19:26
Phenanthrene	0.0490	U	0.0980	0.0304	0.0490	ug/L	1		10/16/23 19:26
Pyrene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:26
Surrogates									
2-Methylnaphthalene-d10 (surr)	46.6		38-100			%	1		10/16/23 19:26
Fluoranthene-d10 (surr)	57.7		30-111			%	1		10/16/23 19:26

Batch Information

Analytical Batch: XMS13993
Analytical Method: 8270D SIM LV (PAH)
Analyst: HMW
Analytical Date/Time: 10/16/23 19:26
Container ID: 1235372001-A

Prep Batch: XXX48754
Prep Method: SW3535A
Prep Date/Time: 10/03/23 11:00
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Print Date: 10/24/2023 11:16:10AM

J flagging is activated

Results of **MW1-0923**

Client Sample ID: **MW1-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372001
Lab Project ID: 1235372

Collection Date: 09/26/23 13:30
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.891		0.588	0.196	0.294	mg/L	1		10/10/23 17:05
Surrogates									
5a Androstane (surr)	83.7		50-150			%	1		10/10/23 17:05

Batch Information

Analytical Batch: XFC16698
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 10/10/23 17:05
Container ID: 1235372001-C

Prep Batch: XXX48792
Prep Method: SW3520C
Prep Date/Time: 10/06/23 16:40
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

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Results of **MW1-0923**

Client Sample ID: **MW1-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372001
Lab Project ID: 1235372

Collection Date: 09/26/23 13:30
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0985	J	0.100	0.0450	0.0500	mg/L	1		10/06/23 02:31
Surrogates									
4-Bromofluorobenzene (surr)	104		50-150			%	1		10/06/23 02:31

Batch Information

Analytical Batch: VFC16636
Analytical Method: AK101
Analyst: CWD
Analytical Date/Time: 10/06/23 02:31
Container ID: 1235372001-E

Prep Batch: VXX40556
Prep Method: SW5030B
Prep Date/Time: 10/05/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **MW1-0923**

Client Sample ID: **MW1-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372001
Lab Project ID: 1235372

Collection Date: 09/26/23 13:30
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:25
1,1,1-Trichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:25
1,1,2-Trichloroethane	0.200	U	0.400	0.120	0.200	ug/L	1		10/06/23 21:25
1,1-Dichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
1,1-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
1,1-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
1,2,3-Trichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
1,2,4-Trimethylbenzene	7.58		1.00	0.310	0.500	ug/L	1		10/06/23 21:25
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:25
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	0.0375	ug/L	1		10/06/23 21:25
1,2-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
1,2-Dichloroethane	0.250	U	0.500	0.200	0.250	ug/L	1		10/06/23 21:25
1,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
1,3-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
1,3-Dichloropropane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:25
1,4-Dichlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:25
2,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
2-Butanone (MEK)	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:25
2-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
2-Hexanone	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:25
4-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
4-Isopropyltoluene	0.500	J	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:25
Benzene	0.200	U	0.400	0.120	0.200	ug/L	1		10/06/23 21:25
Bromobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
Bromochloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
Bromodichloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:25
Bromoform	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
Bromomethane	3.00	U	6.00	3.00	3.00	ug/L	1		10/06/23 21:25
Carbon disulfide	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:25
Carbon tetrachloride	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
Chlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:25
Chloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25

Results of **MW1-0923**

Client Sample ID: **MW1-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372001
Lab Project ID: 1235372

Collection Date: 09/26/23 13:30
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
Chloromethane	0.330	J	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:25
Dibromochloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:25
Dibromomethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
Dichlorodifluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
Ethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
Freon-113	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:25
Hexachlorobutadiene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
Isopropylbenzene (Cumene)	0.660	J	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
Methylene chloride	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:25
Methyl-t-butyl ether	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:25
Naphthalene	1.76		1.00	0.310	0.500	ug/L	1		10/06/23 21:25
n-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
n-Propylbenzene	1.05		1.00	0.310	0.500	ug/L	1		10/06/23 21:25
o-Xylene	0.330	J	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
P & M -Xylene	1.00	U	2.00	0.620	1.00	ug/L	1		10/06/23 21:25
sec-Butylbenzene	1.23		1.00	0.310	0.500	ug/L	1		10/06/23 21:25
Styrene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
tert-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
Tetrachloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
Toluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
Trichloroethene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:25
Trichlorofluoromethane	0.530	J	1.00	0.310	0.500	ug/L	1		10/06/23 21:25
Vinyl acetate	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:25
Vinyl chloride	0.0750	U	0.150	0.0500	0.0750	ug/L	1		10/06/23 21:25
Xylenes (total)	1.50	U	3.00	1.00	1.50	ug/L	1		10/06/23 21:25
Surrogates									
1,2-Dichloroethane-D4 (surr)	102		81-118			%	1		10/06/23 21:25
4-Bromofluorobenzene (surr)	104		85-114			%	1		10/06/23 21:25
Toluene-d8 (surr)	98.3		89-112			%	1		10/06/23 21:25

Print Date: 10/24/2023 11:16:10AM

J flagging is activated

Results of **MW1-0923**

Client Sample ID: **MW1-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372001
Lab Project ID: 1235372

Collection Date: 09/26/23 13:30
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS22873
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 10/06/23 21:25
Container ID: 1235372001-H

Prep Batch: VXX40599
Prep Method: SW5030B
Prep Date/Time: 10/06/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **MW2-0923**

Client Sample ID: **MW2-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372002
Lab Project ID: 1235372

Collection Date: 09/26/23 12:31
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:42
2-Methylnaphthalene	0.0204	J	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:42
Acenaphthene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:42
Acenaphthylene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:42
Anthracene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:42
Benzo(a)Anthracene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:42
Benzo[a]pyrene	0.00980	U	0.0196	0.00608	0.00980	ug/L	1		10/16/23 19:42
Benzo[b]Fluoranthene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:42
Benzo[g,h,i]perylene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:42
Benzo[k]fluoranthene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:42
Chrysene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:42
Dibenzo[a,h]anthracene	0.00980	U	0.0196	0.00608	0.00980	ug/L	1		10/16/23 19:42
Fluoranthene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:42
Fluorene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:42
Indeno[1,2,3-c,d] pyrene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:42
Naphthalene	0.0490	U	0.0980	0.0304	0.0490	ug/L	1		10/16/23 19:42
Phenanthrene	0.0490	U	0.0980	0.0304	0.0490	ug/L	1		10/16/23 19:42
Pyrene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		10/16/23 19:42
Surrogates									
2-Methylnaphthalene-d10 (surr)	59.4		38-100			%	1		10/16/23 19:42
Fluoranthene-d10 (surr)	71.6		30-111			%	1		10/16/23 19:42

Batch Information

Analytical Batch: XMS13993
Analytical Method: 8270D SIM LV (PAH)
Analyst: HMW
Analytical Date/Time: 10/16/23 19:42
Container ID: 1235372002-A

Prep Batch: XXX48754
Prep Method: SW3535A
Prep Date/Time: 10/03/23 11:00
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Results of **MW2-0923**

Client Sample ID: **MW2-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372002
Lab Project ID: 1235372

Collection Date: 09/26/23 12:31
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.415	J	0.600	0.200	0.300	mg/L	1		10/10/23 17:17
Surrogates									
5a Androstane (surr)	89.7		50-150			%	1		10/10/23 17:17

Batch Information

Analytical Batch: XFC16698
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 10/10/23 17:17
Container ID: 1235372002-C

Prep Batch: XXX48792
Prep Method: SW3520C
Prep Date/Time: 10/06/23 16:40
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Results of **MW2-0923**

Client Sample ID: **MW2-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372002
Lab Project ID: 1235372

Collection Date: 09/26/23 12:31
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0450	0.0500	mg/L	1		10/06/23 04:31
Surrogates									
4-Bromofluorobenzene (surr)	89		50-150			%	1		10/06/23 04:31

Batch Information

Analytical Batch: VFC16634
Analytical Method: AK101
Analyst: CWD
Analytical Date/Time: 10/06/23 04:31
Container ID: 1235372002-E

Prep Batch: VXX40555
Prep Method: SW5030B
Prep Date/Time: 10/05/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Results of **MW2-0923**

Client Sample ID: **MW2-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372002
Lab Project ID: 1235372

Collection Date: 09/26/23 12:31
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:40
1,1,1-Trichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:40
1,1,2-Trichloroethane	0.200	U	0.400	0.120	0.200	ug/L	1		10/06/23 21:40
1,1-Dichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
1,1-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
1,1-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
1,2,3-Trichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:40
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	0.0375	ug/L	1		10/06/23 21:40
1,2-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
1,2-Dichloroethane	0.250	U	0.500	0.200	0.250	ug/L	1		10/06/23 21:40
1,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
1,3-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
1,3-Dichloropropane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:40
1,4-Dichlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:40
2,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
2-Butanone (MEK)	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:40
2-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
2-Hexanone	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:40
4-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
4-Isopropyltoluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:40
Benzene	0.200	U	0.400	0.120	0.200	ug/L	1		10/06/23 21:40
Bromobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
Bromochloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
Bromodichloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:40
Bromoform	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
Bromomethane	3.00	U	6.00	3.00	3.00	ug/L	1		10/06/23 21:40
Carbon disulfide	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:40
Carbon tetrachloride	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
Chlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:40
Chloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40

Results of **MW2-0923**

Client Sample ID: **MW2-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372002
Lab Project ID: 1235372

Collection Date: 09/26/23 12:31
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
Chloromethane	0.320	J	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:40
Dibromochloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:40
Dibromomethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
Dichlorodifluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
Ethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
Freon-113	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:40
Hexachlorobutadiene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
Methylene chloride	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:40
Methyl-t-butyl ether	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:40
Naphthalene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
n-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
n-Propylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
o-Xylene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
P & M -Xylene	1.00	U	2.00	0.620	1.00	ug/L	1		10/06/23 21:40
sec-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
Styrene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
tert-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
Tetrachloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
Toluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
Trichloroethene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:40
Trichlorofluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:40
Vinyl acetate	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:40
Vinyl chloride	0.0750	U	0.150	0.0500	0.0750	ug/L	1		10/06/23 21:40
Xylenes (total)	1.50	U	3.00	1.00	1.50	ug/L	1		10/06/23 21:40
Surrogates									
1,2-Dichloroethane-D4 (surr)	102		81-118			%	1		10/06/23 21:40
4-Bromofluorobenzene (surr)	106		85-114			%	1		10/06/23 21:40
Toluene-d8 (surr)	102		89-112			%	1		10/06/23 21:40

Print Date: 10/24/2023 11:16:10AM

J flagging is activated

Results of **MW2-0923**

Client Sample ID: **MW2-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372002
Lab Project ID: 1235372

Collection Date: 09/26/23 12:31
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS22873
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 10/06/23 21:40
Container ID: 1235372002-H

Prep Batch: VXX40599
Prep Method: SW5030B
Prep Date/Time: 10/06/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **MW3-0923**

Client Sample ID: **MW3-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372003
Lab Project ID: 1235372

Collection Date: 09/26/23 16:10
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 19:58
2-Methylnaphthalene	0.0158	J	0.0472	0.0142	0.0236	ug/L	1		10/16/23 19:58
Acenaphthene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 19:58
Acenaphthylene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 19:58
Anthracene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 19:58
Benzo(a)Anthracene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 19:58
Benzo[a]pyrene	0.00945	U	0.0189	0.00585	0.00945	ug/L	1		10/16/23 19:58
Benzo[b]Fluoranthene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 19:58
Benzo[g,h,i]perylene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 19:58
Benzo[k]fluoranthene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 19:58
Chrysene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 19:58
Dibenzo[a,h]anthracene	0.00945	U	0.0189	0.00585	0.00945	ug/L	1		10/16/23 19:58
Fluoranthene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 19:58
Fluorene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 19:58
Indeno[1,2,3-c,d] pyrene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 19:58
Naphthalene	0.0471	U	0.0943	0.0292	0.0471	ug/L	1		10/16/23 19:58
Phenanthrene	0.0471	U	0.0943	0.0292	0.0471	ug/L	1		10/16/23 19:58
Pyrene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 19:58
Surrogates									
2-Methylnaphthalene-d10 (surr)	60.5		38-100			%	1		10/16/23 19:58
Fluoranthene-d10 (surr)	69.5		30-111			%	1		10/16/23 19:58

Batch Information

Analytical Batch: XMS13993
Analytical Method: 8270D SIM LV (PAH)
Analyst: HMW
Analytical Date/Time: 10/16/23 19:58
Container ID: 1235372003-A

Prep Batch: XXX48754
Prep Method: SW3535A
Prep Date/Time: 10/03/23 11:00
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Print Date: 10/24/2023 11:16:10AM

J flagging is activated

Results of **MW3-0923**

Client Sample ID: **MW3-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372003
Lab Project ID: 1235372

Collection Date: 09/26/23 16:10
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.341	J	0.545	0.182	0.273	mg/L	1		10/10/23 17:30
Surrogates									
5a Androstane (surr)	79.1		50-150			%	1		10/10/23 17:30

Batch Information

Analytical Batch: XFC16698
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 10/10/23 17:30
Container ID: 1235372003-C

Prep Batch: XXX48792
Prep Method: SW3520C
Prep Date/Time: 10/06/23 16:40
Prep Initial Wt./Vol.: 275 mL
Prep Extract Vol: 1 mL

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Results of **MW3-0923**

Client Sample ID: **MW3-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372003
Lab Project ID: 1235372

Collection Date: 09/26/23 16:10
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0489	J	0.100	0.0450	0.0500	mg/L	1		10/06/23 03:47
Surrogates									
4-Bromofluorobenzene (surr)	96.6		50-150			%	1		10/06/23 03:47

Batch Information

Analytical Batch: VFC16636
Analytical Method: AK101
Analyst: CWD
Analytical Date/Time: 10/06/23 03:47
Container ID: 1235372003-E

Prep Batch: VXX40556
Prep Method: SW5030B
Prep Date/Time: 10/05/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **MW3-0923**

Client Sample ID: **MW3-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372003
Lab Project ID: 1235372

Collection Date: 09/26/23 16:10
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:55
1,1,1-Trichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:55
1,1,2-Trichloroethane	0.200	U	0.400	0.120	0.200	ug/L	1		10/06/23 21:55
1,1-Dichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
1,1-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
1,1-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
1,2,3-Trichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:55
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	0.0375	ug/L	1		10/06/23 21:55
1,2-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
1,2-Dichloroethane	0.250	U	0.500	0.200	0.250	ug/L	1		10/06/23 21:55
1,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
1,3-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
1,3-Dichloropropane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:55
1,4-Dichlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:55
2,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
2-Butanone (MEK)	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:55
2-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
2-Hexanone	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:55
4-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
4-Isopropyltoluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:55
Benzene	0.200	U	0.400	0.120	0.200	ug/L	1		10/06/23 21:55
Bromobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
Bromochloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
Bromodichloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:55
Bromoform	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
Bromomethane	3.00	U	6.00	3.00	3.00	ug/L	1		10/06/23 21:55
Carbon disulfide	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:55
Carbon tetrachloride	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
Chlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:55
Chloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55

Results of **MW3-0923**

Client Sample ID: **MW3-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372003
Lab Project ID: 1235372

Collection Date: 09/26/23 16:10
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
Chloromethane	0.370	J	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:55
Dibromochloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:55
Dibromomethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
Dichlorodifluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
Ethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
Freon-113	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:55
Hexachlorobutadiene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
Methylene chloride	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:55
Methyl-t-butyl ether	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:55
Naphthalene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
n-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
n-Propylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
o-Xylene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
P & M -Xylene	1.00	U	2.00	0.620	1.00	ug/L	1		10/06/23 21:55
sec-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
Styrene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
tert-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
Tetrachloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
Toluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
Trichloroethene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 21:55
Trichlorofluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 21:55
Vinyl acetate	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 21:55
Vinyl chloride	0.0750	U	0.150	0.0500	0.0750	ug/L	1		10/06/23 21:55
Xylenes (total)	1.50	U	3.00	1.00	1.50	ug/L	1		10/06/23 21:55
Surrogates									
1,2-Dichloroethane-D4 (surr)	102		81-118			%	1		10/06/23 21:55
4-Bromofluorobenzene (surr)	101		85-114			%	1		10/06/23 21:55
Toluene-d8 (surr)	101		89-112			%	1		10/06/23 21:55

Results of **MW3-0923**

Client Sample ID: **MW3-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372003
Lab Project ID: 1235372

Collection Date: 09/26/23 16:10
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS22873
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 10/06/23 21:55
Container ID: 1235372003-H

Prep Batch: VXX40599
Prep Method: SW5030B
Prep Date/Time: 10/06/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **RW4-0923**

Client Sample ID: **RW4-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372004
Lab Project ID: 1235372

Collection Date: 09/26/23 14:55
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 20:14
2-Methylnaphthalene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 20:14
Acenaphthene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 20:14
Acenaphthylene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 20:14
Anthracene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 20:14
Benzo(a)Anthracene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 20:14
Benzo[a]pyrene	0.00945	U	0.0189	0.00585	0.00945	ug/L	1		10/16/23 20:14
Benzo[b]Fluoranthene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 20:14
Benzo[g,h,i]perylene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 20:14
Benzo[k]fluoranthene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 20:14
Chrysene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 20:14
Dibenzo[a,h]anthracene	0.00945	U	0.0189	0.00585	0.00945	ug/L	1		10/16/23 20:14
Fluoranthene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 20:14
Fluorene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 20:14
Indeno[1,2,3-c,d] pyrene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 20:14
Naphthalene	0.0471	U	0.0943	0.0292	0.0471	ug/L	1		10/16/23 20:14
Phenanthrene	0.0471	U	0.0943	0.0292	0.0471	ug/L	1		10/16/23 20:14
Pyrene	0.0236	U	0.0472	0.0142	0.0236	ug/L	1		10/16/23 20:14
Surrogates									
2-Methylnaphthalene-d10 (surr)	48.6		38-100			%	1		10/16/23 20:14
Fluoranthene-d10 (surr)	68.3		30-111			%	1		10/16/23 20:14

Batch Information

Analytical Batch: XMS13993
Analytical Method: 8270D SIM LV (PAH)
Analyst: HMW
Analytical Date/Time: 10/16/23 20:14
Container ID: 1235372004-A

Prep Batch: XXX48754
Prep Method: SW3535A
Prep Date/Time: 10/03/23 11:00
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Print Date: 10/24/2023 11:16:10AM

J flagging is activated

Results of **RW4-0923**

Client Sample ID: **RW4-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372004
Lab Project ID: 1235372

Collection Date: 09/26/23 14:55
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	12.7		0.556	0.185	0.278	mg/L	1		10/10/23 17:42
Surrogates									
5a Androstane (surr)	92.3		50-150			%	1		10/10/23 17:42

Batch Information

Analytical Batch: XFC16698
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 10/10/23 17:42
Container ID: 1235372004-C

Prep Batch: XXX48792
Prep Method: SW3520C
Prep Date/Time: 10/06/23 16:40
Prep Initial Wt./Vol.: 270 mL
Prep Extract Vol: 1 mL

Print Date: 10/24/2023 11:16:10AM

J flagging is activated

Results of **RW4-0923**

Client Sample ID: **RW4-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372004
Lab Project ID: 1235372

Collection Date: 09/26/23 14:55
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0650	J	0.100	0.0450	0.0500	mg/L	1		10/06/23 04:05
Surrogates									
4-Bromofluorobenzene (surr)	95.5		50-150			%	1		10/06/23 04:05

Batch Information

Analytical Batch: VFC16636
Analytical Method: AK101
Analyst: CWD
Analytical Date/Time: 10/06/23 04:05
Container ID: 1235372004-E

Prep Batch: VXX40556
Prep Method: SW5030B
Prep Date/Time: 10/05/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **RW4-0923**

Client Sample ID: **RW4-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372004
Lab Project ID: 1235372

Collection Date: 09/26/23 14:55
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 22:10
1,1,1-Trichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 22:10
1,1,2-Trichloroethane	0.200	U	0.400	0.120	0.200	ug/L	1		10/06/23 22:10
1,1-Dichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
1,1-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
1,1-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
1,2,3-Trichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 22:10
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	0.0375	ug/L	1		10/06/23 22:10
1,2-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
1,2-Dichloroethane	0.250	U	0.500	0.200	0.250	ug/L	1		10/06/23 22:10
1,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
1,3-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
1,3-Dichloropropane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 22:10
1,4-Dichlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 22:10
2,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
2-Butanone (MEK)	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 22:10
2-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
2-Hexanone	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 22:10
4-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
4-Isopropyltoluene	0.690	J	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 22:10
Benzene	0.200	U	0.400	0.120	0.200	ug/L	1		10/06/23 22:10
Bromobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
Bromochloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
Bromodichloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 22:10
Bromoform	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
Bromomethane	3.00	U	6.00	3.00	3.00	ug/L	1		10/06/23 22:10
Carbon disulfide	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 22:10
Carbon tetrachloride	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
Chlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 22:10
Chloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10

Results of **RW4-0923**

Client Sample ID: **RW4-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372004
Lab Project ID: 1235372

Collection Date: 09/26/23 14:55
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
Chloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 22:10
Dibromochloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 22:10
Dibromomethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
Dichlorodifluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
Ethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
Freon-113	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 22:10
Hexachlorobutadiene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
Methylene chloride	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 22:10
Methyl-t-butyl ether	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 22:10
Naphthalene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
n-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
n-Propylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
o-Xylene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
P & M -Xylene	1.00	U	2.00	0.620	1.00	ug/L	1		10/06/23 22:10
sec-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
Styrene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
tert-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
Tetrachloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
Toluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
Trichloroethene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 22:10
Trichlorofluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:10
Vinyl acetate	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 22:10
Vinyl chloride	0.0750	U	0.150	0.0500	0.0750	ug/L	1		10/06/23 22:10
Xylenes (total)	1.50	U	3.00	1.00	1.50	ug/L	1		10/06/23 22:10
Surrogates									
1,2-Dichloroethane-D4 (surr)	101		81-118			%	1		10/06/23 22:10
4-Bromofluorobenzene (surr)	101		85-114			%	1		10/06/23 22:10
Toluene-d8 (surr)	99.9		89-112			%	1		10/06/23 22:10

Print Date: 10/24/2023 11:16:10AM

J flagging is activated

Results of **RW4-0923**

Client Sample ID: **RW4-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372004
Lab Project ID: 1235372

Collection Date: 09/26/23 14:55
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS22873
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 10/06/23 22:10
Container ID: 1235372004-H

Prep Batch: VXX40599
Prep Method: SW5030B
Prep Date/Time: 10/06/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **MWD-0923**

Client Sample ID: **MWD-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372005
Lab Project ID: 1235372

Collection Date: 09/26/23 14:30
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		10/16/23 20:30
2-Methylnaphthalene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		10/16/23 20:30
Acenaphthene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		10/16/23 20:30
Acenaphthylene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		10/16/23 20:30
Anthracene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		10/16/23 20:30
Benzo(a)Anthracene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		10/16/23 20:30
Benzo[a]pyrene	0.00960	U	0.0192	0.00596	0.00960	ug/L	1		10/16/23 20:30
Benzo[b]Fluoranthene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		10/16/23 20:30
Benzo[g,h,i]perylene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		10/16/23 20:30
Benzo[k]fluoranthene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		10/16/23 20:30
Chrysene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		10/16/23 20:30
Dibenzo[a,h]anthracene	0.00960	U	0.0192	0.00596	0.00960	ug/L	1		10/16/23 20:30
Fluoranthene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		10/16/23 20:30
Fluorene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		10/16/23 20:30
Indeno[1,2,3-c,d] pyrene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		10/16/23 20:30
Naphthalene	0.0481	U	0.0962	0.0298	0.0481	ug/L	1		10/16/23 20:30
Phenanthrene	0.0481	U	0.0962	0.0298	0.0481	ug/L	1		10/16/23 20:30
Pyrene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		10/16/23 20:30
Surrogates									
2-Methylnaphthalene-d10 (surr)	50.6		38-100			%	1		10/16/23 20:30
Fluoranthene-d10 (surr)	62.9		30-111			%	1		10/16/23 20:30

Batch Information

Analytical Batch: XMS13993
Analytical Method: 8270D SIM LV (PAH)
Analyst: HMW
Analytical Date/Time: 10/16/23 20:30
Container ID: 1235372005-A

Prep Batch: XXX48754
Prep Method: SW3535A
Prep Date/Time: 10/03/23 11:00
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 10/24/2023 11:16:10AM

J flagging is activated

Results of **MWD-0923**

Client Sample ID: **MWD-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372005
Lab Project ID: 1235372

Collection Date: 09/26/23 14:30
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.728		0.577	0.192	0.288	mg/L	1		10/10/23 17:55
Surrogates									
5a Androstane (surr)	79.7		50-150			%	1		10/10/23 17:55

Batch Information

Analytical Batch: XFC16698
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 10/10/23 17:55
Container ID: 1235372005-C

Prep Batch: XXX48792
Prep Method: SW3520C
Prep Date/Time: 10/06/23 16:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Results of **MWD-0923**

Client Sample ID: **MWD-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372005
Lab Project ID: 1235372

Collection Date: 09/26/23 14:30
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0827	J	0.100	0.0450	0.0500	mg/L	1		10/06/23 04:24
Surrogates									
4-Bromofluorobenzene (surr)	102		50-150			%	1		10/06/23 04:24

Batch Information

Analytical Batch: VFC16636
Analytical Method: AK101
Analyst: CWD
Analytical Date/Time: 10/06/23 04:24
Container ID: 1235372005-E

Prep Batch: VXX40556
Prep Method: SW5030B
Prep Date/Time: 10/05/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/24/2023 11:16:10AM

J flagging is activated

Results of **MWD-0923**

Client Sample ID: **MWD-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372005
Lab Project ID: 1235372

Collection Date: 09/26/23 14:30
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 22:25
1,1,1-Trichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 22:25
1,1,2-Trichloroethane	0.200	U	0.400	0.120	0.200	ug/L	1		10/06/23 22:25
1,1-Dichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
1,1-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
1,1-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
1,2,3-Trichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
1,2,4-Trimethylbenzene	1.69		1.00	0.310	0.500	ug/L	1		10/06/23 22:25
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 22:25
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	0.0375	ug/L	1		10/06/23 22:25
1,2-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
1,2-Dichloroethane	0.250	U	0.500	0.200	0.250	ug/L	1		10/06/23 22:25
1,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
1,3-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
1,3-Dichloropropane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 22:25
1,4-Dichlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 22:25
2,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
2-Butanone (MEK)	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 22:25
2-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
2-Hexanone	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 22:25
4-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
4-Isopropyltoluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 22:25
Benzene	0.200	U	0.400	0.120	0.200	ug/L	1		10/06/23 22:25
Bromobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
Bromochloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
Bromodichloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 22:25
Bromoform	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
Bromomethane	3.00	U	6.00	3.00	3.00	ug/L	1		10/06/23 22:25
Carbon disulfide	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 22:25
Carbon tetrachloride	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
Chlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 22:25
Chloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25

Results of **MWD-0923**

Client Sample ID: **MWD-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372005
Lab Project ID: 1235372

Collection Date: 09/26/23 14:30
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
Chloromethane	0.310	J	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 22:25
Dibromochloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 22:25
Dibromomethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
Dichlorodifluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
Ethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
Freon-113	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 22:25
Hexachlorobutadiene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
Methylene chloride	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 22:25
Methyl-t-butyl ether	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 22:25
Naphthalene	1.10		1.00	0.310	0.500	ug/L	1		10/06/23 22:25
n-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
n-Propylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
o-Xylene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
P & M -Xylene	1.00	U	2.00	0.620	1.00	ug/L	1		10/06/23 22:25
sec-Butylbenzene	0.340	J	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
Styrene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
tert-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
Tetrachloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
Toluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
Trichloroethene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 22:25
Trichlorofluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 22:25
Vinyl acetate	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 22:25
Vinyl chloride	0.0750	U	0.150	0.0500	0.0750	ug/L	1		10/06/23 22:25
Xylenes (total)	1.50	U	3.00	1.00	1.50	ug/L	1		10/06/23 22:25
Surrogates									
1,2-Dichloroethane-D4 (surr)	103		81-118			%	1		10/06/23 22:25
4-Bromofluorobenzene (surr)	96.6		85-114			%	1		10/06/23 22:25
Toluene-d8 (surr)	101		89-112			%	1		10/06/23 22:25

Print Date: 10/24/2023 11:16:10AM

J flagging is activated

Results of **MWD-0923**

Client Sample ID: **MWD-0923**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372005
Lab Project ID: 1235372

Collection Date: 09/26/23 14:30
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS22873
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 10/06/23 22:25
Container ID: 1235372005-H

Prep Batch: VXX40599
Prep Method: SW5030B
Prep Date/Time: 10/06/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372006
Lab Project ID: 1235372

Collection Date: 09/26/23 08:00
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0471	J	0.100	0.0450	0.0500	mg/L	1		10/06/23 09:06
Surrogates									
4-Bromofluorobenzene (surr)	94.2		50-150			%	1		10/06/23 09:06

Batch Information

Analytical Batch: VFC16636
Analytical Method: AK101
Analyst: CWD
Analytical Date/Time: 10/06/23 09:06
Container ID: 1235372006-A

Prep Batch: VXX40557
Prep Method: SW5030B
Prep Date/Time: 10/06/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372006
Lab Project ID: 1235372

Collection Date: 09/26/23 08:00
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 19:08
1,1,1-Trichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 19:08
1,1,2-Trichloroethane	0.200	U	0.400	0.120	0.200	ug/L	1		10/06/23 19:08
1,1-Dichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
1,1-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
1,1-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
1,2,3-Trichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 19:08
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	0.0375	ug/L	1		10/06/23 19:08
1,2-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
1,2-Dichloroethane	0.250	U	0.500	0.200	0.250	ug/L	1		10/06/23 19:08
1,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
1,3-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
1,3-Dichloropropane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 19:08
1,4-Dichlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 19:08
2,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
2-Butanone (MEK)	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 19:08
2-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
2-Hexanone	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 19:08
4-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
4-Isopropyltoluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 19:08
Benzene	0.200	U	0.400	0.120	0.200	ug/L	1		10/06/23 19:08
Bromobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
Bromochloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
Bromodichloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 19:08
Bromoform	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
Bromomethane	3.00	U	6.00	3.00	3.00	ug/L	1		10/06/23 19:08
Carbon disulfide	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 19:08
Carbon tetrachloride	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
Chlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 19:08
Chloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08

Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372006
Lab Project ID: 1235372

Collection Date: 09/26/23 08:00
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
Chloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 19:08
Dibromochloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 19:08
Dibromomethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
Dichlorodifluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
Ethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
Freon-113	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 19:08
Hexachlorobutadiene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
Methylene chloride	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 19:08
Methyl-t-butyl ether	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 19:08
Naphthalene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
n-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
n-Propylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
o-Xylene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
P & M -Xylene	1.00	U	2.00	0.620	1.00	ug/L	1		10/06/23 19:08
sec-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
Styrene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
tert-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
Tetrachloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
Toluene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
Trichloroethene	0.250	U	0.500	0.150	0.250	ug/L	1		10/06/23 19:08
Trichlorofluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		10/06/23 19:08
Vinyl acetate	5.00	U	10.0	3.10	5.00	ug/L	1		10/06/23 19:08
Vinyl chloride	0.0750	U	0.150	0.0500	0.0750	ug/L	1		10/06/23 19:08
Xylenes (total)	1.50	U	3.00	1.00	1.50	ug/L	1		10/06/23 19:08
Surrogates									
1,2-Dichloroethane-D4 (surr)	99.9		81-118			%	1		10/06/23 19:08
4-Bromofluorobenzene (surr)	93.4		85-114			%	1		10/06/23 19:08
Toluene-d8 (surr)	101		89-112			%	1		10/06/23 19:08

Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **17M-195 536 4th Ave**
Lab Sample ID: 1235372006
Lab Project ID: 1235372

Collection Date: 09/26/23 08:00
Received Date: 09/28/23 09:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS22873
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 10/06/23 19:08
Container ID: 1235372006-D

Prep Batch: VXX40599
Prep Method: SW5030B
Prep Date/Time: 10/06/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Method Blank

Blank ID: MB for HBN 1865482 [VXX/40555]
Blank Lab ID: 1738997

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1235372002

Results by **AK101**

Parameter	Results	LOQ/CL	DL	LOD	Units
Gasoline Range Organics	0.0500U	0.100	0.0450	0.0500	mg/L
Surrogates					
4-Bromofluorobenzene (surr)	85	50-150		0	%

Batch Information

Analytical Batch: VFC16634
Analytical Method: AK101
Instrument: Agilent 7890 PID/FID
Analyst: CWD
Analytical Date/Time: 10/6/2023 4:12:00AM

Prep Batch: VXX40555
Prep Method: SW5030B
Prep Date/Time: 10/5/2023 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1235372 [VXX40555]
Blank Spike Lab ID: 1738998
Date Analyzed: 10/06/2023 08:02

Spike Duplicate ID: LCSD for HBN 1235372 [VXX40555]
Spike Duplicate Lab ID: 1738999
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1235372002

Results by **AK101**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Gasoline Range Organics	1.00	0.810	81	1.00	0.777	78	(60-120)	4.10	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500		91	0.0500		88	(50-150)	3.80	

Batch Information

Analytical Batch: **VFC16634**
Analytical Method: **AK101**
Instrument: **Agilent 7890 PID/FID**
Analyst: **CWD**

Prep Batch: **VXX40555**
Prep Method: **SW5030B**
Prep Date/Time: **10/05/2023 06:00**
Spike Init Wt./Vol.: 0.0500 mg/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 0.0500 mg/L Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1865483 [VXX/40556]
Blank Lab ID: 1739000

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1235372001, 1235372003, 1235372004, 1235372005

Results by **AK101**

Parameter	Results	LOQ/CL	DL	LOD	Units
Gasoline Range Organics	0.0500U	0.100	0.0450	0.0500	mg/L
Surrogates					
4-Bromofluorobenzene (surr)	94	50-150		0	%

Batch Information

Analytical Batch: VFC16636
Analytical Method: AK101
Instrument: Agilent 7890A PID/FID
Analyst: CWD
Analytical Date/Time: 10/5/2023 6:35:00PM

Prep Batch: VXX40556
Prep Method: SW5030B
Prep Date/Time: 10/5/2023 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1235372 [VXX40556]
Blank Spike Lab ID: 1739003
Date Analyzed: 10/05/2023 19:32

Spike Duplicate ID: LCSD for HBN 1235372 [VXX40556]
Spike Duplicate Lab ID: 1739004
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1235372001, 1235372003, 1235372004, 1235372005

Results by **AK101**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Gasoline Range Organics	1.00	0.992	99	1.00	0.952	95	(60-120)	4.20	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500		99	0.0500		100	(50-150)	1.30	

Batch Information

Analytical Batch: **VFC16636**
Analytical Method: **AK101**
Instrument: **Agilent 7890A PID/FID**
Analyst: **CWD**

Prep Batch: **VXX40556**
Prep Method: **SW5030B**
Prep Date/Time: **10/05/2023 06:00**
Spike Init Wt./Vol.: 0.0500 mg/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 0.0500 mg/L Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1865484 [VXX/40557]
Blank Lab ID: 1739005

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1235372006

Results by **AK101**

Parameter	Results	LOQ/CL	DL	LOD	Units
Gasoline Range Organics	0.0507J	0.100	0.0450	0.0500	mg/L
Surrogates					
4-Bromofluorobenzene (surr)	94.9	50-150		0	%

Batch Information

Analytical Batch: VFC16636
Analytical Method: AK101
Instrument: Agilent 7890A PID/FID
Analyst: CWD
Analytical Date/Time: 10/6/2023 5:40:00AM

Prep Batch: VXX40557
Prep Method: SW5030B
Prep Date/Time: 10/6/2023 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1235372 [VXX40557]
Blank Spike Lab ID: 1739006
Date Analyzed: 10/06/2023 05:21

QC for Samples: 1235372006

Spike Duplicate ID: LCSD for HBN 1235372 [VXX40557]
Spike Duplicate Lab ID: 1739007
Matrix: Water (Surface, Eff., Ground)

Results by **AK101**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Gasoline Range Organics	1.00	0.976	98	1.00	0.936	94	(60-120)	4.10	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500		102	0.0500		100	(50-150)	2.10	

Batch Information

Analytical Batch: **VFC16636**
Analytical Method: **AK101**
Instrument: **Agilent 7890A PID/FID**
Analyst: **CWD**

Prep Batch: **VXX40557**
Prep Method: **SW5030B**
Prep Date/Time: **10/06/2023 06:00**
Spike Init Wt./Vol.: 0.0500 mg/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 0.0500 mg/L Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1865843 [VXX/40599]
Blank Lab ID: 1740247

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1235372001, 1235372002, 1235372003, 1235372004, 1235372005, 1235372006

Results by **SW8260D**

Parameter	Results	LOQ/CL	DL	LOD	Units
1,1,1,2-Tetrachloroethane	0.250U	0.500	0.150	0.250	ug/L
1,1,1-Trichloroethane	0.500U	1.00	0.310	0.500	ug/L
1,1,2,2-Tetrachloroethane	0.250U	0.500	0.150	0.250	ug/L
1,1,2-Trichloroethane	0.200U	0.400	0.120	0.200	ug/L
1,1-Dichloroethane	0.500U	1.00	0.310	0.500	ug/L
1,1-Dichloroethene	0.500U	1.00	0.310	0.500	ug/L
1,1-Dichloropropene	0.500U	1.00	0.310	0.500	ug/L
1,2,3-Trichlorobenzene	0.500U	1.00	0.310	0.500	ug/L
1,2,3-Trichloropropane	0.500U	1.00	0.310	0.500	ug/L
1,2,4-Trichlorobenzene	0.500U	1.00	0.310	0.500	ug/L
1,2,4-Trimethylbenzene	0.500U	1.00	0.310	0.500	ug/L
1,2-Dibromo-3-chloropropane	5.00U	10.0	3.10	5.00	ug/L
1,2-Dibromoethane	0.0375U	0.0750	0.0180	0.0375	ug/L
1,2-Dichlorobenzene	0.500U	1.00	0.310	0.500	ug/L
1,2-Dichloroethane	0.250U	0.500	0.200	0.250	ug/L
1,2-Dichloropropane	0.500U	1.00	0.310	0.500	ug/L
1,3,5-Trimethylbenzene	0.500U	1.00	0.310	0.500	ug/L
1,3-Dichlorobenzene	0.500U	1.00	0.310	0.500	ug/L
1,3-Dichloropropane	0.250U	0.500	0.150	0.250	ug/L
1,4-Dichlorobenzene	0.250U	0.500	0.150	0.250	ug/L
2,2-Dichloropropane	0.500U	1.00	0.310	0.500	ug/L
2-Butanone (MEK)	5.00U	10.0	3.10	5.00	ug/L
2-Chlorotoluene	0.500U	1.00	0.310	0.500	ug/L
2-Hexanone	5.00U	10.0	3.10	5.00	ug/L
4-Chlorotoluene	0.500U	1.00	0.310	0.500	ug/L
4-Isopropyltoluene	0.500U	1.00	0.310	0.500	ug/L
4-Methyl-2-pentanone (MIBK)	5.00U	10.0	3.10	5.00	ug/L
Benzene	0.200U	0.400	0.120	0.200	ug/L
Bromobenzene	0.500U	1.00	0.310	0.500	ug/L
Bromochloromethane	0.500U	1.00	0.310	0.500	ug/L
Bromodichloromethane	0.250U	0.500	0.150	0.250	ug/L
Bromoform	0.500U	1.00	0.310	0.500	ug/L
Bromomethane	3.00U	6.00	3.00	3.00	ug/L
Carbon disulfide	5.00U	10.0	3.10	5.00	ug/L
Carbon tetrachloride	0.500U	1.00	0.310	0.500	ug/L
Chlorobenzene	0.250U	0.500	0.150	0.250	ug/L
Chloroethane	0.500U	1.00	0.310	0.500	ug/L
Chloroform	0.500U	1.00	0.310	0.500	ug/L
Chloromethane	0.500U	1.00	0.310	0.500	ug/L
cis-1,2-Dichloroethene	0.500U	1.00	0.310	0.500	ug/L
cis-1,3-Dichloropropene	0.250U	0.500	0.150	0.250	ug/L
Dibromochloromethane	0.250U	0.500	0.150	0.250	ug/L

Method Blank

Blank ID: MB for HBN 1865843 [VXX/40599]
Blank Lab ID: 1740247

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1235372001, 1235372002, 1235372003, 1235372004, 1235372005, 1235372006

Results by **SW8260D**

Parameter	Results	LOQ/CL	DL	LOD	Units
Dibromomethane	0.500U	1.00	0.310	0.500	ug/L
Dichlorodifluoromethane	0.500U	1.00	0.310	0.500	ug/L
Ethylbenzene	0.500U	1.00	0.310	0.500	ug/L
Freon-113	5.00U	10.0	3.10	5.00	ug/L
Hexachlorobutadiene	0.500U	1.00	0.310	0.500	ug/L
Isopropylbenzene (Cumene)	0.500U	1.00	0.310	0.500	ug/L
Methylene chloride	5.00U	10.0	3.10	5.00	ug/L
Methyl-t-butyl ether	5.00U	10.0	3.10	5.00	ug/L
Naphthalene	0.500U	1.00	0.310	0.500	ug/L
n-Butylbenzene	0.500U	1.00	0.310	0.500	ug/L
n-Propylbenzene	0.500U	1.00	0.310	0.500	ug/L
o-Xylene	0.500U	1.00	0.310	0.500	ug/L
P & M -Xylene	1.00U	2.00	0.620	1.00	ug/L
sec-Butylbenzene	0.500U	1.00	0.310	0.500	ug/L
Styrene	0.500U	1.00	0.310	0.500	ug/L
tert-Butylbenzene	0.500U	1.00	0.310	0.500	ug/L
Tetrachloroethene	0.500U	1.00	0.310	0.500	ug/L
Toluene	0.500U	1.00	0.310	0.500	ug/L
trans-1,2-Dichloroethene	0.500U	1.00	0.310	0.500	ug/L
trans-1,3-Dichloropropene	0.500U	1.00	0.310	0.500	ug/L
Trichloroethene	0.250U	0.500	0.150	0.250	ug/L
Trichlorofluoromethane	0.500U	1.00	0.310	0.500	ug/L
Vinyl acetate	5.00U	10.0	3.10	5.00	ug/L
Vinyl chloride	0.0750U	0.150	0.0500	0.0750	ug/L
Xylenes (total)	1.50U	3.00	1.00	1.50	ug/L
Surrogates					
1,2-Dichloroethane-D4 (surr)	100	81-118		0	%
4-Bromofluorobenzene (surr)	102	85-114		0	%
Toluene-d8 (surr)	101	89-112		0	%

Batch Information

Analytical Batch: VMS22873
Analytical Method: SW8260D
Instrument: Agilent 7890-75MS
Analyst: JY
Analytical Date/Time: 10/6/2023 2:30:00PM

Prep Batch: VXX40599
Prep Method: SW5030B
Prep Date/Time: 10/6/2023 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/24/2023 11:16:31AM

Leaching Blank

Blank ID: LB for HBN 1865445 [TCLP/12705
Blank Lab ID: 1738834

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1235372001, 1235372002, 1235372003, 1235372004, 1235372005, 1235372006

Results by **SW8260D**

Parameter	Results	LOQ/CL	DL	LOD	Units
1,1-Dichloroethene	25.0U	50.0	15.5	25.0	ug/L
1,2-Dichloroethane	12.5U	25.0	10.0	12.5	ug/L
1,4-Dichlorobenzene	12.5U	25.0	7.50	12.5	ug/L
2-Butanone (MEK)	250U	500	155	250	ug/L
Benzene	10.0U	20.0	6.00	10.0	ug/L
Carbon tetrachloride	25.0U	50.0	15.5	25.0	ug/L
Chlorobenzene	12.5U	25.0	7.50	12.5	ug/L
Chloroform	25.0U	50.0	15.5	25.0	ug/L
Hexachlorobutadiene	25.0U	50.0	15.5	25.0	ug/L
Tetrachloroethene	25.0U	50.0	15.5	25.0	ug/L
Trichloroethene	12.5U	25.0	7.50	12.5	ug/L
Vinyl chloride	3.75U	7.50	2.50	3.75	ug/L
Surrogates					
1,2-Dichloroethane-D4 (surr)	104	81-118		0	%
4-Bromofluorobenzene (surr)	101	85-114		0	%
Toluene-d8 (surr)	102	89-112		0	%

Batch Information

Analytical Batch: VMS22873
Analytical Method: SW8260D
Instrument: Agilent 7890-75MS
Analyst: JY
Analytical Date/Time: 10/6/2023 11:26:00PM

Prep Batch: VXX40599
Prep Method: SW5030B
Prep Date/Time: 10/6/2023 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1235372 [VXX40599]
Blank Spike Lab ID: 1740248
Date Analyzed: 10/06/2023 14:45

Spike Duplicate ID: LCSD for HBN 1235372 [VXX40599]
Spike Duplicate Lab ID: 1740249
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1235372001, 1235372002, 1235372003, 1235372004, 1235372005, 1235372006

Results by **SW8260D**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	30	30.8	103	30	29.1	97	(78-124)	5.90	(< 20)
1,1,1-Trichloroethane	30	29.4	98	30	28.1	94	(74-131)	4.50	(< 20)
1,1,2,2-Tetrachloroethane	30	31.3	104	30	30.1	100	(71-121)	3.80	(< 20)
1,1,2-Trichloroethane	30	31.7	106	30	30.3	101	(80-119)	4.70	(< 20)
1,1-Dichloroethane	30	28.3	94	30	27.2	91	(77-125)	4.30	(< 20)
1,1-Dichloroethene	30	29.5	98	30	28.4	95	(71-131)	3.80	(< 20)
1,1-Dichloropropene	30	30.7	102	30	29.3	98	(79-125)	5.00	(< 20)
1,2,3-Trichlorobenzene	30	27.5	92	30	28.8	96	(69-129)	4.70	(< 20)
1,2,3-Trichloropropane	30	31.2	104	30	29.9	100	(73-122)	4.30	(< 20)
1,2,4-Trichlorobenzene	30	30.2	101	30	31.0	103	(69-130)	2.70	(< 20)
1,2,4-Trimethylbenzene	30	32.5	108	30	31.4	105	(79-124)	3.50	(< 20)
1,2-Dibromo-3-chloropropane	30	31.6	105	30	30.5	102	(62-128)	3.60	(< 20)
1,2-Dibromoethane	30	32.6	109	30	31.4	105	(77-121)	3.80	(< 20)
1,2-Dichlorobenzene	30	30.1	100	30	29.1	97	(80-119)	3.40	(< 20)
1,2-Dichloroethane	30	28.3	94	30	27.3	91	(73-128)	3.60	(< 20)
1,2-Dichloropropane	30	31.2	104	30	30.2	101	(78-122)	3.40	(< 20)
1,3,5-Trimethylbenzene	30	31.5	105	30	30.4	101	(75-124)	3.70	(< 20)
1,3-Dichlorobenzene	30	30.5	102	30	29.6	99	(80-119)	2.90	(< 20)
1,3-Dichloropropane	30	32.1	107	30	30.7	102	(80-119)	4.40	(< 20)
1,4-Dichlorobenzene	30	30.6	102	30	29.7	99	(79-118)	3.10	(< 20)
2,2-Dichloropropane	30	32.5	108	30	30.5	102	(60-139)	6.60	(< 20)
2-Butanone (MEK)	90	103	114	90	98.0	109	(56-143)	4.70	(< 20)
2-Chlorotoluene	30	30.7	102	30	29.8	100	(79-122)	2.80	(< 20)
2-Hexanone	90	103	115	90	99.7	111	(57-139)	3.70	(< 20)
4-Chlorotoluene	30	30.7	102	30	29.7	99	(78-122)	3.20	(< 20)
4-Isopropyltoluene	30	31.4	105	30	30.2	101	(77-127)	4.10	(< 20)
4-Methyl-2-pentanone (MIBK)	90	103	115	90	98.3	109	(67-130)	5.10	(< 20)
Benzene	30	30.9	103	30	29.6	99	(79-120)	4.20	(< 20)
Bromobenzene	30	30.0	100	30	29.5	98	(80-120)	1.70	(< 20)
Bromochloromethane	30	29.0	97	30	27.9	93	(78-123)	3.80	(< 20)
Bromodichloromethane	30	29.2	97	30	28.1	94	(79-125)	3.90	(< 20)
Bromoform	30	29.4	98	30	28.2	94	(66-130)	4.10	(< 20)
Bromomethane	30	33.9	113	30	36.2	121	(53-141)	6.60	(< 20)

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1235372 [VXX40599]
Blank Spike Lab ID: 1740248
Date Analyzed: 10/06/2023 14:45

Spike Duplicate ID: LCSD for HBN 1235372 [VXX40599]
Spike Duplicate Lab ID: 1740249
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1235372001, 1235372002, 1235372003, 1235372004, 1235372005, 1235372006

Results by **SW8260D**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Carbon disulfide	45	43.3	96	45	41.2	91	(64-133)	5.00	(< 20)
Carbon tetrachloride	30	26.0	87	30	24.9	83	(72-136)	4.10	(< 20)
Chlorobenzene	30	30.5	102	30	29.2	97	(82-118)	4.30	(< 20)
Chloroethane	30	32.7	109	30	30.2	101	(60-138)	8.00	(< 20)
Chloroform	30	26.8	89	30	25.8	86	(79-124)	3.70	(< 20)
Chloromethane	30	33.6	112	30	32.2	107	(50-139)	4.20	(< 20)
cis-1,2-Dichloroethene	30	29.4	98	30	28.5	95	(78-123)	3.30	(< 20)
cis-1,3-Dichloropropene	30	32.3	108	30	30.9	103	(75-124)	4.40	(< 20)
Dibromochloromethane	30	30.9	103	30	29.8	99	(74-126)	3.70	(< 20)
Dibromomethane	30	30.7	102	30	28.8	96	(79-123)	6.20	(< 20)
Dichlorodifluoromethane	30	32.5	108	30	30.6	102	(32-152)	5.90	(< 20)
Ethylbenzene	30	31.5	105	30	30.0	100	(79-121)	4.70	(< 20)
Freon-113	45	44.4	99	45	42.5	94	(70-136)	4.30	(< 20)
Hexachlorobutadiene	30	29.7	99	30	29.9	100	(66-134)	0.77	(< 20)
Isopropylbenzene (Cumene)	30	30.2	101	30	28.8	96	(72-131)	4.50	(< 20)
Methylene chloride	30	30.1	100	30	29.2	97	(74-124)	3.00	(< 20)
Methyl-t-butyl ether	45	48.2	107	45	46.3	103	(71-124)	4.00	(< 20)
Naphthalene	30	29.4	98	30	31.9	106	(61-128)	8.20	(< 20)
n-Butylbenzene	30	30.8	103	30	30.4	101	(75-128)	1.40	(< 20)
n-Propylbenzene	30	32.0	107	30	30.8	103	(76-126)	3.90	(< 20)
o-Xylene	30	31.9	106	30	30.7	102	(78-122)	3.80	(< 20)
P & M -Xylene	60	61.0	102	60	58.4	97	(80-121)	4.30	(< 20)
sec-Butylbenzene	30	31.4	105	30	30.3	101	(77-126)	3.40	(< 20)
Styrene	30	31.9	106	30	30.7	102	(78-123)	3.90	(< 20)
tert-Butylbenzene	30	31.1	104	30	30.0	100	(78-124)	3.60	(< 20)
Tetrachloroethene	30	31.0	103	30	29.1	97	(74-129)	6.50	(< 20)
Toluene	30	30.9	103	30	29.4	98	(80-121)	4.70	(< 20)
trans-1,2-Dichloroethene	30	29.6	99	30	28.3	94	(75-124)	4.50	(< 20)
trans-1,3-Dichloropropene	30	31.9	106	30	30.5	102	(73-127)	4.60	(< 20)
Trichloroethene	30	29.7	99	30	28.4	95	(79-123)	4.50	(< 20)
Trichlorofluoromethane	30	29.8	99	30	28.0	94	(65-141)	6.10	(< 20)
Vinyl acetate	30	32.3	108	30	30.5	102	(54-146)	5.90	(< 20)
Vinyl chloride	30	34.1	114	30	31.9	106	(58-137)	6.90	(< 20)

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1235372 [VXX40599]
Blank Spike Lab ID: 1740248
Date Analyzed: 10/06/2023 14:45

Spike Duplicate ID: LCSD for HBN 1235372 [VXX40599]
Spike Duplicate Lab ID: 1740249
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1235372001, 1235372002, 1235372003, 1235372004, 1235372005, 1235372006

Results by **SW8260D**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Xylenes (total)	90	92.9	103	90	89.1	99	(79-121)	4.20	(< 20)
Surrogates									
1,2-Dichloroethane-D4 (surr)	30		94	30		94	(81-118)	0.36	
4-Bromofluorobenzene (surr)	30		100	30		100	(85-114)	0.77	
Toluene-d8 (surr)	30		102	30		101	(89-112)	0.76	

Batch Information

Analytical Batch: **VMS22873**
Analytical Method: **SW8260D**
Instrument: **Agilent 7890-75MS**
Analyst: **JY**

Prep Batch: **VXX40599**
Prep Method: **SW5030B**
Prep Date/Time: **10/06/2023 06:00**
Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1865264 [XXX/48754]
Blank Lab ID: 1737988

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1235372001, 1235372002, 1235372003, 1235372004, 1235372005

Results by **8270D SIM LV (PAH)**

Parameter	Results	LOQ/CL	DL	LOD	Units
1-Methylnaphthalene	0.0250U	0.0500	0.0150	0.0250	ug/L
2-Methylnaphthalene	0.0186J	0.0500	0.0150	0.0250	ug/L
Acenaphthene	0.0250U	0.0500	0.0150	0.0250	ug/L
Acenaphthylene	0.0250U	0.0500	0.0150	0.0250	ug/L
Anthracene	0.0250U	0.0500	0.0150	0.0250	ug/L
Benzo(a)Anthracene	0.0250U	0.0500	0.0150	0.0250	ug/L
Benzo[a]pyrene	0.0100U	0.0200	0.00620	0.0100	ug/L
Benzo[b]Fluoranthene	0.0250U	0.0500	0.0150	0.0250	ug/L
Benzo[g,h,i]perylene	0.0250U	0.0500	0.0150	0.0250	ug/L
Benzo[k]fluoranthene	0.0250U	0.0500	0.0150	0.0250	ug/L
Chrysene	0.0250U	0.0500	0.0150	0.0250	ug/L
Dibenzo[a,h]anthracene	0.0100U	0.0200	0.00620	0.0100	ug/L
Fluoranthene	0.0250U	0.0500	0.0150	0.0250	ug/L
Fluorene	0.0250U	0.0500	0.0150	0.0250	ug/L
Indeno[1,2,3-c,d] pyrene	0.0250U	0.0500	0.0150	0.0250	ug/L
Naphthalene	0.0500U	0.100	0.0310	0.0500	ug/L
Phenanthrene	0.0500U	0.100	0.0310	0.0500	ug/L
Pyrene	0.0250U	0.0500	0.0150	0.0250	ug/L
Surrogates					
2-Methylnaphthalene-d10 (surr)	55.1	38-100		0	%
Fluoranthene-d10 (surr)	73.2	30-111		0	%

Batch Information

Analytical Batch: XMS13998
Analytical Method: 8270D SIM LV (PAH)
Instrument: Agilent 8890 GC/MS SYA
Analyst: HMW
Analytical Date/Time: 10/18/2023 1:42:00PM

Prep Batch: XXX48754
Prep Method: SW3535A
Prep Date/Time: 10/3/2023 11:00:00AM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1235372 [XXX48754]
Blank Spike Lab ID: 1737989
Date Analyzed: 10/18/2023 13:58

Spike Duplicate ID: LCSD for HBN 1235372 [XXX48754]
Spike Duplicate Lab ID: 1737990
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1235372001, 1235372002, 1235372003, 1235372004, 1235372005

Results by **8270D SIM LV (PAH)**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1-Methylnaphthalene	2	1.19	60	2	1.28	64	(41-115)	6.70	(< 20)
2-Methylnaphthalene	2	1.27	64	2	1.36	68	(39-114)	6.50	(< 20)
Acenaphthene	2	1.40	70	2	1.57	79	(48-114)	11.20	(< 20)
Acenaphthylene	2	1.31	66	2	1.42	71	(35-121)	7.70	(< 20)
Anthracene	2	1.48	74	2	1.65	83	(53-119)	10.90	(< 20)
Benzo(a)Anthracene	2	1.68	84	2	1.62	81	(59-120)	3.70	(< 20)
Benzo[a]pyrene	2	1.86	93	2	1.78	89	(53-120)	4.40	(< 20)
Benzo[b]Fluoranthene	2	2.02	101	2	1.92	96	(53-126)	5.10	(< 20)
Benzo[g,h,i]perylene	2	1.96	98	2	1.96	98	(44-128)	0.10	(< 20)
Benzo[k]fluoranthene	2	1.91	96	2	1.87	93	(54-125)	2.40	(< 20)
Chrysene	2	1.78	89	2	1.77	89	(57-120)	0.46	(< 20)
Dibenzo[a,h]anthracene	2	1.92	96	2	1.89	94	(44-131)	1.80	(< 20)
Fluoranthene	2	1.61	81	2	1.66	83	(58-120)	3.00	(< 20)
Fluorene	2	1.42	71	2	1.64	82	(50-118)	14.40	(< 20)
Indeno[1,2,3-c,d] pyrene	2	1.95	98	2	1.90	95	(48-130)	2.50	(< 20)
Naphthalene	2	1.23	61	2	1.32	66	(43-114)	7.60	(< 20)
Phenanthrene	2	1.48	74	2	1.66	83	(53-115)	11.50	(< 20)
Pyrene	2	1.65	83	2	1.67	84	(53-121)	1.40	(< 20)
Surrogates									
2-Methylnaphthalene-d10 (surr)	2		52	2		59	(38-100)	12.00	
Fluoranthene-d10 (surr)	2		74	2		77	(30-111)	4.10	

Batch Information

Analytical Batch: **XMS13998**
Analytical Method: **8270D SIM LV (PAH)**
Instrument: **Agilent 8890 GC/MS SYA**
Analyst: **HMW**

Prep Batch: **XXX48754**
Prep Method: **SW3535A**
Prep Date/Time: **10/03/2023 11:00**
Spike Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL

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Method Blank

Blank ID: MB for HBN 1865509 [XXX/48792]
Blank Lab ID: 1739078

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1235372001, 1235372002, 1235372003, 1235372004, 1235372005

Results by **AK102**

Parameter	Results	LOQ/CL	DL	LOD	Units
Diesel Range Organics	0.300U	0.600	0.200	0.300	mg/L
Surrogates					
5a Androstane (surr)	86.3	60-120		0	%

Batch Information

Analytical Batch: XFC16698
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: T.L
Analytical Date/Time: 10/10/2023 4:28:00PM

Prep Batch: XXX48792
Prep Method: SW3520C
Prep Date/Time: 10/6/2023 4:40:00PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1235372 [XXX48792]
Blank Spike Lab ID: 1739079
Date Analyzed: 10/10/2023 16:40

Spike Duplicate ID: LCSD for HBN 1235372 [XXX48792]
Spike Duplicate Lab ID: 1739080
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1235372001, 1235372002, 1235372003, 1235372004, 1235372005

Results by **AK102**

	Blank Spike (mg/L)				Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)		Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	20	10.1	50	*	20	18.4	92	(75-125)	58.40	* (< 20)
Surrogates										
5a Androstane (surr)	0.4		63		0.4		108	(60-120)	52.10	

Batch Information

Analytical Batch: **XFC16698**
Analytical Method: **AK102**
Instrument: **Agilent 7890B F**
Analyst: **T.L**

Prep Batch: **XXX48792**
Prep Method: **SW3520C**
Prep Date/Time: **10/06/2023 16:40**
Spike Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL

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ALASKA RESOURCES AND ENVIRONMENTAL SERVICES

1235372

3346460

Chain of Custody Report

Client: Alaska Resources and Environmental Services

Report To: Lyle Gieselhover
Address: ARES
P.O. Box 83050
Email: lyle@ak-res.com; Dustin@ak-res.com
Phone: (907)374-3226 Fax: (907)374-3219

Project Name: 536 4th Ave
Project Number: 17M-195
Sampled By: Richard Ranft

Invoice To: ARES
P.O. Box 83050
Fairbanks, Alaska 99708

Laboratory Name: SGS
Address: 200 W Potter DR Anchorage
Anchorage, AK 99518
1 907-562-2343

Turnaround Request
In Business Days

Organic & Inorganic Analyses

Petroleum Hydrocarbon Analyses

Specify Other:

Report Tier Levels: Tier II reporting requested results + QC

Preservative: HCL | HNO3 | ICE | NA

Requested Analyses

Sample Identification	Sampling Date/Time		ARSOL GRO	TPH 8015D DRO	ARSOL DRO	ARSOL RRO	Matrix (W,S,O)	# of Cont.	Comments / Containers	Lab ID
MW1-0923	09/26/23	1330	X	X	X	X	W	10		
MW2-0923	09/26/23	1231	X	X	X	X	W	10		
MW3-0923	09/26/23	1610	X	X	X	X	W	10		
RW4-0923	09/26/23	1455	X	X	X	X	W	10		
MW5-0923	09/26/23	1430	X	X	X	X	W	10		
Trip Blank	09/26/23	0800	X	X			O	6		

Released By: [signature]
Print Name: Richard Ranft
Firm: ARES
Date: 09/27/2023
Time: 0930

Received By: [signature]
Print Name:
Firm: SGS
Date: 9/27/23
Time: 0930

Released By: [signature]
Print Name:
Firm: SGS
Date: 9/27/23
Time: 1430

Received By: [signature]
Print Name: Jessica C.
Firm: SGS
Date: 9/28/23
Time: 9:46

3.5°c D68

Page 2.6 | Page 1 of 1

SGS

1235372

SAMPLE RECEIPT FORM

Project Manager Completion				
Was all necessary information recorded on the COC upon receipt? (temperature, COC seals, etc.?)	Yes	No	N/A	
Was temperature between 0-6° C?	Yes	No	N/A	If "No", are the samples either exempt* or sampled <8 hours prior to receipt?
Were all analyses received within holding time*?	Yes	No	N/A	
Was a method specified for each analysis, where applicable? If no, please note correct methods.	Yes	No	N/A	
Are compound lists specified, where applicable? For project specific or special compound lists please note correct analysis code.	Yes	No	N/A	
If rush was requested by the client, was the requested TAT approved?	Yes	No	N/A	If "NO", what is the approved TAT?
If SEDD Deliverables are required, were Location ID's and an NPDL Number provided?	Yes	No	N/A	If "NO", contact client for information.
Sample Login Completion				
Do ID's on sample containers match COC?	Yes	No	N/A	
If provided on containers, do dates/times collected match COC?	Yes	No	N/A	Note: If times differ <1 hr., record details below and login per COC.
Were all sample containers received in good condition?	Yes	No	N/A	
Were proper containers (type/mass/volume/preservative) received for all samples? *See form F-083 "Sample Guide"*	Yes	No	N/A	*Note: If 200.8/6020 Total Metals are received unpreserved, preserve and note HNO3 lot here:* *If 200.8/6020 Dissolved Metals are received unpreserved, log in for LABFILTER and do not preserve.* *For all non-metals methods, inform Project Manager.*
Were Trip Blanks (VOC, GRO, Low-Level Hg, etc.) received with samples, where applicable*?	Yes	No	N/A	
Were all VOA vials free of headspace >6mm?	Yes	No	N/A	
Were all soil VOA samples received field extracted with Methanol?	Yes	No	N/A	
Did all soil VOA samples have an accompanying unpreserved container for % solids?	Yes	No	N/A	
If special handling is required, were containers labelled appropriately? e.g. MI/SM, foreign soils, lab filter, Ref Lab, limited volume	Yes	No	N/A	
For Rush/Short Holding time, was the lab notified?	Yes	No	N/A	
For any question answered "NO", was the Project Manager notified?	Yes	No	N/A	PM Initials:
Was Peer Review of sample numbering/labelling completed?	Yes	No	N/A	Reviewer Initials: MA

Additional Notes/Clarification where Applicable, including resolution of "No" answers when a change order is not attached:

F102B_SRF_10202022

Laboratory Data Review Checklist

Completed By:

Wyatt Kowalchuk

Title:

Environmental Scientist

Date:

01/15/2024

Consultant Firm:

Alaska Resources and Environmental Services

Laboratory Name:

SGS North America

Laboratory Report Number:

1235372

Laboratory Report Date:

10/24/2023

CS Site Name:

Commercial Property – 536 4th Avenue

ADEC File Number:

102.38.192

Hazard Identification Number:

26466

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

1. Laboratory

   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

   Yes☒ No☐ N/A☐ Comments:

   SGS North America is an ADEC CS approved laboratory.

   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 approved?

   Yes☐ No☐ N/A☒ Comments:

   The samples were not transferred or subcontracted.

2. Chain of Custody (CoC)

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

   Yes☒ No☐ N/A☐ Comments:

   b. Correct analyses requested?

   Yes☒ No☐ N/A☐ Comments:

3. Laboratory Sample Receipt Documentation

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

   Yes☒ No☐ N/A☐ Comments:

   The cooler at the time of receipt in Fairbanks was 2.6 ° C.

   b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

   Yes☒ No☐ N/A☐ Comments:

   Six (6) samples consisting of five (5) groundwater samples (including one (1) duplicate) and one (1) trip blank were received by SGS North America on September 27, 2023. The samples arrived in good condition and properly preserved.

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c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes☒ No☐ N/A☐ Comments:

Samples arrived in good condition and were properly preserved.

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, etc.?

Yes☐ No☐ N/A☒ Comments:

There weren't any discrepancies.

e. Data quality or usability affected?

Comments:

Data quality or usability are unaffected.

4. Case Narrative

a. Present and understandable?

Yes☒ No☐ N/A☐ Comments:

Laboratory used AK103 in place of AK102 in case narrative, all errors are associated with method AK102.

AK103: surrogate recovery error for n-triacontane reported, no AK103 or surrogate associated analytes were tested as a part of this project.

b. Discrepancies, errors, or QC failures identified by the lab?

Yes☒ No☐ N/A☐ Comments:

The laboratory reported Method Blank detections, surrogate recovery errors, and LCS/LCSD errors that will be addressed in the appropriate sections below.

c. Were all corrective actions documented?

Yes☐ No☐ N/A☒ Comments:

Corrective actions were not required.

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

Comments:

Data quality and usability will be discussed in the appropriate sections below.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes☒ No☐ N/A☐ Comments:

b. All applicable holding times met?

Yes☒ No☐ N/A☐ Comments:

c. All soils reported on a dry weight basis?

Yes☐ No☐ N/A☒ Comments:

Samples consisted of groundwater.

d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?

Yes☐ No☒ N/A☐ Comments:

SW8260D: 1,2,3-Trichloropropane have detection limits that exceed ADEC CUL's in one or more samples.

e. Data quality or usability affected?

Data quality is affected. Analytes with elevated detection limits could be present at concentrations that exceed ADEC cleanup levels. Data is still usable. Sample results with detection limits that exceed ADEC CUL's are highlighted in blue in the analytical summary table.

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6. QC Samples

a. Method Blank

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

Yes☒ No☐ N/A☐ Comments:

ii. All method blank results less than limit of quantitation (LOQ) or project specified objectives?

Yes☒ No☐ N/A☐ Comments:

At least one method blank was reported per matrix, analysis and 20 samples. All method blank results associated with this sampling event were non-detect or less than the limit of quantitation. Several analytes were detected in the method blanks at concentrations that were less than the LOQ but above the DL and are listed below.

AK101: GRO (50.7 mg/L) was detected in MB 1739005 at concentrations above the method detection limit (45.0 mg/L) but below the LOQ (100 mg/L). Data quality is affected. Analytes detected in both the sample and the blank are considered high biased estimates and are qualified with the B data flag. GRO was detected in associated samples at concentrations below ADEC CULs. Data useability is not affected.

8270D SIM LV: 2-Methylnaphthalene was detected in MB 1737988 at concentrations (0.0186 ug/L) above the method detection limit but below the LOQ (0.0500 ug/L). Data quality is affected. Analytes detected in both the sample and the blank are considered high biased estimates and are qualified with the B data flag. 2-Methylnaphthalene was detected in associated samples significantly below ADEC CULs and remains usable.

iii. If above LOQ or project specified objectives, what samples are affected?

Comments:

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

Yes☒ No☐ N/A☐ Comments:

Affected results are qualified with B data flags.

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v. Data quality or usability affected?

Comments:

See Section 6.a.ii. above.

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

i. Organics – 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:

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

Yes☐ No☐ N/A☒ Comments:

iii. Accuracy – 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:

AK102: LCS 1739079 recovered criteria low for DRO (%R=50%). Data quality is affected. Associated results for DRO are considered low biased estimates and are qualified with the QL data flag. All associated low biased results are significantly above or below ADEC CULs and remain useable.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? 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:

AK102: The RPD of LCS 1739079 exceeded control limits for DRO. DRO was detected in the associated samples. All detected results for DRO are considered estimates with unknown bias and are qualified with the QN data flag. All associated detected results for DRO are significantly above or below ADEC CULs and remain useable. Non-detect results are not affected and do not require qualification.

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

Comments:

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

Yes☒ No☐ N/A☐ Comments:

The samples are qualified with the QN data flag.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Data quality and usability are not affected.

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

Note: Leave blank if not required for project

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

Yes☐ No☐ N/A☒ Comments:

An MS/MSD was not required for this sampling event.

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

Yes☐ No☐ N/A☒ Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes☐ No☐ N/A☒ Comments:

iv. Precision – 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.

Yes☐ No☐ N/A☒ Comments:

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

Comments:

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

Yes☐ No☐ N/A☒ Comments:

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

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:

AK103: surrogate recovery error for n-triacontane reported, no AK103 or surrogate associated analytes were tested as a part of this project.

Commented [WK1]: Flagging for visibility. Seems like an error on the lab's end. No LCS for AK103

Commented [DS2R1]: We did not request analysis for RRO and the affected surrogate is associated RRO so it does not affect our data.

ii. Accuracy – 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 and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes☒ No☐ N/A☐ Comments:

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:

iv. Data quality or usability affected?

Comments:

See Section 6.d.ii above

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e. Trip Blanks

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

Yes☒ No☐ N/A☐ Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

Yes☐ No☐ N/A☒ Comments:

All samples were shipped in a single cooler.

iii. All results less than LOQ and project specified objectives?

Yes☒ No☐ N/A☐ Comments:

AK101: GRO (0.0471 mg/L) was detected in the Trip Blank at concentrations below the LOQs (100 ug/L). All results in which the analyte was detected in both the sample and the trip blank are qualified with a "B" data flag. Data quality is affected. Associated non-detect results are not affected. Cross-contamination between samples for these analytes may have occurred for this sampling event and associated results may be biased high. GRO was detected in the method blank (50.7 mg/L) for this sample, and associated results may be attributable to method blank/lab contamination. All affected high bias results are below ADEC CULs. Data remains useable.

iv. If above LOQ or project specified objectives, what samples are affected?

Comments:

v. Data quality or usability affected?

Comments:

See Section 6.e.ii above.

f. Field Duplicate

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

Yes☒ No☐ N/A☐ Comments:

Sample MWD-0923 is the duplicate of MW1-0923.

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ii. Submitted blind to lab?

Yes☒ No☐ N/A☐ Comments:

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

RPD (%) = 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:

SW8260D: The following analytes had an RPD above recommended limits for samples MW1-0923 and MWD-0923: 1,2,4-Trimethylbenzene (127.1%), n-Propylbenzene (71%), naphthtalene (46.2%), o-Xylene (41%), sec-Butylbenzene (113.4%).

Data quality for the analytes with RPDs exceeding control limits are affected. Associated results are considered estimated with an unknown bias and are qualified with the "QN" data flag. All associated results are less than ADEC CULs. Data is useable.

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

Comments:

Data quality for the analytes with RPDs exceeding control limits are affected. Associated results are considered estimated with an unknown bias and are qualified with the "QN" data flag. All associated results are less than ADEC CULs. Data remains usable.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes☐ No☐ N/A☒ Comments:

Dedicated disposable sampling equipment was used to collect the samples.

i. All results less than LOQ and project specified objectives?

Yes☐ No☐ N/A☒ Comments:

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ii. If above LOQ or project specified objectives, what samples are affected?

Comments:

iii. Data quality or usability affected?

Comments:

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

a. Defined and appropriate?

Yes☒ No☐ N/A☐ Comments:

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