Ms. Rebekah Reams
Alaska Department of Environmental Conservation
Spill Prevention and Response, Contaminated Sites Program
P.O. Box 1535
Haines, Alaska 99827

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Date: September 26, 2024
Our Ref: 30063666
Subject: Second Half 2024 Groundwater Monitoring Report
Chevron #1356 (Midtown Chevron #91356)
1465 West Northern Lights Boulevard, Anchorage, Alaska
ADEC File No.: 2100.26.065
ADEC Hazard ID: 23313

Dear Ms. Reams,

On behalf of Chevron Environmental Management Company, Arcadis U.S., Inc. (Arcadis), has prepared this report to document the second half 2024 groundwater monitoring activities for Chevron #1356 (Midtown Chevron), located at 1465 West Northern Lights Boulevard, Anchorage, Alaska (site). This work was conducted under the direction of a “Qualified Environmental Professional” by a “Qualified Sampler” (18 Alaska Administrative Code [AAC] 75.333).

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

Sincerely,

Arcadis U.S., Inc.

Jill Settle
Certified Project Manager
Email: jill.settle@arcadis.com
Direct Line: 860.503.1427

Copies
James Kiernan, Chevron Environmental Management Company *(electronic copy)*
Mark Engelke, Cook Inlet Marketing Group, Inc. *(electronic copy)*
Jeff Brown, Carr-Gottstein Foods Company

Ms. Rebekah Reams
Alaska Department of Environmental Conservation
Date: September 26, 2024

SECOND HALF 2024 GROUNDWATER MONITORING REPORT

Work Conducted This Period [Second Half 2024]:

1. Conducted quarterly groundwater monitoring activities on August 7, 2024.
2. Prepared the *Second Half 2024 Groundwater Monitoring Report*.
3. Submitted an *Additional Soil Vapor Sampling Work Plan* on September 25, 2024.

Work Proposed Next Period [End of 2024 and First Half 2025]:

1. Conduct additional soil vapor sampling (Fall 2024 and Spring 2025), if approved by Alaska Department of Environmental Conservation (ADEC).
2. Conduct the first half 2025 groundwater monitoring activities.
3. Prepare the *First Half 2025 Groundwater Monitoring Report.*

Site Description

The site is in south central Alaska, to the southeast of the northern Knik Arm of Cook Inlet. Anchorage area bedrock consists of Mesozoic metamorphic and igneous rocks overlain by densely consolidated sediments of the Kenai group. A series of marine transgressive sequences combined with glaciofluvial sediments are overlain by the most recent glacial sediments (Cederstrom 1964). Subsurface site sediments as identified during past site assessment activities consist primarily of sand with gravel to approximately 10 feet below ground surface (bgs) underlain by poorly graded sand to the total explored depth of approximately 23 feet bgs. As documented in the site's historical boring logs, clay was found at depths of 22 feet bgs (SECOR International, Inc. [SECOR] 2001). Historic groundwater depths have ranged between approximately 11 and 17 feet below top of casing, and historical groundwater flow is to the west-southwest. Site facilities consist of three underground storage tanks (USTs), four fuel dispenser islands, product piping, and a station building. In May 1998, the five original USTs, the dispenser islands, and associated piping were removed as part of station raze and rebuild activities. Samples collected during the removal activities indicated soils near the former dispenser islands, gasoline USTs, and associated piping were impacted with gasoline range organics (GRO), diesel range organics (DRO), benzene, toluene, ethylbenzene, and xylenes (collectively BTEX) above ADEC Soil Cleanup Levels (SCLs). While it is was noted that no visible cracks or holes were observed in the USTs removed in 1998, the release mechanism is assumed to be a release from the original UST system (SECOR 1998). Currently, there are five onsite groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4, and MW-9) and two offsite groundwater monitoring wells (MW-6 and MW-7).

On November 9, 2022, ADEC approved a *Groundwater Sampling Analyte Reduction Request – Groundwater Sampling Work Plan Addendum,* which included the monitoring and sampling of site-related monitoring wells semi-annually. The surrounding properties are primarily commercial. The site is bordered by Dondee's Laundry to the north; Northern Lights Village (a commercial plaza that includes beauty salons, clothing boutiques, a restaurant, a tattoo shop, a medical laboratory, and an art studio) to the east; West Northern Lights Boulevard followed by Walgreens Pharmacy to the south; the intersection of West Northern Lights Boulevard and Minnesota Drive followed by Carrs Grocery Store to the southwest; Minnesota Drive followed by a Vitus Energy-branded

gasoline station and convenience store to the west; and Minnesota Drive followed by Aurthur Campbell Nursery (a plant nursery) to the northwest. A site location map and site plan are shown as Figures 1 and 2, respectively.

Site Activities this Reporting Period

Current phase of project:	Monitoring
Frequency of monitoring and sampling:	Semi-annual
Monitoring wells containing light non-aqueous phase liquid (LNAPL):	None
Cumulative LNAPL recovered to date: (gallons)	0.00
Approximate depth to groundwater: (feet below top of casing)	11.57 (MW-7) to 15.25 (MW-1)
Approximate groundwater elevation: (feet relative to NAVD88)	80.11 (MW-7) to 80.91 (MW-9)
Groundwater flow direction	Southwest
Groundwater gradient (feet per foot)	0.002
Current remediation techniques:	None
Summary of unusual activity:	None
Agency directive requirements:	None

Groundwater Gauging and Sampling Methods

On August 7, 2024, the second half 2024 groundwater monitoring and sampling activities were conducted. Groundwater monitoring wells scheduled to be gauged and/or sampled are summarized in Table 1. Monitoring wells were gauged with an oil/water interface probe in the order of lowest to highest historical petroleum hydrocarbon concentrations in groundwater to determine groundwater elevations and ascertain if LNAPL was present. Following gauging, groundwater was purged and sampled using low flow purge technology via bladder pump in accordance with the ADEC Field Sampling Guidance (ADEC 2022a) and Arcadis *Standard Groundwater Sampling and Monitoring Wells (Arcadis 2022a).*

Non-disposable groundwater gauging equipment was decontaminated prior to and after each use with a detergent solution and rinsed in potable water. Groundwater table drawdown was continuously monitored during purging with an oil/water interface probe and the flow rate of the pump was adjusted to limit drawdown to 0.3 foot. Groundwater quality parameters were monitored during purging with a Horiba U-52 multi-parameter water quality

meter equipped with a flow through cell and turbidity meter. Parameters were recorded every 3 to 5 minutes until a minimum of three (minimum of four if using temperature as an indicator) of the parameters listed below stabilized. Water quality parameters were considered stable when three successive readings were within the following ADEC limits:

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

Following well stabilization, the flow rate was reduced to approximately 200 milliliters per minute and groundwater samples were collected into laboratory sample bottles. Groundwater samples were collected from the top foot of the groundwater column in monitoring wells per the sampling schedule (Table 1). The groundwater potentiometric surface elevation and a rose diagram of historical groundwater flow directions are illustrated on Figure 3.

In the letter dated November 9, 2022, ADEC approved a reduction of analytes for the site. Groundwater samples collected were analyzed by Pace Analytical National Center for Testing & Innovation (Pace) of Mt. Juliet, Tennessee for the following constituents:

- Select volatile organic compounds by United States Environmental Protection Agency (USEPA) 8260D including: benzene, toluene, ethylbenzene and total xylenes (BTEX), naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbezene, chloroform, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride.

A groundwater duplicate sample (BD-1) was collected from monitoring well MW-2 and submitted blind to Pace. Additionally, an equipment blank (EQB-1) sample was collected and a trip blank (Trip Blank) was included in sample coolers for quality assurance purposes. Field notes collected during groundwater monitoring activities including monitoring well purge rates and drawdown are presented in Attachment A.

Groundwater Sampling Results

Groundwater analytical results obtained during this event indicate constituents of potential concern (COPCs) exceed the ADEC Oil Pollution Prevention Requirements (18 AAC 75) identified in Table C - Groundwater Cleanup Levels (GCL). Analytical data from the most recent sampling event are summarized in Tables 2 and 3. COPCs exceeding GCLs are summarized below, in Table 1-1, and are illustrated on Figures 4 and 5. The laboratory report is included as Attachment B.

Table 1-1. Summary of Current Groundwater Analytical Exceedances

Analyte	ADEC GCL (µg/L)	Number of samples exceeding the ADEC GCL^	Maximum Exceedance (Well) (µg/L)
Ethylbenzene	15	1	16.9 (MW-3)
Naphthalene	1.7	2	4.35 J (duplicate of MW-2)
Chloroform	2.2	3	14.4 (MW-9)
Tetrachloroethene	41	2	42.6 (duplicate of MW-2)

Analyte	ADEC GCL (µg/L)	Number of samples exceeding the ADEC GCL^	Maximum Exceedance (Well) (µg/L)
Trichloroethene	2.8	1	4.32 (MW-3)
Vinyl Chloride	0.19	2	0.826 J (MW-6)

Notes:

^ = This count of samples exceeding the ADEC GCL includes duplicate samples
µg/L = milligram per liter
J= The associated numerical value is an estimated concentration only

Historical analytical results (prior to 2023) are presented in Attachment C. Historical analytical data from spring of 2023 to current are summarized in Table 3.

Laboratory Data Review

As required by the ADEC Guidelines for Data Reporting (ADEC 2022b), Arcadis completed a laboratory data review checklist for the laboratory report generated for this event. The data review checklist is included as Attachment D. Quality assurance and quality control parameters related to the precision, accuracy, representativeness, comparability, completeness, and sensitivity of the data presented in this report suggest that the data quality objectives have been met with the following exceptions:

- Accuracy:
  - Continuing calibration recovery was less than the control limit for naphthalene in sample locations MW-1, MW-2, MW-3, MW-4, MW-6, MW-7, MW-9, BD-1 (collected from MW-2), EQB-1 and trip blank for USEPA Method 8260D. Laboratory analytical results in the associated sample locations were qualified as estimated (“J” flags).
  - The percent recoveries reported were within method or laboratory detection limits and project specified objectives.
- Precision:
  - Based on the laboratory control sample and laboratory control sample duplicate relative percent differences, the data meets precision objectives.
- Comparability:
  - Comparability is not applicable to these laboratory results.
- Sensitivity:
  - The concentrations of ethylbenzene and trichloroethene exceeded the ADEC GCLs in sample location MW-3.
  - The concentrations of naphthalene and tetrachloroethene exceeded the ADEC GCLs in sample locations MW-2 and BD-1 (collected from MW-2).
  - The concentration of chloroform exceeded the ADEC GCL in sample locations MW-1, MW-4, and MW-9.
  - The concentration of vinyl chloride exceeded the ADEC GCL in sample locations MW-6 and MW-7.
  - The laboratory reported detection limits for naphthalene, vinyl chloride, and chloroform exceeded the ADEC GCLs. The laboratory method detection limits are above the ADEC GCLs for naphthalene and chloroform. The requested laboratory method detection limit for vinyl chloride could not be achieved.
  - The sensitivity of the analyses was adequate for the samples.

- Representativeness:
  - The data appears to be representative of site conditions and are generally consistent with expected groundwater concentrations.
- Completeness:
  - The results appear to be valid and usable, and thus, the laboratory results have 100 percent completeness.

Investigation Derived Waste

Purge water and decontamination water collected during groundwater sampling was temporarily collected into 5-gallon buckets and treated onsite via a Granular Activated Carbon (GAC) bucket. The treatment of purge water and decontamination water was completed per the Arcadis *Summary of Procedures for Investigation Derived Waste Treatment Utilizing Granular Activated Carbon (Arcadis 2022b)*. Approximately 4.73 gallons of groundwater were treated during this event.

Conclusion and Recommendations

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

Arcadis recommends groundwater sampling continues in accordance with the current semi-annual schedule. The first semi-annual sampling event will be conducted in spring of 2025.

References

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

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

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

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

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

Cederstrom, D.J., F. Trainer and R. Waller. 1964. Geology and Ground-Water Resources of the Anchorage Area, Alaska. United States Geological Survey.

SECOR International, Inc. (SECOR) 1998. Underground Storage Tanks Removal and Site Assessment Report. August 6, 1998.

SECOR. 2001. Assessment for Offsite Monitoring Well Installation. November 20.

Ms. Rebekah Reams
Alaska Department of Environmental Conservation
Date September 26, 2024

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

Sincerely,

Arcadis U.S., Inc.

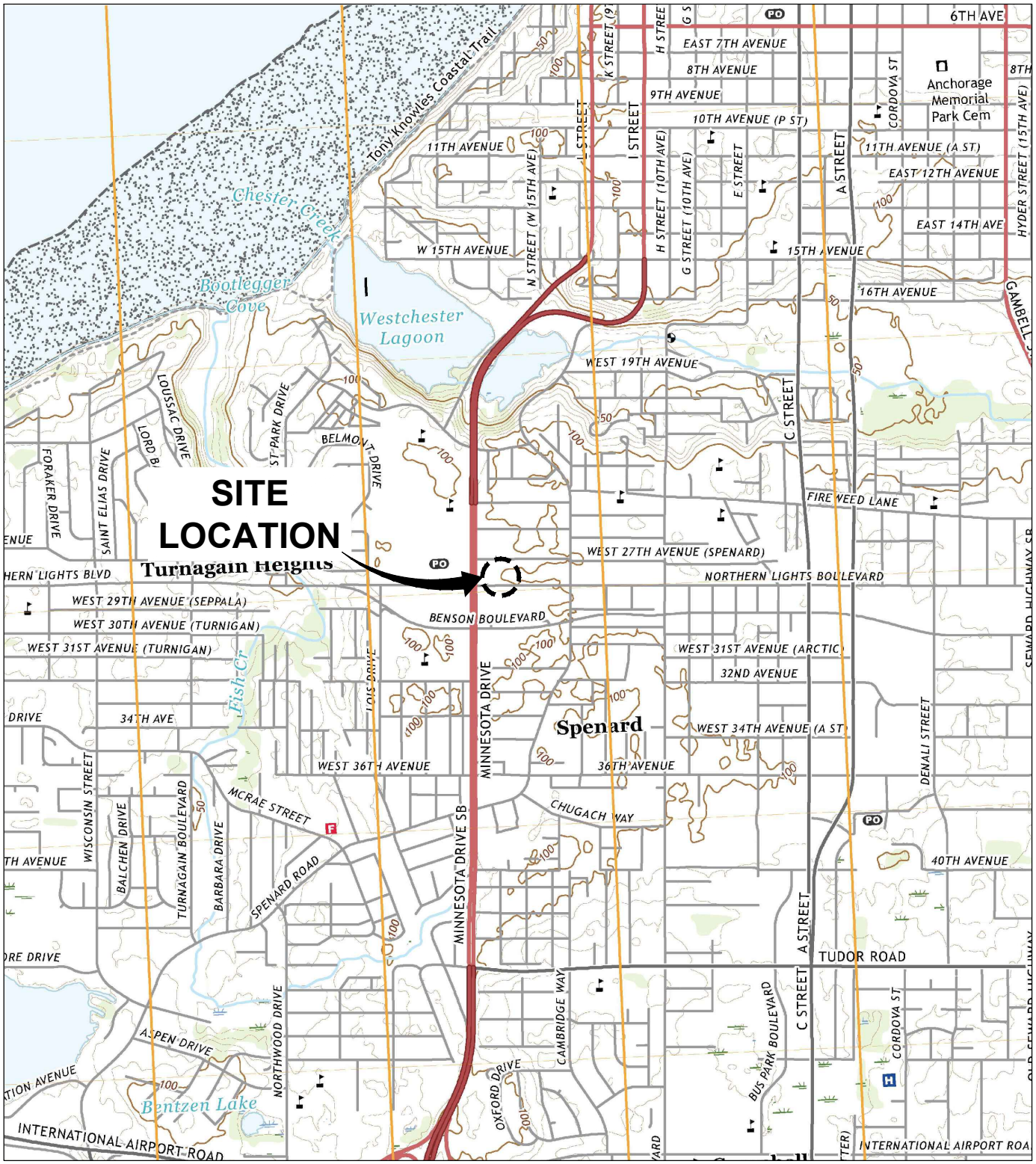
Nate Polen
Associate Project Manager

Jill M. Settle
Certified Project Manager

Enclosures:

- Figure 1. Site Location Map
- Figure 2. Site Plan
- Figure 3. Groundwater Elevation Contour Map (August 7, 2024)
- Figure 4. Groundwater Analytical Results Map (August 7, 2024)
- Table 1. Groundwater Monitoring Schedule
- Table 2. Current Groundwater Gauging and Primary Analytical Results
- Table 3. Historical Groundwater Gauging and Primary Analytical Results
- Attachment A. Field Notes
- Attachment B. Laboratory Analytical Results
- Attachment C. Historical Groundwater Analytical Results Third Quarter 1999 through 2022
- Attachment D. ADEC Data Review Checklist

Figures



SOURCE: USGS 7.5 ANCHORAGE A-8 NW QUADRANGLE, ALASKA.

N

0 2,000' 4,000'

Approximate Scale: 1 in. = 2,000 ft.

AREA LOCATION

ALASKA

CHEVRON #1356
(MIDTOWN CHEVRON)
1465 NORTHERN LIGHTS BOULEVARD
ANCHORAGE, ALASKA

SITE LOCATION MAP

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FIGURE 1

CITY:TMAPA,FL DIV/GROUP:85 DB:JAR LD:(Opt) PIC:(Opt) PM:M.Strickler TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\shankav4688\DC\ACCDocs\Arcadis ACC USAUS-99999999-CHEV_91356_ANCHORAGE_AK\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\GEN-F01-SITE LOCATION MAP.dwg LAYOUT: 1 SAVED: 5/6/2024 5:26 PM ACADVER: 24.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE:
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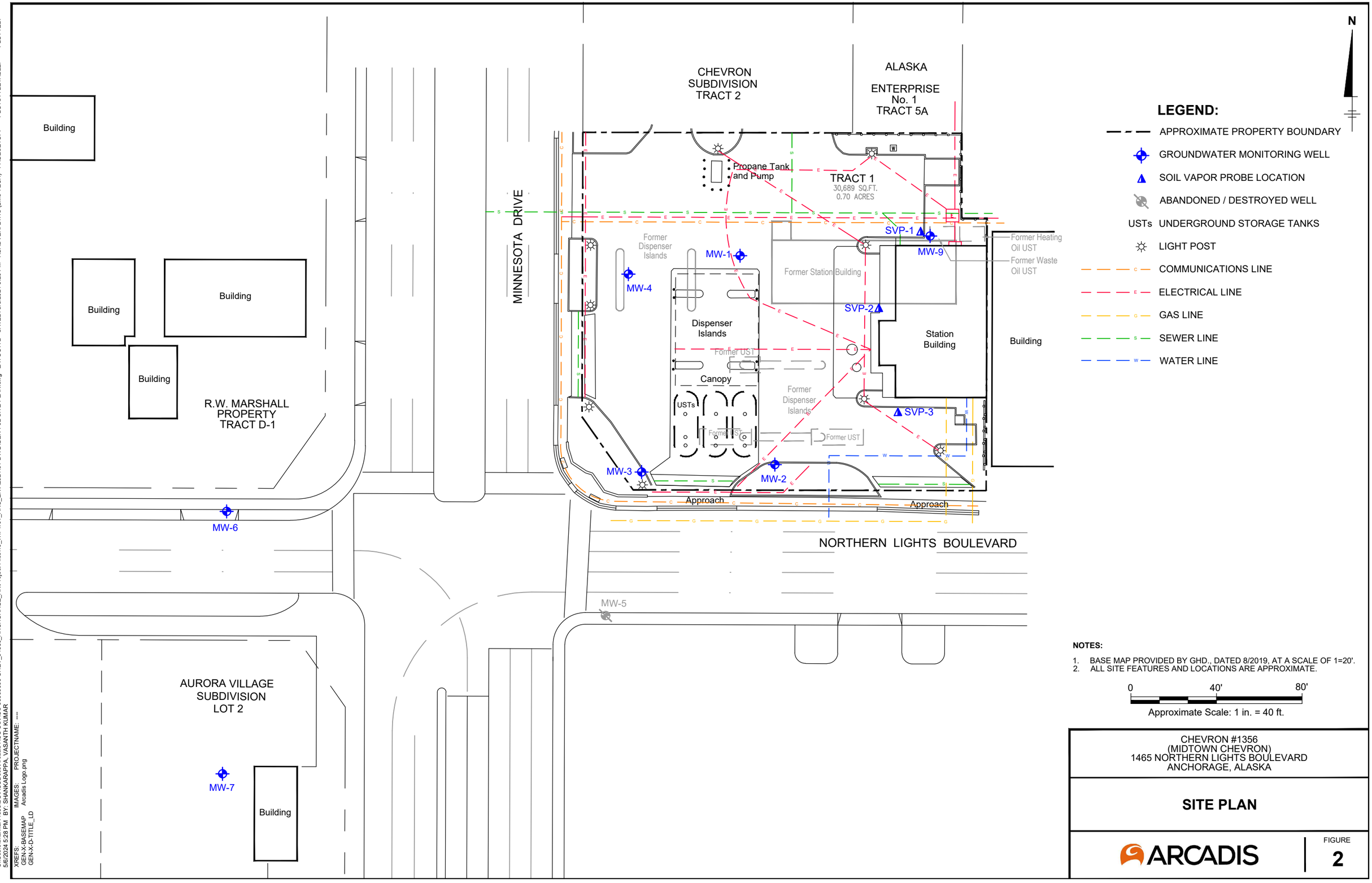


NOTES:

1. BASE MAP PROVIDED BY GHD., DATED 8/2019, AT A SCALE OF 1=20'.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.

0 40' 80'

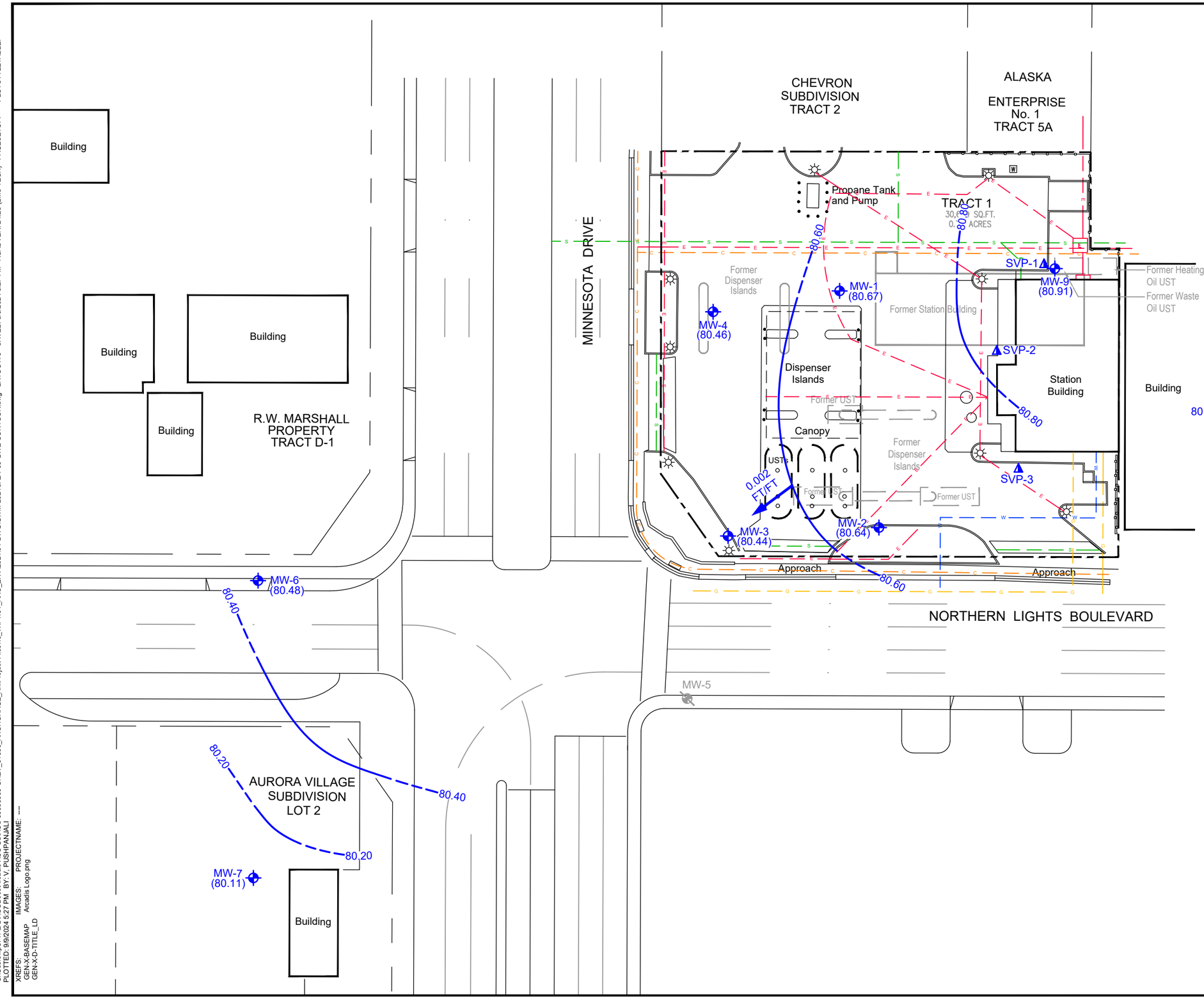
Approximate Scale: 1 in. = 40 ft.

CHEVRON #1356
(MIDTOWN CHEVRON)
1465 NORTHERN LIGHTS BOULEVARD
ANCHORAGE, ALASKA

SITE PLAN

ARCADIS

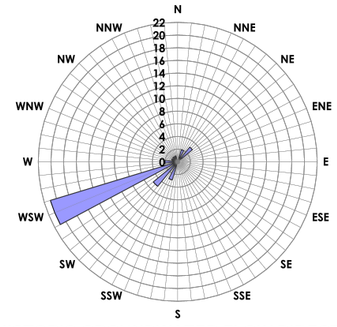
FIGURE
2



LEGEND:

- APPROXIMATE PROPERTY BOUNDARY
- GROUNDWATER MONITORING WELL
- SOIL VAPOR PROBE LOCATION
- ABANDONED / DESTROYED WELL
- USTs — UNDERGROUND STORAGE TANKS
- LIGHT POST
- COMMUNICATIONS LINE
- ELECTRICAL LINE
- GAS LINE
- SEWER LINE
- WATER LINE
- NAVD88 — NORTH AMERICAN VERTICAL DATUM OF 1988
- (80.91) — GROUNDWATER ELEVATION IN FEET RELATIVE TO NAVD88
- 80.80 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION
- 0.002 FT/FT — APPROXIMATE HYDRAULIC GRADIENT (FEET/FOOT)

N



HISTORIC GROUNDWATER FLOW DIRECTION

NOTES:

1. BASE MAP PROVIDED BY GHD., DATED 8/2019, AT A SCALE OF 1=20'.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.

0 40' 80'

Approximate Scale: 1 in. = 40 ft.

CHEVRON #1356
(MIDTOWN CHEVRON)
1465 NORTHERN LIGHTS BOULEVARD
ANCHORAGE, ALASKA

GROUNDWATER ELEVATION CONTOUR MAP AUGUST 7, 2024

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FIGURE 3

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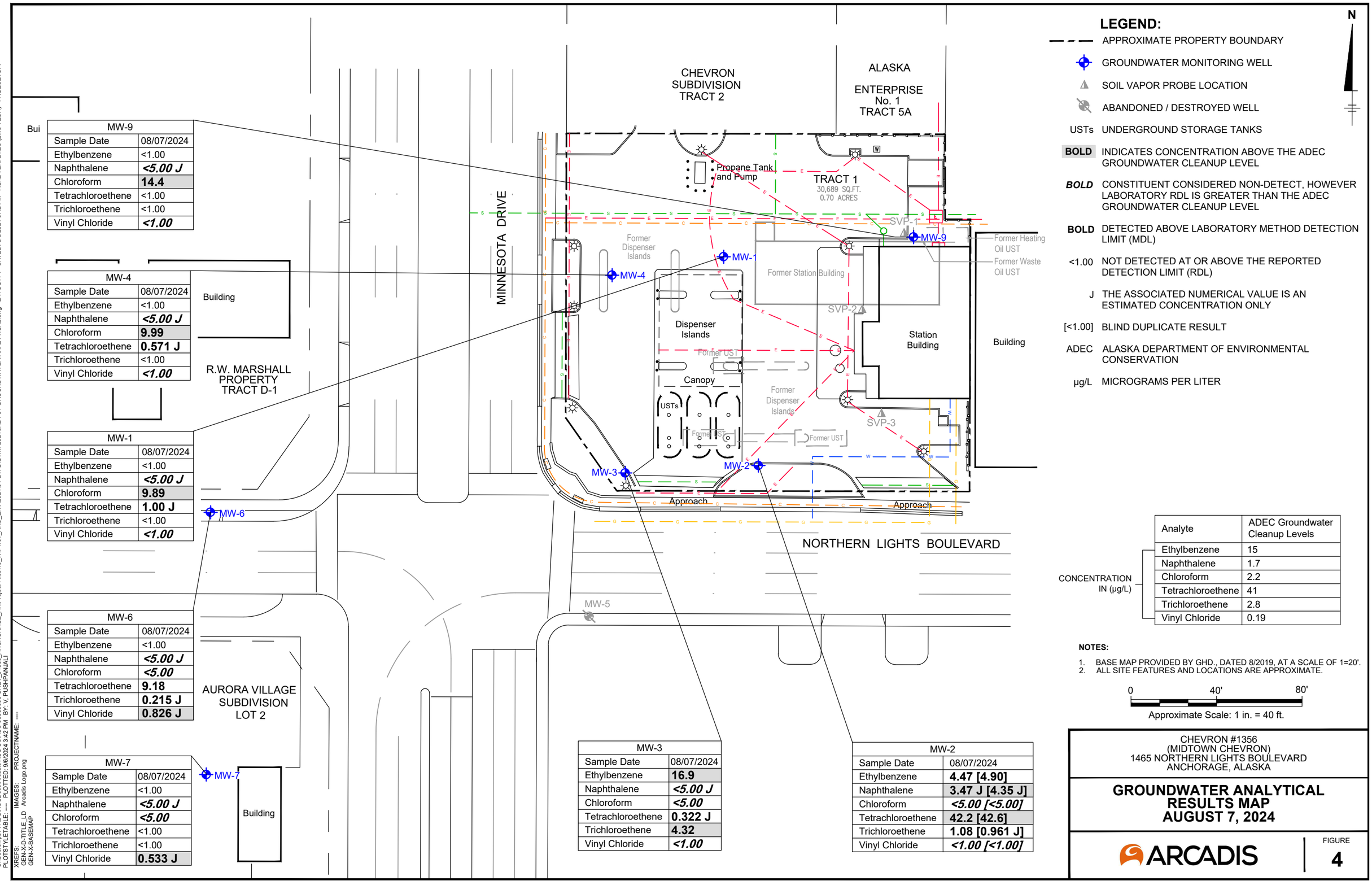

MW-9	
Sample Date	08/07/2024
Ethylbenzene	<1.00
Naphthalene	***<5.00 J***
Chloroform	**14.4**
Tetrachloroethene	<1.00
Trichloroethene	<1.00
Vinyl Chloride	***<1.00***

MW-4	
Sample Date	08/07/2024
Ethylbenzene	<1.00
Naphthalene	***<5.00 J***
Chloroform	**9.99**
Tetrachloroethene	**0.571 J**
Trichloroethene	<1.00
Vinyl Chloride	***<1.00***

MW-1	
Sample Date	08/07/2024
Ethylbenzene	<1.00
Naphthalene	***<5.00 J***
Chloroform	**9.89**
Tetrachloroethene	**1.00 J**
Trichloroethene	<1.00
Vinyl Chloride	***<1.00***

MW-6	
Sample Date	08/07/2024
Ethylbenzene	<1.00
Naphthalene	***<5.00 J***
Chloroform	***<5.00***
Tetrachloroethene	**9.18**
Trichloroethene	**0.215 J**
Vinyl Chloride	**0.826 J**

MW-7	
Sample Date	08/07/2024
Ethylbenzene	<1.00
Naphthalene	***<5.00 J***
Chloroform	***<5.00***
Tetrachloroethene	<1.00
Trichloroethene	<1.00
Vinyl Chloride	**0.533 J**

MW-3	
Sample Date	08/07/2024
Ethylbenzene	**16.9**
Naphthalene	***<5.00 J***
Chloroform	***<5.00***
Tetrachloroethene	**0.322 J**
Trichloroethene	**4.32**
Vinyl Chloride	***<1.00***

MW-2	
Sample Date	08/07/2024
Ethylbenzene	**4.47 [4.90]**
Naphthalene	**3.47 J [4.35 J]**
Chloroform	***<5.00 [<5.00]***
Tetrachloroethene	**42.2 [42.6]**
Trichloroethene	**1.08 [0.961 J]**
Vinyl Chloride	***<1.00 [<1.00]***

LEGEND:

- APPROXIMATE PROPERTY BOUNDARY
- GROUNDWATER MONITORING WELL
- SOIL VAPOR PROBE LOCATION
- ABANDONED / DESTROYED WELL
- USTs — UNDERGROUND STORAGE TANKS
- **BOLD** — INDICATES CONCENTRATION ABOVE THE ADEC GROUNDWATER CLEANUP LEVEL
- ***BOLD*** — CONSTITUENT CONSIDERED NON-DETECT, HOWEVER LABORATORY RDL IS GREATER THAN THE ADEC GROUNDWATER CLEANUP LEVEL
- **BOLD** — DETECTED ABOVE LABORATORY METHOD DETECTION LIMIT (MDL)
- <1.00 — NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT (RDL)
- J — THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY
- [<1.00] — BLIND DUPLICATE RESULT
- ADEC — ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
- µg/L — MICROGRAMS PER LITER

N

CONCENTRATION IN (µg/L)

Analyte	ADEC Groundwater Cleanup Levels
Ethylbenzene	15
Naphthalene	1.7
Chloroform	2.2
Tetrachloroethene	41
Trichloroethene	2.8
Vinyl Chloride	0.19

NOTES:

1. BASE MAP PROVIDED BY GHD., DATED 8/2019, AT A SCALE OF 1=20'.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.

0 40' 80'

Approximate Scale: 1 in. = 40 ft.

CHEVRON #1356
(MIDTOWN CHEVRON)
1465 NORTHERN LIGHTS BOULEVARD
ANCHORAGE, ALASKA

GROUNDWATER ANALYTICAL RESULTS MAP AUGUST 7, 2024

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FIGURE 4

Tables

Table 1
Groundwater Monitoring Schedule
Second Half 2024
Chevron #1356 (Midtown Chevron)
1465 West Northern Lights Boulevard,
Anchorage, Alaska

Well ID	Sample Schedule	Gauge	Sample	Comment
MW-1	Semi Annual	Y	Y	
MW-2	Semi Annual	Y	Y	
MW-3	Semi Annual	Y	Y	
MW-4	Semi Annual	Y	Y	
MW-6	Semi Annual	Y	Y	
MW-7	Semi Annual	Y	Y	
MW-9	Semi Annual	Y	Y	
BD-1	Semi Annual	N	Y	

Note:

Wells sampled for the following volatile organic compounds by United States Environmental Protection Agency (USEPA) Method 8260D: benzene, toluene, ethylbenzene, total xylenes, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, chloroform, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene and vinyl chloride.

Table 2
Current Groundwater Gauging and Primary Analytical Results
Second Half 2024
Chevron #1356 (Midtown Chevron)
1465 West Northern Lights Boulevard,
Anchorage, Alaska

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Well ID	Sample Date	TOC (feet bTOC)	DTW (feet bTOC)	GW Elev. (feet)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Chloroform	cis-1,2-Dichloroethene (cis-1,2-Dichloroethylene)	Tetrachloroethene (Tetrachloroethylene)	Trichloroethene (Trichloroethylene)	Vinyl Chloride	Comments
ADEC Groundwater Cleanup Levels					**4.6**	**1,100**	**15**	**190**	**1.7**	**56**	**60**	**2.2**	**36**	**41**	**2.8**	**0.19**	
MW-1	08/07/24	95.92	15.25	80.67	<1.00	<1.00	<1.00	<3.00	***<5.00 J***	<1.00	<1.00	**9.89**	<1.00	**1.00 J**	<1.00	***<1.00***	
MW-2	08/07/24	94.64	14.00	80.64	<1.00	<1.00	**4.47**	**3.05**	**3.47 J**	**19.0**	**1.40**	***<5.00***	<1.00	**42.2**	**1.08**	***<1.00***	
Dplicate (MW-2)	08/07/24	--	--	--	<1.00	<1.00	**4.90**	**3.87**	**4.35 J**	**23.2**	**1.76**	***<5.00***	<1.00	**42.6**	**0.961 J**	***<1.00***	
MW-3	08/07/24	93.59	13.15	80.44	**1.70**	**0.429 J**	**16.9**	**0.951 J**	***<5.00 J***	**8.02**	**0.188 J**	***<5.00***	**7.78**	**0.322 J**	**4.32**	***<1.00***	
MW-4	08/07/24	94.74	14.28	80.46	<1.00	<1.00	<1.00	<3.00	***<5.00 J***	<1.00	<1.00	**9.99**	<1.00	**0.571 J**	<1.00	***<1.00***	
MW-6	08/07/24	92.88	12.40	80.48	**0.297 J**	<1.00	<1.00	<3.00	***<5.00 J***	<1.00	<1.00	***<5.00***	**1.28**	**9.18**	**0.215 J**	**0.826 J**	
MW-7	08/07/24	91.68	11.57	80.11	<1.00	<1.00	<1.00	<3.00	***<5.00 J***	<1.00	<1.00	***<5.00***	<1.00	<1.00	<1.00	**0.533 J**	
MW-9	08/07/24	96.14	15.23	80.91	<1.00	<1.00	<1.00	<3.00	***<5.00 J***	<1.00	<1.00	**14.4**	<1.00	<1.00	<1.00	***<1.00***	

Notes

1. Select VOCs analyzed by USEPA Method 8260D.
2. All concentration are reported in micrograms per liter.

Bold = Detected above laboratory method detection limit (MDL)
Bold and *Italicized* = Constituent considered non-detect, however Laboratory RDL is greater than the ADEC Groundwater Cleanup Level
Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level
feet = Relative to NAVD88 for TOC and GW Elevation

Acronyms and Abbreviations:

-- = Not Available or Not Analyzed
Duplicate = Blind Duplicate Sample Result
<1.00 = Not detected at or above the reported detection limit (RDL)
µg/L = Micrograms per liter
ADEC = Alaska Department of Environmental Conservation
bTOC = Below top of casing
DTW = Depth to groundwater
GW Elev. = Groundwater elevation
ID = Identification
J = The associated numerical value is an estimated concentration only
MW = Groundwater monitoring well
NAVD 88 = North American Vertical Datum of 1988
RDL = Reporting detection limit
TOC = Top of casing
USEPA = U.S. Environmental Protection Agency
VOCs = Volatile organic compounds

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

Table 3
Historical Groundwater Gauging and Primary Analytical Results
First Half 2023 through Second Half 2024
Chevron #1356 (Midtown Chevron)
1465 West Northern Lights Boulevard,
Anchorage, Alaska

Well ID	Sample Date	TOC (ft bTOC)	DTW (feet bTOC)	GW Elev. (feet)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Chloroform	cis-1,2-Dichloroethene (cis-1,2-Dichloroethylene)	Tetrachloroethene (Tetrachloroethylene)	Trichloroethene (Trichloroethylene)	Vinyl Chloride	Comments
ADEC Groundwater Cleanup Levels					4.6	1,100	15	190	1.7	56	60	2.2	36	41	2.8	0.19	
MW-1	04/13/23	95.92	16.26	79.66	<1.00	<1.00	<1.00	<3.00	***<5.00***	<1.00	<1.00	8.04	<1.00	0.916 J	<1.00	***<1.00***	
MW-1	09/14/23	95.92	14.94	80.98	<1.00	<1.00	<1.00	<3.00	***<5.00***	<1.00	<1.00	9.04	<1.00	1.04	<1.00	***<1.00***	
MW-1	04/05/24	95.92	15.77	80.15	<1.00	0.696 J	<1.00	<3.00	***<5.00 J***	<1.00	<1.00	9.59	<1.00	1.02	<1.00	***<1.00***	
MW-1	08/07/24	95.92	15.25	80.67	<1.00	<1.00	<1.00	<3.00	***<5.00 J***	<1.00	<1.00	9.89	<1.00	1.00 J	<1.00	***<1.00***	
MW-2	04/13/23	94.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Could not locate due to snow berms
MW-2	09/14/23	94.64	13.85	80.79	<1.00	<1.00	<1.00	<3.00	***<5.00***	<1.00	<1.00	***<5.00 B***	<1.00	38.8	0.830 J	***<1.00***	
MW-2	04/05/24	94.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Could not locate due to snow berms
MW-2	08/07/24	94.64	14.00	80.64	<1.00	<1.00	4.47	3.05	3.47 J	19.0	1.40	***<5.00***	<1.00	42.2	1.08	***<1.00***	
Duplicate (MW-2)	08/07/24	--	--	--	<1.00	<1.00	4.90	3.87	4.35 J	23.2	1.76	***<5.00***	<1.00	42.6	0.961 J	***<1.00***	
MW-3	04/13/23	93.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Could not locate due to snow berms
MW-3	09/14/23	93.59	12.89	80.70	1.75	0.442 J	14.7	8.15	1.50 J	19.0	0.544 J	***<5.00***	3.54	1.96	3.61	***<1.00***	
MW-3	04/05/24	93.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Could not locate due to snow berms
MW-3	08/07/24	93.59	13.15	80.44	1.70	0.429 J	16.9	0.951 J	***<5.00 J***	8.02	0.188 J	***<5.00***	7.78	0.322 J	4.32	***<1.00***	
MW-4	04/13/23	94.74	15.09	79.65	<1.00	<1.00	<1.00	<3.00	***<5.00***	<1.00	<1.00	8.59	<1.00	0.471 J	<1.00	***<1.00***	
MW-4	09/14/23	94.74	14.04	80.70	<1.00	<1.00	<1.00	<3.00	***<5.00***	<1.00	<1.00	9.44	<1.00	0.706 J	<1.00	***<1.00***	
Duplicate (MW-4)	09/14/23	94.74	14.04	80.70	<1.00	<1.00	<1.00	<3.00	***<5.00***	<1.00	<1.00	8.54	<1.00	0.631 J	<1.00	***<1.00***	
MW-4	04/05/24	94.74	14.80	79.94	<1.00	0.762 J	<1.00	<3.00	***<5.00 J***	<1.00	<1.00	9.02	<1.00	0.676 J	<1.00	***<1.00***	
Duplicate (MW-4)	04/05/24	--	--	--	<1.00	0.698 J	<1.00	<3.00	***<5.00 J***	<1.00	<1.00	8.79	<1.00	0.555 J	<1.00	***<1.00***	
MW-4	08/07/24	94.74	14.28	80.46	<1.00	<1.00	<1.00	<3.00	***<5.00 J***	<1.00	<1.00	9.99	<1.00	0.571 J	<1.00	***<1.00***	
MW-6	04/13/23	92.88	13.58	79.30	0.163 J	<1.00	<1.00	<3.00	***<5.00***	<1.00	<1.00	***<5.00 B***	1.05	5.44	<1.00	0.350 J	
MW-6	09/14/23	92.88	12.35	80.53	0.145 J	<1.00	<1.00	<3.00	***<5.00***	<1.00	<1.00	***<5.00***	0.825 J	5.47	<1.00	***<1.00***	
MW-6	04/05/24	92.88	13.32	79.56	0.421 J	0.836 J	<1.00	<3.00	***<5.00 J***	<1.00	<1.00	***<5.00***	1.57	8.55	<1.00	0.516 J	
MW-6	08/07/24	92.88	12.40	80.48	0.297 J	<1.00	<1.00	<3.00	***<5.00 J***	<1.00	<1.00	***<5.00***	1.28	9.18	0.215 J	0.826 J	
MW-7	04/13/23	91.68	12.58	79.10	<1.00	<1.00	<1.00	<3.00	***<5.00***	<1.00	<1.00	***<5.00***	<1.00	<1.00	<1.00	***<1.00***	
MW-7	09/14/23	91.68	11.30	80.38	<1.00	<1.00	<1.00	<3.00	***<5.00***	<1.00	<1.00	***<5.00***	<1.00	<1.00	<1.00	***<1.00***	
MW-7	04/05/24	91.68	12.35	79.33	<1.00	0.590 J	<1.00	<3.00	***<5.00 J***	<1.00	<1.00	***<5.00***	<1.00	<1.00	<1.00	***<1.00***	
MW-7	08/07/24	91.68	11.57	80.11	<1.00	<1.00	<1.00	<3.00	***<5.00 J***	<1.00	<1.00	***<5.00***	<1.00	<1.00	<1.00	0.533 J	
MW-9	04/13/23	96.14	16.04	80.10	<1.00	<1.00	<1.00	<3.00	***<5.00***	<1.00	<1.00	11.7	<1.00	<1.00	<1.00	***<1.00***	
Duplicate (MW-9)	04/13/23	96.14	16.04	80.10	<1.00	<1.00	<1.00	<3.00	***<5.00 J***	<1.00	<1.00	11.8	<1.00	<1.00	<1.00	***<1.00***	
MW-9	09/14/23	96.14	14.75	81.39	<1.00	<1.00	<1.00	<3.00	***<5.00***	<1.00	<1.00	11.5	<1.00	0.303 J	<1.00	***<1.00***	
MW-9	04/05/24	96.14	15.74	80.40	<1.00	0.765 J	<1.00	<3.00	***<5.00 J***	<1.00	<1.00	14.4	<1.00	<1.00	<1.00	***<1.00***	
MW-9	08/07/24	96.14	15.23	80.91	<1.00	<1.00	<1.00	<3.00	***<5.00 J***	<1.00	<1.00	14.4	<1.00	<1.00	<1.00	***<1.00***	

Please refer to the final page of the table for the notes section

Table 3 Notes
Historical Groundwater Gauging and Primary Analytical Results
First Half 2023 through Second Half 2024
Chevron #1356 (Midtown Chevron)
1465 West Northern Lights Boulevard,
Anchorage, Alaska

Notes:

1. Select VOCs analyzed by USEPA Method 8260D.
2. All concentration are reported in micrograms per liter.

Bold = Detected above laboratory method detection limit (MDL)
Bold and *Italicized* = Constituent considered non-detect, however Laboratory RDL is greater than the ADEC Groundwater Cleanup Level
Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level
feet = Relative to NAVD88 for TOC and GW Elevation

Acronyms and Abbreviations:

-- = Not Available or Not Analyzed
Duplicate = Blind Duplicate Sample Result
<1.00 = Not detected at or above the reported detection limit (RDL)
µg/L = Micrograms per liter
ADEC = Alaska Department of Environmental Conservation
B = The same analyte is found in the associated blank
bTOC = Below top of casing
D = The diluted result were reported and qualified as being reported at a dilution
DTW = Depth to groundwater
GW Elev. = Groundwater elevation
ID = Identification
J = The associated numerical value is an estimated concentration only
MW = Groundwater monitoring well
NAVD 88 = North American Vertical Datum of 1988
RDL = Reporting detection limit
TOC = Top of casing
USEPA = U.S. Environmental Protection Agency
VOCs = Volatile organic compounds

Reference:

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

Attachment A

Field Notes

Daily Log

Project Number : 30063666

Prepared By: Evan Wujcik

Site ID: 91356

Site Name: Midtown Chevron

City: Anchorage

State: Alaska

Project Manager: Settle, Jill

Portfolio: COP 3.0

Subportfolio: West

Inside Chevron Operational Control? Yes ☐ No ☑

Staff on Site
Evan Wujcik

Weather(°F)	PPE	Equipment
MIST, T:55.71 °F, rH:96%, Clouds: 100%, Wind:5.75mph W-SW		Water Quality Meter (i.e. YSI), Water Level Meter (WLM), Bladder Pump, Photoionization Detector (PID)

Date	Time	Description of Activities
08/07/2024	6:00	Arrive on site Locate Wells
08/07/2024	7:00	Sample MW6 Decon equipment See COC for analysis
08/07/2024	7:45	Sample MW1 Decon equipment See COC for analysis
08/07/2024	8:30	Sample MW4 Decon equipment See COC for analysis
08/07/2024	9:15	Sample MW9 Decon equipment See COC for analysis
08/07/2024	10:00	Sample MW7 Decon equipment See COC for analysis
08/07/2024	10:45	Sample MW2 BD/MSD/MSD samples collected from this location Decon equipment See COC for analysis
08/07/2024	11:30	Sample MW3 Decon equipment See COC for analysis
08/07/2024	12:30	Load vehicle Mobilize offsite

Daily Log

Signature

Groundwater Gauging Log

Project Number	30063666
Client:	Chevron
Site ID:	91356
Site Location:	Anchorage, Alaska
Measuring Point:	Top of Casing
Date(s):	08/07/2024
Sampler(s):	Evan Wujcik
Gauging Equipment:	Water Level Meter

Well ID	Date	Gauging Time	Static Water Level (ft bmp)	Depth to Product (ft bmp)	Total Depth (ft bmp)	PID Reading (ppm)	LNAPL Removed (gal)	Comments
MW-1	08/07/2024	05:59	15.25	ND	22.20	0	--	--
MW-2	08/07/2024	06:50	14.00	ND	23.30	0	--	--
MW-3	08/07/2024	06:12	13.15	ND	22.50	0	--	--
MW-4	08/07/2024	06:19	14.28	ND	24.20	0	--	--
MW-6	08/07/2024	06:06	12.40	ND	19.70	0	--	--
MW-7	08/07/2024	06:47	11.57	ND	24.20	0	--	--
MW-9	08/07/2024	06:33	15.23	ND	26.60	0	--	--

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

ppm = parts per million -- = Not Recorded

Chevron Groundwater Sampling Form

ARCADIS

Project Number	30063666	**Well ID**	MW-7	**Date**	8/7/2024		
Site Location	Anchorage, Alaska	**Site ID**	91356	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	Top of Casing	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	11.57	**Total Depth (ft-bmp)**	24.2	**Water Column (ft)**	12.63	**Gallons in Well**	2.05
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Collection Type**			Grab

Sample Time	10:00	**Well Volumes Purged**	0.31	**Sample ID**	MW-7-W-20240807	**Purge Equipment**	Bladder
Purge Start	09:30	**Gallons Purged**	0.63	**Duplicate ID**	--	**Sample Equipment**	Bladder
Purge End	09:50	**Total Purge Time (h:m)**	0:20				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
09:33	200	11.58	6.55	0.870	0.0	0.78	10.10	21	--
09:36	200	11.59	6.55	0.860	0.0	0.66	9.90	23	--
09:39	200	11.6	6.55	0.840	0.0	0.57	9.80	24	--
09:42	200	11.6	6.54	0.840	0.0	0.51	9.80	25	--

Comments: None

Well Casing Volume Conversion

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

Sample Information

Sample ID:	MW-7-W-20240807	Sample Time:	10:00	Sample Depth (ft-bmp) (e.g. pump intake):	12
Analytes and Methods:	See Chain-of-Custody.			Depth to Water at Time of Sampling	11.6

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

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

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

Chevron Groundwater Sampling Form

ARCADIS

Project Number	30063666	**Well ID**	MW-6	**Date**	8/7/2024		
Site Location	Anchorage, Alaska	**Site ID**	91356	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	Top of Casing	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	12.4	**Total Depth (ft-bmp)**	19.7	**Water Column (ft)**	7.3	**Gallons in Well**	1.19
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Collection Type**		Grab	

Sample Time	07:45	**Well Volumes Purged**	0.53	**Sample ID**	MW-6-W-20240807	**Purge Equipment**	Bladder
Purge Start	07:20	**Gallons Purged**	0.63	**Duplicate ID**	--	**Sample Equipment**	Bladder
Purge End	07:40	**Total Purge Time (h:m)**	0:20				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
07:23	200	12.41	6.51	1.67	0.0	1.60	10.50	-39	--
07:26	200	12.42	6.32	1.47	0.0	1.17	9.90	-22	--
07:29	200	12.42	6.29	1.44	0.0	1.16	9.60	-20	--
07:32	200	12.42	6.28	1.42	0.0	1.13	9.50	-15	--

Comments: None

Well Casing Volume Conversion

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

Sample Information

Sample ID:	MW-6-W-20240807	Sample Time:	07:45	Sample Depth (ft-bmp) (e.g. pump intake):	13
Analytes and Methods:	See Chain-of-Custody.			Depth to Water at Time of Sampling	12.42

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

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

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

Chevron Groundwater Sampling Form

ARCADIS

Project Number	30063666	**Well ID**	MW-3	**Date**	8/7/2024		
Site Location	Anchorage, Alaska	**Site ID**	91356	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	Top of Casing	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	13.15	**Total Depth (ft-bmp)**	22.5	**Water Column (ft)**	9.35	**Gallons in Well**	1.52
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Collection Type**		Grab	
Sample Time	11:30	**Well Volumes Purged**	0.52	**Sample ID**	MW-3-W-20240807	**Purge Equipment**	Bladder
Purge Start	11:00	**Gallons Purged**	0.79	**Duplicate ID**	--	**Sample Equipment**	Bladder
Purge End	11:20	**Total Purge Time (h:m)**	0:20				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
11:03	200	13.15	6.78	2.91	0.0	1.15	11.00	10	--
11:06	200	13.16	6.84	2.72	0.0	2.72	10.80	-10	--
11:09	200	13.16	6.87	2.61	0.0	0.83	10.70	-14	--
11:12	200	13.16	6.87	2.56	0.0	0.69	10.60	-18	--
11:15	200	13.16	6.88	2.55	0.0	0.76	10.50	-22	--

Comments: None

Well Casing Volume Conversion

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

Sample Information

Sample ID: MW-3-W-20240807 Sample Time: 11:30 Sample Depth (ft-bmp) (e.g. pump intake): 13.5

Analytes and Methods: See Chain-of-Custody. Depth to Water at Time of Sampling 13.16

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

Chevron Groundwater Sampling Form

ARCADIS

Project Number	30063666	**Well ID**	MW-9	**Date**	8/7/2024		
Site Location	Anchorage, Alaska	**Site ID**	91356	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	Top of Casing	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	15.23	**Total Depth (ft-bmp)**	26.6	**Water Column (ft)**	11.37	**Gallons in Well**	1.85
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Collection Type**		Grab	

Sample Time	09:15	**Well Volumes Purged**	0.34	**Sample ID**	MW-9-W-20240807	**Purge Equipment**	Bladder
Purge Start	08:50	**Gallons Purged**	0.63	**Duplicate ID**	--	**Sample Equipment**	Bladder
Purge End	09:10	**Total Purge Time (h:m)**	0:20				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
08:53	200	15.23	6.51	0.403	0.0	6.32	11.30	190	--
08:56	200	15.25	6.53	0.265	0.0	5.80	10.90	188	--
08:59	200	15.26	6.49	0.245	0.0	5.86	10.60	185	--
09:02	200	15.27	6.48	0.244	0.0	5.89	10.60	183	--

Comments: None

Well Casing Volume Conversion

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

Sample Information

Sample ID:	MW-9-W-20240807	Sample Time:	09:15	Sample Depth (ft-bmp) (e.g. pump intake):	16
Analytes and Methods:	See Chain-of-Custody.			Depth to Water at Time of Sampling	15.27

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

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

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

Chevron Groundwater Sampling Form

ARCADIS

Project Number	30063666	**Well ID**	MW-4	**Date**	8/7/2024		
Site Location	Anchorage, Alaska	**Site ID**	91356	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	Top of Casing	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	14.28	**Total Depth (ft-bmp)**	24.2	**Water Column (ft)**	9.92	**Gallons in Well**	1.61
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Collection Type**			Grab

Sample Time	08:30	**Well Volumes Purged**	0.39	**Sample ID**	MW-4-W-20240807	**Purge Equipment**	Bladder
Purge Start	08:00	**Gallons Purged**	0.63	**Duplicate ID**	--	**Sample Equipment**	Bladder
Purge End	08:20	**Total Purge Time (h:m)**	0:20				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
08:03	200	14.28	6.18	0.910	0.0	5.92	10.70	218	--
08:06	200	14.29	6.20	1.02	0.0	6.55	10.00	213	--
08:09	200	14.3	6.22	1.03	0.0	6.90	9.90	209	--
08:12	200	14.3	6.22	1.03	0.0	6.79	9.80	206	--

Comments: None

Well Casing Volume Conversion

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

Sample Information

Sample ID:	MW-4-W-20240807	Sample Time:	08:30	Sample Depth (ft-bmp) (e.g. pump intake):	15
Analytes and Methods:	See Chain-of-Custody.			Depth to Water at Time of Sampling	14.3

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

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

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

Chevron Groundwater Sampling Form

ARCADIS

Project Number	30063666	**Well ID**	MW-1	**Date**	8/7/2024		
Site Location	Anchorage, Alaska	**Site ID**	91356	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	Top of Casing	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	15.25	**Total Depth (ft-bmp)**	22.2	**Water Column (ft)**	6.95	**Gallons in Well**	1.13
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Collection Type**			Grab

Sample Time	07:00	**Well Volumes Purged**	0.56	**Sample ID**	MW-1-W-20240807	**Purge Equipment**	Bladder
Purge Start	06:30	**Gallons Purged**	0.63	**Duplicate ID**	--	**Sample Equipment**	Bladder
Purge End	06:50	**Total Purge Time (h:m)**	0:20				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
06:33	200	15.25	5.45	0.442	0.0	5.97	10.90	228	--
06:36	200	15.26	6.04	0.433	0.0	5.46	10.60	216	--
06:39	200	15.27	6.14	0.433	0.0	5.35	10.50	209	--
06:42	200	15.27	6.16	0.434	0.0	5.37	10.40	205	--

Comments: None

Well Casing Volume Conversion

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

Sample Information

Sample ID:	MW-1-W-20240807	Sample Time:	07:00	Sample Depth (ft-bmp) (e.g. pump intake):	16
Analytes and Methods:	See Chain-of-Custody.			Depth to Water at Time of Sampling	15.27

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

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

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

Chevron Groundwater Sampling Form

ARCADIS

Project Number	30063666	**Well ID**	MW-2	**Date**	8/7/2024		
Site Location	Anchorage, Alaska	**Site ID**	91356	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	Top of Casing	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	14	**Total Depth (ft-bmp)**	23.3	**Water Column (ft)**	9.3	**Gallons in Well**	1.51
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Collection Type**		Grab	

Sample Time	10:45	**Well Volumes Purged**	0.52	**Sample ID**	MW-2-W-20240807	**Purge Equipment**	Bladder
Purge Start	10:20	**Gallons Purged**	0.79	**Duplicate ID**	BD/MS/MSD	**Sample Equipment**	Bladder
Purge End	10:40	**Total Purge Time (h:m)**	0:20				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
10:23	200	14	6.12	6.26	0.0	3.43	11.40	187	--
10:26	200	14.01	6.14	6.45	0.0	2.47	11.20	175	--
10:29	200	14.02	6.17	6.28	0.0	1.88	11.20	170	--
10:32	200	14.03	6.19	6.18	0.0	1.83	11.20	166	--
10:35	200	14.02	6.19	6.12	0.0	1.76	11.20	162	--

Comments: None

Well Casing Volume Conversion

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

Sample Information

Sample ID: MW-2-W-20240807 Sample Time: 10:45 Sample Depth (ft-bmp) (e.g. pump intake): 14.5

Analytes and Methods: See Chain-of-Custody. Depth to Water at Time of Sampling 14.03

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

Attachment B

Laboratory Analytical Results

ANALYTICAL REPORT

August 15, 2024

Arcadis - Chevron - AK

Sample Delivery Group:	L1765404
Samples Received:	08/08/2024
Project Number:	30063666.19.45
Description:	91356
Site:	1465 W NORTHERN LIGHTS BLVD
Report To:	Jill Settle 880 H St. Anchorage, AK 99501

Entire Report Reviewed By:

Brian Ford

Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

MW-1-W-20240807 L1765404-01 GW

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

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2341281	1	08/12/24 20:20	08/12/24 20:20	JCP	Mt. Juliet, TN

MW-2-W-20240807 L1765404-02 GW

Collected by: E. Wujcik | Collected date/time: 08/07/24 10:45 | Received date/time: 08/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2341281	1	08/12/24 20:42	08/12/24 20:42	JCP	Mt. Juliet, TN

MW-3-W-20240807 L1765404-03 GW

Collected by: E. Wujcik | Collected date/time: 08/07/24 11:30 | Received date/time: 08/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2341281	1	08/12/24 21:04	08/12/24 21:04	JCP	Mt. Juliet, TN

MW-4-W-20240807 L1765404-04 GW

Collected by: E. Wujcik | Collected date/time: 08/07/24 08:30 | Received date/time: 08/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2341281	1	08/12/24 21:26	08/12/24 21:26	JCP	Mt. Juliet, TN

MW-6-W-20240807 L1765404-05 GW

Collected by: E. Wujcik | Collected date/time: 08/07/24 07:45 | Received date/time: 08/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2341281	1	08/12/24 21:48	08/12/24 21:48	JCP	Mt. Juliet, TN

MW-7-W-20240807 L1765404-06 GW

Collected by: E. Wujcik | Collected date/time: 08/07/24 10:00 | Received date/time: 08/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2341281	1	08/12/24 22:10	08/12/24 22:10	JCP	Mt. Juliet, TN

MW-9-W-20240807 L1765404-07 GW

Collected by: E. Wujcik | Collected date/time: 08/07/24 09:15 | Received date/time: 08/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2341281	1	08/12/24 22:32	08/12/24 22:32	JCP	Mt. Juliet, TN

BD-1-W-20240807 L1765404-08 GW

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

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2341281	1	08/12/24 22:54	08/12/24 22:54	JCP	Mt. Juliet, TN

SAMPLE SUMMARY

EQB-1-W-20240807 L1765404-09 GW

Collected by: E. Wujcik
Collected date/time: 08/07/24 12:00
Received date/time: 08/08/24 09:00

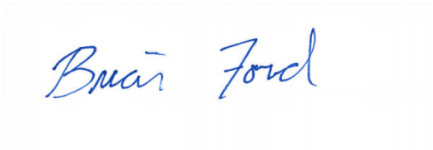
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2341281	1	08/12/24 23:16	08/12/24 23:16	JCP	Mt. Juliet, TN

TRIP BLANK-20240807 L1765404-10 GW

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

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2341281	1	08/12/24 19:37	08/12/24 19:37	JCP	Mt. Juliet, TN

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



Brian Ford
Project Manager

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

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

Batch	Lab Sample ID	Analytes
WG2341281	L1765404-01	Naphthalene
WG2341281	L1765404-02	Naphthalene
WG2341281	L1765404-03	Naphthalene
WG2341281	L1765404-04	Naphthalene
WG2341281	L1765404-05	Naphthalene
WG2341281	L1765404-06	Naphthalene
WG2341281	L1765404-07	Naphthalene
WG2341281	L1765404-08	Naphthalene
WG2341281	L1765404-09	Naphthalene
WG2341281	L1765404-10	Naphthalene

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/12/2024 20:20	WG2341281
Chloroform	9.89		0.111	5.00	1	08/12/2024 20:20	WG2341281
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/12/2024 20:20	WG2341281
Ethylbenzene	U		0.137	1.00	1	08/12/2024 20:20	WG2341281
Naphthalene	U	C3	1.00	5.00	1	08/12/2024 20:20	WG2341281
Tetrachloroethene	1.00	J	0.300	1.00	1	08/12/2024 20:20	WG2341281
Toluene	U		0.278	1.00	1	08/12/2024 20:20	WG2341281
Trichloroethene	U		0.190	1.00	1	08/12/2024 20:20	WG2341281
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/12/2024 20:20	WG2341281
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/12/2024 20:20	WG2341281
Vinyl chloride	U		0.234	1.00	1	08/12/2024 20:20	WG2341281
Xylenes, Total	U		0.174	3.00	1	08/12/2024 20:20	WG2341281
o-Xylene	U		0.174	1.00	1	08/12/2024 20:20	WG2341281
m&p-Xylene	U		0.430	2.00	1	08/12/2024 20:20	WG2341281
(S) Toluene-d8	*93.0*			*80.0-120*		*08/12/2024 20:20*	WG2341281
(S) 4-Bromofluorobenzene	*90.1*			*77.0-126*		*08/12/2024 20:20*	WG2341281
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*08/12/2024 20:20*	WG2341281

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/12/2024 20:42	WG2341281
Chloroform	U		0.111	5.00	1	08/12/2024 20:42	WG2341281
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/12/2024 20:42	WG2341281
Ethylbenzene	4.47		0.137	1.00	1	08/12/2024 20:42	WG2341281
Naphthalene	3.47	C3 J	1.00	5.00	1	08/12/2024 20:42	WG2341281
Tetrachloroethene	42.2		0.300	1.00	1	08/12/2024 20:42	WG2341281
Toluene	U		0.278	1.00	1	08/12/2024 20:42	WG2341281
Trichloroethene	1.08		0.190	1.00	1	08/12/2024 20:42	WG2341281
1,2,4-Trimethylbenzene	19.0		0.322	1.00	1	08/12/2024 20:42	WG2341281
1,3,5-Trimethylbenzene	1.40		0.104	1.00	1	08/12/2024 20:42	WG2341281
Vinyl chloride	U		0.234	1.00	1	08/12/2024 20:42	WG2341281
Xylenes, Total	3.05		0.174	3.00	1	08/12/2024 20:42	WG2341281
o-Xylene	0.261	J	0.174	1.00	1	08/12/2024 20:42	WG2341281
m&p-Xylene	2.79		0.430	2.00	1	08/12/2024 20:42	WG2341281
(S) Toluene-d8	*96.8*			*80.0-120*		*08/12/2024 20:42*	WG2341281
(S) 4-Bromofluorobenzene	*90.8*			*77.0-126*		*08/12/2024 20:42*	WG2341281
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*08/12/2024 20:42*	WG2341281

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	1.70		0.0941	1.00	1	08/12/2024 21:04	WG2341281
Chloroform	U		0.111	5.00	1	08/12/2024 21:04	WG2341281
cis-1,2-Dichloroethene	7.78		0.126	1.00	1	08/12/2024 21:04	WG2341281
Ethylbenzene	16.9		0.137	1.00	1	08/12/2024 21:04	WG2341281
Naphthalene	U	C3	1.00	5.00	1	08/12/2024 21:04	WG2341281
Tetrachloroethene	0.322	J	0.300	1.00	1	08/12/2024 21:04	WG2341281
Toluene	0.429	J	0.278	1.00	1	08/12/2024 21:04	WG2341281
Trichloroethene	4.32		0.190	1.00	1	08/12/2024 21:04	WG2341281
1,2,4-Trimethylbenzene	8.02		0.322	1.00	1	08/12/2024 21:04	WG2341281
1,3,5-Trimethylbenzene	0.188	J	0.104	1.00	1	08/12/2024 21:04	WG2341281
Vinyl chloride	U		0.234	1.00	1	08/12/2024 21:04	WG2341281
Xylenes, Total	0.951	J	0.174	3.00	1	08/12/2024 21:04	WG2341281
o-Xylene	U		0.174	1.00	1	08/12/2024 21:04	WG2341281
m&p-Xylene	0.951	J	0.430	2.00	1	08/12/2024 21:04	WG2341281
(S) Toluene-d8	*94.4*			*80.0-120*		*08/12/2024 21:04*	WG2341281
(S) 4-Bromofluorobenzene	*95.4*			*77.0-126*		*08/12/2024 21:04*	WG2341281
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*08/12/2024 21:04*	WG2341281

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/12/2024 21:26	WG2341281
Chloroform	9.99		0.111	5.00	1	08/12/2024 21:26	WG2341281
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/12/2024 21:26	WG2341281
Ethylbenzene	U		0.137	1.00	1	08/12/2024 21:26	WG2341281
Naphthalene	U	C3	1.00	5.00	1	08/12/2024 21:26	WG2341281
Tetrachloroethene	0.571	J	0.300	1.00	1	08/12/2024 21:26	WG2341281
Toluene	U		0.278	1.00	1	08/12/2024 21:26	WG2341281
Trichloroethene	U		0.190	1.00	1	08/12/2024 21:26	WG2341281
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/12/2024 21:26	WG2341281
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/12/2024 21:26	WG2341281
Vinyl chloride	U		0.234	1.00	1	08/12/2024 21:26	WG2341281
Xylenes, Total	U		0.174	3.00	1	08/12/2024 21:26	WG2341281
o-Xylene	U		0.174	1.00	1	08/12/2024 21:26	WG2341281
m&p-Xylene	U		0.430	2.00	1	08/12/2024 21:26	WG2341281
(S) Toluene-d8	*91.9*			*80.0-120*		*08/12/2024 21:26*	WG2341281
(S) 4-Bromofluorobenzene	*84.0*			*77.0-126*		*08/12/2024 21:26*	WG2341281
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*08/12/2024 21:26*	WG2341281

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	0.297	J	0.0941	1.00	1	08/12/2024 21:48	WG2341281
Chloroform	U		0.111	5.00	1	08/12/2024 21:48	WG2341281
cis-1,2-Dichloroethene	1.28		0.126	1.00	1	08/12/2024 21:48	WG2341281
Ethylbenzene	U		0.137	1.00	1	08/12/2024 21:48	WG2341281
Naphthalene	U	C3	1.00	5.00	1	08/12/2024 21:48	WG2341281
Tetrachloroethene	9.18		0.300	1.00	1	08/12/2024 21:48	WG2341281
Toluene	U		0.278	1.00	1	08/12/2024 21:48	WG2341281
Trichloroethene	0.215	J	0.190	1.00	1	08/12/2024 21:48	WG2341281
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/12/2024 21:48	WG2341281
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/12/2024 21:48	WG2341281
Vinyl chloride	0.826	J	0.234	1.00	1	08/12/2024 21:48	WG2341281
Xylenes, Total	U		0.174	3.00	1	08/12/2024 21:48	WG2341281
o-Xylene	U		0.174	1.00	1	08/12/2024 21:48	WG2341281
m&p-Xylene	U		0.430	2.00	1	08/12/2024 21:48	WG2341281
(S) Toluene-d8	*92.1*			*80.0-120*		*08/12/2024 21:48*	WG2341281
(S) 4-Bromofluorobenzene	*88.1*			*77.0-126*		*08/12/2024 21:48*	WG2341281
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*08/12/2024 21:48*	WG2341281

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/12/2024 22:10	WG2341281
Chloroform	U		0.111	5.00	1	08/12/2024 22:10	WG2341281
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/12/2024 22:10	WG2341281
Ethylbenzene	U		0.137	1.00	1	08/12/2024 22:10	WG2341281
Naphthalene	U	C3	1.00	5.00	1	08/12/2024 22:10	WG2341281
Tetrachloroethene	U		0.300	1.00	1	08/12/2024 22:10	WG2341281
Toluene	U		0.278	1.00	1	08/12/2024 22:10	WG2341281
Trichloroethene	U		0.190	1.00	1	08/12/2024 22:10	WG2341281
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/12/2024 22:10	WG2341281
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/12/2024 22:10	WG2341281
Vinyl chloride	0.533	J	0.234	1.00	1	08/12/2024 22:10	WG2341281
Xylenes, Total	U		0.174	3.00	1	08/12/2024 22:10	WG2341281
o-Xylene	U		0.174	1.00	1	08/12/2024 22:10	WG2341281
m&p-Xylene	U		0.430	2.00	1	08/12/2024 22:10	WG2341281
(S) Toluene-d8	*94.1*			*80.0-120*		*08/12/2024 22:10*	WG2341281
(S) 4-Bromofluorobenzene	*90.3*			*77.0-126*		*08/12/2024 22:10*	WG2341281
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*08/12/2024 22:10*	WG2341281

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/12/2024 22:32	WG2341281
Chloroform	14.4		0.111	5.00	1	08/12/2024 22:32	WG2341281
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/12/2024 22:32	WG2341281
Ethylbenzene	U		0.137	1.00	1	08/12/2024 22:32	WG2341281
Naphthalene	U	C3	1.00	5.00	1	08/12/2024 22:32	WG2341281
Tetrachloroethene	U		0.300	1.00	1	08/12/2024 22:32	WG2341281
Toluene	U		0.278	1.00	1	08/12/2024 22:32	WG2341281
Trichloroethene	U		0.190	1.00	1	08/12/2024 22:32	WG2341281
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/12/2024 22:32	WG2341281
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/12/2024 22:32	WG2341281
Vinyl chloride	U		0.234	1.00	1	08/12/2024 22:32	WG2341281
Xylenes, Total	U		0.174	3.00	1	08/12/2024 22:32	WG2341281
o-Xylene	U		0.174	1.00	1	08/12/2024 22:32	WG2341281
m&p-Xylene	U		0.430	2.00	1	08/12/2024 22:32	WG2341281
(S) Toluene-d8	*92.1*			*80.0-120*		*08/12/2024 22:32*	WG2341281
(S) 4-Bromofluorobenzene	*85.1*			*77.0-126*		*08/12/2024 22:32*	WG2341281
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*08/12/2024 22:32*	WG2341281

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/12/2024 22:54	WG2341281
Chloroform	U		0.111	5.00	1	08/12/2024 22:54	WG2341281
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/12/2024 22:54	WG2341281
Ethylbenzene	4.90		0.137	1.00	1	08/12/2024 22:54	WG2341281
Naphthalene	4.35	C3 J	1.00	5.00	1	08/12/2024 22:54	WG2341281
Tetrachloroethene	42.6		0.300	1.00	1	08/12/2024 22:54	WG2341281
Toluene	U		0.278	1.00	1	08/12/2024 22:54	WG2341281
Trichloroethene	0.961	J	0.190	1.00	1	08/12/2024 22:54	WG2341281
1,2,4-Trimethylbenzene	23.2		0.322	1.00	1	08/12/2024 22:54	WG2341281
1,3,5-Trimethylbenzene	1.76		0.104	1.00	1	08/12/2024 22:54	WG2341281
Vinyl chloride	U		0.234	1.00	1	08/12/2024 22:54	WG2341281
Xylenes, Total	3.87		0.174	3.00	1	08/12/2024 22:54	WG2341281
o-Xylene	0.389	J	0.174	1.00	1	08/12/2024 22:54	WG2341281
m&p-Xylene	3.48		0.430	2.00	1	08/12/2024 22:54	WG2341281
(S) Toluene-d8	*92.9*			*80.0-120*		*08/12/2024 22:54*	WG2341281
(S) 4-Bromofluorobenzene	*92.9*			*77.0-126*		*08/12/2024 22:54*	WG2341281
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*08/12/2024 22:54*	WG2341281

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/12/2024 23:16	WG2341281
Chloroform	1.04	J	0.111	5.00	1	08/12/2024 23:16	WG2341281
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/12/2024 23:16	WG2341281
Ethylbenzene	U		0.137	1.00	1	08/12/2024 23:16	WG2341281
Naphthalene	U	C3	1.00	5.00	1	08/12/2024 23:16	WG2341281
Tetrachloroethene	U		0.300	1.00	1	08/12/2024 23:16	WG2341281
Toluene	U		0.278	1.00	1	08/12/2024 23:16	WG2341281
Trichloroethene	U		0.190	1.00	1	08/12/2024 23:16	WG2341281
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/12/2024 23:16	WG2341281
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/12/2024 23:16	WG2341281
Vinyl chloride	U		0.234	1.00	1	08/12/2024 23:16	WG2341281
Xylenes, Total	U		0.174	3.00	1	08/12/2024 23:16	WG2341281
o-Xylene	U		0.174	1.00	1	08/12/2024 23:16	WG2341281
m&p-Xylene	U		0.430	2.00	1	08/12/2024 23:16	WG2341281
(S) Toluene-d8	*93.4*			*80.0-120*		*08/12/2024 23:16*	WG2341281
(S) 4-Bromofluorobenzene	*90.2*			*77.0-126*		*08/12/2024 23:16*	WG2341281
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*08/12/2024 23:16*	WG2341281

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/12/2024 19:37	WG2341281
Chloroform	U		0.111	5.00	1	08/12/2024 19:37	WG2341281
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/12/2024 19:37	WG2341281
Ethylbenzene	U		0.137	1.00	1	08/12/2024 19:37	WG2341281
Naphthalene	U	C3	1.00	5.00	1	08/12/2024 19:37	WG2341281
Tetrachloroethene	U		0.300	1.00	1	08/12/2024 19:37	WG2341281
Toluene	U		0.278	1.00	1	08/12/2024 19:37	WG2341281
Trichloroethene	U		0.190	1.00	1	08/12/2024 19:37	WG2341281
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/12/2024 19:37	WG2341281
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/12/2024 19:37	WG2341281
Vinyl chloride	U		0.234	1.00	1	08/12/2024 19:37	WG2341281
Xylenes, Total	U		0.174	3.00	1	08/12/2024 19:37	WG2341281
o-Xylene	U		0.174	1.00	1	08/12/2024 19:37	WG2341281
m&p-Xylene	U		0.430	2.00	1	08/12/2024 19:37	WG2341281
(S) Toluene-d8	*94.4*			*80.0-120*		*08/12/2024 19:37*	WG2341281
(S) 4-Bromofluorobenzene	*84.4*			*77.0-126*		*08/12/2024 19:37*	WG2341281
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*08/12/2024 19:37*	WG2341281

Method Blank (MB)

(MB) R4106515-3 08/12/24 14:05

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
Chloroform	U		0.111	5.00
cis-1,2-Dichloroethene	U		0.126	1.00
Ethylbenzene	U		0.137	1.00
Naphthalene	U		1.00	5.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
Trichloroethene	U		0.190	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
o-Xylene	U		0.174	1.00
m&p-Xylene	U		0.430	2.00
(S) Toluene-d8	*95.5*			*80.0-120*
(S) 4-Bromofluorobenzene	*88.4*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4106515-1 08/12/24 12:58

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	5.00	5.64	113	70.0-123	
Chloroform	5.00	5.67	113	73.0-120	
cis-1,2-Dichloroethene	5.00	5.31	106	73.0-120	
Ethylbenzene	5.00	4.50	90.0	79.0-123	
Naphthalene	5.00	2.87	57.4	54.0-135	J
Tetrachloroethene	5.00	5.72	114	72.0-132	
Toluene	5.00	4.77	95.4	79.0-120	
Trichloroethene	5.00	5.87	117	78.0-124	
1,2,4-Trimethylbenzene	5.00	4.16	83.2	76.0-121	
1,3,5-Trimethylbenzene	5.00	4.54	90.8	76.0-122	
Vinyl chloride	5.00	5.69	114	67.0-131	
Xylenes, Total	15.0	13.4	89.3	79.0-123	
o-Xylene	5.00	4.25	85.0	80.0-122	
m&p-Xylene	10.0	9.15	91.5	80.0-122	
(S) Toluene-d8			*91.7*	*80.0-120*	
(S) 4-Bromofluorobenzene			*91.6*	*77.0-126*	

Laboratory Control Sample (LCS)

(LCS) R4106515-1 08/12/24 12:58

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) 1,2-Dichloroethane-d4			*108*	*70.0-130*	

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

Company Name/Address:
Arcadis - Chevron - AK

880 H St.
Anchorage, AK 99501

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

Pres Chk

Report to:
Jill Settle

Email To: **environmentDM-India@arcadis.com;molly.whitcomb@arcadis.co**

Project Description:
91356

City/State Collected: **Anchorage, AK**

Please Circle: PT MT CT ET

Phone: **907-276-8095**

Client Project # **30063666.19.45**

Lab Project # **CHEVARCAK-91356**

Collected by (print): **E. Wisick**

Site/Facility ID # **1465 W NORTHERN LIGHTS**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOCs 8260* 40mlAmb-HCl										Remarks	Sample # (lab only)
MW-1-W-20240807	Comb	GW	-	8.7.24	0700	3	X											-01
MW-2-W-20240807		GW	-		1045	9	X											-02
MW-3-W-20240807		GW	-		0830 1130	3	X											-03
MW-4-W-20240807		GW	-		0830	3	X											-04
MW-6-W-20240807		GW	-		0745	3	X											-05
MW-7-W-20240807		GW	-		1000	3	X											-06
MW-9-W-20240807		GW	-		0915	3	X											-07
BD-1-W-20240807		GW	-		-	3	X											-08
EQB-1-W-20240807		GW	-		1200	3	X											-09
Trip Blank	-	GW	-	-	-	2	X											-10

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

Remarks:*VOCs 8260=BTEX, naphthalene, 1,2,4-TMB, 1,3,5-TMB, PCE, TCE, cis-1,2-DCE, vinyl chloride, chloroform only.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS X FedEx __ Courier _____

Tracking # 4047 5445 8540

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	8.7.24	1300	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Chrysler

Trip Blank Received: Yes / No
2 HCL / MeoH TBR

Temp: MS 1.0 1.0 °C Bottles Received: 33
3.2 1.8

Date: 8/8/24 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

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

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

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

SDG # L1765404
D070

Acctnum: **CHEVARCAK**
Template: **T236662**
Prelogin: **P1091367**
PM: **110 - Brian Ford**
PB: BW 7/26
Shipped Via: **FedEX 2nd Day**

Attachment C

Historical Groundwater Analytical Results – Third Quarter 1999 through 2022

Table 1. Historical Groundwater Gauging and Analytical Results
Third Quarter 1999 through 2022
Chevron-Branded Service Station-91356
1465 West Northern Lights Boulevard
Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	DTW (ft bTOC)	LNAPL Thicknes (ft)	GWE ft msl	DRO mg/l	GRO mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Total Xylenes mg/l	MTBE mg/l	EDB mg/l	EDC mg/l	PCE mg/l	Chloroform mg/l	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.000075**	**0.0017**	**0.041**	**0.0022**	**0.0017**	
MW-1	7/3/1999	95.30	15.61	--	79.69	--	<0.050	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	--	
MW-1	10/11/1999	95.30	14.84	--	80.46	--	<0.050	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	--	--	--	--	--	
MW-1	5/19/2000	95.30	13.64	--	81.66	--	<0.080	<0.0005	<0.0005	<0.0005	<0.0010	<0.002	--	--	--	--	--	
MW-1	9/28/2000	95.30	12.80	--	82.50	--	<0.050	<0.0002	<0.0005	<0.0005	<0.0010	<0.001	--	--	--	--	--	
MW-1	5/4/2001	95.30	14.34	--	80.96	--	<0.050	**0.000274**	<0.0005	<0.0005	<0.0010	<0.001	--	--	--	--	--	
MW-1	10/4/2001	95.30	14.89	--	80.41	--	<0.050	<0.0002	<0.0005	<0.0005	<0.0010	<0.001	--	--	--	--	--	
MW-1	5/4/2002	95.30	14.78	--	80.52	--	<0.050 / <0.050	0.000361 / <0.0002	0.00103 / <0.0005	<0.0005 / <0.0005	<0.0010 / <0.0010	<0.001 / <0.001	--	--	--	--	--	
MW-1	9/22/2002	95.30	13.74	--	81.56	--	<0.050	<0.0002	<0.0005	<0.0005	<0.0010	<0.001	--	--	--	--	--	
MW-1	5/30/2003	95.39	15.25	--	80.14	--	<0.010 / <0.010	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.002 / <0.002	--	--	--	--	--	
MW-1	10/2/2003	95.39	15.50	--	79.89	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	6/2/2004	95.39	15.23	--	80.16	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	9/22/2004	95.39	15.06	--	80.33	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/11/2005	95.39	15.02	--	80.37	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	6/22/2005	95.39	14.26	--	81.13	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/9/2006	95.39	16.24	--	79.15	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	9/20/2006	95.39	15.69	--	79.70	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/15/2007	95.39	16.23	--	79.16	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	9/23/2007	95.39	16.04	--	79.35	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/5/2008	95.39	16.22	--	79.17	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	7/16/2008	95.39	16.17	--	79.22	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	6/16/2009	95.39	16.40	--	78.99	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/27/2009	95.39	16.35	--	79.04	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/6/2010	95.39	16.57	--	78.82	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/19/2011	95.39	16.72	--	78.67	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/23/2011	95.39	16.39	--	79.00	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/23/2012	95.39	16.11	--	79.28	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	7/31/2012	95.39	15.91	--	79.48	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/23/2013	95.39	15.68	--	79.71	--	--	--	--	--	--	--	--	<0.00022	**0.00036 J**	**0.018**	--	
MW-1	5/23/2013	95.39	15.68	--	79.71	--	--	--	--	--	--	--	--	<0.00022	**0.00032 J**	**0.018**	--	Sample collected via Hydrasleeve
MW-1	9/17/2013	95.39	15.75	--	79.64	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	9/18/2013	--	--	--	--	--	--	<0.00024	<0.00023	<0.00024	<0.00072	--	--	<0.00022	**0.0017**	**0.015**	--	
MW-1	5/1/2014	95.39	15.82	--	79.57	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/7/2014	--	--	--	--	--	--	--	--	--	--	--	--	<0.00013	**0.00091 J**	**0.016**	--	
MW-1	9/23/2014	95.96	15.44	--	80.52	--	--	--	--	--	--	--	--	<0.00013	**0.0020 J**	**0.016 J**	--	
MW-1	5/3/2015	95.96	16.22	--	79.74	--	--	--	--	--	--	--	--	<0.0005	**0.001**	**0.021**	--	
MW-1	11/4/2015	95.96	15.78	--	80.18	--	--	--	--	--	--	--	--	<0.0005	**0.001**	**0.018**	--	
MW-1	4/20/2016	95.96	16.34	--	79.62	--	--	--	--	--	--	--	--	<0.0005	<0.0005	**0.013**	--	
MW-1	10/27/2016	95.96	16.35	--	79.61	--	--	--	--	--	--	--	***<0.0005***	<0.0005	**0.0008 J**	**0.016**	--	
MW-1	5/2/2017	79.61	16.67	--	62.94	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	10/12/2017	79.61	16.39	--	63.22	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	4/18/2018	79.53	15.47	--	64.06	--	--	--	--	--	--	--	--	--	--	--	--	lid to be placed back on.
MW-1	9/5/2018	79.43	16.19	--	63.24	--	--	--	--	--	--	--	--	--	--	--	--	TOC adjusted for 0.1 ft cut.
MW-1	4/22/2019	95.92	15.97	--	79.95	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	9/20/2019	95.92	15.92	--	80.00	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	4/10/2020	95.92	16.00	0.00	79.92	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/12/2020	95.92	15.50	0.00	80.42	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	04/13/2021	95.92	15.92	0.00	80.00	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/31/2021	95.92	15.25	0.00	80.67	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	9/2/2022	95.92	15.05	0.00	80.87	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	7/3/1999	94.61	15.30	--	79.31	--	**7.14**	**0.027**	**0.048**	**0.268**	**1.14**	<0.100	--	--	--	--	--	
MW-2	10/11/1999	94.61	14.27	--	80.34	--	**20.4 / 21.8**	<0.012 / <0.012	**0.575 / 0.629**	**1.43 / 1.56**	**5.93 / 6.50**	<0.125 / <0.125	--	--	--	--	--	
MW-2	5/19/2000	94.61	12.92	--	81.69	--	**8.84**	**0.0259**	**0.0124**	<0.005	**1.22**	<0.020 / <0.002	--	--	--	--	--	
MW-2	9/28/2000	94.61	11.97	--	82.64	--	**4.52**	<0.0055	**0.0388**	**0.078**	**1.19**	**0.0303** / <0.020	--	--	--	--	--	
MW-2	5/4/2001	94.61	13.75	--	80.86	--	**7.02**	**0.012**	**0.0429**	**0.469**	**1.40**	**0.0452** / <0.005	--	--	--	--	--	
MW-2	10/4/2001	94.61	14.35	--	80.26	--	**14.2**	**0.0244**	**0.101**	**1.13**	**3.30**	**0.0884** / <0.005	--	--	--	--	--	
MW-2	5/4/2002	94.61	14.23	--	80.38	--	**19.2**	<0.020	**0.118**	**1.36**	**4.10**	**0.115** / <0.050	--	--	--	--	--	
MW-2	9/22/2002	94.61	13.11	--	81.50	--	**3.62**	**0.00262**	**0.0201**	**0.363**	**0.898**	**0.0184** / <0.050	--	--	--	--	--	
MW-2	5/30/2003	94.61	14.54	--	80.07	--	**13.0**	**0.0030**	**0.040**	**0.790**	**1.80**	<0.002	--	--	--	--	--	
MW-2	10/2/2003	94.61	14.81	--	79.80	--	**4.60**	**0.0009**	**0.006**	**0.160**	**0.410**	<0.002	--	--	--	--	--	
MW-2	6/2/2004	94.61	14.49	--	80.12	--	**14.0**	**0.0030**	**0.029**	**0.850**	**2.50**	<0.002	--	--	--	--	--	
MW-2	9/22/2004	94.61	14.48	--	80.13	--	**10.0**	<0.005	**0.012**	**0.630**	**1.40**	<0.005	--	--	--	--	--	
MW-2	5/11/2005	94.61	14.23	--	80.38	--	**7.00**	**0.0040**	**0.006**	**0.500**	**0.770**	<0.002	--	--	--	--	--	
MW-2	9/22/2005	94.61	14.09	--	80.52	--	**4.70**	**0.0030**	**0.003**	**0.410**	**0.390**	<0.002	--	--	--	--	--	
MW-2	5/9/2006	94.61	15.43	--	79.18	--	**0.094**	<0.0005	<0.0005	**0.008**	**0.0075**	<0.0025	***<0.0005***	<0.0005	--	--	--	
MW-2	9/20/2006	94.61	14.88	--	79.73	--	**0.067**	<0.0005	<0.0005	**0.002**	**0.0035**	<0.0025	--	--	--	--	--	
MW-2	5/15/2007	94.59	15.32	--	79.27	--	**0.100**	<0.0010	<0.0010	**0.005**	**0.004**	<0.003	--	--	--	--	--	
MW-2	9/23/2007	94.59	15.26	--	79.33	--	**0.200 / 0.200**	<0.0010 / <0.0010	<0.0010 / <0.0010	**0.007 / 0.010**	**0.003 / 0.004**	<0.003 / <0.003	--	--	--	--	--	
MW-2	5/5/2008	94.59	15.30	--	79.29	--	<0.050	<0.0005	<0.0005	**0.0009**	<0.0015	<0.002	--	--	--	--	--	
MW-2	7/16/2008	94.59	15.21	--	79.38	**0.096**	**0.06**	<0.001	<0.001	**0.003**	**0.002**	--	--	--	--	--	--	
MW-2	6/16/2009	94.59	15.43	--	79.16	**0.084 J**	<0.090 J	<0.0005	<0.0005	**0.0031**	**0.0018 J**	--	--	--	--	--	--	

Table 1. Historical Groundwater Gauging and Analytical Results
Third Quarter 1999 through 2022
Chevron-Branded Service Station-91356
1465 West Northern Lights Boulevard
Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	DTW (ft bTOC)	LNAPL Thicknes (ft)	GWE ft msl	DRO mg/l	GRO mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Total Xylenes mg/l	MTBE mg/l	EDB mg/l	EDC mg/l	PCE mg/l	Chloroform mg/l	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.000075**	**0.0017**	**0.041**	**0.0022**	**0.0017**	
MW-2	8/27/2009	94.59	15.40	--	79.19	**0.12 J**	**0.31**	**0.0011 J**	<0.0005	**0.005**	**0.0063**	--	--	--	--	--	--	
MW-2	5/6/2010	94.59	15.58	--	79.01	**0.068 J / 0.092 J**	<0.010 / <0.010	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0015 / <0.0015	--	--	--	--	--	--	
MW-2	8/5/2010	94.59	15.38	--	79.21	**0.071 J**	**0.024 J**	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	--	
MW-2	5/19/2011	94.59	15.67	--	78.92	**0.067 J**	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	--	
MW-2	8/23/2011	94.59	15.35	--	79.24	<0.049	**0.055 J**	<0.0005	<0.0005	**0.0005 J**	<0.0015	--	--	--	--	--	--	
MW-2	5/23/2012	94.59	15.04	--	79.55	<0.049 J	**0.025 J**	<0.0005	<0.0005	**0.0005 J**	<0.0015	--	--	--	--	--	--	
MW-2	7/31/2012	94.59	14.82	--	79.77	**0.89**	**2.9**	<0.0060	**0.0014 J**	**0.20**	**0.26**	--	--	--	--	--	--	
MW-2	5/23/2013	94.59	14.51	--	80.08	**0.72**	**1.7**	**0.00034 J**	**0.00062 J**	**0.21**	**0.26**	--	--	<0.00022	**0.046**	**0.0038**	--	Sample collected via Hydrasleeve
MW-2	5/23/2013	94.59	14.51	--	80.08	**1.5**	**0.43**	<0.00024	<0.00023	**0.031**	**0.046**	--	--	<0.00022	**0.018**	**0.0051**	--	
MW-2	9/17/2013	94.59	14.02	--	80.57	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	9/18/2013	--	--	--	--	**1.8**	**0.68**	<0.00024	<0.00023	**0.023**	**0.017**	--	--	<0.00022	**0.024**	**0.0052**	--	
MW-2	5/1/2014	94.59	14.59	--	80.00	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	5/7/2014	--	--	--	--	**0.35 J / 0.40 J**	**0.95 / 1.1**	<0.00015 / <0.00015	**0.00019 J / 0.00023 J**	**0.076 / 0.084**	**0.099 / 0.11**	--	--	<0.00013 / <0.00013	**0.031 / 0.032**	**0.0060 / 0.0058**	--	
MW-2	9/23/2014	94.62	14.24	--	80.38	**0.48 / 0.42 J**	**1.1 / 1.1**	**0.00025 J / 0.00021 J**	**0.00026 J / 0.00025 J**	**0.093 / 0.095**	**0.12 J / 0.13**	--	--	<0.00013 / <0.00013	**0.049 J / 0.051**	**0.0056 J / 0.0051**	--	
MW-2	5/3/2015	94.62	15.02	--	79.60	<0.051 / <0.050	**0.011 J / 0.012 J**	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	--	--	<0.0005 / <0.0005	**0.003 / 0.003**	**0.008 / 0.008**	--	
MW-2	11/4/2015	94.62	14.48	--	80.14	**0.36 / 0.37**	**0.89 / 0.80**	<0.0005 / <0.0005	<0.0005 / <0.0005	**0.039 / 0.045**	**0.063 / 0.076**	--	--	<0.0005 / <0.0005	**0.032 / 0.040**	**0.005 / 0.006**	--	
MW-2	4/20/2016	94.62	15.12	--	79.50	**0.082 J**	**0.019 J**	<0.0005	<0.0005	<0.0005	<0.0005	--	--	<0.0005	**0.002**	**0.006**	--	
MW-2	10/27/2016	94.62	15.15	--	79.47	<0.053 / 0.27	**0.031 J / 0.033 J**	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	--	***<0.0005 / <0.0005***	<0.0005 / <0.0005	**0.006 / 0.005**	**0.006 / 0.006**	--	
MW-2	5/2/2017	79.47	15.39	--	62.80	<0.051	**0.027 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	***<0.0005***	<0.0005	**0.004**	**0.005**	--	
MW-2	10/12/2017	79.47	15.11	--	64.36	<0.050	**0.021 J**	<0.0005	<0.0005	<0.0005	<0.0005	--	***<0.0005***	<0.0005	**0.004**	**0.005**	--	
MW-2	4/18/2018	79.47	15.36	--	64.11	<0.051J	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	***<0.0005***	<0.0005	**0.002**	**0.005**	--	
MW-2	9/5/2018	79.47	14.95	--	64.52	<0.072 J	<0.014	<0.0002	<0.0002	<0.0002	<0.0005	--	***<0.0003***	<0.002	**0.004**	**0.009**	--	TPH-d Non detects reported to LOQ
MW-2	4/22/2019	94.64	14.79	--	79.85	<0.26 B [<0.27 B]	**0.021 J [0.019 J]**	<0.0002 [<0.0002]	<0.0004 [<0.0004]	<0.0002 [<0.0002]	<0.0004 [<0.0004]	--	***<0.0002 [<0.0002]***	<0.0003 [<0.0003]	**0.003 [0.004]**	**0.011 [0.01]**	--	
MW-2	9/20/2019	94.64	14.73	0.00	79.91	**0.17 J**	<0.1	<0.0000090	<0.00039	**0.0021 J**	**0.0037**	--	<0.000014	<0.00050B	**0.0041**	**0.011**	--	
MW-2	4/10/2020	94.64	14.95	0.00	79.69	--	--	<0.00100 [<0.00100]	<0.00100 [<0.00100]	**0.00453 [0.00557]**	**0.00725 [0.008501]**	<0.00100 [<0.00100]	***<0.000500 [<0.000500]***	<0.00100 [<0.00100]	**0.0207 [0.0222]**	**0.00907 [0.00808]**	**0.00537 [0.00601]**	
MW-2	11/12/2020	94.64	14.26	0.00	80.38	--	--	**0.000145 J**	<0.00100	**0.0211**	**0.0280**	<0.00100	***<0.000500***	<0.00100	**0.0232**	**0.00928**	**0.0178 J**	
MW-2	04/13/2021	94.64	14.6	0.00	80.04	--	--	**0.000109 J [0.0000979 J]**	**0.000390 J [0.000316 J]**	**0.0307 [0.0297]**	**0.0453 [0.0433]**	<0.00100 [<0.00100]	***<0.000250 [<0.000250]***	<0.00100 [<0.00100]	**0.0333 J [0.0274 J]**	**0.0053 [0.00559]**	**0.0272 [0.0281]**	
MW-2	8/31/2021	94.64	13.9	0.00	80.74	--	--	**0.000177 J [0.000159 J]**	**0.000391 J [0.000381 J]**	**0.0342 [0.0351]**	**0.043 [0.0434]**	<0.00100 [<0.00100]	***<0.000125 [<0.000125]***	<0.00100 [<0.00100]	**0.0367 [0.0355]**	***<0.00500 [<0.00500]***	**0.0205 [0.022]**	
MW-2	4/11/2022	94.64	14.28	0.00	80.36	--	--	<0.00100 BJ	**0.000361 J**	**0.0194**	**0.0506**	<0.00100 J	***<0.000125***	<0.00100 J	**0.0518 J**	***<0.00500 J***	**0.025**	
MW-2	9/2/2022	94.64	13.78	0.00	80.86	--	--	**0.000137 J [0.000117 J]**	**0.000278 J [<0.001]**	**0.0183 [0.0162]**	**0.0271 [0.0235 J]**	<0.00100 [<0.00100]	***<0.000125 [<0.000125]***	<0.00100 [<0.00100]	**0.0535 [0.0476]**	***<0.00500 [<0.00500]***	**0.0117 J [0.0113 J]**	
MW-3	7/3/1999	93.57	14.92	--	78.65	--	**6.29**	**0.064**	**0.349**	**0.279**	**0.781**	<0.020	--	--	--	--	--	
MW-3	10/11/1999	93.57	13.33	--	80.24	--	**6.08**	**0.194**	**0.341**	**0.406**	**1.15**	<0.025	--	--	--	--	--	
MW-3	5/19/2000	93.57	12.17	--	81.40	--	**8.44 / 9.49**	**0.0586 / 0.0629**	**0.401 / 0.418**	**0.398 / 0.414**	**1.52 / 1.53**	**0.056 / 0.0651**	--	--	--	--	--	
MW-3	9/28/2000	93.57	11.35	--	82.22	--	**5.36**	**0.0217**	**0.171**	**0.476**	**0.896**	**0.035** / <0.020	--	--	--	--	--	
MW-3	5/4/2001	93.57	12.84	--	80.73	--	**5.58**	**0.0451**	**0.104**	**0.304**	**0.707**	**0.0703** / <0.005	--	--	--	--	--	
MW-3	10/4/2001	93.57	13.39	--	80.18	--	**6.57**	**0.0531**	**0.108**	**0.441**	**1.24**	**0.0596** / <0.050	--	--	--	--	--	
MW-3	5/4/2002	93.57	13.32	--	80.25	--	**4.27**	**0.0330**	**0.0626**	**0.337**	**0.641**	**0.0299** / <0.050	--	--	--	--	--	
MW-3	9/22/2002	93.57	12.41	--	81.16	--	**2.23**	**0.0129**	**0.0193**	**0.216**	**0.295**	**0.0171** / <0.025	--	--	--	--	--	
MW-3	5/30/2003	93.58	13.61	--	79.97	--	**1.80**	**0.009**	**0.002**	**0.140**	**0.160**	<0.002	--	--	--	--	--	
MW-3	10/2/2003	93.58	13.87	--	79.71	--	**8.70 / 8.90**	**0.022 / 0.021**	**0.009 / 0.010**	**0.450 / 0.470**	**0.900 / 0.980**	<0.002 / <0.002	--	--	--	--	--	
MW-3	6/2/2004	93.58	13.37	--	80.21	--	**2.80 / 2.70**	**0.018 / 0.015**	<0.0005 / <0.0005	**0.180 / 0.150**	**0.230 / 0.200**	<0.002 / <0.002	--	--	--	--	--	
MW-3	9/22/2004	93.58	13.79	--	79.79	--	**4.70 / 4.00**	**0.073 / 0.065**	**0.008 / 0.007**	**0.270 / 0.230**	**0.380 / 0.310**	<0.002 / <0.002	--	--	--	--	--	
MW-3	5/11/2005	93.58	13.21	--	80.37	--	**0.580 / 0.990**	**0.004 / 0.004**	**0.002 / 0.002**	**0.044 / 0.057**	**0.057 / 0.079**	<0.002 / <0.002	--	--	--	--	--	
MW-3	9/22/2005	93.58	13.05	--	80.53	--	**6.00 / 5.60**	**0.030 / 0.029**	**0.110 / 0.110**	**0.310 / 0.300**	**0.660 / 0.630**	<0.002 / <0.002	--	--	--	--	--	
MW-3	5/9/2006	93.58	14.51	--	79.07	--	**0.840**	**0.0047**	**0.0025**	**0.036**	**0.056**	<0.020	***<0.0005***	<0.0005	--	--	--	
MW-3	9/20/2006	93.58	13.93	--	79.65	--	**1.30**	**0.013**	**0.0017**	**0.100**	**0.130**	<0.020	--	--	--	--	--	
MW-3	5/15/2007	93.58	14.23	--	79.35	--	**0.20**	**0.002**	<0.001	**0.007**	**0.010**	<0.003	--	--	--	--	--	
MW-3	9/23/2007	93.58	14.32	--	79.26	--	**0.20**	**0.003**	<0.001	**0.010**	**0.010**	<0.003	--	--	--	--	--	
MW-3	5/5/2008	93.58	14.28	--	79.30	--	**0.444 / 1.510**	**0.00611 / 0.00884**	**0.00208 / 0.00384**	**0.0359 / 0.0786**	**0.0864 / 0.190**	<0.002 / <0.002	--	--	--	--	--	
MW-3	7/16/2008	93.58	14.27	--	79.31	**0.095 / 0.20**	**0.9 / 0.8**	**0.006 / 0.006**	<0.001 / <0.001	**0.04 / 0.03**	**0.03 / 0.02**	--	--	--	--	--	--	
MW-3	6/16/2009	93.58	14.48	--	79.10	**0.091 J / 0.072 J**	**0.250/0.250**	**0.0020 / 0.0020**	<0.0005 / <0.0005	**0.0077 / 0.0077**	**0.011 / 0.011**	--	--	--	--	--	--	
MW-3	8/27/2009	93.58	14.43	--	79.15	**0.25 J / 0.12 J**	**0.32 / 0.43**	**0.0029 / 0.0034**	<0.0005 / 0.0006 J	**0.011 / 0.014**	**0.015 J / 0.021 J**	--	--	--	--	--	--	
MW-3	5/6/2010	93.58	14.63	--	78.95	**0.13 J**	**0.030 J**	<0.0005	<0.0005	**0.0005 J**	<0.0015	--	--	--	--	--	--	
MW-3	8/5/2010	93.58	14.41	--	79.17	**0.98 J / 1.1 J**	**0.014 J / 0.023 J**	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0015 / <0.0015	--	<0.0000095 / <0.0000096	--	--	--	--	
MW-3	5/19/2011	93.58	14.72	--	78.86	**0.31 / 0.23 J**	**0.042 J / 0.040 J**	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0015 / <0.0015	--	--	--	--	--	--	
MW-3	8/23/2011	93.58	14.41	--	79.17	**0.14 J / 0.11 J**	**0.15 / 0.13**	**0.0011 J / 0.001 J**	<0.0005 / <0.0005	**0.0054 / 0.0049**	**0.0031 J / 0.0028 J**	--	--	--	--	--	--	
MW-3	5/23/2012	93.58	14.08	--	79.50	**0.49 J / 0.50 J**	**1.7 / 1.8**	**0.0075 / 0.0072**	**0.0043 / 0.0042**	**0.087 / 0.087**	**0.18 / 0.17**	--	--	--	--	--	--	
MW-3	7/31/2012	93.58	13.85	--	79.73	**0.20 J / 0.26**	**0.72 / 0.73**	**0.0065 / 0.0068**	**0.0008 J / 0.0009 J**	**0.031 / 0.033**	**0.021 / 0.023**	--	--	--	--	--	--	
MW-3	5/23/2013	93.58	13.58	--	80.00	**0.47 J / 0.37 J**	**1.7 J / 1.4**	**0.0044 / 0.0039**	**0.00066 J / 0.00063 J**	**0.10 / 0.11**	**0.040 / 0.037**	--	--	<0.00022 / <0.00022	**0.0015 / 0.0015**	**0.0030 / 0.0036**	--	Sample collected via Hydrasleeve
MW-3	5/23/2013	93.58	13.58	--	80.00	**0.55 J / 1.1 J**	**1.0 / 0.97**	**0.0084 / 0.0085**	**0.00029 J / 0.00028 J**	**0.028 / 0.028**	**0.050 / 0.050**	--	--	<0.00022 / <0.00022	**0.0016 / 0.0016**	**0.0020 / 0.0019**	--	
MW-3	9/17/2013	93.58	13.07	--	80.51	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	9/18/2013	--	--	--	--	**1.5 J / 0.74 J**	**0.13 / 0.13**	**0.0013 / 0.0011**	<0.00023 / <0.00023	**0.0016 / 0.0013**	<0.00072 / <0.00072	--	--	<0.00022 / <0.00022	**0.00091 J / 0.00087 J**	**0.0096 / 0.0097**	--	
MW-3	5/1/2014	93.58	13.68	--	79.90	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	5/7/2014	--	--	--	--	**0.54**	**1.6 J**	**0.0048**	**0.00064 J**	**0.062**	**0.023**	--	--	<0.00013	**0.0014**	**0.0019**	--	
MW-3	9/23/2014	93.58	13.28	--	80.30	**0.42**	**1.2**	**0.0052**	**0.00090 J**	**0.031**	**0.022**	--	--	<0.00013	**0.0029**	<0.00016	--	
MW-3	5/3/2015	93.58	14.07	--	79.51	**1.2**	**2.8**	**0.007**	**0.001**	**0.10**	**0.070**	--	--	<0.000500	**0.002**	<0.000500	--	
MW-3	11/4/2015	93.58	15.52	--	78.06	**0.57**	**1.4**	**0.005**	**0.0005 J**	**0.017**	**0.0056 J**	--	--	<0.000500	**0.002**	<0.000500	--	
MW-3	4/20/2016	93.58	14.16	--	79.42	**1.3 / 1.4**	**2.6 / 2.7**	**0.006 / 0.005**	**0.002 / 0.002**	**0.069 / 0.067**	**0.116 / 0.115**	--	--	<0.0005 / <0.0005	**0.0009 J / 0.0009 J**	**0.003 / 0.003**	--	
MW-3	10/28/2016	93.58	14.16	--	79.42	<0.051	**0.64**	**0.003**	**0.0006 J**	**0.020**	**0.024**	--	***<0.0005***	<0.0005	<0.0005	**0.004**	--	
MW-3	5/2/2017	79.42	14.44	--	62.75	**0.61 / 0.50**	**1.2 / 1.3**	**0.002 / 0.002**	**0.0005 J / 0.0005 J**	**0.01 / 0.01**	**0.004 / 0.005**	<0.0005 / <0.0005	***<0.0005 / <0.0005***	<0.0005 / <0.0005	<0.0005 / <0.0005	**0.002 / 0.002**	--	
MW-3	10/12/2017	79.42	14.20	--	65.22	**0.094 J / 0.095 J**	**0.26 / 0.24**	**0.001 / 0.001 J**	<0.0005 / <0.0005	**0.004 / 0.004**	**0.001 / 0.0009 J**	--	***<0.0005 / <0.0005***	<0.0005 / <0.0005	<0.0005 / <0.0005	**0.007 / 0.007**	--	

Table 1. Historical Groundwater Gauging and Analytical Results
Third Quarter 1999 through 2022
Chevron-Branded Service Station-91356
1465 West Northern Lights Boulevard
Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	DTW (ft bTOC)	LNAPL Thicknes (ft)	GWE ft msl	DRO mg/l	GRO mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Total Xylenes mg/l	MTBE mg/l	EDB mg/l	EDC mg/l	PCE mg/l	Chloroform mg/l	Naphthalene (mg/L)	Comments
	ADEC Groundwater Cleanup Levels					**1.5**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.000075**	**0.0017**	**0.041**	**0.0022**	**0.0017**	
MW-3	4/18/2018	79.42	14.45	--	64.97	<0.05J / <0.05J	**0.029 J / 0.025 J**	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	--	***<0.0005 / <0.0005***	<0.0005 / <0.0005	**0.0008 J / 0.0008 J**	**0.005 / 0.005**	--	
MW-3	9/5/2018	79.42	14.03	--	65.39	<0.18 J / <0.20 J	**0.27 / 0.34**	**0.002**	**0.0002 J**	**0.003**	**0.0027 J**	--	***<0.0003***	<0.002	**0.003**	**0.003**	--	TPH-d Non detects reported to LOQ
MW-3	4/22/2019	93.59	13.93	--	79.66	<0.26 B	**0.093 J**	**0.0003 J**	**0.002**	<0.0002	**0.001 J**	--	***<0.0002***	<0.0003	**0.003 J**	**0.005**	--	
MW-3	9/20/2019	93.59	13.80	0.00	79.79	<0.092	**0.11 J**	**0.00033 J**	<0.00039	**0.0045**	**0.0018 J**	--	<0.000014	<0.00050B	**0.0032**	**0.0064**	--	an
MW-3	4/10/2020	93.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate well
MW-3	11/12/2020	93.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	04/13/2021	93.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate well due to ice
MW-3	8/31/2021	93.59	13.00	0.00	80.59	--	--	**0.00253**	**0.000903 J**	**0.0272**	**0.00970**	<0.00100	***<0.000125***	<0.00100	**0.00259**	***<0.00500***	***<0.00561 B***	
MW-3	4/11/2022	93.59	13.40	0.00	80.19	--	--	**0.00648**	**0.000804 J**	**0.0412**	**0.022**	<0.00100	***<0.000125***	<0.00100	**0.00227 J**	***<0.00500***	**0.00995**	
MW-3	9/2/2022	93.59	12.78	0.00	80.81	--	--	**0.00545**	**0.000824 J**	**0.0339**	**0.00958**	<0.00100	***<0.000125***	<0.00100	**0.00176**	***<0.00500***	***<0.00500 J***	
MW-4	7/9/1999	94.66	15.01	--	79.65	--	<0.050	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	--	
MW-4	10/11/1999	94.66	14.31	--	80.35	--	<0.050	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	--	--	--	--	--	
MW-4	5/19/2000	94.66	13.22	--	81.44	--	**0.867**	**0.0323**	**0.133**	**0.0162**	**0.110**	<0.010	--	--	--	--	--	
MW-4	9/28/2000	94.66	12.45	--	82.21	--	**<2.50 / 5.65**	**0.366 / 0.382**	**0.338 / 1.65**	**0.0294 / 0.148**	**0.441 / 0.951**	<0.050 / <0.100	--	--	--	--	--	
MW-4	5/4/2001	94.66	13.78	--	80.88	--	**0.190**	**0.00216**	<0.0005	**0.036**	**0.0256**	<0.001	--	--	--	--	--	
MW-4	10/4/2001	94.66	15.31	--	79.35	--	<0.050 / <0.050	**0.000348 / 0.000359**	<0.0005 / <0.0005	**0.00491 / 0.00581**	**0.00275 / 0.00366**	<0.001 / <0.001	--	--	--	--	--	
MW-4	5/4/2002	94.66	14.20	--	80.46	--	<0.050	**0.000209**	**0.000601**	<0.0005	<0.0010	<0.001	--	--	--	--	--	
MW-4	9/22/2002	94.66	13.19	--	81.47	--	<0.050 / <0.050	<0.0002 / <0.0002	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0010 / <0.0010	<0.001 / <0.001	--	--	--	--	--	
MW-4	5/30/2003	94.68	14.59	--	80.09	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	--	
MW-4	10/2/2003	94.68	14.84	--	79.84	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	6/2/2004	94.68	14.52	--	80.16	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	9/22/2004	94.68	14.35	--	80.33	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	5/11/2005	94.68	14.28	--	80.40	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	9/22/2005	94.68	13.81	--	80.87	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	5/9/2006	94.68	15.51	--	79.17	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	9/20/2006	94.68	14.94	--	79.74	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	5/15/2007	94.68	15.42	--	79.26	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	9/23/2007	94.68	15.72	--	78.96	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	5/5/2008	94.68	15.37	--	79.31	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	7/16/2008	94.68	15.31	--	79.37	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	6/16/2009	94.68	15.52	--	79.16	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/27/2009	94.68	15.48	--	79.20	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	5/6/2010	94.68	15.61	--	79.07	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	5/19/2011	94.68	15.72	--	78.96	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/23/2011	94.68	15.40	--	79.28	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	5/23/2012	94.68	15.09	--	79.59	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	7/31/2012	94.68	14.87	--	79.81	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	5/23/2013	94.68	14.62	--	80.06	--	--	--	--	--	--	--	--	<0.00022	**0.00096 J**	**0.016**	--	Sample collected via Hydrasleeve
MW-4	5/23/2013	94.68	14.62	--	80.06	--	--	--	--	--	--	--	--	<0.00022	**0.0011**	**0.015**	--	
MW-4	9/17/2013	94.68	14.12	--	80.56	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	9/18/2013	--	--	--	--	--	--	<0.00024	<0.00023	<0.00024	<0.00072	--	--	<0.00022	**0.00044 J**	**0.021**	--	
MW-4	5/1/2014	94.68	14.73	--	79.95	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	5/7/2014	--	--	--	--	--	--	--	--	--	--	--	--	<0.00013	<0.00016	**0.018**	--	
MW-4	9/23/2014	94.71	14.37	--	80.34	--	--	--	--	--	--	--	--	<0.00013	**0.00039 J**	**0.024**	--	
MW-4	5/3/2015	94.71	15.07	--	79.64	--	--	--	--	--	--	--	--	<0.0005	<0.0005	**0.021**	--	
MW-4	11/4/2015	94.71	14.53	--	80.18	--	--	--	--	--	--	--	--	<0.0005	<0.0005	**0.022**	--	
MW-4	4/20/2016	94.71	15.18	--	79.53	--	--	--	--	--	--	--	--	<0.0005	<0.0005	**0.018**	--	
MW-4	10/27/2016	94.71	15.17	--	79.54	--	--	--	--	--	--	--	***<0.0005***	<0.0005	<0.0005	**0.016**	--	
MW-4	5/2/2017	79.54	16.42	--	62.87	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	10/12/2017	79.54	15.24	--	64.30	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	4/18/2018	79.54	16.59	--	62.95	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	9/5/2018	79.54	15.08	--	64.46	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	4/22/2019	94.74	13.98	--	80.76	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	9/20/2019	94.74	14.91	0.00	79.83	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	4/10/2020	94.74	15.17	0.00	79.57	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/12/2020	94.74	14.48	0.00	80.26	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	04/13/2021	94.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate well due to ice
MW-4	8/31/2021	94.74	14.16	0.00	80.58	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	4/11/2022	94.74	14.53	0.00	80.21	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled
MW-4	9/2/2022	94.74	13.90	0.00	80.84	--	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-5	10/4/2001	--	13.36	--	--	--	**0.0832**	**0.00391**	<0.0005	<0.0005	<0.0010	**0.00703** / <0.005	--	--	--	--	--	
MW-5	5/4/2002	--	13.30	--	--	--	**0.403**	**0.00442**	**0.000837**	**0.00153**	<0.0010	**0.0115** / <0.005	--	--	--	--	--	
MW-5	9/22/2002	--	12.25	--	--	--	**0.367**	**0.00446**	**0.000607**	**0.0026**	**0.00191**	**0.00913** / <0.005	--	--	--	--	--	
MW-5	5/30/2003	93.37	13.53	--	79.84	--	**0.200**	**0.002**	<0.0005	**0.002**	<0.0005	<0.002	--	--	--	--	--	
MW-5	10/2/2003	93.37	13.79	--	79.58	--	**0.300**	**0.003**	<0.0005	**0.005**	<0.0005	<0.002	--	--	--	--	--	
MW-5	6/2/2004	93.37	13.50	--	79.87	--	**0.260**	**0.0006**	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	--	
MW-5	9/22/2004	93.37	13.72	--	79.65	--	**0.099**	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	--	
MW-5	5/11/2005	93.37	13.24	--	80.13	--	**0.048**	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	--	
MW-5	9/22/2005	93.37	13.06	--	80.31	--	**0.140**	**0.0006**	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	--	
MW-5	5/9/2006	93.37	14.38	--	78.99	--	**0.013** / <0.010	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0015 / <0.0015	<0.0025 / <0.0025	--	--	--	--	--	

Table 1. Historical Groundwater Gauging and Analytical Results
Third Quarter 1999 through 2022
Chevron-Branded Service Station-91356
1465 West Northern Lights Boulevard
Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	DTW (ft bTOC)	LNAPL Thicknes (ft)	GWE ft msl	DRO mg/l	GRO mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Total Xylenes mg/l	MTBE mg/l	EDB mg/l	EDC mg/l	PCE mg/l	Chloroform mg/l	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.000075**	**0.0017**	**0.041**	**0.0022**	**0.0017**	
MW-5	9/20/2006	93.37	13.77	--	79.60	--	**0.110**	**0.0023**	<0.0005	**0.0028**	<0.0015	<0.0025	--	--	--	--	--	
MW-5	5/15/2007	93.37	14.31	--	79.06	--	**0.090**	**0.003**	<0.0010	**0.004**	<0.00300	<0.010	--	--	--	--	--	
MW-5	9/23/2007	93.37	14.17	--	79.20	--	**0.020**	<0.0010	<0.0010	**0.001**	<0.00300	<0.003	--	--	--	--	--	
MW-5	5/5/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	5/5/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	10/4/2001	--	13.11	--	--	--	<0.050	**0.000756**	<0.0005	<0.0005	<0.001	<0.001	--	--	--	--	--	
MW-6	5/4/2002	--	13.71	--	--	--	<0.050	**0.000367**	**0.000545**	<0.0005	<0.001	<0.001	--	--	--	--	--	
MW-6	9/22/2002	--	12.22	--	--	--	<0.050	**0.000271**	<0.0005	<0.0005	<0.001	<0.001	--	--	--	--	--	
MW-6	5/30/2003	92.89	13.29	--	79.60	--	**0.014**	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	--	
MW-6	10/2/2003	92.89	13.47	--	79.42	--	**0.017**	**0.0009**	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	--	
MW-6	6/2/2004	92.89	13.27	--	79.62	--	**0.015**	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	--	
MW-6	9/22/2004	92.89	13.36	--	79.53	--	**0.010**	**0.0007**	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	--	
MW-6	5/11/2005	92.89	12.98	--	79.91	--	**0.013**	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	--	
MW-6	9/22/2005	92.89	12.69	--	80.20	--	**0.015**	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	--	
MW-6	5/9/2006	92.89	14.14	--	78.75	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	<0.002	--	--	--	--	--	
MW-6	9/20/2006	92.89	13.45	--	79.44	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	<0.0025	--	--	--	--	--	
MW-6	5/15/2007	92.89	13.98	--	78.91	--	<0.010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0025	--	--	--	--	--	
MW-6	9/23/2007	92.89	13.84	--	79.05	--	**0.020**	<0.0010	<0.0010	<0.0010	<0.0020	<0.003	--	--	--	--	--	
MW-6	5/5/2008	92.89	13.89	--	79.00	--	<0.05	**0.00063**	<0.0005	<0.0005	<0.0015	<0.002	--	--	--	--	--	
MW-6	7/16/2008	92.89	13.82	--	79.07	**0.087**	**0.06**	**0.002**	<0.001	<0.001	<0.002	--	--	--	--	--	--	
MW-6	6/16/2009	92.89	14.02	--	78.87	<0.050	**0.016 J**	**0.0016 J**	<0.0005	<0.0005	<0.0015	--	--	--	--	--	--	
MW-6	8/27/2009	92.89	13.99	--	78.90	<0.050	**0.012 J**	**0.0007 J**	<0.0005	<0.0005	<0.0015	--	--	--	--	--	--	
MW-6	5/6/2010	92.89	14.25	--	78.64	<0.50	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	--	
MW-6	8/5/2010	92.89	13.98	--	78.91	**0.10 J**	**0.058 J**	**0.0027**	<0.0005	<0.0005	<0.0015	--	--	--	--	--	--	
MW-6	5/19/2011	92.89	14.34	--	78.55	**0.10 J**	**0.012 J**	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	--	
MW-6	8/23/2011	92.89	14.02	--	78.87	<0.050	<0.010	**0.0006 J**	<0.0005	<0.0005	<0.0015	--	--	--	--	--	--	
MW-6	5/23/2012	92.89	13.49	--	79.40	<0.048 J	**0.037 J**	**0.0006 J**	<0.0005	<0.0005	<0.0015	--	--	--	--	--	--	
MW-6	7/31/2012	92.89	13.42	--	79.47	<0.051	**0.013 J**	**0.0011 J**	<0.0005	<0.0005	<0.0015	--	--	--	--	--	--	Sample collected via Hydrasleeve
MW-6	5/23/2013	92.89	13.21	--	79.68	<0.050	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	--	--	<0.00022	**0.019**	**0.0029**	--	
MW-6	5/23/2013	92.89	13.21	--	79.68	**0.97**	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	--	--	<0.00022	**0.020**	**0.0025**	--	
MW-6	9/17/2013	92.89	12.66	--	80.23	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	9/18/2013	--	--	--	--	**0.71**	<0.050	**0.00032 J**	<0.00023	<0.00024	<0.00072	--	--	<0.00022	**0.023**	**0.00061 J**	--	
MW-6	5/1/2014	92.89	13.34	--	79.55	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	5/8/2014	--	--	--	--	<0.063	<0.050	**0.00024 J**	<0.00011	<0.00016	<0.00040	--	--	<0.00013	**0.013**	**0.0046**	--	
MW-6	9/23/2014	92.88	12.91	--	79.97	<0.065	<0.050	**0.00042 J**	<0.00011	<0.00016	<0.00040	--	--	<0.00013	**0.026**	**0.0044**	--	
MW-6	5/3/2015	92.88	13.78	--	79.10	<0.052	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	<0.0005	**0.011**	**0.007**	--	
MW-6	11/4/2015	92.88	13.16	--	79.72	<0.052	**0.012 J**	**0.0009 J**	<0.0005	<0.0005	<0.0005	--	--	<0.0005	**0.017**	**0.003**	--	
MW-6	4/20/2016	92.88	13.83	--	79.05	**0.081 J**	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	<0.0005	**0.012**	**0.002**	--	
MW-6	10/28/2016	92.88	13.63	--	79.25	<0.051	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	***<0.0005***	<0.0005	**0.006**	<0.0005	--	
MW-6	5/2/2017	79.25	14.07	--	62.58	**0.053 J**	**0.018 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	***<0.0005***	<0.0005	**0.015**	<0.0005	--	
MW-6	10/12/2017	79.25	13.81	--	65.44	<0.051	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	***<0.0005***	<0.0005	**0.012**	<0.0005	--	
MW-6	4/18/2018	79.25	14.11	--	65.14	<0.05J	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	***<0.0005***	<0.0005	**0.012**	<0.0005	--	TPH-d Non detects reported to LOQ
MW-6	9/5/2018	79.25	13.70	--	65.55	<0.14 J	<0.014	<0.0002 / <0.0002	<0.0002 / <0.0002	<0.0002 / <0.0002	<0.0005 / <0.0005	--	***<0.0003 / <0.0003***	<0.002 / <0.002	**0.013 / 0.011**	<0.0002 / <0.0002	--	
MW-6	4/22/2019	92.88	13.67	0.00	79.21	<0.26 B	<0.014	<0.0002	<0.0004	<0.0002	<0.0004	--	***<0.0002***	<0.0003	**0.014**	<0.001B	--	Well obstructed by ice could not
MW-6	9/20/2019	92.88	13.05	0.00	79.83	<0.09	<0.1	**0.00027 J**	<0.00039	<0.00050	<0.00114	--	<0.000014	<0.000024	**0.0099**	<0.00050B	--	Unable to locate well
MW-6	4/10/2020	92.88	13.85	0.00	79.03	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	11/12/2020	92.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	04/13/2021	92.88	13.55	0.00	79.33	--	--	**0.000252 J**	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	**0.00673 J**	**0.000148 J**	***<0.00500***	
MW-6	8/31/2021	92.88	12.73	0.00	80.15	--	--	**0.000475 J**	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	**0.000185 J**	0.0115	<0.00500	<0.00500	
MW-6	4/11/2022	92.88	13.27	0.00	79.61	--	--	<0.00100 B	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	**0.000170 J**	**0.00962 J**	**0.000212 J**	***<0.00500***	
MW-6	9/2/2022	92.88	12.15	0.00	80.73	--	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	**0.00789**	***<0.005***	***<0.00500 J***	
MW-7	9/20/2006	98.28	12.27	--	86.01	--	<0.010 / <0.010	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0015 / <0.0015	<0.0025 / <0.0025	--	--	--	--	--	
MW-7	5/15/2007	98.28	12.81	--	85.47	--	<0.010 / <0.010	<0.0005 / <0.0010	<0.0010 / <0.0010	<0.0010 / <0.0010	<0.0020 / <0.0020	<0.010 / <0.003	--	--	--	--	--	
MW-7	9/23/2007	98.28	12.66	--	85.62	--	<0.010	<0.0010	<0.0010	<0.0010	<0.0020	<0.003	--	--	--	--	--	
MW-7	5/5/2008	98.28	12.74	--	85.54	--	<0.050	<0.0005	<0.0005	<0.0005	<0.0015	<0.002	--	--	--	--	--	
MW-7	7/16/2008	98.28	12.64	--	85.64	**0.049**	<0.01	<0.001	<0.001	<0.001	<0.002	--	--	--	--	--	--	
MW-7	6/16/2009	98.28	12.85	--	85.43	**0.069 J**	**0.046 J**	**0.0029**	<0.0005	<0.0005	<0.0015	--	--	--	--	--	--	
MW-7	8/27/2009	98.28	12.81	--	85.47	**0.053 J**	**0.013 J**	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	--	Sample collected via Hydrasleeve
MW-7	5/23/2013	98.28	12.12	--	86.16	**0.070 J**	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	--	--	**0.00037 J**	<0.00029	<0.00027	--	
MW-7	5/23/2013	98.28	12.12	--	86.16	**1.4**	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	--	--	**0.00049 J**	<0.00029	<0.00027	--	
MW-7	9/17/2013	98.28	11.57	--	86.71	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	9/18/2013	--	--	--	--	**1.3**	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	--	--	**0.00086 J**	<0.00029	<0.00027	--	
MW-7	5/1/2014	98.28	12.40	--	85.88	**0.11 J**	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	--	--	<0.00013	<0.00016	<0.00016	--	
MW-7	9/23/2014	91.65	11.76	--	79.89	<0.060	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	--	--	**0.00057 J**	<0.00016	<0.00016	--	
MW-7	5/3/2015	91.65	12.73	--	78.92	**0.11 J**	<0.010	<0.0005 J	<0.0005 J	<0.0005 J	<0.0005 J	--	--	**0.0008 J**	<0.0005 J	<0.0005 J	--	
MW-7	11/04/20151	91.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	4/20/2016	91.65	12.78	--	78.87	**0.073 J**	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	<0.0005	<0.0005	<0.0005	--	
MW-7	10/28/2016	91.65	12.80	--	78.85	<0.051 / 0.34	<0.010 / <0.010	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	--	**<0.0005 / <0.0005**	**0.0009 J / 0.0009 J**	<0.0005 / <0.0005	<0.0005 / <0.0005	--	
MW-7	5/2/2017	78.85	13.10	--	62.18	**0.18 J**	**0.02 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**<0.0005**	<0.0005	<0.0005	<0.0005	--	
MW-7	10/12/2017	78.85	12.78	--	66.07	<0.050	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	**<0.0005**	<0.0005	<0.0005	<0.0005	--	

Table 1. Historical Groundwater Gauging and Analytical Results
Third Quarter 1999 through 2022
Chevron-Branded Service Station-91356
1465 West Northern Lights Boulevard
Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	DTW (ft bTOC)	LNAPL Thicknes (ft)	GWE ft msl	DRO mg/l	GRO mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Total Xylenes mg/l	MTBE mg/l	EDB mg/l	EDC mg/l	PCE mg/l	Chloroform mg/l	Naphthalene (mg/L)	Comments
	ADEC Groundwater Cleanup Levels					**1.5**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.000075**	**0.0017**	**0.041**	**0.0022**	**0.0017**	
MW-7	4/18/2018	78.85	13.10	--	65.75	<0.05 J	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	**<0.0005**	<0.0005	<0.0005	<0.0005	--	TPH-d Non detects reported to LOQ
MW-7	9/5/2018	78.85	12.68	--	66.17	<0.094 J	<0.014	<0.0002	<0.0002	<0.0002	<0.0005	--	**<0.0003**	<0.002	<0.0002	<0.0002	--	
MW-7	4/22/2019	91.68	12.68	0.00	79.00	<0.26 B	**0.016 J**	<0.0002	<0.0004	<0.0002	<0.0004	--	**<0.0002**	**0.0007 J**	<0.0002	<0.0002	--	Well obstructed by ice could not
MW-7	9/20/2019	91.68	11.84	0.00	79.84	**0.11 J**	<0.1	**0.000095 J**	<0.00039	<0.00050	<0.00114	--	<0.000014	<0.00050B	**0.00026 J**	<0.00050B	--	
MW-7	4/10/2020	91.68	12.80	0.00	78.88	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	11/12/2020	91.68	12.16	0.00	79.52	--	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	**0.000535 J**	<0.00100	***<0.00500***	**0.00252 J**	
MW-7	04/13/2021	91.68	12.6	0.00	79.08	--	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	**0.000399 J**	<0.00100	***<0.00500***	***<0.00500***	
MW-7	8/31/2021	91.68	11.75	0.00	79.93	--	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	**0.000599 J**	<0.00100	***<0.00500***	***<0.00500***	
MW-7	4/11/2022	91.68	12.32	0.00	79.36	--	--	--	--	--	--	--	--	--	--	--	--	Frozen
MW-7	9/2/2022	91.68	11.32	0.00	80.36	--	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	<0.00100	***<0.005***	***<0.00500 J***	
MW-8	9/20/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected via Hydrasleeve
																		comme
MW-9	7/31/2012	--	16.03	--	--	<0.051	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	<0.0005	**0.001 J**	**0.018**	--	
MW-9	5/23/2013	--	15.72	--	--	**0.10 J**	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	--	--	<0.00022	**0.0011**	**0.017**	--	
MW-9	5/23/2013	--	15.72	--	--	**0.50 J**	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	--	--	<0.00022	**0.0010**	**0.018**	--	
MW-9	9/17/2013	--	15.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	9/18/2013	--	--	--	--	**0.41 J**	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	--	--	<0.00022	**0.0013**	**0.017**	--	
MW-9	5/1/2014	--	15.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	5/7/2014	--	--	--	--	<0.060	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	--	--	<0.00013	**0.00069 J**	**0.0086**	--	
MW-9	9/23/2014	96.13	15.41	--	80.72	**0.063 J**	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	--	--	<0.00013	**0.00099 J**	**0.0070**	--	
MW-9	5/3/2015	96.13	16.18	--	79.95	<0.051	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	<0.0005	**0.0009 J**	**0.014**	--	
MW-9	11/4/2015	96.13	15.69	--	80.44	**0.11 J**	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	<0.0005	**0.001**	**0.016**	--	
MW-9	4/20/2016	96.13	16.31	--	79.82	**0.15 J**	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	<0.0005	**0.001**	**0.012**	--	
MW-9	10/27/2016	96.13	16.31	--	79.82	<0.050	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	***<0.0005***	<0.0005	**0.001**	**0.018**	--	
MW-9	5/2/2017	79.82	16.59	--	63.15	<0.052	**0.019 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	***<0.0005***	<0.0005	**0.001**	**0.014**	--	
MW-9	10/12/2017	79.82	16.28	--	63.54	<0.051	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	***<0.0005***	<0.0005	**0.001**	**0.015**	--	TPH-d Non detects reported to LOQ
MW-9	4/18/2018	79.82	16.52	--	63.30	<0.052 J	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	***<0.0005***	<0.0005	**0.001**	**0.006**	--	
MW-9	9/5/2018	79.82	16.11	--	63.71	<0.10 J	<0.014	<0.0002	<0.0002	<0.0002	<0.0005	--	***<0.0003***	<0.002	**0.0008 J**	**0.005**	--	
MW-9	4/22/2019	96.14	16.88	0.00	79.26	<0.27 B	<0.014	<0.0002	<0.0004	<0.0002	<0.0004	--	***<0.0002***	<0.0003	<0.001 B	**0.008**	--	
MW-9	9/20/2019	96.14	15.85	0.00	80.29	<0.094 [<0.093]	<0.1 [<0.1]	<0.0000090 [<0.0000090]	<0.00039 [<0.00039]	<0.00050 [<0.00050]	<0.00114 [<0.00114]	--	<0.000014 [<0.000014]	<0.000024 [<0.000024]	**0.00031 J [0.00034 J]**	**0.0093 [0.01]**	--	
MW-9	4/10/2020	96.14	16.01	0.00	80.13	--	--	<0.00100	**0.00293**	**0.00194**	**0.0162**	<0.00100	<0.0000500	<0.00100	<0.00100	**0.0117**	**0.00222 J**	
MW-9	11/12/2020	96.14	15.35	0.00	80.79	--	--	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00300 [<0.00300]	<0.00100 [<0.00100]	<0.0000500 [<0.0000500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	**0.0157 [0.0146]**	***<0.00500 [<0.00500]***	
MW-9	04/13/2021	96.14	15.72	0.00	80.42	--	--	<0.00100 J	<0.00100 J	<0.00100 J	<0.00300 J	<0.00100	<0.00000500	<0.00100 J	<0.00100 J	**0.00881**	***<0.00500***	
MW-9	8/31/2021	96.14	15.06	0.00	81.08	--	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	<0.00100	**0.0128**	***<0.00500***	
MW-9	4/11/2022	96.14	15.31	0.00	80.83	--	--	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00300 [<0.00300]	<0.00100 [<0.00100]	<0.00000500 [<0.00000500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	**0.0132 [0.0124]**	***<0.00500 [<0.00500]***	
MW-9	9/2/2022	96.14	14.95	0.00	81.19	--	--	<0.00100 J	<0.00100 J	<0.00100 J	<0.00300 J	<0.00100 J	<0.00000500	<0.00100 J	**0.000300 J**	**0.0134**	***<0.00500 J***	
QA (TB)	10/11/1999	--	--	--	--	--	<0.050	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	--	--	--	--	--	
QA (TB)	5/19/2000	--	--	--	--	--	<0.080	<0.0005	<0.0005	<0.0005	<0.0010	<0.002	--	--	--	--	--	
QA (TB)	9/28/2000	--	--	--	--	--	<0.050	<0.0002	**0.000899**	<0.0005	<0.0010	<0.001	--	--	--	--	--	
QA (TB)	5/4/2001	--	--	--	--	--	<0.050	--	--	--	--	--	--	--	--	--	--	
QA (TB)	10/4/2001	--	--	--	--	--	<0.050	<0.0002	<0.0005	<0.0005	<0.0010	<0.001	--	--	--	--	--	
QA (TB)	5/4/2002	--	--	--	--	--	<0.050	**0.000361**	<0.0005	<0.0005	<0.0010	<0.001	--	--	--	--	--	
QA (TB)	5/5/2008	--	--	--	--	--	<0.05	<0.0005	<0.0005	<0.0005	<0.0015	<0.002	--	--	--	--	--	
QA (TB)	7/16/2008	--	--	--	--	--	<0.01	<0.001	<0.001	<0.001	<0.002	--	--	--	--	--	--	
QA (TB)	6/10/2009	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	--	
QA (TB)	8/19/2009	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	--	
QA (TB)	5/6/2010	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	--	
QA (TB)	8/5/2010	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	--	
QA (TB)	5/19/2011	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	--	
QA (TB)	8/23/2011	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	--	
QA (TB)	7/31/2012	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	<0.0005	<0.0008	<0.0008	--	
QA (TB) - 1	5/23/2013	--	--	--	--	--	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	--	--	<0.00022	<0.00029	<0.00027	--	
QA (TB) - 2	5/23/2013	--	--	--	--	--	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	--	--	<0.00022	<0.00029	<0.00027	--	
QA (TB)	9/18/2013	--	--	--	--	--	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	--	--	<0.00022	<0.00029	<0.00027	--	
QA (TB)	5/7/2014	--	--	--	--	--	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	--	--	<0.00013	<0.00016	<0.00016	--	
QA (TB)	9/23/2014	--	--	--	--	--	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	--	--	<0.00013	<0.00016	<0.00016	--	
QA (TB)	5/3/2015	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	<0.0005	<0.0005	<0.0005	--	
QA (TB)	11/4/2015	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	
QA (TB)	4/20/2016	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	--	
QA (TB)	10/27/2016	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	<0.0005	<0.0005	<0.0005	--	
QA (TB)	5/2/2017	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	***<0.0005***	<0.0005	<0.0005	<0.0005	--	
QA (TB)	10/12/2017	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	***<0.0005***	<0.0005	<0.0005	<0.0005	--	
QA (TB)	4/18/2018	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	***<0.0005***	<0.0005	<0.0005	<0.0005	--	
QA (TB)	9/5/2018	--	--	--	--	--	<0.014	<0.0002	<0.0002	<0.0002	<0.0005	--	***<0.002***	<0.002	<0.0002	<0.0002	--	
QA (TB)	4/11/2019	--	--	--	--	--	<0.014	<0.0002	<0.0004	<0.0002	<0.0004	--	***<0.0002***	<0.0003	<0.0002	<0.0002	--	
QA (TB)	9/20/2019	--	--	--	--	--	<0.1	<0.0000090	<0.00039	<0.00050	<0.00114	--	<0.000014	<0.000024	<0.000017	<0.0000090	--	
QA (TB)	4/10/2020	--	--	--	--	--	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	<0.00100	<0.00500	<0.00500	
QA (TB)	11/12/2020	--	--	--	--	--	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	<0.00100	***<0.00500***	***<0.00500***	
QA (TB)	04/13/2021	--	--	--	--	--	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	<0.00100	***<0.00500***	***<0.00500***	

Table 1. Historical Groundwater Gauging and Analytical Results
Third Quarter 1999 through 2022
Chevron-Branded Service Station-91356
1465 West Northern Lights Boulevard
Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	DTW (ft bTOC)	LNAPL Thicknes (ft)	GWE ft msl	DRO mg/l	GRO mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Total Xylenes mg/l	MTBE mg/l	EDB mg/l	EDC mg/l	PCE mg/l	Chloroform mg/l	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.000075**	**0.0017**	**0.041**	**0.0022**	**0.0017**	
QA (TB)	8/31/2021	--	--	--	--	--	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	<0.00100	***<0.00500***	***<0.00500***	
QA (TB)	4/11/2022	--	--	--	--	--	--	**0.000122 J**	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	<0.00100	***<0.00500***	***<0.00500***	
QA (TB)	9/2/2022	--	--	--	--	--	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	<0.00100	***<0.00500***	***<0.00500 J***	
QA (EQB)	9/20/2019	--	--	--	--	<0.091	<0.1	<0.0000090	**0.00074 J**	<0.00050	<0.00114	--	<0.000014	**0.000034 J**	<0.000017	**0.00010 J**	--	
QA (EQB)	4/10/2020	--	--	--	--	--	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	<0.00100	<0.00500	***<0.00500***	
QA (EQB)	11/12/2020	--	--	--	--	--	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	<0.00100	***<0.00500***	***<0.00500***	
QA (EQB)	04/13/2021	--	--	--	--	--	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	<0.00100	***<0.00500***	***<0.00500***	
QA (EQB)	8/31/2021	--	--	--	--	--	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	<0.00100	***<0.00500***	**0.00125 J**	
QA (EQB)	4/11/2022	--	--	--	--	--	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	<0.00100	***<0.00500***	***<0.00500***	
QA (EQB)	9/2/2022	--	--	--	--	--	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	<0.00100	***<0.00500***	***<0.00500 J***	

Notes:

ID = Identification
MW = Groundwater monitoring well
TOC = Top of casing
DTW = Depth to groundwater
ft bTOC = Feet below top of casing
ft = Feet relative to NAVD88
GW Elev = Groundwater elevation
mg/L = Milligrams per liter
<0.00100 = Not detected at or above the reported detection limit (RDL)
Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level
Bold = Detected above laboratory method detection limit (MDL)
Bold and *Italicized* : Constituent considered non-detect, however Laboratory RDL is greater than the ADEC Groundwater Cleanup Level
-- = Not Available or Not Analyzed
LNAPL = Light Non-Aqueous Phase Liquid
[ ] = Blind Duplicate Sample
NADV88 = North American Vertical Datum of 1988
QA (TB) = Quality Assurance (Trip Blank)
QA (EQB) = Quality Assurance (Equipment Blank)

GRO = Total petroleum hydrocarbons, gasoline range by LUFT GC/MS according to United States Environmental Protection Agency (USEPA) Method AK101
DRO = Total petroleum hydrocarbons, diesel range by LUFT GC/MS according to State of Alaska Method AK102.
Samples analytes by USEPA Method 8260D:
Benzene, Toluene, Ethylbenzene, and Total xylenes (collectively BTEX)
EDB = 1,2-Dibromoethane
EDC = 1,2-Dichloroethane
PCE = Tetrachloroethene
MTBE = Methyl-t-butyl ether
Chloroform
Naphthalene
ADEC = Alaska Department of Environmental Conservation
B = Compound considered non-detect at the listed value due to associated blank contamination.
UJ =The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation
J = The associated numerical value is an estimated concentration only.
LUFT = Leaking Underground Fuel Tank
GC/MS = Gas chromatography/Mass Spectrometry
The laboratory for this site was changed from Eurofins Calscience to Pace Analytical prior to the first quarter 2020 groundwater monitoring event. Prior to this date, Eurofins Calscience was using the carbon ranges as follows: TPH-d as C13-C22. Pace Analytical reports the following carbon ranges: TPH-d as C12-C22.

Table 2. Historical Groundwater Analytical Results - Additional VOCs
Second Quarter 2020 through 2022
Chevron-Branded Service Station-91356
1465 West Northern Lights Boulevard
Anchorage, Alaska

Well ID	Sample Date	Acetone mg/L	Acrolein mg/L	Acrylonitrile mg/L	Bromobenzene mg/L	Bromochloromethane mg/L	Bromodichloromethane mg/L	Bromoform mg/L	Bromomethane mg/L	n-Butylbenzene mg/L	sec-Butylbenzene mg/L	tert-Butylbenzene mg/L	Carbon Disulfide mg/L	Carbon Tetrachloride mg/L
ADEC Groundwater Cleanup Levels		**14**	**--**	**--**	**0.062**	**--**	**0.0013**	**0.033**	**0.0075**	**1**	**2**	**0.69**	**0.81**	**0.0046**
MW-2	4/10/2020	<0.00500 [<0.00500]	<0.0500 [<0.0500]	<0.0100 [<0.0100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	**0.00114 [0.00100 J]**	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]
MW-2	11/12/2020	<0.0500 J	<0.0500 [<0.0500]	<0.0100 [<0.0100]	<0.00100 [<0.00100]	<0.00100	<0.00100 [<0.00100]	<0.00100	<0.00500	**0.00688** [<0.00100]	**0.00106** [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100
MW-2	04/13/2021	<0.0500 [<0.0500]	<0.0500 [<0.0500]	<0.0100 [<0.0100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	**0.00196 [0.00184]**	**0.00193 [0.0019]**	**0.00252 [0.00248]**	<0.00100 [<0.00100]	<0.00100 [<0.00100]
MW-2	8/31/2021	<0.0500 [<0.0500]	<0.0500 [<0.0500]	<0.0100 [<0.0100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	**0.00169 [0.00184]**	**0.00218 [0.00224]**	**0.00319 [0.00318]**	<0.00100 [<0.00100]	<0.00100 [<0.00100]
MW-2	4/11/2022	<0.0500 J	<0.0500 J	<0.0100	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00500 J	<0.00100	<0.00100 J	<0.00100	<0.00100 J	<0.00100 J
MW-2	9/2/2022	<0.0500 J [<0.0500 J]	<0.0500 [<0.0500]	<0.0100 [<0.0100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 J [<0.00100 J]	<0.00500 [<0.00500]	**0.00103 [0.000846 J]**	**0.00123 [0.000887 J]**	**0.00228 [0.00178]**	<0.00100 [<0.00100]	<0.00100 [<0.00100]
MW-3	8/31/2021	<0.0500	<0.0500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	**0.00425**	**0.00456**	**0.00469**	<0.00100	<0.00100
MW-3	4/11/2022	<0.0500	<0.0500 J	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	**0.00708**	**0.0187**	<0.00100	<0.00100
MW-3	9/2/2022	<0.0500 J	<0.0500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100 J	<0.00500	**0.00443**	**0.00483**	**0.00469**	<0.00100	<0.00100
MW-6	04/13/2021	<0.0500	<0.0500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	**0.000491 J**	<0.00100	<0.00100
MW-6	8/31/2021	<0.0500	<0.0500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	**0.000443 J**	**0.00167**	<0.00100	<0.00100
MW-6	4/11/2022	<0.0500	<0.0500 J	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	**0.000640 J**	**0.00161**	<0.00100	<0.00100
MW-6	9/2/2022	<0.0500 J	<0.0500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100 J	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	4/10/2020	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/12/2020	<0.0500	<0.0500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	04/13/2021	<0.0500	<0.0500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	8/31/2021	<0.0500	<0.0500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	4/11/2022	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	9/2/2022	<0.0500 J	<0.0500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100 J	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	4/10/2020	<0.0500	<0.0500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	**0.000385 J**	<0.00100	<0.00100	<0.00100
MW-9	11/12/2020	<0.0500 [<0.0500]	<0.0500	<0.0100	<0.00100	<0.00100 [<0.00100]	<0.00100	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100	<0.00100	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]
MW-9	04/13/2021	<0.0500	<0.0500	<0.0100	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00500 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J
MW-9	8/31/2021	<0.0500	<0.0500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	4/11/2022	<0.0500 [<0.0500]	<0.0500 J [<0.0500 J]	<0.0100 [<0.0100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]
MW-9	9/2/2022	<0.0500 J	<0.0500	<0.0100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00500	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J
QA (EB)	4/10/2020	<0.0500	<0.0500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (EB)	11/12/2020	<0.0500	<0.0500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (EB)	04/13/2021	<0.0500	<0.0500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (EB)	8/31/2021	**0.0142 J**	<0.0500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (EB)	4/11/2022	<0.0500	<0.0500 J	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (EB)	9/2/2022	<0.0500 J	<0.0500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100 J	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (TB)	4/10/2020	<0.0500	<0.0500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (TB)	11/12/2020	<0.0500	<0.0500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (TB)	04/13/2021	<0.0500	<0.0500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (TB)	8/31/2021	<0.0500	<0.0500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (TB)	4/11/2022	<0.0500	<0.0500 J	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	**0.000497 J**	<0.00100
QA (TB)	9/2/2022	<0.0500 J	<0.0500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100 J	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 2. Historical Groundwater Anal
Second Quarter 2020 through 2022
Chevron-Branded Service Station-9135
1465 West Northern Lights Boulevard
Anchorage, Alaska

Well ID	Sample Date	Chlorobenzene mg/L	Chlorodibromomethane (Dibromochloromethane) mg/L	Chloroethane mg/L	Chloromethane mg/L	2-Chlorotoluene (o-Chlorotoluene) mg/L	4-Chlorotoluene (p-Chlorotoluene) mg/L	1,2-Dibromo-3-chloropropane mg/L	Dibromomethane (Methylene bromide) mg/L	1,2-Dichlorobenzene mg/L	1,3-Dichlorobenzene mg/L	1,4-Dichlorobenzene mg/L	Dichlorodifluoromethane (Freon 12) mg/L	1,1-Dichloroethane mg/L
ADEC Groundwater Cleanup Levels		**0.078**	**0.0087**	**--**	**0.19**	**--**	**--**	**--**	**0.0083**	**0.3**	**0.3**	**0.0048**	**0.2**	**0.028**
MW-2	4/10/2020	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00250 [<0.00250]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]
MW-2	11/12/2020	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100 [<0.00100]	<0.00100 J [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
MW-2	04/13/2021	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00250 [<0.00250]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 J [<0.00500 J]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]
MW-2	8/31/2021	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00250 [<0.00250]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]
MW-2	4/11/2022	<0.00100 J	<0.00100 J	<0.00500 J	<0.00250 J	<0.00100 J	<0.00100	<0.00500	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00500 J	<0.00100 J
MW-2	9/2/2022	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00250 [<0.00250]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 J [<0.00500 J]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]
MW-3	8/31/2021	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
MW-3	4/11/2022	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
MW-3	9/2/2022	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500 J	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
MW-6	04/13/2021	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500 J	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
MW-6	8/31/2021	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
MW-6	4/11/2022	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
MW-6	9/2/2022	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500 J	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
MW-7	4/10/2020	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/12/2020	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
MW-7	04/13/2021	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500 J	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
MW-7	8/31/2021	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
MW-7	4/11/2022	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	9/2/2022	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500 J	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
MW-9	4/10/2020	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100 J	<0.00100	<0.00100	<0.00500	<0.00100
MW-9	11/12/2020	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00250 [<0.00250]	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]
MW-9	04/13/2021	<0.00100 J	<0.00100 J	<0.00500	<0.00250 J	<0.00100 J	<0.00100 J	<0.00500 J	<0.00100	<0.00100 J	<0.00100 J	<0.00100 J	<0.00500 J	<0.00100 J
MW-9	8/31/2021	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
MW-9	4/11/2022	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00250 [<0.00250]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]
MW-9	9/2/2022	<0.00100 J	<0.00100 J	<0.00500 J	<0.00250 J	<0.00100 J	<0.00100 J	<0.00500 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00500 J	<0.00100 J
QA (EB)	4/10/2020	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
QA (EB)	11/12/2020	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
QA (EB)	04/13/2021	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500 J	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
QA (EB)	8/31/2021	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
QA (EB)	4/11/2022	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
QA (EB)	9/2/2022	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500 J	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
QA (TB)	4/10/2020	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
QA (TB)	11/12/2020	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
QA (TB)	04/13/2021	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500 J	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
QA (TB)	8/31/2021	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
QA (TB)	4/11/2022	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100
QA (TB)	9/2/2022	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00500 J	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100

Table 2. Historical Groundwater Anal
Second Quarter 2020 through 2022
Chevron-Branded Service Station-9135
1465 West Northern Lights Boulevard
Anchorage, Alaska

Well ID	Sample Date	1,1-Dichloroethene mg/L	cis-1,2-Dichloroethene (cis-1,2-Dichloroethylene) mg/L	trans-1,2-Dichloroethene (trans-1,2-Dichloroethylene) mg/L	1,2-Dichloropropane mg/L	1,3-Dichloropropane mg/L	2,2-Dichloropropane mg/L	1,1-Dichloropropene mg/L	cis-1,3-Dichloropropene mg/L	trans-1,3-Dichloropropene mg/L	Di-isopropyl ether mg/L	Hexachloro-1,3-butadiene (Hexachlorobutadiene) mg/L	Isopropylbenzene (Cumeme) mg/L	p-Isopropyltoluene mg/L
ADEC Groundwater Cleanup Levels		**0.28**	**0.036**	**0.36**	**0.0082**	**--**	**--**	**--**	**--**	**--**	**--**	**0.0014**	**0.45**	**--**
MW-2	4/10/2020	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	**0.00448 [0.00420]**	**0.00457 [0.00457]**
MW-2	11/12/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	**0.00660**	**0.0032 [<0.00100]**
MW-2	04/13/2021	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 J [<0.00100 J]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	**0.0106 [0.0103]**	**0.000852 J [0.000870 J]**
MW-2	8/31/2021	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	**0.00911 [0.00945]**	**0.000434 J [0.000437 J]**
MW-2	4/11/2022	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	**0.00801**	**0.00505**
MW-2	9/2/2022	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 J [<0.00100 J]	**0.00683 [0.00618]**	**0.00306 [0.00254]**
MW-3	8/31/2021	<0.00100	**0.0110**	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.00939**	**0.000770 J**
MW-3	4/11/2022	<0.00100	**0.00873**	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.0139**	**0.00584**
MW-3	9/2/2022	<0.00100	**0.0086**	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100 J	**0.00886**	**0.00207**
MW-6	04/13/2021	<0.00100	**0.000685 J**	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100 J	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	8/31/2021	<0.00100	**0.00175**	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	4/11/2022	<0.00100	**0.00261**	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.000170 J**	**0.000401 J**
MW-6	9/2/2022	<0.00100	**0.00103**	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100 J	<0.00100	<0.00100
MW-7	4/10/2020	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/12/2020	<0.00100	**0.000141 J**	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	04/13/2021	<0.00100	**0.000129 J**	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100 J	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	8/31/2021	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	4/11/2022	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	9/2/2022	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100 J	<0.00100	<0.00100
MW-9	4/10/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.000310 J**	**0.000925 J**
MW-9	11/12/2020	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100 [<0.00100]	<0.00100
MW-9	04/13/2021	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100	<0.00100	<0.00100 J	<0.00100 J	<0.00100 J
MW-9	8/31/2021	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	4/11/2022	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]
MW-9	9/2/2022	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100	<0.00100 J	<0.00100 J	<0.00100 J
QA (EB)	4/10/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (EB)	11/12/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (EB)	04/13/2021	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100 J	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (EB)	8/31/2021	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (EB)	4/11/2022	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (EB)	9/2/2022	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100 J	<0.00100	<0.00100
QA (TB)	4/10/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (TB)	11/12/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (TB)	04/13/2021	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100 J	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (TB)	8/31/2021	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (TB)	4/11/2022	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (TB)	9/2/2022	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100 J	<0.00100	<0.00100

Table 2. Historical Groundwater Anal
Second Quarter 2020 through 2022
Chevron-Branded Service Station-9135
1465 West Northern Lights Boulevard
Anchorage, Alaska

Well ID	Sample Date	2-Butanone (Methyl ethyl ketone)	Methylene chloride	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	n-Propylbenzene (Propylbenzene)	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (Trichloroethylene)
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
ADEC Groundwater Cleanup Levels		**5.6**	**0.11**	**6.3**	**0.66**	**1.2**	**0.0057**	**0.00076**	**0.007**	**0.004**	**8**	**0.00041**	**0.0028**
MW-2	4/10/2020	<0.0100 [<0.0100]	<0.00500 [<0.00500]	**0.000932 J [0.000770 J]**	**0.0147 [0.014]**	<0.00100 [<0.00100]	<0.00100 [<0.00100]	***<0.00100 [<0.00100]***	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	***<0.00100 [<0.00100]***	<0.00100 [<0.00100]
MW-2	11/12/2020	<0.0100	<0.00500	<0.0100	**0.0206** [<0.00100]	<0.00100	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	***<0.00100***	**0.000871 J**
MW-2	04/13/2021	<0.0100 [<0.0100]	<0.00500 [<0.00500]	<0.0100 [<0.0100]	**0.0279 [0.0275]**	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	***<0.00100 [<0.00100]***	<0.00100 [<0.00100]
MW-2	8/31/2021	<0.0100 [<0.0100]	<0.00500 [<0.00500]	<0.0100 [<0.0100]	**0.0349 J [0.0340 J]**	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	***<0.00100 [<0.00100]***	**0.00359 [0.00358]**
MW-2	4/11/2022	<0.0100	<0.00500 J	<0.0100	**0.0207**	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100	<0.00100 J	<0.00100 J	***<0.00100 J***	**0.000671 J**
MW-2	9/2/2022	<0.0100 [<0.0100]	<0.00500 [<0.00500]	**0.000543 J [0.000567 J]**	**0.0192 [0.0151]**	<0.00100 [<0.00100]	<0.00100 [<0.00100]	***<0.00100 [<0.00100]***	<0.001 J [<0.00100 J]	<0.00100 J [<0.00100 J]	<0.00100 [<0.00100]	***<0.00100 [<0.00100]***	**0.0027 [0.00254]**
MW-3	8/31/2021	<0.0100	<0.00500	<0.0100	**0.0329 J**	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**<0.00100**	**0.00431**
MW-3	4/11/2022	<0.0100	<0.00500	<0.0100	**0.0434**	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	***<0.00100***	**0.00388**
MW-3	9/2/2022	<0.0100	<0.00500	<0.0100	**0.0297**	<0.00100	<0.00100	***<0.00100***	<0.00100 J	<0.00100 J	<0.00100	***<0.00100***	**0.00365**
MW-6	04/13/2021	<0.0100	<0.00500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	***<0.00100***	**<0.00100**
MW-6	8/31/2021	<0.0100	<0.00500	<0.0100	<0.00100 B	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**<0.00100**	**0.000411 J**
MW-6	4/11/2022	<0.0100	<0.00500	<0.0100	<0.00100 B	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	***<0.00100***	**0.000323 J**
MW-6	9/2/2022	<0.0100	<0.00500	<0.0100	<0.00100	<0.00100	<0.00100	***<0.00100***	<0.00100 J	<0.00100 J	<0.00100	***<0.00100***	**0.000342 J**
MW-7	4/10/2020	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/12/2020	<0.0100	<0.00500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	***<0.00100***	<0.00100
MW-7	04/13/2021	<0.0100	<0.00500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	***<0.00100***	<0.00100
MW-7	8/31/2021	<0.0100	<0.00500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	***<0.00100***	<0.00100
MW-7	4/11/2022	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	9/2/2022	<0.0100	<0.00500	<0.0100	<0.00100	<0.00100	<0.00100	***<0.00100***	<0.00100 J	<0.00100 J	<0.00100	***<0.00100***	<0.00100
MW-9	4/10/2020	<0.0100	<0.00500	<0.0100	**0.00122**	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	***<0.00100***	<0.00100
MW-9	11/12/2020	<0.0100 [<0.0100]	<0.00500 [<0.00500]	<0.0100 [<0.0100]	<0.00100	<0.00100 [<0.00100]	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	***<0.00100 [<0.00100]***	<0.00100 [<0.00100]
MW-9	04/13/2021	<0.0100	<0.00500 J	<0.0100	<0.00100	<0.00100 J	<0.00100 J	<0.00100	<0.00100	<0.00100	<0.00100 J	***<0.00100***	<0.00100 J
MW-9	8/31/2021	<0.0100	<0.00500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	***<0.00100***	<0.00100
MW-9	4/11/2022	<0.0100 [<0.0100]	<0.00500 [<0.00500]	<0.0100 [<0.0100]	<0.00100 [<0.00100 B]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	***<0.00100 [<0.00100]***	<0.00100 [<0.00100]
MW-9	9/2/2022	<0.0100 J	<0.00500 J	<0.0100 J	<0.00100 J	<0.00100 J	<0.00100 J	***<0.00100 J***	<0.00100 J	<0.00100 J	<0.00100 J	***<0.00100 J***	<0.00100 J
QA (EB)	4/10/2020	<0.0100	<0.00500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	***<0.00100***	<0.00100
QA (EB)	11/12/2020	<0.0100	<0.00500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (EB)	04/13/2021	<0.0100	<0.00500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (EB)	8/31/2021	<0.0100	<0.00500	<0.0100	0.000166 J	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (EB)	4/11/2022	<0.0100	<0.00500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (EB)	9/2/2022	<0.0100	<0.00500	<0.0100	<0.00100	<0.00100	<0.00100	***<0.00100***	<0.00100 J	<0.00100 J	<0.00100	<0.00100	<0.00100
QA (TB)	4/10/2020	<0.0100	<0.00500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	***<0.00100***	<0.00100
QA (TB)	11/12/2020	<0.0100	<0.00500	<0.0100	<0.00100	<0.00100	<0.00100	***<0.00100***	<0.00100	<0.00100	<0.00100	***<0.00100***	<0.00100
QA (TB)	04/13/2021	<0.0100	<0.00500	<0.0100	<0.00100	<0.00100	<0.00100	***<0.00100***	<0.00100	<0.00100	<0.00100	***<0.00100***	<0.00100
QA (TB)	8/31/2021	<0.0100	<0.00500	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	***<0.00100***	<0.00100
QA (TB)	4/11/2022	<0.0100	<0.00500	<0.0100	0.000427 J	**0.000458 J**	<0.00100	***<0.00100***	<0.00100	<0.00100	<0.00100	***<0.00100***	<0.00100
QA (TB)	9/2/2022	<0.0100	<0.00500	<0.0100	<0.00100	<0.00100	<0.00100	***<0.00100***	<0.00100 J	<0.00100 J	<0.00100	***<0.00100***	<0.00100

Table 2. Historical Groundwater Anal
Second Quarter 2020 through 2022
Chevron-Branded Service Station-9135
1465 West Northern Lights Boulevard
Anchorage, Alaska

Well ID	Sample Date	Trichlorofluoromethane (Freon 11) mg/L	1,2,3-Trichloropropane mg/L	1,1,2-Trichlorotrifluoroethane (1,1,2-Trichloro-1,2,2-trifluroethane) mg/L	1,2,3-Trimethylbenzene mg/L	1,2,4-Trimethylbenzene mg/L	1,3,5-Trimethylbenzene mg/L	Vinyl Chloride mg/L	Comments
ADEC Groundwater Cleanup Levels		**5.2**	**0.0000075**	**10**	**--**	**0.056**	**0.060 mg/L**	**0.00019**	
MW-2	4/10/2020	<0.00500 [<0.00500]	***<0.000500 [<0.000500]***	<0.00100 [<0.00100]	**0.00579 [0.00586]**	**0.129 [0.124]**	**0.0345 [0.031]**	<0.00100 [<0.00100]	
MW-2	11/12/2020	<0.00500	***<0.000500 [<0.00000500]***	<0.00100	**0.00664** [<0.00100]	**0.0838**	<0.00100 [<0.00100]	***<0.00100***	
MW-2	04/13/2021	<0.00500 [<0.00500]	***<0.000250 [<0.000250]***	<0.00100 [<0.00100]	**0.00399 [0.00341]**	**0.121 [0.115]**	**0.011 [0.00914]**	<0.00100 [<0.00100]	
MW-2	8/31/2021	<0.00500 [<0.00500]	***<0.000125 [<0.000125]***	<0.00100 [<0.00100]	**0.00225 [0.00207]**	**0.0896 [0.0883]**	**0.00181 [0.0017]**	<0.00100 [<0.00100]	
MW-2	4/11/2022	<0.00500 J	***<0.000125***	<0.00100 J	**0.0202**	**0.200**	**0.0314**	<0.00100 J	
MW-2	9/2/2022	<0.00500 [<0.00500]	***<0.000125 [<0.000125]***	<0.00100 [<0.00100]	**0.0105 [0.00853]**	**0.115 [0.0935]**	**0.0107 [0.00786]**	***<0.00100 [<0.00100]***	
MW-3	8/31/2021	<0.00500	***<0.000125***	<0.00100	**0.00534**	**0.0358**	**0.00586**	***<0.00100***	
MW-3	4/11/2022	<0.00500	***<0.000125***	<0.00100	**0.0059**	<0.00100	**0.00439**	***<0.00100 J***	
MW-3	9/2/2022	<0.00500	***<0.000125***	<0.00100	**0.00294**	**0.0401**	**0.000736 J**	***<0.00100***	
MW-6	04/13/2021	<0.00500	<0.00000500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	
MW-6	8/31/2021	<0.00500	<0.00000500	<0.00100	<0.00100	<0.00100	<0.00100	**0.000853 J**	
MW-6	4/11/2022	<0.00500	<0.00000500	<0.00100	<0.00100	**0.00111**	**0.000386 J**	**0.00107 J**	
MW-6	9/2/2022	<0.00500	<0.00000500	<0.00100	<0.00100	<0.00100	<0.00100	**0.000234 J**	
MW-7	4/10/2020	--	--	--	--	--	--	--	Well obstructed by ice could not be sampled
MW-7	11/12/2020	<0.00500	<0.00000500	<0.00100	<0.00100	**0.000437 J**	<0.00100	***<0.00100***	
MW-7	04/13/2021	<0.00500	<0.00000500	<0.00100	<0.00100	**<0.00100**	<0.00100	***<0.00100***	
MW-7	8/31/2021	<0.00500	<0.00000500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	
MW-7	4/11/2022	--	--	--	--	--	--	--	Frozen
MW-7	9/2/2022	<0.00500	<0.00000500	<0.00100	<0.00100	<0.00100	<0.00100	***<0.00100***	
MW-9	4/10/2020	<0.00500	***<0.0000500***	<0.00100	**0.00458**	**0.0157**	**0.00371**	<0.00100	
MW-9	11/12/2020	<0.00500 [<0.00500]	***<0.0000500***	<0.00100 [<0.00100]	<0.00100	<0.00100 [<0.00100]	<0.00100	***<0.00100 [<0.00100]***	
MW-9	04/13/2021	<0.00500 J	<0.00000500	<0.00100 J	<0.00100 J	<0.00100	<0.00100 J	***<0.00100 J***	
MW-9	8/31/2021	<0.00500	<0.00000500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	
MW-9	4/11/2022	<0.00500 [<0.00500]	<0.00000500 [<0.00000500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	***<0.00100 J [<0.00100 J]***	
MW-9	9/2/2022	<0.00500 J	<0.00000500	<0.00100 J	<0.00100 J	<0.00100 J	<0.00100 J	***<0.00100 J***	
QA (EB)	4/10/2020	<0.00500	<0.00000500	<0.00100	<0.00100	<0.00100	<0.00100	***<0.00100***	
QA (EB)	11/12/2020	<0.00500	<0.00000500	<0.00100	<0.00100	<0.00100	<0.00100	***<0.00100***	
QA (EB)	04/13/2021	<0.00500	<0.00000500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	
QA (EB)	8/31/2021	<0.00500	<0.00000500	<0.00100	<0.00100	**0.000429 J**	<0.00100	<0.00100	
QA (EB)	4/11/2022	<0.00500	<0.00000500	<0.00100	<0.00100	<0.00100	<0.00100	***<0.00100 J***	
QA (EB)	9/2/2022	<0.00500	<0.00000500	<0.00100	<0.00100	<0.00100	<0.00100	***<0.00100***	
QA (TB)	4/10/2020	<0.00500	<0.00000500	<0.00100	<0.00100	<0.00100	<0.00100	***<0.00100***	
QA (TB)	11/12/2020	<0.00500	<0.00000500	<0.00100	<0.00100	<0.00100	<0.00100	***<0.00100***	
QA (TB)	04/13/2021	<0.00500	<0.00000500	<0.00100	<0.00100	<0.00100	<0.00100	***<0.00100***	
QA (TB)	8/31/2021	<0.00500	<0.00000500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	
QA (TB)	4/11/2022	<0.00500	<0.00000500	<0.00100	<0.00100	<0.00100	<0.00100	***<0.00100 J***	
QA (TB)	9/2/2022	<0.00500	<0.00000500	<0.00100	<0.00100	**0.000369 J**	<0.00100	***<0.00100***	

Table 2. Historical Groundwater Analytical Results - Additional VOCs
Second Quarter 2020 through 2022
Chevron-Branded Service Station-91356
1465 West Northern Lights Boulevard
Anchorage, Alaska

Notes:
ID = Identification
MW = Groundwater monitoring well
mg/L = Milligrams per liter
<0.00100 = Not detected at or above the Reported Detection Limit
Bold = Detected above laboratory method detection limit (MDL)
Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level
Bold and Italicized : Constituent considered non-detect, however Laboratory RDL is greater than the ADEC Groundwater Cleanup Level
J = The associated numerical value is an estimated concentration only.
[ ] = Blind Duplicate Sample Result
QA (EQB) = Quality Assurance (Equipment Blank)
QA (TB) = Quality Assurance (Trip Blank)
ADEC = Alaska Department of Environmental Conservation
Constituents analyzed by United States Environmental Protection Agency Method 8260D

Attachment D

ADEC Data Review Checklist

Laboratory Data Review Checklist

Completed By:

Bhagyashree A Fulzele

Title:

Project Chemist

Date:

August 22, 2024

Consultant Firm:

ARCADIS U.S., Inc

Laboratory Name:

Pace Analytical

Laboratory Report Number:

L1765404

Laboratory Report Date:

08/15/2024

CS Site Name:

Second Half 2024 Groundwater Monitoring Report

ADEC File Number:

2100.26.065

Hazard Identification Number:

23313

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

1. Laboratory

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

   Yes☒ No☐ N/A☐ Comments:

Yes.

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

   Yes☐ No☐ N/A☒ Comments:

Not applicable.

2. Chain of Custody (CoC)

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

   Yes☒ No☐ N/A☐ Comments:

Yes.

   b. Were the correct analyses requested?

   Yes☒ No☐ N/A☐ Comments:

Yes.

3. Laboratory Sample Receipt Documentation

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

   Yes☒ No☐ N/A☐ Comments:

Yes.

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

   Yes☒ No☐ N/A☐ Comments:

Yes.

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

   Yes☒ No☐ N/A☐ Comments:

Yes.

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

   Yes☒ No☐ N/A☐ Comments:

Yes, no discrepancies.

e. Is the data quality or usability affected?

Comments:

Data quality or usability was not affected.

4. Case Narrative

a. Is the case narrative present and understandable?

Yes☒ No☐ N/A☐ Comments:

Yes.

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

Yes☒ No☐ N/A☐ Comments:

Yes.

c. Were all corrective actions documented?

Yes☒ No☐ N/A☐ Comments:

Yes.

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

Comments:

Data quality/usability was not affected.

5. Samples Results

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

Yes☒ No☐ N/A☐ Comments:

Yes.

b. Are all applicable holding times met?

Yes☒ No☐ N/A☐ Comments:

Yes.

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

Yes☐ No☐ N/A☒ Comments:

No soil samples were submitted for analysis.

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

Yes☒ No☐ N/A☐ Comments:

Yes.

e. Is the data quality or usability affected?

Data quality/usability was not affected.

6. QC Samples

a. Method Blank

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

Yes☒ No☐ N/A☐ Comments:

Yes.

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

Yes☒ No☐ N/A☐ Comments:

Yes.

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

Comments:

None of the samples were affected.

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

Yes☐ No☐ N/A☒ Comments:

Not applicable.

v. Data quality or usability affected?

Comments:

Data quality or usability was not affected.

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

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

Yes☒ No☐ N/A☐ Comments:

Yes.

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

Yes☐ No☐ N/A☒ Comments:

Not applicable.

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

Yes☒ No☐ N/A☐ Comments:

Yes.

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

Yes☒ No☐ N/A☐ Comments:

Yes.

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

Comments:

None of the samples were affected.

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

Yes☐ No☐ N/A☒ Comments:

Not applicable.

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

Comments:

Data quality or usability was not affected.

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

Note: Leave blank if not required for project

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

Yes☐ No☒ N/A☐ Comments:

The MS/MSD analysis was not performed on any of the samples from this SDG.

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

Yes☐ No☐ N/A☒ Comments:

Not applicable.

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:

Not applicable.

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

Yes☐ No☐ N/A☒ Comments:

Not applicable.

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

Comments:

None of the samples were affected.

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

Yes☐ No☐ N/A☒ Comments:

Not applicable.

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

Comments:

Data quality or usability was not affected.

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

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

Yes☒ No☐ N/A☐ Comments:

Yes.

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

Yes☒ No☐ N/A☐ Comments:

Yes.

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:

Not applicable.

iv. Is the data quality or usability affected?

Comments:

Data quality or usability was not affected.

e. Trip Blanks

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

Yes☒ No☐ N/A☐ Comments:

Trip blank samples were collected as TRIP BLANK-20240807.

ii. Are all results less than LOQ or RL?

Yes☒ No☐ N/A☐ Comments:

Yes.

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

Comments:

None of the samples were affected.

iv. Is data quality or usability affected?

Comments:

Data quality or usability was not affected.

f. Field Duplicate

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

Yes☒ No☐ N/A☐ Comments:

Yes.

ii. Was the duplicate submitted blind to lab?

Yes☒ No☐ N/A☐ Comments:

Yes.

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

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

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

Yes☒ No☐ N/A☐ Comments:

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Method	Compounds	Sample Result	Duplicate Result	RPD
MW-2-W-20240807 / BD-1-W-20240807	8260D	Ethylbenzene	4.47	4.9	AC
		Naphthalene	3.47	4.35	AC
		Tetrachloroethene	42.2	42.6	0.9 %
		Trichloroethene	1.08	0.961	AC
		1,2,4-Trimethylbenzene	19	23.2	19.9 %
		1,3,5-Trimethylbenzene	1.4	1.76	AC
		Xylenes, Total	3.05	3.87	AC
		o-Xylene	0.261	0.389	AC
		m&p-Xylene	2.79	3.48	AC

The calculated RPDs between the parent sample and field duplicate were acceptable.

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

Comments:

Data quality or usability was not affected.

g. Decontamination or Equipment Blank

i. Were decontamination or equipment blanks collected?

Yes☒ No☐ N/A☐ Comments:

Equipment blank sample was collected as EQB-1-W-20240807.

ii. Are all results less than LOQ or RL?

Yes☐ No☒ N/A☐ Comments:

No.

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

Comments:

None of the samples were affected.

iv. Are data quality or usability affected?

Comments:

Data quality or usability was not affected.

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

a. Are they defined and appropriate?

Yes☒ No☐ N/A☐ Comments:

Yes.

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

Sample ID	Initial/Continuing	Compounds	Recovery
MW-1-W-20240807 MW-2-W-20240807 MW-3-W-20240807 MW-4-W-20240807 MW-6-W-20240807 MW-7-W-20240807 MW-9-W-20240807 BD-1-W-20240807 EQB-1-W-20240807 TRIP BLANK-20240807	CCV %D	Naphthalene	Low

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