BY:
Shannon & Wilson, Inc.
5430 Fairbanks Street, Suite 3
Anchorage, Alaska 99518

(907) 561-2120
www.shannonwilson.com

JUNE 2022 GROUNDWATER MONITORING EVENT 250 Post Road ANCHORAGE, ALASKA; ADEC FILE NO. 2100.38.036







PAGE INTENTIONALLY LEFT BLANK FOR DOUBLE-SIDED PRINTING

107454-002 August 2022

Submitted To: Kelly-Moore Paint Co., Inc.

> 301 West Hurst Drive Hurst, Texas 76053 Attn: Mary Logue

Subject: JUNE 2022 GROUNDWATER MONITORING EVENT, 250 POST ROAD,

ANCHORAGE, ALASKA; ADEC FILE NO. 2100.38.036

Shannon & Wilson prepared this report and participated in this project as a consultant for Kelly-Moore Paint Co., Inc. Our scope of services was specified in our proposal dated March 8, 2022. Written authorization to proceed with this project was received from Ms. Mary Logue of Kelly-Moore Paint Co., Inc. on April 10, 2022 in the form of a signed proposal. This report presents the results of our 2022 annual groundwater monitoring and was prepared by the undersigned.

We appreciate the opportunity to be of service to you on this project. If you have questions concerning this report, or we may be of further service, please contact us.

Sincerely,

SHANNON & WILSON, INC.

Judy Hepner **Environmental Staff** LeeAnne Osgood, PE Associate

JKH:DLO/DXM

EXECUTIVE SUMMARY

The June 2022 monitoring activities at 250 Post Road consisted of collecting groundwater samples to monitor volatile organic compound (VOC) concentration trends in the groundwater plume at the site. Nine VOCs (1,1-dichloroethane, 1,1,1-trichloroethane, 1,2,3-trichlorobenzene [1,2,3-TCB], 1,2,4-trichlorobenzene [1,2,4-TCB], trichloroethylene [TCE], 1,2-dichlorobenzene [1,2-DCB], 1,3-dichlorobenzene [1,3-DCB], 1,4-dichlorobenzene [1,4-DCB], and/or cis-1,2-dichloroethene) were detected in one or more project samples. Concentrations exceeding the Alaska Department of Environmental Conservation (ADEC) Table C Cleanup Levels include:

- TCE in Samples MW-6 and MW-106 (duplicate of MW-6);
- 1,2,4-TCB in Samples MW-4, MW-6, and MW-106 (duplicate of MW-6); and,
- 1,4-DCB in Samples MW-4.

The Well MW-4 groundwater sample continues to exhibit TCE concentrations less than the ADEC Table C cleanup level.

The Mann-Kendall test was used to evaluate for the presence or absence of statistically significant trends for TCE, 1,2,4-TCB, and 1,4-DCB in Wells MW-4 and MW-6. The data collected since implementation of low-flow sampling in December 2016 indicate the following at a greater than 90 percent confidence level:

- TCE decreasing trend in Wells MW-4 and MW-6;
- 1,2,4-TCB no trend in Well MW-4 and increasing trend in Well MW-6; and,
- 1,4-DCB no trend in Wells MW-4 and MW-6.

Although a statistically increasing trend is demonstrated by the Mann-Kendall test since implementation of low-flow sampling, the 1,2,4-TCB concentrations in Well MW-6 are approximately one third of the initial December 2003 concentration and a visual qualitative review of the time series plot demonstrates no apparent trend.

CONTENTS

1	Intro	oduction	1
2		and Project Description	
	2.1	Site Location and Description	
	2.2	Background	
	2.3	Project Purpose and Objectives	
3	Field	l Activities	
	3.1	Site Access and Preparation	
	3.2	Groundwater Sampling	
4	Labo	pratory Analysis	4
5	Disc	ussion of Analytical Results	4
	5.1	Monitoring Well Samples	4
	5.2	Quality Assurance Summary	6
6	Inve	stigation-Derived Waste Disposal	6
7	Sum	mary	7
8	Clos	ure/Limitations	7
9	Refe	rences	8

Tables

T-1-1-1.	147 - 1 C 1: T	
Table 1:	Water Sampling I	$\alpha \sigma$

Table 2: Groundwater Sample Analytical Results

Table 3: Summary of Historical Groundwater Data

Table 4: Mann-Kendall Statistical Test Results

Figures

Figure 1: Vicinity Map

Figure 2: Site Plan

Figure 3: Trichloroethene (TCE) Concentration Time Series Graph

Figure 4: 1,4-Dichlorobenzene (1,4-DCB) Concentration Time Series Graph

Figure 5: 1,2,4-Trichlorobenzene (1,2,4-TCB) Concentration Time Series Graph

Appendices

Appendix A: Field Notes

Appendix B: Results of Analytical Testing

Appendix C: Investigation-Derived Waste Documentation

Important Information

ACRONYMS

AAC Alaska Administrative Code

ADEC Alaska Department of Environmental Conservation

ARRC Alaska Railroad Corporation

CCIC Cleanup Complete with Institutional Controls

1,2-DCB1,2-Dichlorobenzene1,3-DCB1,3-Dichlorobenzene1,4-DCB1,4-DichlorobenzeneDODissolved Oxygen

DQOs Data Quality Objectives

EPA Environmental Protection Agency
HVO Halogenated Volatile Organic
IDW Investigation-Derived Waste

L/min Liters per minute

LCS/LCSD Laboratory Control Sample/Laboratory Control Sample Duplicates

LDRC Laboratory Data Review Checklist

LRA Limited Removal Action µg/L Micrograms per liter

mV Millivolts

NTU Nephelometric Turbidity Units
ORP Oxidation Reduction Potential
RPD Relative Percent Difference
SGS SGS North America Inc.

Site 250 Post Road, Anchorage, Alaska

1,2,3-TCB1,2,3-Trichlorobenzene1,2,4-TrichlorobenzeneTCETrichloroethylene

TTD Contaminated Media Transport, Treatment, & Disposal

US Ecology US Ecology Alaska, LLC VOCs Volatile Organic Compounds

1 INTRODUCTION

This report presents the results of Shannon & Wilson's June 2022 groundwater monitoring event for the parcel at 250 Post Road (also referenced as 250 North Post Road), Anchorage, Alaska (Site). The Alaska Department of Environmental Conservation's (ADEC's) File Number is 2100.38.036.

2 SITE AND PROJECT DESCRIPTION

2.1 Site Location and Description

The Site is located at 250 Post Road, in the Northwest ¼ of the Northwest ¼ of Section 17, Township 13 North, Range 3 West, Seward Meridian, Alaska, according to the United States Geological Survey Anchorage A-8 quadrangle. The legal description of the Site is Alaska Railroad Reserve Lot 46A, Anchorage, Alaska. The Site is located north of Ship Creek, as shown in Figure 1. A site plan of the subject site is included as Figure 2.

The Site is owned by the Alaska Railroad Corporation (ARRC) and has been leased and subleased by multiple interests since the early 1970s. Tenants have included Northern Supply Incorporated, Westinghouse Electric Corporation, Swalling Construction Company, Inc., and Silver Mountain Construction.

2.2 Background

Previous investigations conducted by Shannon & Wilson indicated halogenated volatile organic (HVO)-impacted soil and groundwater were located southwest of the on-site warehouse. The primary HVO constituent of interest was trichloroethylene (TCE), although other chlorinated volatile compounds have been measured in soil and groundwater samples. A summary of the previous assessment and cleanup activities relevant to the TCE-impacted area is presented in the 2018 Additional Site Characterization report dated November 2018 prepared by Shannon & Wilson.

The TCE concentrations in soil have decreased by an order of magnitude since the 2003 limited removal action (LRA) which removed approximately 85 cubic yards of soil from the site. However, the results of additional site characterization activities conducted in 2018 indicated TCE concentrations in the subsurface soil continue to exceed the most stringent ADEC Method Two migration to groundwater cleanup level. Based on June and October 2019 groundwater monitoring event results, concentrations of TCE and two other volatile

107454-002 August 2022

organic compounds (VOCs), 1,2,4-trichlorobenzene (1,2,4-TCB) and 1,4-dichlorobenzene (1,4-DCB), also continue to exceed the ADEC Table C cleanup levels in groundwater samples, but only in the immediate vicinity of the 2003 LRA.

In their December 16, 2019 letter, the ADEC indicated the extent of groundwater and soil contamination appeared fairly well defined. However, the TCE concentrations in Well MW-6 needed further evaluation to verify the contaminant concentrations are stable or decreasing. ADEC requested an additional monitoring event.

Additional groundwater monitoring events were conducted in June and October 2020. Results of the June and October 2020 groundwater monitoring events indicated concentrations of TCE, 1,2,4-TCB, and 1,4-DCB continue to exceed the ADEC Table C cleanup levels. A qualitative review of the historical data suggested the concentrations of TCE, 1,2,4-TCB, and 1,4-DCB appear to be stable or decreasing. Mann-Kendall test results indicate either a statistically decreasing or no trend for TCE, 1,2,4-TCB, and 1,4-DCB except for 1,2,4-TCB in Well MW-6 which exhibits a statistically increasing trend since implementation of low-flow sampling.

In their May 26, 2021 letter, the ADEC indicated the Site is not eligible for closure and recommended continuing annual groundwater monitoring to demonstrate decreasing contaminant concentrations of VOCs at Wells MW-4 and MW-6.

Results of the June 2021 annual groundwater monitoring events indicated that while continuing to exceed the ADEC Table C cleanup levels, concentrations of TCE appear to be decreasing in the groundwater plume and no trend was qualitatively apparent for concentrations of 1,2,4-TCB, and 1,4-DCB. Mann-Kendall test results indicated either a statistically decreasing or no trend for TCE, 1,2,4-TCB, and 1,4-DCB except for 1,2,4-TCB in Well MW-6. Although a statistically increasing trend by the Mann-Kendall test since implementation of low-flow sampling, the 1,2,4-TCB concentrations in Well MW-6 were approximately one third of the initial December 2003 concentrations.

In their September 2, 2021 letter, the ADEC agreed with the recommendation to continue annual groundwater monitoring to demonstrate decreasing contaminant concentrations of VOCs at Wells MW-4 and MW-6.

2.3 Project Purpose and Objectives

The project purpose is to continue progress towards a Cleanup Complete with Institutional Controls (CCIC) designation from the ADEC. The objective of this June 2022 groundwater monitoring event is to monitor TCE concentration trends in the groundwater at the Site per

the February 20, 2019 ADEC-approved work plan. Specific tasks of the June 2022 groundwater monitoring event include:

- 1. Collect groundwater samples from Wells MW-4 and MW-6 and analyze for VOCs.
- 2. Manage investigative-derived waste (IDW).

3 FIELD ACTIVITIES

The field activities were conducted in material accordance with our February 20, 2019 work plan, approved by the ADEC in an email dated February 20, 2019. The approval for the June 2022 groundwater sampling event was provided by ADEC in an email dated May 19, 2022.

Field work was conducted by an ADEC-qualified environmental professional, as defined by 18 Alaska Administrative Code (AAC) 75.333. Analytical testing of the project samples was conducted by SGS North America Inc. (SGS) of Anchorage, Alaska. US Ecology Alaska, LLC (US Ecology) of Anchorage, Alaska disposed of the IDW. SGS and US Ecology were subcontracted to Shannon & Wilson. Field notes are provided in Appendix A.

3.1 Site Access and Preparation

Prior to initiating the June 2022 groundwater monitoring event, permission to access and collect groundwater samples from the on-site monitoring wells was requested. Shannon & Wilson contacted the Site leaseholder (SAN, LLC) property management company, Chambers Commercial Real Estate, to request and arrange site access. Missy Knier of Chambers Commercial Real Estate granted site access for the June 2022 groundwater monitoring event in an email dated June 8, 2022.

3.2 Groundwater Sampling

On June 16, 2022, analytical groundwater samples were collected from Wells MW-4 and MW-6. Sampling was initiated using a water level indicator to measure depth to water in the well casings. Low-flow purging was conducted to reduce the effects of stagnant well casing water on chemical concentrations, and to obtain a groundwater sample that was representative of the surrounding water-bearing formation. The wells were purged and sampled using a submersible pump and dedicated tubing. The submersible pump was placed within the top foot of the groundwater column. The pump rate was adjusted with a goal of limiting the sustained water drawdown to a maximum of 0.3 foot (typical pump rate of 0.2 to 0.5 liters per minute [L/min]).

During the purging process, field personnel monitored water quality parameters (pH, temperature, turbidity, oxidation reduction potential [ORP], and specific conductance),

drawdown, and purge volume. Purging was considered complete when at least one well volume was removed and four of the five water quality parameters stabilized. Water quality parameters were considered stabilized when three consecutive measurements collected 3 to 5 minutes apart indicated that parameters were within the following tolerance ranges: pH within 0.1 standard units, temperature within 3 percent (minimum 0.2 degree Celsius), specific conductance within 3 percent, ORP within 10 millivolts (mV), and turbidity within 10 percent or less than 10 nephelometric turbidity units (NTU). The water quality parameters did not stabilize in Well MW-4 during purging; therefore, a sample was collected after 1 hour of purging and 3 well volumes were purged. The water quality parameters stabilized in Well MW-6 during purging. While not required by the work plan, dissolved oxygen (DO) was also recorded during the purging process. The final water quality parameters are listed on Table 1.

4 LABORATORY ANALYSIS

The groundwater samples were delivered to SGS using chain-of-custody procedures. The samples were tested on a standard 14-day turnaround time. Each project sample, including a field duplicate sample from Well MW-6, was analyzed for VOCs by Environmental Protection Agency (EPA) Method 8260D. A water trip blank accompanying the groundwater samples was also analyzed for VOCs by EPA Method 8260D.

5 DISCUSSION OF ANALYTICAL RESULTS

The groundwater results were compared to applicable cleanup levels listed in the Oil and Other Hazardous Substances Pollution Control Regulations, 18 AAC 75 (November 18, 2021). Groundwater criteria are based on Table C, 18 AAC 75.345. The cleanup levels and analytical results for the groundwater samples are listed in Table 2. A copy of the laboratory report for the groundwater results is in Appendix B. A summary of historical analytical results is listed in Table 3.

5.1 Monitoring Well Samples

Two primary groundwater samples and one field duplicate sample were submitted for laboratory analysis. Nine VOCs (1,1-dichloroethane, 1,1,1-trichloroethane, 1,2,3-trichlorobenzene [1,2,3-TCB], 1,2,4- TCB, TCE, 1,2-dichlorobenzene [1,2-DCB], 1,3-dichlorobenzene [1,3-DCB], 1,4-DCB, and/or cis-1,2-dichloroethene) were detected in one or more project samples. TCE was detected in the samples collected from Well MW-4 (1.32 micrograms per liter [μ g/L]) and Well MW-6 (10.0 μ g/L [higher of primary/duplicate pair sample]). Concentrations exceeding the ADEC Table C Cleanup Levels include:

- TCE in Samples MW-6 and MW-106 (duplicate of MW-6) exceed the ADEC Table C cleanup level of 2.8 μg/L;
- 1,2,4-TCB in Samples MW-4, MW-6, and MW-106 (duplicate of MW-6) exceed ADEC Table C cleanup levels of 4.0 μg/L; and,
- 1,4-DCB in Samples MW-4 exceeds ADEC Table C cleanup levels of 4.8 μg/L.

The remaining VOCs were reported at concentrations less than the ADEC Table C cleanup levels.

Concentrations of TCE, 1,4-DCB, and 1,2,4-TCB over time are illustrated in Figures 3, 4, and 5, respectively. As shown in the figures, Wells MW-4 and MW-6 exhibit TCE, 1,2,4-TCB, and 1,4-DCB concentrations that exceed ADEC Table C cleanup levels, except for TCE concentrations in Well MW-4 which have been less than the ADEC Table C cleanup level since the June 22, 2018 sampling event, and 1,4-DCB concentrations in Well MW-6 which dropped to less than the ADEC Table C cleanup level this monitoring event. Based on a qualitative review of the graphs, the concentrations of TCE detected since implementing low flow groundwater sampling in December 2016, appear to be stable or decreasing. No visual trend is apparent for concentrations of 1,2,4-TCB and 1,4-DCB based on the graphs.

The Mann-Kendall test was used to evaluate for the presence or absence of statistically significant trends for TCE, 1,2,4-TCB, and 1,4-DCB in Wells MW-4 and MW-6. Table 4 provides a summary of the Mann-Kendall test results using data collected since implementation of low-flow sampling in December 2016. The Mann-Kendall test indicates the following at a greater than 90 percent confidence level:

- TCE decreasing trend in Wells MW-4 and MW-6;
- 1,2,4-TCB no trend in Well MW-4 and increasing trend in Well MW-6; and,
- 1,4-DCB no trend in Wells MW-4 and MW-6.

The visually qualitative review of the time series plot and statistical Mann-Kendall test results indicate the TCE concentrations in the groundwater plume are decreasing in Wells MW-4 and MW-6 since implementation of low-flow sampling.

The chlorinated benzenes, 1,2,4-TCB and 1,4-DCB, exhibit no concentration trends based on the visual time series plot evaluation and Mann-Kendall test results except for 1,2,4-TCB in Well MW-6. Although a statistically increasing trend is demonstrated by the Mann-Kendall test since implementation of low-flow sampling, the 1,2,4-TCB concentrations in Well MW-6 are approximately one third of the initial December 2003 concentration, as shown on Figure 5 and summarized in Table 3.

5.2 Quality Assurance Summary

The project laboratory implements on-going quality assurance/quality control procedures to evaluate conformance to applicable ADEC data quality objectives (DQOs). Internal laboratory controls to assess data quality for this project include surrogates, method blanks, and laboratory control sample/laboratory control sample duplicates (LCS/LCSD) to assess precision, accuracy, and matrix bias. If a DQO was not met, the project laboratory provides a report specific note identifying the problem in the Case Narrative section of the Laboratory Analysis Report (See Appendix B).

External quality controls include field records, a groundwater duplicate sample set, and a trip blank for the groundwater samples. The water trip blank did not contain detectable concentrations of volatile analytes.

A duplicate sample set was collected to assess the sampling precision and calculate the relative percent difference (RPD). The RPD between the project sample and associated duplicate results is a measure of precision affected by matrix heterogeneity, sampling technique, and laboratory analyses. The ADEC recommends an RPD of less than 30 percent for groundwater field duplicates. The RPDs are within the ADEC recommended DQO of 30 percent for groundwater in the duplicate groundwater sample set (MW-6/MW-106).

Shannon & Wilson reviewed the SGS data deliverable and completed the ADEC's Laboratory Data Review Checklist (LDRC) for the data package, which is included in Appendix B. Quality control discrepancies and the impact to data quality/usability are described in further detail in the LDRC. In our opinion, non-conformances that would adversely impact data usability for project data objectives were not noted, and we find the project data to be complete and useable to support the project purpose and objectives.

6 INVESTIGATION-DERIVED WASTE DISPOSAL

The purge water from Wells MW-4 and MW-6 was stored in one, labeled 55-gallon drum. Groundwater samples from Wells MW-4 and MW-6 had VOC concentrations greater than the ADEC Table C cleanup levels; therefore, Shannon & Wilson coordinated with US Ecology to dispose of the purge water. The ADEC Contaminated Media Transport, Treatment, & Disposal (TTD) approval was received prior to transporting the IDW off site on July 25, 2022 for processing and disposal by US Ecology. Copies of the TTD form and waste manifest are provided in Appendix C.

It is noted that changes in the site use or other site conditions may affect the viability of potential exposure pathways. In particular, the CSM will need to be re-evaluated and

revised as necessary if construction occurs at the site, a change in land use occurs, or additional information is obtained regarding either the previously-documented contaminated media and/or potential on-site sources.

7 SUMMARY

The June 2022 monitoring activities at 250 Post Road consisted of collecting groundwater samples to monitor TCE concentration trends in the groundwater plume at the site. Nine VOCs (1,1-dichloroethane, 1,1,1-trichloroethane, 1,2,3-TCB, 1,2,4- TCB, TCE, 1,2-DCB, 1,3-DCB, 1,4-DCB, and/or cis-1,2-dichloroethene) were detected in one or more project samples. The groundwater samples from Well MW-6 (primary and duplicate) contain TCE concentrations that exceed the ADEC Table C cleanup level. The Well MW-4 groundwater sample continues to exhibit TCE concentrations less than the ADEC Table C cleanup level.

Chlorinated benzene concentrations (1,2,4-TCB and 1,4-DCB) exceed the ADEC Table C cleanup levels in the groundwater samples from Wells MW-4 and/or MW-6 (primary and duplicate).

A qualitative review of the historical data collected since implementing low flow groundwater sampling suggests the concentrations of TCE appear to be decreasing in the groundwater plume. No trend is qualitatively apparent for concentrations of 1,2,4-TCB and 1,4-DCB. The Mann-Kendall test results indicate either a statistically decreasing or no trend for TCE, 1,2,4-TCB and 1,4-DCB except for 1,2,4-TCB in Well MW-6. Although a statistically increasing trend is demonstrated by the Mann-Kendall test since implementation of low-flow sampling, the 1,2,4-TCB concentrations in Well MW-6 are approximately one third of the initial December 2003 concentration.

8 CLOSURE/LIMITATIONS

This report was prepared for the exclusive use of our client and their representatives. The findings we have presented within this report are based on limited sampling and analyses. As a result, the assessment performed can only provide you with our professional judgment as to the environmental characteristics of this site, and in no way guarantee that an agency or its staff will reach the same conclusions as Shannon & Wilson. In addition, the tests were intended to detect only those parameters for which analyses were performed. The conclusions presented in this report should be considered representative of the time of the sample collection date. Changes due to natural forces or human activity can occur over time. In addition, changes in government codes, regulations, or laws may occur. Because of such changes beyond our control, our observations and interpretations may need to be revised.

Shannon & Wilson has prepared the attachment "Important Information About Your Geotechnical/Environmental Report," to assist you in understanding the use and limitations of our reports.

You are advised that various state and federal agencies (ADEC, EPA, etc.) may require the reporting of this information. Shannon & Wilson does not assume the responsibility for reporting these findings and therefore has not, and will not, disclose the results of this study except upon your authorization or as required by law.

9 REFERENCES

Shannon & Wilson, Inc., August 2021, "June 2021 Groundwater Monitoring Event."

Shannon & Wilson, Inc., December 2020, "October 2020 Groundwater Monitoring Event."

Shannon & Wilson, Inc., August 2020, "June 2020 Groundwater Monitoring Event."

Shannon & Wilson, Inc., December 2019, "October 2019 Groundwater Monitoring Event."

Shannon & Wilson, Inc., July 2019, "June 2019 Groundwater Monitoring Event."

Shannon & Wilson, Inc., February 20, 2019, "Work Plan for 2019 Semi-Annual Groundwater Monitoring, 250 Post Road, Anchorage, Alaska (ADEC File No. 2100.38.036)."

Shannon & Wilson, Inc., November 2018, "2018 Additional Site Characterization."

- State of Alaska Department of Environmental Conservation, November 18, 2021, 18 AAC 75, Articles 3 and 9, Oil and Other Hazardous Substances Pollution Control.
- State of Alaska Department of Environmental Conservation, September 2, 2021, letter, "June 2021 Groundwater Monitoring Event 250 Post Road Anchorage, Alaska Report; ADEC Approval Letter."
- State of Alaska Department of Environmental Conservation, May 26, 2021, letter, "October 2020 Groundwater Monitoring Event 250 Post Road Anchorage, Alaska Report; ADEC Comments."
- State of Alaska Department of Environmental Conservation, December 16, 2019, letter, "Kelly-Moore Paint Store and Warehouse."

Table 1 - Water Sampling Log

Table 1 - Water Sampling Log	Monitoring V	Well Number
	MW-4	MW-6
Water Level Measurement Data		
Date Water Level Measured	6/16/22	6/16/22
Time Water Level Measured	9:35	9:30
Measured Depth to Water (ft below TOC)	12.98	13.29
Height of TOC bgs (ft)	-0.36	-0.32
Measured Depth to Water (ft bgs)	13.34	13.61
Surveyed TOC Elevation (ft)	97.70	98.07
Water Level Elevation (ft)	84.72	84.78
Purging/Sampling Data		
Date Sampled	6/16/22	6/16/22
Time Sampled	10:55	11:45
Measured Depth to Water (ft below TOC)	12.98	13.29
Total Depth of Well (ft below TOC)	18.59	16.34
Water Column in Well (ft)	5.61	3.05
Gallons per Foot	0.16	0.16
Water Column Volume (gallons)	0.90	0.49
Total Volume Pumped (gallons)	3.5	3.2
Sampling Method	SP	SP
Diameter of Well Casing	2-inch	2-inch
Water Quality Data		
Temperature (°C)	7.30	6.16
Specific Conductance (µS/cm)	563	631
Dissolved Oxygen (mg/L)	0.65	1.4
pH (Standard Units)	6.37	6.27
Oxidation-Reduction Potential (mV)	-3	61
Turbidity (NTU)	11.03	8.75
Remarks	Field parameters did not	Duplicate Sample
	stablize. Sampled after 1	"MW-106"
	hour and 3 well volumes	
	purged.	

Notes:

Water quality parameters were measured with a Horiba and MicroTPW Turbidimeter instruments. Level Loop Survey conducted by Shannon & Wilson, Inc. on June 26, 2018.

TOC = top of casing

°C = degrees Celsius

ft = feet

bgs = below ground surface

 $\mu S/cm = microsiemens per centimeter$

mg/L = millograms per Liter

mV = millivolt

NTU = Nephelometric Turbidity Units

SP = Submersible pump

Table 2 - Groundwater Sample Analytical Results

				Sample ID Numb	oer^ and Water Depth Apper	in Feet bgs (See Tab dix B)	e 1, Figure 2, and
			Groundwater		Monitoring Wells		Trip Blank
Parameter Tested	Units	Method*	Cleanup Level**	MW-4 13.34	MW-6 13.61	MW-106~ 13.61	WTB -
Volatile Organic Compounds (VOCs)							
Tetrachloroethene	μg/L	EPA 8260D	41	< 0.500	< 0.500	< 0.500	< 0.500
Trichloroethylene (TCE)	μg/L	EPA 8260D	2.8	1.32	9.85	10.0	< 0.500
cis-1,2-Dichloroethene	μg/L	EPA 8260D	36	< 0.500	0.846 J	0.889 J	< 0.500
Vinyl Chloride	μg/L	EPA 8260D	0.19	< 0.0750	< 0.0750	< 0.0750	< 0.0750
Benzene	μg/L	EPA 8260D	4.6	< 0.200	< 0.200	< 0.200	< 0.200
Ethylbenzene	μg/L	EPA 8260D	15	< 0.500	< 0.500	< 0.500	< 0.500
Toluene	μg/L	EPA 8260D	1,100	< 0.500	< 0.500	< 0.500	< 0.500
Xylenes	μg/L	EPA 8260D	190	<1.50	<1.50	<1.50	< 1.50
Chlorobenzene	μg/L	EPA 8260D	78	< 0.250	< 0.250	< 0.250	< 0.250
Chloromethane	μg/L	EPA 8260D	190	< 0.500	< 0.500	< 0.500	< 0.500
1,1,1-Trichloroethane	μg/L	EPA 8260D	8,000	< 0.500	0.462 J	< 0.500	< 0.500
1,1-Dichloroethane	μg/L	EPA 8260D	28	0.681 J	< 0.500	< 0.500	< 0.500
1,2-Dichloroethane	μg/L	EPA 8260D	1.7	< 0.250	< 0.250	< 0.250	< 0.250
1,2,3-Trichlorobenzene (1,2,3-TCB)	μg/L	EPA 8260D	7.0	< 0.500	0.624 J	0.621 J	< 0.500
1,2,4-Trichlorobenzene (1,2,4-TCB)	μg/L	EPA 8260D	4.0	15.9	6.54	6.24	< 0.500
1,2-Dichlorobenzene (1,2-DCB)	μg/L	EPA 8260D	300	0.700 J	0.537 J	0.537 J	< 0.500
1,3-Dichlorobenzene (1,3-DCB)	μg/L	EPA 8260D	300	7.85	4.00	4.01	< 0.500
1,4-Dichlorobenzene (1,4-DCB)	μg/L	EPA 8260D	4.8	7.58	3.92	3.91	< 0.250
Other VOCs	μg/L	EPA 8260D	Various	ND	ND	ND	ND

Notes:

* See Appendix B for compounds tested, methods, and laboratory reporting limits

** Groundwater cleanup levels are listed in Table C, 18 AAC 75.345 (November 18, 2021)

^ = sample ID No. preceded by "107454-" on the chain-of-custody form

 μ g/L = micrograms per liter

= analyte detected

= reported concentration exceeds the ADEC Table C cleanup level

<0.500 = analyte not detected; laboratory limit of detection $0.500 \,\mu\text{g/L}$

bgs = below ground surface

~ = duplicate of preceding sample

J = concentration is an estimate less than the limit of quantitation (LOQ). See the SGS laboratory report for details.

ND = analyte not detected

Table 3 - Summary of Historical Groundwater Data

							Monito	ing Well N	umber, Date	e of Sample	Collection,	and Depth t	to Water in	feet bgs			
								M۱	W-1					M	W-2	M	W-3
			Cleanup	5/7/03	8/19/03	7/29/04	10/29/04	5/19/05	12/15/16	6/22/18	11/15/18	6/11/19	10/29/19	5/7/03	8/19/03	5/8/03	8/19/03~
Parameter Tested	Units	Method*	Level**	5.91	5.73	6.08	5.70	6.27	5.96	5.81	5.80	6.12	5.93	13.16	13.20	13.91	13.84
Tetrachloroethene	μg/L	EPA 8021B/8260B/C/D	41	<1.00	<1.00	<1.00	-	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	<1.00	<1.00	<1.00	<1.00
Trichloroethylene (TCE)	μg/L	EPA 8021B/8260B/C/D	2.8	<1.00	<1.00	<1.00	-	<1.00	0.390 J	< 0.500	0.370 J	< 0.500	0.329 J	<1.00	<1.00	4.86	14.2
cis-1,2-Dichloroethene	$\mu g/L$	EPA 8021B/8260B/C/D	36	<1.00	<1.00	<1.00	-	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	<1.00	<1.00	<1.00	1.41
Vinyl Chloride	μg/L	EPA 8021B/8260B/C/D	0.19	<1.00	<1.00	<1.00	-	<1.00	< 0.500	< 0.0750	< 0.0750	< 0.0750	< 0.0750	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	μg/L	EPA 8021B/8260B/C/D	8,000	5.61	5.73	3.81	-	3.41	2.08	0.990 J	1.14	0.910 J	0.501 J	2.89	<1.00	<1.00	1.31
1,1-Dichloroethane	μg/L	EPA 8021B/8260B/C/D	28	1.19	2.13	1.45	-	1.06	1.88	< 0.500	1.91	1.21	2.08	2.15	2.52	2.76	2.94
1,2-Dichloroethane	μg/L	EPA 8021B/8260B/C/D	1.7	<1.00	<1.00	<1.00	-	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 1.00	<1.00	<1.00	<1.00
1,2,3-Trichlorobenzene (1,2,3-TCB)	μg/L	EPA 8021B/8260B/C/D	7.0	<1.00	<1.00	<1.00	-	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	<1.00	<1.00	<1.00	<1.00
1,2,4-Trichlorobenzene (1,2,4-TCB)	μg/L	EPA 8021B/8260B/C/D	4.0	<1.00	<1.00	<1.00	-	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	<1.00	<1.00	26.4	18.1
Dichlorodifluoromethane	μg/L	EPA 8260B/C/D	200	<1.00	-	-	-	<1.00	0.630 J	< 0.500	< 0.500	< 0.500	< 0.500	<1.00	-	<1.00	-
1,2-Dichlorobenzene (1,2-DCB)	μg/L	EPA 8021B/8260B/C/D	300	-	<1.00	<1.00	-	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	-	<1.00	-	1.39
1,3-Dichlorobenzene (1,3-DCB)	μg/L	EPA 8021B/8260B/C/D	300	<1.00	<1.00	<1.00	-	<1.00	< 0.250	< 0.500	< 0.500	< 0.500	< 0.500	<1.00	<1.00	11.8	7.18
1,4-Dichlorobenzene (1,4-DCB)	μg/L	EPA 8021B/8260B/C/D	4.8	< 0.500	< 0.500	< 0.500	-	< 0.500	< 0.250	< 0.250	< 0.250	< 0.250	< 0.250	< 0.500	< 0.500	16.7	8.71
Benzene	μg/L	EPA 8021B/8260B/C/D	4.6	< 0.400	-	-	-	-	< 0.200	< 0.200	< 0.200	< 0.200	0.181 J	< 0.400	-	< 0.400	-
Chlorobenzene	μg/L	EPA 8021B/8260B/C/D	78	< 0.500	< 0.500	< 0.500	-	< 0.500	< 0.250	< 0.250	< 0.250	< 0.250	< 0.250	< 0.500	< 0.500	1.3	< 0.500
Toluene	μg/L	EPA 8021B/8260B/C/D	1,100	<1.00	<1.00	-	-	-	< 0.500	< 0.500	0.380 J	< 0.500	0.621 J	<1.00	<1.00	<1.00	<1.00
Chloromethane	μg/L	EPA 8021B/8260B/C/D	190	<1.00	<1.00	<1.00	-	-	< 0.500	< 0.500	0.650 J	< 0.500	0.327 J	< 1.00	<1.00	<1.00	<1.00
Naphthalene	μg/L	EPA 8021B/8260B/C/D	1.7	-	<2.00	-	-	-	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	-	5.59	-	<2.00

- * See Appendix B for compounds tested, methods, and laboratory reporting limits
- ** Groundwater cleanup levels are listed in Table C, 18 AAC 75.345 (November 18, 2021)
- μ g/L = micrograms per liter
- = reported concentration exceeds the ADEC Table C cleanup level
- **5.61** = analyte detected
- <1.00 = analyte not detected; laboratory limit of detection 1.00 μ g/L
- <1.00 = Laboratory limit of detection is greater than the ADEC Table C cleanup level
- bgs = below ground surface
- Not applicable or sample not analyzed for this parameter
- \sim = Analytical results for these samples reflect the higher concentrations for duplicate set
- J = Estimated concentration less than the limit of quantitation. See the SGS laboratory report for more details.

Table 3 - Summary of Historical Groundwater Data

Table 5 Summary of This								Mon	itoring Well	Number, D	Date of Sam	ole Collectio	n, and Dept	h to Water	in feet bgs					
										MW-4								MV	V-5	
			Cleanup	5/8/03	8/19/03	7/29/04~	5/19/05	12/15/16	6/22/18	11/15/18	6/11/19	10/29/19	6/18/20	10/7/20	6/23/21	6/16/22	5/8/03	8/19/03	7/29/04	12/15/16
Parameter Tested	Units	Method*	Level**	13.53	13.44	13.66	13.32	13.84	13.25	13.76	13.38	14.01	13.49	13.69	13.64	13.34	6.35	6.09	6.49	7.11
Tetrachloroethene	μg/L	EPA 8021B/8260B/C/D	41	<1.00	<1.00	<1.00	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	<1.00	<1.00	<1.00	< 0.500
Trichloroethylene (TCE)	μg/L	EPA 8021B/8260B/C/D	2.8	1.23	1.83	2.51	3.39	3.15	2.41	1.70	1.46	1.26	1.06	1.48	0.834 J	1.32	<1.00	<1.00	<1.00	< 0.500
cis-1,2-Dichloroethene	μg/L	EPA 8021B/8260B/C/D	36	<1.00	<1.00	<1.00	<1.00	0.440 J	< 0.500	0.312 J	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	<1.00	<1.00	<1.00	< 0.500
Vinyl Chloride	μg/L	EPA 8021B/8260B/C/D	0.19	<1.00	<1.00	<1.00	<1.00	< 0.500	< 0.0750	< 0.0750	< 0.0750	< 0.0750	< 0.0750	< 0.0750	< 0.0750	< 0.0750	<1.00	<1.00	<1.00	< 0.500
1,1,1-Trichloroethane	μg/L	EPA 8021B/8260B/C/D	8,000	<1.00	<1.00	<1.00	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	1.97	5.1	3.84	2.82
1,1-Dichloroethane	μg/L	EPA 8021B/8260B/C/D	28	2.97	3.62	2.70	1.99	2.23	< 0.500	1.79	1.36	1.96	1.38	1.66	1.25	0.681 J	1.04	1.59	1.15	1.19
1,2-Dichloroethane	μg/L	EPA 8021B/8260B/C/D	1.7	<1.00	<1.00	<1.00	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	0.156 J	0.184 J	< 0.250	< 0.250	<1.00	<1.00	<1.00	< 0.500
1,2,3-Trichlorobenzene (1,2,3-TCB)	μg/L	EPA 8021B/8260B/C/D	7.0	<1.00	<1.00	<1.00	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	<1.00	<1.00	<1.00	< 0.500
1,2,4-Trichlorobenzene (1,2,4-TCB)	μg/L	EPA 8021B/8260B/C/D	4.0	42.5	44.8	33.9	13.50	16.7	9.28	6.95	9.83	4.58	15.9	8.43	14.2	15.9	<1.00	<1.00	<1.00	0.540 J
Dichlorodifluoromethane	μg/L	EPA 8260B/C/D	200	<1.00	-	-	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	<1.00	-	-	0.670 J
1,2-Dichlorobenzene (1,2-DCB)	μg/L	EPA 8021B/8260B/C/D	300	-	4.08	2.54	1.61	1.57	< 0.500	< 0.500	< 0.500	< 0.500	0.937 J	0.440 J	0.656 J	0.700 J	-	<1.00	<1.00	< 0.500
1,3-Dichlorobenzene (1,3-DCB)	μg/L	EPA 8021B/8260B/C/D	300	20.7	19.1	13.5	8.09	13.9	7.60	4.12	7.28	2.20	9.87	4.50	6.98	7.85	<1.00	<1.00	<1.00	< 0.500
1,4-Dichlorobenzene (1,4-DCB)	μg/L	EPA 8021B/8260B/C/D	4.8	31.2	28.5	18.3	11.2	19.6	9.40	4.95	8.14	2.54	10.9	4.70	7.10	7.58	< 0.500	<5.00	< 5.00	0.170 J
Benzene	μg/L	EPA 8021B/8260B/C/D	4.6	< 0.400	-	-	-	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.400	-	-	< 0.200
Chlorobenzene	μg/L	EPA 8021B/8260B/C/D	78	2.30	1.88	1.12	0.86	0.67	< 0.250	0.208 J	< 0.250	< 0.250	0.229 J	< 0.250	< 0.250	< 0.250	< 0.500	< 0.500	< 0.500	< 0.250
Toluene	μg/L	EPA 8021B/8260B/C/D	1,100	<1.00	<1.00	-	-	< 0.500	< 0.500	< 0.500	< 0.500	0.467 J	< 0.500	< 0.500	< 0.500	< 0.500	7.60	1.77	-	< 0.500
Chloromethane	μg/L	EPA 8021B/8260B/C/D	190	1.48	<1.00	<1.00	-	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	<1.00	<1.00	6.07	< 0.500
Naphthalene	μg/L	EPA 8021B/8260B/C/D	1.7	-	<2.00	-	-	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	_	<2.00	-	< 0.500

- See Appendix B for compounds tested, methods, and laboratory reporting limits
- ** Groundwater cleanup levels are listed in Table C, 18 AAC 75.345 (November 18, 2021)
- μ g/L = micrograms per liter
- **42.5** = reported concentration exceeds the ADEC Table C cleanup level
- **1.23** = analyte detected
- <1.00 = analyte not detected; laboratory limit of detection 1.00 μ g/L
- <1.00 = Laboratory limit of detection is greater than the ADEC Table C cleanup level
- bgs = below ground surface
- Not applicable or sample not analyzed for this parameter
- \sim = Analytical results for these samples reflect the higher concentrations for duplicate set
- J = Estimated concentration less than the limit of quantitation. See the SGS laboratory report for more details.

Table 3 - Summary of Historical Groundwater Data

									Monitorin	g Well Num	ber, Date o	f Sample Co	ollection, an	d Depth to \	Water in fee	et bgs				
					MV	V-5							<u> </u>	MW-6						
			Cleanup	6/22/18	11/15/18	6/11/19	10/29/19	12/12/03	7/29/04	10/29/04	5/19/05	12/15/16~	6/22/18~	11/15/18~	6/11/19~	10/29/19~	6/18/20~	10/7/20~	6/23/21~	6/16/22~
Parameter Tested	Units	Method*	Level**	6.54	6.50	6.77	6.59	13.90	13.87	13.82	13.52	14.00	13.55	14.07	13.70	14.35	13.78	14.03	13.94	13.61
Tetrachloroethene	μg/L	EPA 8021B/8260B/C/D	41	< 0.500	< 0.500	< 0.500	< 0.500	<1.00	<1.00	<1.00	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
Trichloroethylene (TCE)	μg/L	EPA 8021B/8260B/C/D	2.8	< 0.500	< 0.500	< 0.500	< 0.500	6.31	10.6	13.9	16.9	18.3	18.7	21.7	11.3	13.9	12.4	12.8	9.65	10.0
cis-1,2-Dichloroethene	μg/L	EPA 8021B/8260B/C/D	36	< 0.500	< 0.500	< 0.500	< 0.500	2.64	1.42	1.72	<1.00	4.57	1.33	2.79	0.880 J	1.30	0.882 J	1.41	0.718 J	0.889 J
Vinyl Chloride	μg/L	EPA 8021B/8260B/C/D	0.19	< 0.0750	< 0.0750	< 0.0750	< 0.0750	<1.00	<1.00	<1.00	<1.00	< 0.500	0.0750	< 0.0750	< 0.0750	< 0.0750	< 0.0750	< 0.0750	< 0.0750	< 0.0750
1,1,1-Trichloroethane	μg/L	EPA 8021B/8260B/C/D	8,000	1.95	1.72	1.26	2.66	<1.00	<1.00	<1.00	<1.00	0.320 J	0.520 J	0.849 J	< 0.500	0.492 J	< 0.500	0.754 J	< 0.500	0.462 J
1,1-Dichloroethane	μg/L	EPA 8021B/8260B/C/D	28	5.20 J	0.870 J	0.649 J	0.899 J	2.69	1.90	1.48	<1.00	1.67	< 0.500	0.964 J	0.940 J	1.11	0.815 J	1.18	0.689 J	< 0.500
1,2-Dichloroethane	μg/L	EPA 8021B/8260B/C/D	1.7	< 0.500	< 0.500	< 0.500	< 0.500	<1.00	<1.00	<1.00	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.250	< 0.250	< 0.250
1,2,3-Trichlorobenzene (1,2,3-TCB)	μg/L	EPA 8021B/8260B/C/D	7.0	< 0.500	< 0.500	< 0.500	< 0.500	3.66	3.61	3.42	1.28	0.800 J	0.320 J	0.408 J	0.500 J	0.659 J	0.448 J	0.722 J	0.531 J	0.624 J
1,2,4-Trichlorobenzene (1,2,4-TCB)	μg/L	EPA 8021B/8260B/C/D	4.0	< 0.500	< 0.500	< 0.500	< 0.500	24.1	12.0	13.4	5.53	4.51	1.86	1.65	8.26	5.73	9.43	9.48	8.35	6.54
Dichlorodifluoromethane	μg/L	EPA 8260B/C/D	200	< 0.500	< 0.500	< 0.500	0.325 J	-	-	-	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
1,2-Dichlorobenzene (1,2-DCB)	$\mu g/L$	EPA 8021B/8260B/C/D	300	< 0.500	< 0.500	< 0.500	< 0.500	6.59	6.81	3.85	2.10	0.910 J	< 0.500	< 0.500	0.920 J	0.629 J	0.815 J	0.780 J	0.687 J	0.537 J
1,3-Dichlorobenzene (1,3-DCB)	$\mu g/L$	EPA 8021B/8260B/C/D	300	< 0.500	< 0.500	< 0.500	< 0.500	19.7	13.7	10.1	5.09	3.84	1.57	0.988 J	6.68	3.52	6.42	5.41	5.06	4.01
1,4-Dichlorobenzene (1,4-DCB)	μg/L	EPA 8021B/8260B/C/D	4.8	< 0.250	< 0.250	< 0.250	< 0.250	37.4	27.3	19.3	8.83	5.42	1.79	0.884	7.90	4.29	7.24	6.38	5.17	3.92
Benzene	μg/L	EPA 8021B/8260B/C/D	4.6	< 0.200	< 0.200	< 0.200	0.161 J	-	-	-	-	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200
Chlorobenzene	μg/L	EPA 8021B/8260B/C/D	78	< 0.250	< 0.250	< 0.250	< 0.250	< 0.500	1.49	< 0.500	0.61	0.260 J	< 0.250	0.159 J	< 0.250	0.216 J	0.208 J	< 0.250	< 0.250	< 0.250
Toluene	μg/L	EPA 8021B/8260B/C/D	1,100	< 0.500	< 0.500	< 0.500	0.666 J	-	-	-	-	< 0.500	< 0.500	< 0.500	< 0.500	0.521 J	< 0.500	< 0.500	< 0.500	< 0.500
Chloromethane	μg/L	EPA 8021B/8260B/C/D	190	< 0.500	< 0.500	< 0.500	0.411 J	<1.00	<1.00	<1.00	-	< 0.500	< 0.500	0.580 J	< 0.500	0.459 J	< 0.500	< 0.500	< 0.500	< 0.500
Naphthalene	μg/L	EPA 8021B/8260B/C/D	1.7	< 0.500	< 0.500	< 0.500	< 0.500	-	-	-	-	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500

* See Appendix B for compounds tested, methods, and laboratory reporting limits

** Groundwater cleanup levels are listed in Table C, 18 AAC 75.345 (November 18, 2021)

 $\mu g/L$ = micrograms per liter

6.31 = reported concentration exceeds the ADEC Table C cleanup level

1.95 = analyte detected

<1.00 = analyte not detected; laboratory limit of detection 1.00 μ g/L

<1.00 = Laboratory limit of detection is greater than the ADEC Table C cleanup level

bgs = below ground surface

- = Not applicable or sample not analyzed for this parameter

= Analytical results for these samples reflect the higher concentrations for duplicate set

= Estimated concentration less than the limit of quantitation. See the SGS laboratory report for more details.

Table 3 - Summary of Historical Groundwater Data

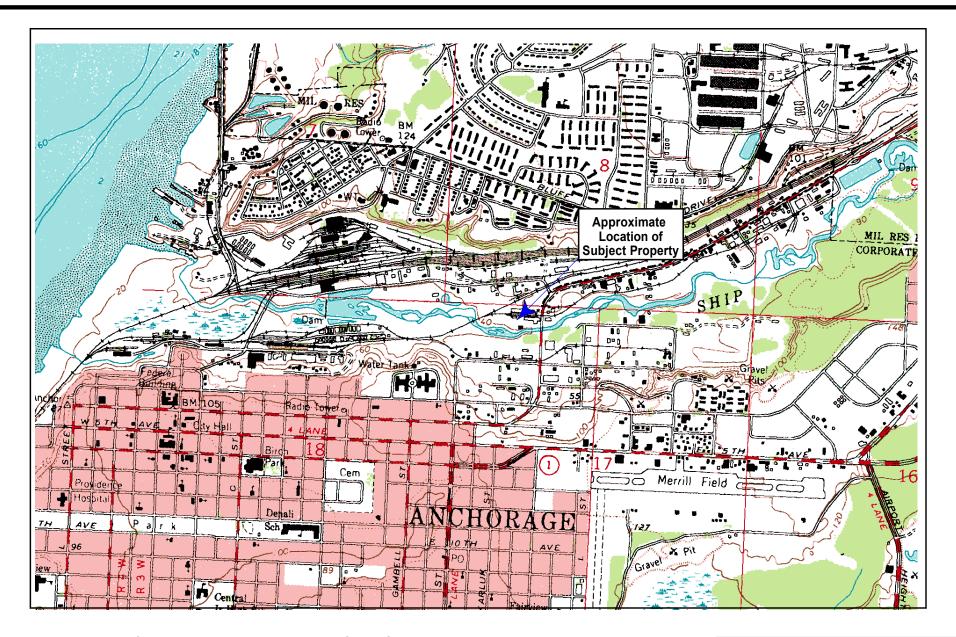
v				M	onitoring	Well Num	ber, Date	of Sample	Collection	ı, and DTV	W in feet b	gs
				MW-7		MV	W-8			M	W-9	
			Cleanup	12/12/03	6/22/18	11/15/18	6/11/19	10/29/19	6/22/18	11/15/18	6/11/19	10/29/19
Parameter Tested	Units	Method*	Level**	13.93	1.15	1.56	1.26	1.85	14.61	15.20	14.67	15.44
Tetrachloroethene	μg/L	EPA 8021B/8260B/C/D	41	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
Trichloroethylene (TCE)	μg/L	EPA 8021B/8260B/C/D	2.8	1.29	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
cis-1,2-Dichloroethene	μg/L	EPA 8021B/8260B/C/D	36	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
Vinyl Chloride	μg/L	EPA 8021B/8260B/C/D	0.19	<1.00	< 0.0750	< 0.0750	< 0.0750	< 0.0750	< 0.0750	< 0.0750	< 0.0750	< 0.0750
1,1,1-Trichloroethane	μg/L	EPA 8021B/8260B/C/D	8,000	<1.00	< 0.500	0.540 J	< 0.500	0.558 J	< 0.500	< 0.500	< 0.500	< 0.500
1,1-Dichloroethane	μg/L	EPA 8021B/8260B/C/D	28	3.13	< 0.500	0.530 J	0.550 J	0.646 J	< 0.500	2.40	1.66	2.25
1,2-Dichloroethane	μg/L	EPA 8021B/8260B/C/D	1.7	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
1,2,3-Trichlorobenzene (1,2,3-TCB)	μg/L	EPA 8021B/8260B/C/D	7.0	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
1,2,4-Trichlorobenzene (1,2,4-TCB)	μg/L	EPA 8021B/8260B/C/D	4.0	<1.00	0.530 J	< 0.500	0.600 J	< 0.500	3.59	0.730 J	1.32	0.368 J
Dichlorodifluoromethane	μg/L	EPA 8260B/C/D	200	-	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
1,2-Dichlorobenzene (1,2-DCB)	μg/L	EPA 8021B/8260B/C/D	300	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
1,3-Dichlorobenzene (1,3-DCB)	μg/L	EPA 8021B/8260B/C/D	300	<1.00	0.580 J	< 0.500	0.400 J	< 0.500	3.52	0.543 J	1.38	< 0.500
1,4-Dichlorobenzene (1,4-DCB)	μg/L	EPA 8021B/8260B/C/D	4.8	< 0.500	0.520	< 0.250	0.480 J	< 0.250	4.21	0.586	1.41	0.259 J
Benzene	μg/L	EPA 8021B/8260B/C/D	4.6	-	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.136 J
Chlorobenzene	μg/L	EPA 8021B/8260B/C/D	78	< 0.500	< 0.250	< 0.250	< 0.250	< 0.250	< 0.250	< 0.250	< 0.250	< 0.250
Toluene	μg/L	EPA 8021B/8260B/C/D	1,100	-	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	0.319 J	< 0.500	0.524 J
Chloromethane	μg/L	EPA 8021B/8260B/C/D	190	<1.00	< 0.500	0.800 J	< 0.500	0.311 J	< 0.500	0.886 J	< 0.500	0.432 J
Naphthalene	μg/L	EPA 8021B/8260B/C/D	1.7	-	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500

- * See Appendix B for compounds tested, methods, and laboratory reporting limits
- ** Groundwater cleanup levels are listed in Table C, 18 AAC 75.345 (November 18, 2021)
- μ g/L = micrograms per liter
- **1.29** = analyte detected
- <1.00 = analyte not detected; laboratory limit of detection 1.00 μ g/L
- <1.00 = Laboratory limit of detection is greater than the ADEC Table C cleanup level
- bgs = below ground surface
- DTW Depth to Water
 - = Not applicable or sample not analyzed for this parameter
 - ~ = Analytical results for these samples reflect the higher concentrations for duplicate set
 - J = Estimated concentration less than the limit of quantitation. See the SGS laboratory report for more details.

Table 4 - Mann-Kendall Statistical Test Results

		Mor	nitoring We	ll Number a	and Concen	tration in µ	g/L*
Event			MW-4			MW-6	
Number	Sampling Date	TCE	1,2,4-TCB	1,4-DCB	TCE	1,2,4-TCB	1,4-DCB
1	15-Dec-16	3.15	16.7	19.6	18.3	4.51	5.42
2	22-Jun-18	2.41	9.28	9.4	18.7	1.86	1.79
3	15-Nov-18	1.7	6.95	4.95	21.7	1.65	0.884
4	11-Jun-19	1.46	9.83	8.14	11.3	8.26	7.9
5	29-Oct-19	1.26	4.58	2.54	13.9	5.73	4.29
6	18-Jun-20	1.06	15.9	10.9	12.4	9.43	7.24
7	7-Oct-20	1.48	8.43	4.7	12.8	9.48	6.38
8	23-Jun-21	0.834	14.2	7.1	9.65	8.35	5.17
9	16-Jun-22	1.32	15.9	7.58	10.0	6.54	3.92
	Mann Kendall Statistic S=	-24	3	-10	-20	16	0
	Number of Rounds n=	9	9	9	9	9	9
	Average =	1.63	11.31	8.32	14.31	6.20	4.78
	Standard Deviation =	0.72	4.45	4.94	4.26	3.02	2.35
Coef	ficient of Variation (CV) =	0.44	0.39	0.59	0.30	0.49	0.49
Tren	d ≥ 80% Confidence Level	Decreasing	No Trend	Decreasing	Decreasing	Increasing	No Trend
Tren	$d \ge 90\%$ Confidence Level	Decreasing	No Trend	NoTrend	Decreasing	Increasing	No Trend
Stability Test	, if No Trend exists at 80%		CV≤1				CV≤1
J	Confidence Level		Stable	NA	NA	NA	Stable

* See Table 3 and Figures 3 through 5 for historical sample results $\mu g/L = micrograms$ per liter



Taken from the Anchorage A-8 NW United States Geological Society quadrangle.

Approximate scale 1":1,500'



250 Post Road Anchorage, Alaska

VICINITY MAP

August 2022

107454-002



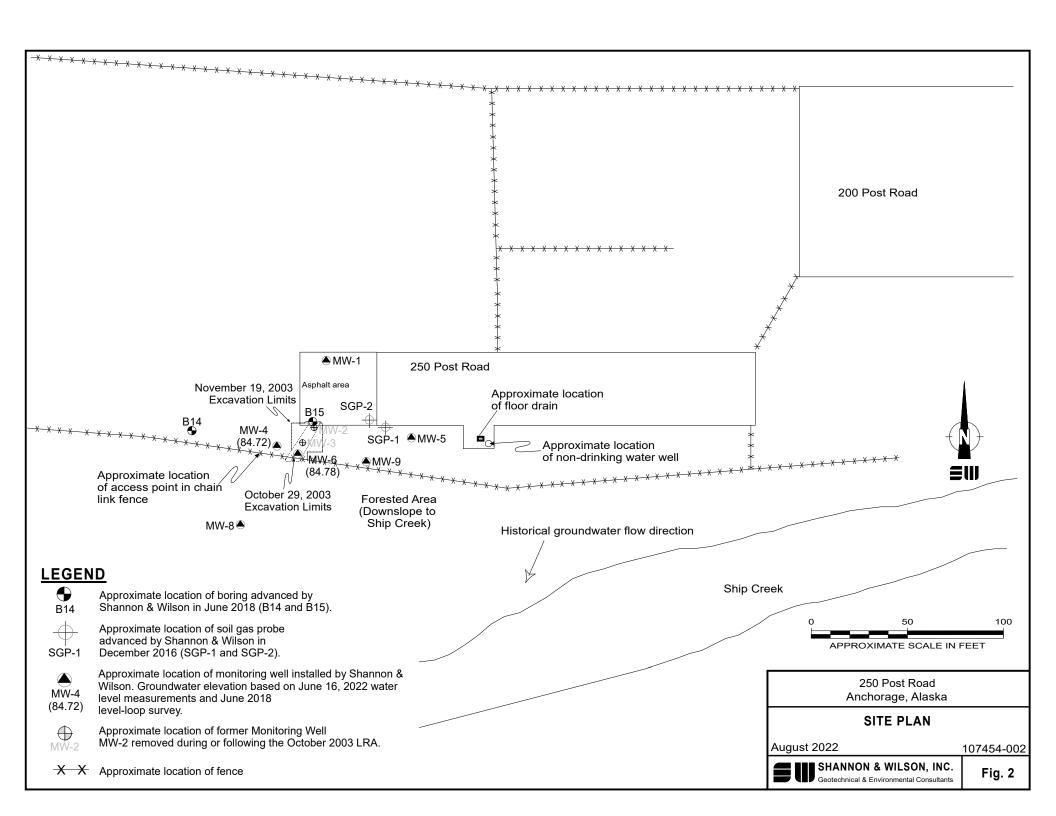
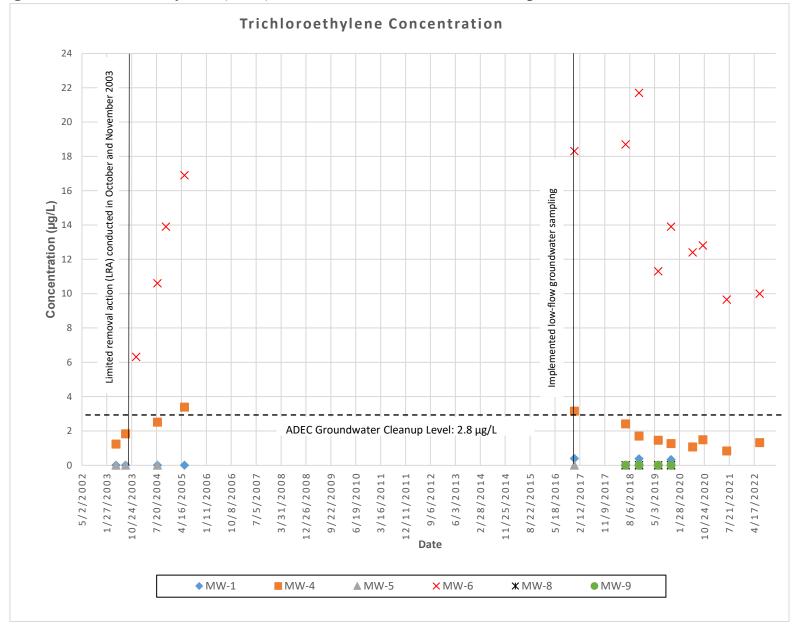
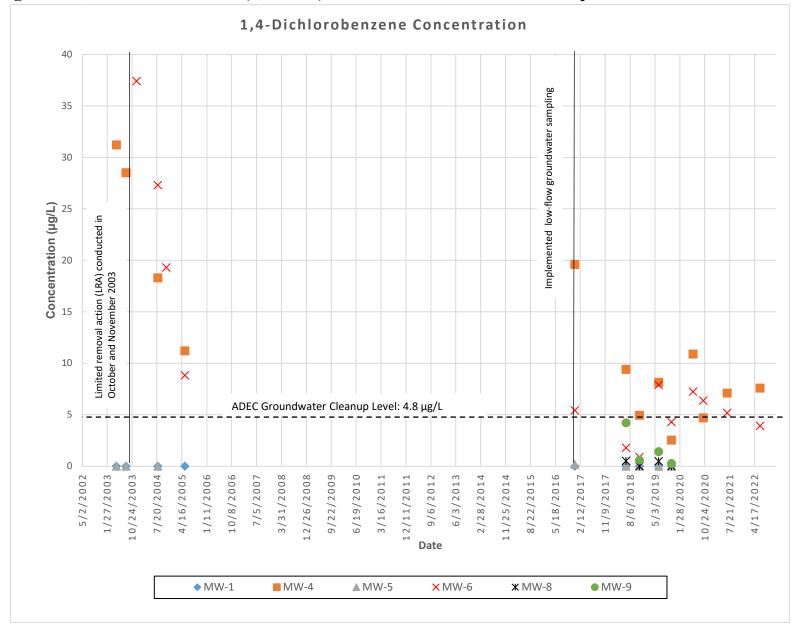


Figure 3: Trichloroethylene (TCE) Concentration Time Series Graph



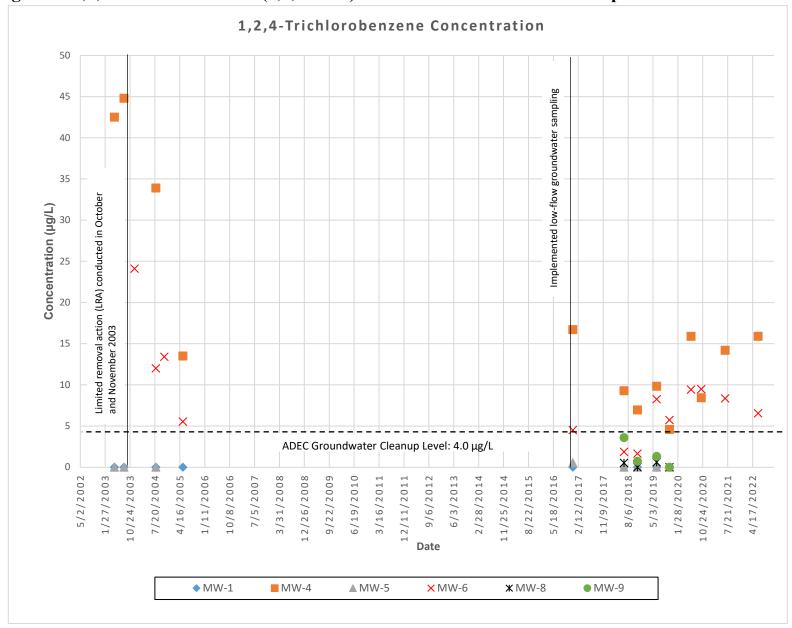
Note: Non-detects (reported at the Limit of Detection [LOD]) are plotted as zero for graphical presentation. See Table 3 for LOD.

Figure 4: 1,4-Dichlorobenzene (1,4-DCB) Concentration Time Series Graph



Note: Non-detects (reported at the Limit of Detection [LOD]) are plotted as zero for graphical presentation. See Table 3 for LOD.

Figure 5: 1,2,4-Trichlorobenzene (1,2,4-TCB) Concentration Time Series Graph



Note: Non-detects (reported at the Limit of Detection [LOD]) are plotted as zero for graphical presentation. See Table 3 for LOD.

Appendix A

Field Notes



LOW-FLOW WATER SAMPLING LOG

Shannon & Wilson, Inc.	
Job No: 107454 Location: 250 Post Road Weat	ther: (5¢ Synny
Well No.: MW4	O .
	ne Completed AP + + + + + + + + + + + + + + + + + +
Develop Date: Develop End Time: (24	hour break)
INITIAL GROUNDWATER LEVEL D	<u>DATA</u>
	rement: 6/16/22
Measuring Point (MP): Top of PVC Casing / Top of Steel Protective Casing / Other: Diameter of Casing: Well Screen Interval:	· ·
A = 0.	
Total Depth of Well Below MP: Product Thickness, if	noted:
Depth-to-Water (DTW) Below MP: 12.95 Water Column in Well: 5,6 (Total Depth of Well I	Below MP - DTW Below MP)
Water Column in Well: 5, 6 (Total Depth of Well I Gallons per foot:	Below in Bir Below in)
Gallons in Well: ALA-6 0.90 (Water Column in We	ll x Gallons per foot)
PURGING DATA	
	e Completed:
Three Well Volumes: 2.70 (Gallons in Well x 3)	1-Ham) 0.135
Gallons Purged: Depth of Pump (generally 2 ft from Max. Drawdown (generally 0.3 ft): O Pump Rate:	
Well Purged Dry: Yes No (If yes, use Well Purge	ed Dry Log)
	DO: pH: ORP: Turb
(L/min): (ft BMP): (ft): (°C) \(\times_{\cong}\) \(\text{\text{M}}\)	(mg/L) $(S.U.)$ (mV) (NTU)
	0.96 6.10 58 71.5
10-0	0.88 6.20 42 52.
	0.84 6.21 38 39.6
	0.79 6.24 26 31.2
1029 2.25 0.2 12.98 0.00 7.74 0.562	0.78 6.33 15 22.0
1028 2.25 0.2 12.98 6.06 7.72 0.56	0.19 0.00 100 22.0
SAMPLING DATA	*
Odor: Color: Clea	
Sample Designation: 107454 MW - 4 Time / Date: 105	5 6/16/22
QC Sample Designation: Time / Date:	
QA Sample Designation: Time / Date:	
Evacuation Method: Submersible Pump / Other: Jouble Whate	
Sampling Method: Submersible Pump / Other: Louble whale	
Water Quality Instruments Used/Manufacturer/Model Number	Milyo TPW
Calibration Info (Time, Ranges, etc) QQQO ON CHELL	
Remarks: Pavameters did not stabilize within I hr	Collected sumple
after purply for I hr + 3 well volumes.	
Sampling Personnel: WELL CASING VOLUMES (GAL/FT): 1" = 0.04 2" = 0.1	16 4" = 0.65
ANNULAR SPACE VOLUME (GAL/FT): 1" - 0.14" 2" - 0.1	' well = 0.23
and the same of	



LOW-FLOW WATER SAMPLING LOG

Continued from previous page

Job No: 107444 Location: 250 Rost Rd. Site: 250 Post Rd.

Well No.: 16/16/22

									•	
Time: 1033 1038 1043 1048	Gallons: 3.50 3.75 3.00 3.15 3.50	Pump Rate (L/min): 0.2 0.2 0.2 0.2 0.2	DTW (ft BMP): 12.48 12.48 12.48 12.48	Drawdown (ft): 0.00 0.00 0.00 0.00	Temp: (°C) 1,92 7,63 6,67 7,12 7,30	Sp. Cond (uS/cm) 0,561 0.563 0.564 0.563	DO (mg/L) 0.72 0.66 0.66	pH: (S.U.) (6.36) (6.36) (6.34) (6.34)	ORP: (mV) 9 3 -1 -3	Turb: (NTU) 16.59 15,88 14.12 12.33
		·							79	
					·					
		Pump Rate	 Drawdown	Temp:	Sp. Cond.:		pH:	ORP:		rh:
ADEC May 2010)	(minutes) 3 to 5	(mL/min):	(ft): <0.0328	(°C) ±3% or ±0.2	(uS/cm) ±3%	(mg/L) ±10%	(S.U.) ±0.1	(mV) ±10	(NT ±10	TU)
EPA Jan. 2010)	5	50	<0.3	±3%	±3%	±10%	±0.1	±10	±10% or	<5 NTU

EPA guidance requires all parameters to stabilize for 3 consecutive readings before sampling. If not stable within 2 hours, collect sample.

ADEC guidance requires 3 parameters (4 if using temperature) to stabilize for 3 consecutive readings before sampling.



LOW-FLOW WATER SAMPLING LOG

Shannon & Wilson, Inc.						
Job No: 107454	Location: 757) Post Rd.	Weather: 60	1 Sun	my	
Well No.: MWG			,		. 4	
Date: 6/16/27	Time Started:\	110	Time Comple	eted:	500	
Develop Date:	Develop End Time:		_ (24 hour brea	k)		
	INITIAL GROU	INDWATER LE	VEL DATA			,
Time of Depth Measurement:			h Measurement:	6/10	2/22	
Measuring Point (MP): Top o		eel Protective Casing	/ Other:		·.	
Diameter of Casing:	2"	Well Screen	Interval·	-	3	
Total Depth of Well Below M		Product Thic	kness, if noted:	-		
Depth-to-Water (DTW) Below	w MP: 13,29	н				
Water Column in Well:	3.05		of Well Below MI	P - DTW Be	low MP)	
Gallons per foot:	pr 549 6					
Gallons in Well:	0,49	(Water Colun	nn in Well x Gallo	ns per foot)		
	PU	RGING DATA				
Date Purged: 6/110/27	Time Started:	No.	Time Complet	ed: \\6	12	_
Three Well Volumes:	1.47 (Gallon		_			
Gallons Purged: 3.2	Depth	of Pump (generally 2	2 ft from bottom):	N14.	20	
Max. Drawdown (generally 0.	3 ft): 0.0 2	Pump Rate:	0.5			
Well Purged Dry:	Yes 🗆 No 💆		ell Purged Dry Lo	g)		
me: Gallons: Pump Rate	DTW Drawdown		Cond.: DO:	pH:	ORP:	T (1)
(L/min):	(ft BMP): (ft):	(°C) ms/cm(us	(em) or (mg/L)	(S.U.) 6,\7	(mV)	10
3 13 05	13.31 0.02			6.23	55	14
8 1,4 0.5	13.31 0.02		624 1.40 626 1.40	6.26		11
3 24 0.6	13.31 6.02			6.27	50	9
8 2.9 0.5	13.31 0.02		1 115	6-27	6	වි
3.2 0.5	13.31 0.02	6.16	631 1.40	(Ow L)	_(0)	
	<u> </u>					-
	SAM	PLING DATA	. K			
Odor: None		Color:	Clear		1.0	T /
1 5	57454-MW-6	Time / Date: _	1145	the 6	122121	1011
QC Sample Designation:	07494-MW-10		1216	- 0	TT GIL	012
QA Sample Designation:		Time / Date: _			-	
Evacuation Method: Submersi		ble whale				
Sampling Method: Submersible	e Pump / Other:	Hole Whall				
Water Quality Instruments Use	d/Manufacturer/Model Nu	imber Hovba	+ MICIOTY	SM		
Calibration Info (Time, Ranges	, etc) <u>@ 900</u> o	n 6/4e/22	N			- /
Remarks:	• .					
	7/1/7		ε.			_
Sampling Personnel:	CASING VOLUMES (G.	$\Delta I/ET$): 1" = 0.04	2" = 0.16 4" =	0.65	7	-
WELL ANN	TULAR SPACE VOLUME	E (GAL/FT): 4" casi	$\frac{2}{2} = 0.10 = 0$ and 2" well = 0	.23		

Appendix B

Results of Analytical Testing

By SGS North America Inc. of Anchorage, Alaska and ADEC Laboratory Data Review Checklist



Laboratory Report of Analysis

To: Shannon & Wilson, Inc.

5430 Fairbanks Street, Suite 3 Anchorage, AK 99518 (907)433-3228

Report Number: 1223164

Client Project: 107454 250 Post Road

Dear Alec Rizzo,

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

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

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

Sincerely,

SGS North America Inc.

Stephen C. Ede

Staphen C. Ede 2022.06.27

16:48:15 -08'00'

Justin Nelson Project Manager Justin.Nelson@sgs.com Date

Print Date: 06/27/2022 4:44:44PM Results via Engage



Case Narrative

SGS Client: **Shannon & Wilson, Inc.**SGS Project: **1223164**Project Name/Site: **107454 250 Post Road**Project Contact: **Alec Rizzo**

Refer to sample receipt form for information on sample condition.

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

Print Date: 06/27/2022 4:44:45PM



Laboratory Qualifiers

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

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

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 DW Chemistry (Provisionally Certified as of 05/31/2022 for Nitrate as N by SM 4500NO3-F) & Microbiology & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

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

* The analyte has exceeded allowable regulatory or control limits.

! Surrogate out of control limits.

B Indicates the analyte is found in a blank associated with the sample.

CCV/CVA/CVB Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB Closing Continuing Calibration Verification

CL Control Limit

DF Analytical Dilution Factor

DL Detection Limit (i.e., maximum method detection limit)
E The analyte result is above the calibrated range.

GT Greater Than
IB Instrument Blank

ICV Initial Calibration Verification
J The quantitation is an estimation.
LCS(D) Laboratory Control Spike (Duplicate)
LLQC/LLIQC Low Level Quantitation Check

LOD Limit of Detection (i.e., 1/2 of the LOQ)

LOQ Limit of Quantitation (i.e., reporting or practical quantitation limit)

LT Less Than MB Method Blank

MS(D) Matrix Spike (Duplicate)

ND Indicates the analyte is not detected.

RPD Relative Percent Difference
TNTC Too Numerous To Count

U Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.

All DRO/RRO analyses are integrated per SOP.

Print Date: 06/27/2022 4:44:47PM

SGS North America Inc. 200 West Potter Drive, Anchorage, AK 99518



Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	<u>Matrix</u>
107454-MW-4	1223164001	06/16/2022	06/16/2022	Water (Surface, Eff., Ground)
107454-MW-6	1223164002	06/16/2022	06/16/2022	Water (Surface, Eff., Ground)
107454-MW-106	1223164003	06/16/2022	06/16/2022	Water (Surface, Eff., Ground)
107454-WTB	1223164004	06/16/2022	06/16/2022	Water (Surface, Eff., Ground)

Method Description

SW8260D Volatile Organic Compounds (W) FULL

Print Date: 06/27/2022 4:44:49PM



Detectable	Results	Summary
------------	---------	---------

Client Sample ID: 107454-MW-4			
Lab Sample ID: 1223164001	Parameter	Result	Units
Volatile GC/MS	1,1-Dichloroethane	0.681J	ug/L
	1,2,4-Trichlorobenzene	15.9	ug/L
	1,2-Dichlorobenzene	0.700J	ug/L
	1,3-Dichlorobenzene	7.85	ug/L
	1,4-Dichlorobenzene	7.58	ug/L
	Trichloroethene	1.32	ug/L
Client Sample ID: 107454-MW-6			
Lab Sample ID: 1223164002	Parameter	Result	Units
Volatile GC/MS	1,1,1-Trichloroethane	0.462J	ug/L
	1,2,3-Trichlorobenzene	0.624J	ug/L
	1,2,4-Trichlorobenzene	6.54	ug/L
	1,2-Dichlorobenzene	0.537J	ug/L
	1,3-Dichlorobenzene	4.00	ug/L
	1,4-Dichlorobenzene	3.92	ug/L
	cis-1,2-Dichloroethene	0.846J	ug/L
	Trichloroethene	9.85	ug/L
Client Sample ID: 107454-MW-106			
Lab Sample ID: 1223164003	<u>Parameter</u>	Result	<u>Units</u>
Volatile GC/MS	1,2,3-Trichlorobenzene	0.621J	ug/L
	1,2,4-Trichlorobenzene	6.42	ug/L
	1,2-Dichlorobenzene	0.537J	ug/L
	1,3-Dichlorobenzene	4.01	ug/L
	1,4-Dichlorobenzene	3.91	ug/L
	cis-1,2-Dichloroethene	0.889J	ug/L
	Trichloroethene	10.0	ug/L

Print Date: 06/27/2022 4:44:50PM



Client Sample ID: 107454-MW-4 Client Project ID: 107454 250 Post Road

Lab Sample ID: 1223164001 Lab Project ID: 1223164 Collection Date: 06/16/22 10:55 Received Date: 06/16/22 13:35 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	Allowable Limits Date Analyzed
1,1,1,2-Tetrachloroethane	0.250 U	0.500	0.150	ug/L	1	06/21/22 21:38
1,1,1-Trichloroethane	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:38
1,1,2,2-Tetrachloroethane	0.250 U	0.500	0.150	ug/L	1	06/21/22 21:38
1,1,2-Trichloroethane	0.200 U	0.400	0.120	ug/L	1	06/21/22 21:38
1,1-Dichloroethane	0.681 J	1.00	0.310	ug/L	1	06/21/22 21:38
1,1-Dichloroethene	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:38
1,1-Dichloropropene	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:38
1,2,3-Trichlorobenzene	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:38
1,2,3-Trichloropropane	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:38
1,2,4-Trichlorobenzene	15.9	1.00	0.310	ug/L	1	06/21/22 21:38
1,2,4-Trimethylbenzene	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:38
1,2-Dibromo-3-chloropropane	5.00 U	10.0	3.10	ug/L	1	06/21/22 21:38
1,2-Dibromoethane	0.0375 U	0.0750	0.0180	ug/L	1	06/21/22 21:38
1,2-Dichlorobenzene	0.700 J	1.00	0.310	ug/L	1	06/21/22 21:38
1,2-Dichloroethane	0.250 U	0.500	0.200	ug/L	1	06/21/22 21:38
1,2-Dichloropropane	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:38
1,3,5-Trimethylbenzene	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:38
1,3-Dichlorobenzene	7.85	1.00	0.310	ug/L	1	06/21/22 21:38
1,3-Dichloropropane	0.250 U	0.500	0.150	ug/L	1	06/21/22 21:38
1,4-Dichlorobenzene	7.58	0.500	0.150	ug/L	1	06/21/22 21:38
2,2-Dichloropropane	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:38
2-Butanone (MEK)	5.00 U	10.0	3.10	ug/L	1	06/21/22 21:38
2-Chlorotoluene	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:38
2-Hexanone	5.00 U	10.0	3.10	ug/L	1	06/21/22 21:38
4-Chlorotoluene	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:38
4-Isopropyltoluene	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:38
4-Methyl-2-pentanone (MIBK)	5.00 U	10.0	3.10	ug/L	1	06/21/22 21:38
Benzene	0.200 U	0.400	0.120	ug/L	1	06/21/22 21:38
Bromobenzene	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:38
Bromochloromethane	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:38
Bromodichloromethane	0.250 U	0.500	0.150	ug/L	1	06/21/22 21:38
Bromoform	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:38
Bromomethane	3.00 U	6.00	3.00	ug/L	1	06/21/22 21:38
Carbon disulfide	5.00 U	10.0	3.10	ug/L	1	06/21/22 21:38
Carbon tetrachloride	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:38
Chlorobenzene	0.250 U	0.500	0.150	ug/L	1	06/21/22 21:38
Chloroethane	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:38

Print Date: 06/27/2022 4:44:51PM



Client Sample ID: 107454-MW-4 Client Project ID: 107454 250 Post Road

Lab Sample ID: 1223164001 Lab Project ID: 1223164 Collection Date: 06/16/22 10:55 Received Date: 06/16/22 13:35 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Volatile GC/MS

Chloroform O.500 U 1.00 O.310 Ug/L 1 O6/21/22 21:3i Chloromethane O.500 U 1.00 O.310 Ug/L 1 O6/21/22 21:3i Chloromethane O.500 U 1.00 O.310 Ug/L 1 O6/21/22 21:3i Cis-1,3-Dichloroethene O.500 U 0.500 O.500 O.150 Ug/L 1 O6/21/22 21:3i Cis-1,3-Dichloromethane O.250 U 0.500 O.150 Ug/L 1 O6/21/22 21:3i Dibromochloromethane O.500 U 1.00 O.310 Ug/L 1 O6/21/22 21:3i C							<u>Allowable</u>	
Chloromethane	<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
cis-1,2-Dichloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 cis-1,3-Dichloropropene 0.250 U 0.500 0.150 ug/L 1 06/21/22 21:38 Dibromochloromethane 0.250 U 0.500 U 1.00 ug/L 1 06/21/22 21:38 Dibromomethane 0.500 U 1.00 u310 ug/L 1 06/21/22 21:38 Elhylbenzene 0.500 U 1.00 u310 ug/L 1 06/21/22 21:38 Elhylbenzene 0.500 U 1.00 u310 ug/L 1 06/21/22 21:38 Hexachlorobutadiene 0.500 U 1.00 u310 ug/L 1 06/21/22 21:38 Isopropylbenzene (Cumene) 0.500 U 1.00 u310 ug/L 1 06/21/22 21:38 Methyl-butyl ether 5.00 U 1.00 u310 ug/L 1 06/21/22 21:38 Methyl-butyl ether 5.00 U 1.00 u310 ug/L 1 06/21/22 21:38 Methyl-butylene chloride 5.00 U 1.00 u310 ug/L 1 06/21/22 21:38 Methyl-butylene chloride 5.00 U 1.00 u310 ug/L 1 06/21/22 21:38 <th< td=""><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td></th<>					_			
cis-1,3-Dichloropropene 0.250 U 0.500 0.150 ug/L 1 06/21/22 21:38 Dibromochloromethane 0.250 U 0.500 0.150 ug/L 1 06/21/22 21:38 Dibromochloromethane 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Ethylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Ethylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Freon-113 5.00 U 1.00 0.310 ug/L 1 06/21/22 21:38 Iexachlorobutadiene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Isopropylbenzene (Cumene) 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Methyl-I-butyl ether 5.00 U 1.00 0.310 ug/L 1 06/21/22 21:38 Methylene chloride 5.00 U 1.00 0.310 ug/L 1 06/21/22 21:38 Methyl-I-butyl ether 5.00 U 1.00 0.310 ug/L 1 06/21/22 21:38 Naphthalene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Naphthalene 0					-	1		
Dibromochloromethane 0.250 U 0.500 U 0.150 U ug/L 1 06/21/22 21:38 Dibromomethane 0.500 U 1.00 0.310 Ug/L 1 06/21/22 21:38 Dichlorodifluoromethane 0.500 U 1.00 0.310 Ug/L 1 06/21/22 21:38 Ethylbenzene 0.500 U 1.00 0.310 Ug/L 1 06/21/22 21:38 Freon-113 5.00 U 1.00 0.310 Ug/L 1 06/21/22 21:38 Hexachlorobutadiene 0.500 U 1.00 0.310 Ug/L 1 06/21/22 21:38 Isopropylbenzene (Cumene) 0.500 U 1.00 0.310 Ug/L 1 06/21/22 21:38 Methylene chloride 5.00 U 10.0 3.10 Ug/L 1 06/21/22 21:38 Methylene chloride 5.00 U 10.0 3.10 Ug/L 1 06/21/22 21:38 Methylene chloride 5.00 U 10.0 0.310 Ug/L 1 06/21/22 21:38 Methylene chloride 5.00 U 1.00 0.310 Ug/L 1 06/21/22 21:38 Methylene chloride <td>cis-1,2-Dichloroethene</td> <td>0.500 U</td> <td></td> <td>0.310</td> <td>Ü</td> <td>1</td> <td></td> <td>06/21/22 21:38</td>	cis-1,2-Dichloroethene	0.500 U		0.310	Ü	1		06/21/22 21:38
Dibromomethane 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Dichlorodifluoromethane 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Ethylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Ethylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Hexachlorobutadiene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Isopropylbenzene (Cumene) 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Methyl-t-butyl ether 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:38 Methyl-butyl ether 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:38 Methyl-butyl ether 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:38 Methylene chloride 5.00 U 1.00 3.310 ug/L 1 06/21/22 21:38 Butylbenzene 0.500 U	cis-1,3-Dichloropropene	0.250 U	0.500	0.150	ug/L	1		06/21/22 21:38
Dichlorodifluoromethane	Dibromochloromethane	0.250 U	0.500	0.150	ug/L	1		06/21/22 21:38
Ethylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Freon-113 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:38 Hexachlorobutadiene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Isopropylbenzene (Cumene) 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Methylene chloride 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:38 Methylene chloride 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:38 Methylene chloride 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:38 Methylene chloride 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:38 Naphthalene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Naphthalene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 n-Brutylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 n-Propylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 sec-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 sec-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 sec-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Styrene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Styrene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Tetrachloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Tetrachloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Trans-1,2-Dichloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Trichloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Trichloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Trichloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Trichloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Trichloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Trichloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Trichloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Trichloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Trichloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Trichloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Trichloroethene 0.500 U 1.00 0.300 ug/L 1 06/21/22 21:38 Trichloroethene 0.500 U 1.00 0.300 ug/L 1 06/21/22 21:38 Trichloroethene 0.500 U 1.00 0.500 ug/L 1 06/21/22 21:38 Trichloroethene 0.500 U 0.150 0.500 ug/L 1 06/21/22 21:38 Trichloroethene 0.500 U 0.500 ug/L 1 06/21/22 21:38 Trichloroethene 0.500 U 0.500 ug/L 1 06/21/22 21:38 Tric	Dibromomethane	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:38
Freon-113	Dichlorodifluoromethane	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:38
Hexachlorobutadiene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 lsopropylbenzene (Cumene) 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Methylene chloride 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:38 Methylene chloride 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:38 Methylene chloride 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:38 Methylene chloride 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:38 Naphthalene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 naphthalene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 naphthalene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 naphthalene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 naphthalene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 sec-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 sec-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 sec-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 sec-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 sec-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,2-Dichloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,2-Dichloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,3-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,3-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,3-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,3-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,3-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,3-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,3-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,3-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,2-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,2-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,2-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,2-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,2-Dichloro	Ethylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:38
Sopropylbenzene (Cumene)	Freon-113	5.00 U	10.0	3.10	ug/L	1		06/21/22 21:38
Methylene chloride 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:34 Methyl-t-butyl ether 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:34 Naphthalene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:34 n-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:34 n-Propylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:34 o-Xylene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:34 o-Xylene 1.00 U 2.00 0.620 ug/L 1 06/21/22 21:34 o-Xylene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:34 Styrene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:34 tetr-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:34 Tetrachloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:34 Trichloroethene 0.500 U <	Hexachlorobutadiene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:38
Methyl-t-butyl ether 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:34 Naphthalene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:34 n-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:34 n-Propylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:34 o-Xylene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:34 o-Xylene 1.00 U 2.00 0.620 ug/L 1 06/21/22 21:34 o-Xylene 1.00 U 2.00 0.620 ug/L 1 06/21/22 21:34 sec-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:34 Styrene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:34 tert-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:34 Tetrachloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:34 Troblenoethene 0.500 U <td< td=""><td>Isopropylbenzene (Cumene)</td><td>0.500 U</td><td>1.00</td><td>0.310</td><td>ug/L</td><td>1</td><td></td><td>06/21/22 21:38</td></td<>	Isopropylbenzene (Cumene)	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:38
Naphthalene	Methylene chloride	5.00 U	10.0	3.10	ug/L	1		06/21/22 21:38
n-Butylbenzene	Methyl-t-butyl ether	5.00 U	10.0	3.10	ug/L	1		06/21/22 21:38
n-Propylbenzene	Naphthalene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:38
o-Xylene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 P & M -Xylene 1.00 U 2.00 0.620 ug/L 1 06/21/22 21:38 sec-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Styrene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 tetr-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Tetrachloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Toluene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,2-Dichloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,3-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Trichlorofluoromethane 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Vinyl acetate 5.00 U 1.00	n-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:38
P & M -Xylene 1.00 U 2.00 0.620 ug/L 1 06/21/22 21:38 sec-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 sec-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 1.00 0.500 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 0.150 0.0500 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 0.150 0.0500 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 0.150 0.0500 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 0.150 0.0500 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 0.150 0.0500 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 0.150 0.0500 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 0.150 0.0500 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 0.150 0.0500 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 0.150 0.0500 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 0.150 0.0500 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 0.150 0.0500 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 0.0500 ug/L 1 06/21/22	n-Propylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:38
sec-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Styrene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Tetrachloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Toluene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,2-Dichloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,3-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Trichloroethene 1.32 1.00 0.310 ug/L 1 06/21/22 21:38 Vinyl acetate 5.00 U 1.00 0.310 ug/L 1 06/21/22 21:38 Vinyl chloride 0.0750 U 0.150 0.0500 ug/L 1 06/21/22 21:38 Vylenes (total) 1.50 U 3.00	o-Xylene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:38
Styrene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 tert-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Tetrachloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Toluene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,2-Dichloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,3-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Trichloroethene 1.32 1.00 0.310 ug/L 1 06/21/22 21:38 Vinyl acetate 5.00 U 1.00 0.310 ug/L 1 06/21/22 21:38 Vinyl chloride 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:38 Vinyl chloride 0.0750 U 0.150 0.0500 ug/L 1 06/21/22 21:38 Virogates 1,2-Dichloroethane-D4 (surr) 106 81-118 % 1 06/21/22 21:38 4-Bromofluor	P & M -Xylene	1.00 U	2.00	0.620	ug/L	1		06/21/22 21:38
tert-Butylbenzene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Tetrachloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Toluene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,2-Dichloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,3-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Trichloroethene 1.32 1.00 0.310 ug/L 1 06/21/22 21:38 Trichloroethene 1.32 1.00 0.310 ug/L 1 06/21/22 21:38 Trichlorofluoromethane 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Vinyl acetate 5.00 U 1.00 0.310 ug/L 1 06/21/22 21:38 Vinyl chloride 0.0750 U 0.150 0.0500 ug/L 1 06/21/22 21:38 Xylenes (total) 1.50 U 3.00 1.00 ug/L 1 06/21/22 21:38 urrogates 1,2-Dichloroethane-D4 (surr) 106 81-118 % 1 06/21/22 21:38 4-Bromofluorobenzene (surr) 100 85-114 % 1 06/21/22 21:38	sec-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:38
Tetrachloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Toluene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,2-Dichloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,3-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Trichloroethene 1.32 1.00 0.310 ug/L 1 06/21/22 21:38 Trichlorofluoromethane 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Vinyl acetate 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:38 Vinyl chloride 0.0750 U 0.150 0.0500 ug/L 1 06/21/22 21:38 Xylenes (total) 1.50 U 3.00 1.00 ug/L 1 06/21/22 21:38 urrogates 1,2-Dichloroethane-D4 (surr) 106 81-118 % 1 06/21/22 21:38 4-Bromofluorobenzene (surr) 100	Styrene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:38
Toluene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,2-Dichloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,3-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,3-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Trichloroethene 1.32 1.00 0.310 ug/L 1 06/21/22 21:38 Trichlorofluoromethane 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Vinyl acetate 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:38 Vinyl chloride 0.0750 U 0.150 0.0500 ug/L 1 06/21/22 21:38 Xylenes (total) 1.50 U 3.00 1.00 ug/L 1 06/21/22 21:38 Urrogates 1,2-Dichloroethane-D4 (surr) 106 81-118 % 1 06/21/22 21:38 4-Bromofluorobenzene (surr) 100 85-114 % 1 06/21/2	tert-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:38
Toluene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,2-Dichloroethene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,3-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,3-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,3-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,3-Dichlorofluoromethane 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,3-Dichlorofluoromethane 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 trans-1,3-Dichlorofluoromethane 0.500 U 1.00 3.10 ug/L 1 06/21/22 21:38 trans-1,3-Dichlorofluoromethane 0.500 U 0.150 0.0500 ug/L 1 06/21/22 21:38 trans-1,3-Dichloroethane-D4 (surr) 1.50 U 3.00 1.00 ug/L 1 06/21/22 21:38 trans-1,3-Dichloroethane-D4 (surr) 1.50 U 3.00 1.00 ug/L 1 06/21/22 21:38 trans-1,3-Dichloroethane-D4 (surr) 1.00 85-114 % 1 06/21/22 21:38 trans-1,3-Dichloroethane-D4 (surr)	Tetrachloroethene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:38
trans-1,3-Dichloropropene 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Trichloroethene 1.32 1.00 0.310 ug/L 1 06/21/22 21:38 Trichlorofluoromethane 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Vinyl acetate 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:38 Vinyl chloride 0.0750 U 0.150 0.0500 ug/L 1 06/21/22 21:38 Xylenes (total) 1.50 U 3.00 1.00 ug/L 1 06/21/22 21:38 urrogates 1,2-Dichloroethane-D4 (surr) 106 81-118 % 1 06/21/22 21:38 4-Bromofluorobenzene (surr) 100 85-114 % 1 06/21/22 21:38	Toluene	0.500 U	1.00	0.310		1		06/21/22 21:38
Trichloroethene 1.32 1.00 0.310 ug/L 1 06/21/22 21:38 Trichlorofluoromethane 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Vinyl acetate 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:38 Vinyl chloride 0.0750 U 0.150 0.0500 ug/L 1 06/21/22 21:38 Xylenes (total) 1.50 U 3.00 1.00 ug/L 1 06/21/22 21:38 urrogates 1,2-Dichloroethane-D4 (surr) 106 81-118 % 1 06/21/22 21:38 4-Bromofluorobenzene (surr) 100 85-114 % 1 06/21/22 21:38	trans-1,2-Dichloroethene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:38
Trichloroethene 1.32 1.00 0.310 ug/L 1 06/21/22 21:38 Trichlorofluoromethane 0.500 U 1.00 0.310 ug/L 1 06/21/22 21:38 Vinyl acetate 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:38 Vinyl chloride 0.0750 U 0.150 0.0500 ug/L 1 06/21/22 21:38 Xylenes (total) 1.50 U 3.00 1.00 ug/L 1 06/21/22 21:38 urrogates 1,2-Dichloroethane-D4 (surr) 106 81-118 % 1 06/21/22 21:38 4-Bromofluorobenzene (surr) 100 85-114 % 1 06/21/22 21:38	trans-1,3-Dichloropropene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:38
Vinyl acetate 5.00 U 10.0 3.10 ug/L 1 06/21/22 21:38 Vinyl chloride 0.0750 U 0.150 0.0500 ug/L 1 06/21/22 21:38 Xylenes (total) 1.50 U 3.00 1.00 ug/L 1 06/21/22 21:38 urrogates 1,2-Dichloroethane-D4 (surr) 106 81-118 % 1 06/21/22 21:38 4-Bromofluorobenzene (surr) 100 85-114 % 1 06/21/22 21:38	Trichloroethene	1.32	1.00	0.310		1		06/21/22 21:38
Vinyl chloride 0.0750 U 0.150 0.0500 ug/L 1 06/21/22 21:38 Xylenes (total) 1.50 U 3.00 1.00 ug/L 1 06/21/22 21:38 urrogates 1,2-Dichloroethane-D4 (surr) 106 81-118 % 1 06/21/22 21:38 4-Bromofluorobenzene (surr) 100 85-114 % 1 06/21/22 21:38	Trichlorofluoromethane	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:38
Vinyl chloride 0.0750 U 0.150 0.0500 ug/L 1 06/21/22 21:38 Xylenes (total) 1.50 U 3.00 1.00 ug/L 1 06/21/22 21:38 urrogates 1,2-Dichloroethane-D4 (surr) 106 81-118 % 1 06/21/22 21:38 4-Bromofluorobenzene (surr) 100 85-114 % 1 06/21/22 21:38	Vinyl acetate	5.00 U	10.0	3.10	ug/L	1		06/21/22 21:38
urrogates 1,2-Dichloroethane-D4 (surr) 106 81-118 % 1 06/21/22 21:38 4-Bromofluorobenzene (surr) 100 85-114 % 1 06/21/22 21:38	Vinyl chloride	0.0750 U	0.150	0.0500	-	1		06/21/22 21:38
1,2-Dichloroethane-D4 (surr) 106 81-118 % 1 06/21/22 21:38 4-Bromofluorobenzene (surr) 100 85-114 % 1 06/21/22 21:38	Xylenes (total)	1.50 U	3.00	1.00	ug/L	1		06/21/22 21:38
4-Bromofluorobenzene (surr) 100 85-114 % 1 06/21/22 21:38	urrogates							
	1,2-Dichloroethane-D4 (surr)	106	81-118		%	1		06/21/22 21:38
	4-Bromofluorobenzene (surr)	100	85-114		%	1		06/21/22 21:38
	Toluene-d8 (surr)	99.6	89-112		%	1		06/21/22 21:38

Print Date: 06/27/2022 4:44:51PM



Client Sample ID: 107454-MW-4

Client Project ID: 107454 250 Post Road

Lab Sample ID: 1223164001 Lab Project ID: 1223164 Collection Date: 06/16/22 10:55 Received Date: 06/16/22 13:35 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS21716 Analytical Method: SW8260D

Analyst: JMG

Analytical Date/Time: 06/21/22 21:38 Container ID: 1223164001-A Prep Batch: VXX38730 Prep Method: SW5030B Prep Date/Time: 06/21/22 06:00 Prep Initial Wt./Vol.: 5 mL Prep Extract Vol: 5 mL

Print Date: 06/27/2022 4:44:51PM J flagging is activated



Client Sample ID: 107454-MW-6 Client Project ID: 107454 250 Post Road

Lab Sample ID: 1223164002 Lab Project ID: 1223164 Collection Date: 06/16/22 11:45 Received Date: 06/16/22 13:35 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Volatile GC/MS

<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	Allowable Limits <u>Date Analyzed</u>
1,1,1,2-Tetrachloroethane	0.250 U	0.500	0.150	ug/L	1	06/21/22 21:53
1,1,1-Trichloroethane	0.462 J	1.00	0.310	ug/L	1	06/21/22 21:53
1,1,2,2-Tetrachloroethane	0.250 U	0.500	0.150	ug/L	1	06/21/22 21:53
1,1,2-Trichloroethane	0.200 U	0.400	0.120	ug/L	1	06/21/22 21:53
1,1-Dichloroethane	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:53
1,1-Dichloroethene	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:53
1,1-Dichloropropene	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:53
1,2,3-Trichlorobenzene	0.624 J	1.00	0.310	ug/L	1	06/21/22 21:53
1,2,3-Trichloropropane	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:53
1,2,4-Trichlorobenzene	6.54	1.00	0.310	ug/L	1	06/21/22 21:53
1,2,4-Trimethylbenzene	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:53
1,2-Dibromo-3-chloropropane	5.00 U	10.0	3.10	ug/L	1	06/21/22 21:53
1,2-Dibromoethane	0.0375 U	0.0750	0.0180	ug/L	1	06/21/22 21:53
1,2-Dichlorobenzene	0.537 J	1.00	0.310	ug/L	1	06/21/22 21:53
1,2-Dichloroethane	0.250 U	0.500	0.200	ug/L	1	06/21/22 21:53
1,2-Dichloropropane	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:53
1,3,5-Trimethylbenzene	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:53
1,3-Dichlorobenzene	4.00	1.00	0.310	ug/L	1	06/21/22 21:53
1,3-Dichloropropane	0.250 U	0.500	0.150	ug/L	1	06/21/22 21:53
1,4-Dichlorobenzene	3.92	0.500	0.150	ug/L	1	06/21/22 21:53
2,2-Dichloropropane	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:53
2-Butanone (MEK)	5.00 U	10.0	3.10	ug/L	1	06/21/22 21:53
2-Chlorotoluene	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:53
2-Hexanone	5.00 U	10.0	3.10	ug/L	1	06/21/22 21:53
4-Chlorotoluene	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:53
4-Isopropyltoluene	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:53
4-Methyl-2-pentanone (MIBK)	5.00 U	10.0	3.10	ug/L	1	06/21/22 21:53
Benzene	0.200 U	0.400	0.120	ug/L	1	06/21/22 21:53
Bromobenzene	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:53
Bromochloromethane	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:53
Bromodichloromethane	0.250 U	0.500	0.150	ug/L	1	06/21/22 21:53
Bromoform	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:53
Bromomethane	3.00 U	6.00	3.00	ug/L	1	06/21/22 21:53
Carbon disulfide	5.00 U	10.0	3.10	ug/L	1	06/21/22 21:53
Carbon tetrachloride	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:53
Chlorobenzene	0.250 U	0.500	0.150	ug/L	1	06/21/22 21:53
Chloroethane	0.500 U	1.00	0.310	ug/L	1	06/21/22 21:53

Print Date: 06/27/2022 4:44:51PM



Client Sample ID: 107454-MW-6 Client Project ID: 107454 250 Post Road

Lab Sample ID: 1223164002 Lab Project ID: 1223164 Collection Date: 06/16/22 11:45 Received Date: 06/16/22 13:35 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Volatile GC/MS

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Chloroform	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:53
Chloromethane	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:53
cis-1,2-Dichloroethene	0.846 J	1.00	0.310	ug/L	1		06/21/22 21:53
cis-1,3-Dichloropropene	0.250 U	0.500	0.150	ug/L	1		06/21/22 21:53
Dibromochloromethane	0.250 U	0.500	0.150	ug/L	1		06/21/22 21:53
Dibromomethane	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:53
Dichlorodifluoromethane	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:53
Ethylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:53
Freon-113	5.00 U	10.0	3.10	ug/L	1		06/21/22 21:53
Hexachlorobutadiene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:53
Isopropylbenzene (Cumene)	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:53
Methylene chloride	5.00 U	10.0	3.10	ug/L	1		06/21/22 21:53
Methyl-t-butyl ether	5.00 U	10.0	3.10	ug/L	1		06/21/22 21:53
Naphthalene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:53
n-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:53
n-Propylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:53
o-Xylene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:53
P & M -Xylene	1.00 U	2.00	0.620	ug/L	1		06/21/22 21:53
sec-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:53
Styrene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:53
tert-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:53
Tetrachloroethene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:53
Toluene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:53
trans-1,2-Dichloroethene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:53
trans-1,3-Dichloropropene	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:53
Trichloroethene	9.85	1.00	0.310	ug/L	1		06/21/22 21:53
Trichlorofluoromethane	0.500 U	1.00	0.310	ug/L	1		06/21/22 21:53
Vinyl acetate	5.00 U	10.0	3.10	ug/L	1		06/21/22 21:5
Vinyl chloride	0.0750 U	0.150	0.0500	ug/L	1		06/21/22 21:5
Xylenes (total)	1.50 U	3.00	1.00	ug/L	1		06/21/22 21:5
urrogates							
1,2-Dichloroethane-D4 (surr)	105	81-118		%	1		06/21/22 21:5
4-Bromofluorobenzene (surr)	101	85-114		%	1		06/21/22 21:5
Toluene-d8 (surr)	98.8	89-112		%	1		06/21/22 21:53

Print Date: 06/27/2022 4:44:51PM



Client Sample ID: 107454-MW-6 Client Project ID: 107454 250 Post Road

Lab Sample ID: 1223164002 Lab Project ID: 1223164 Collection Date: 06/16/22 11:45 Received Date: 06/16/22 13:35 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS21716 Analytical Method: SW8260D

Analyst: JMG

Analytical Date/Time: 06/21/22 21:53 Container ID: 1223164002-A Prep Batch: VXX38730 Prep Method: SW5030B Prep Date/Time: 06/21/22 06:00 Prep Initial Wt./Vol.: 5 mL Prep Extract Vol: 5 mL

Print Date: 06/27/2022 4:44:51PM J flagging is activated



Client Sample ID: 107454-MW-106 Client Project ID: 107454 250 Post Road

Lab Sample ID: 1223164003 Lab Project ID: 1223164 Collection Date: 06/16/22 12:15 Received Date: 06/16/22 13:35 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	Allowable Limits Date Analyzed
1,1,1,2-Tetrachloroethane	0.250 U	0.500	0.150	ug/L	1	06/21/22 22:08
1,1,1-Trichloroethane	0.500 U	1.00	0.310	ug/L	1	06/21/22 22:08
1,1,2,2-Tetrachloroethane	0.250 U	0.500	0.150	ug/L	1	06/21/22 22:08
1,1,2-Trichloroethane	0.200 U	0.400	0.120	ug/L	1	06/21/22 22:08
1,1-Dichloroethane	0.500 U	1.00	0.310	ug/L	1	06/21/22 22:08
1,1-Dichloroethene	0.500 U	1.00	0.310	ug/L	1	06/21/22 22:08
1,1-Dichloropropene	0.500 U	1.00	0.310	ug/L	1	06/21/22 22:08
1,2,3-Trichlorobenzene	0.621 J	1.00	0.310	ug/L	1	06/21/22 22:08
1,2,3-Trichloropropane	0.500 U	1.00	0.310	ug/L	1	06/21/22 22:08
1,2,4-Trichlorobenzene	6.42	1.00	0.310	ug/L	1	06/21/22 22:08
1,2,4-Trimethylbenzene	0.500 U	1.00	0.310	ug/L	1	06/21/22 22:08
1,2-Dibromo-3-chloropropane	5.00 U	10.0	3.10	ug/L	1	06/21/22 22:08
1,2-Dibromoethane	0.0375 U	0.0750	0.0180	ug/L	1	06/21/22 22:08
1,2-Dichlorobenzene	0.537 J	1.00	0.310	ug/L	1	06/21/22 22:08
1,2-Dichloroethane	0.250 U	0.500	0.200	ug/L	1	06/21/22 22:08
1,2-Dichloropropane	0.500 U	1.00	0.310	ug/L	1	06/21/22 22:08
1,3,5-Trimethylbenzene	0.500 U	1.00	0.310	ug/L	1	06/21/22 22:08
1,3-Dichlorobenzene	4.01	1.00	0.310	ug/L	1	06/21/22 22:08
1,3-Dichloropropane	0.250 U	0.500	0.150	ug/L	1	06/21/22 22:08
1,4-Dichlorobenzene	3.91	0.500	0.150	ug/L	1	06/21/22 22:08
2,2-Dichloropropane	0.500 U	1.00	0.310	ug/L	1	06/21/22 22:08
2-Butanone (MEK)	5.00 U	10.0	3.10	ug/L	1	06/21/22 22:08
2-Chlorotoluene	0.500 U	1.00	0.310	ug/L	1	06/21/22 22:08
2-Hexanone	5.00 U	10.0	3.10	ug/L	1	06/21/22 22:08
4-Chlorotoluene	0.500 U	1.00	0.310	ug/L	1	06/21/22 22:08
4-Isopropyltoluene	0.500 U	1.00	0.310	ug/L	1	06/21/22 22:08
4-Methyl-2-pentanone (MIBK)	5.00 U	10.0	3.10	ug/L	1	06/21/22 22:08
Benzene	0.200 U	0.400	0.120	ug/L	1	06/21/22 22:08
Bromobenzene	0.500 U	1.00	0.310	ug/L	1	06/21/22 22:08
Bromochloromethane	0.500 U	1.00	0.310	ug/L	1	06/21/22 22:08
Bromodichloromethane	0.250 U	0.500	0.150	ug/L	1	06/21/22 22:08
Bromoform	0.500 U	1.00	0.310	ug/L	1	06/21/22 22:08
Bromomethane	3.00 U	6.00	3.00	ug/L	1	06/21/22 22:08
Carbon disulfide	5.00 U	10.0	3.10	ug/L	1	06/21/22 22:08
Carbon tetrachloride	0.500 U	1.00	0.310	ug/L	1	06/21/22 22:08
Chlorobenzene	0.250 U	0.500	0.150	ug/L	1	06/21/22 22:08
Chloroethane	0.500 U	1.00	0.310	ug/L	1	06/21/22 22:08

Print Date: 06/27/2022 4:44:51PM



Client Sample ID: 107454-MW-106 Client Project ID: 107454 250 Post Road

Lab Sample ID: 1223164003 Lab Project ID: 1223164 Collection Date: 06/16/22 12:15 Received Date: 06/16/22 13:35 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Volatile GC/MS

Parameter	Result Qual	LOQ/CL	DL	Units	<u>DF</u>	<u>Allowable</u> Limits	Date Analyze
<u>-arameter</u> Chloroform	0.500 U	1.00	<u>DL</u> 0.310	ug/L	1	LIMILS	06/21/22 22:0
Chloromethane	0.500 U	1.00	0.310	ug/L ug/L	1		06/21/22 22:0
cis-1,2-Dichloroethene	0.889 J	1.00	0.310	ŭ	1		06/21/22 22:0
•	0.250 U	0.500	0.310	ug/L	1		06/21/22 22:0
cis-1,3-Dichloropropene				ug/L			
Dibromochloromethane	0.250 U	0.500	0.150	ug/L	1		06/21/22 22:0
Dibromomethane	0.500 U	1.00	0.310	ug/L	1		06/21/22 22:0
Dichlorodifluoromethane	0.500 U	1.00	0.310	ug/L	1		06/21/22 22:0
Ethylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 22:
Freon-113	5.00 U	10.0	3.10	ug/L	1		06/21/22 22:
lexachlorobutadiene	0.500 U	1.00	0.310	ug/L	1		06/21/22 22:
sopropylbenzene (Cumene)	0.500 U	1.00	0.310	ug/L	1		06/21/22 22:
Methylene chloride	5.00 U	10.0	3.10	ug/L	1		06/21/22 22:
Methyl-t-butyl ether	5.00 U	10.0	3.10	ug/L	1		06/21/22 22:
Naphthalene	0.500 U	1.00	0.310	ug/L	1		06/21/22 22:
n-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 22:
n-Propylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 22:
o-Xylene	0.500 U	1.00	0.310	ug/L	1		06/21/22 22:
P & M -Xylene	1.00 U	2.00	0.620	ug/L	1		06/21/22 22:
sec-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 22:
Styrene	0.500 U	1.00	0.310	ug/L	1		06/21/22 22:
ert-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 22:
Tetrachloroethene	0.500 U	1.00	0.310	ug/L	1		06/21/22 22:
Toluene	0.500 U	1.00	0.310	ug/L	1		06/21/22 22:
rans-1,2-Dichloroethene	0.500 U	1.00	0.310	ug/L	1		06/21/22 22:
rans-1,3-Dichloropropene	0.500 U	1.00	0.310	ug/L	1		06/21/22 22:
Frichloroethene	10.0	1.00	0.310	ug/L	1		06/21/22 22:
Trichlorofluoromethane	0.500 U	1.00	0.310	ug/L	1		06/21/22 22:
Vinyl acetate	5.00 U	10.0	3.10	ug/L	1		06/21/22 22:
Vinyl chloride	0.0750 U	0.150	0.0500	ug/L	1		06/21/22 22:
Xylenes (total)	1.50 U	3.00	1.00	ug/L	1		06/21/22 22:
urrogates							
1,2-Dichloroethane-D4 (surr)	101	81-118		%	1		06/21/22 22:
4-Bromofluorobenzene (surr)	102	85-114		%	1		06/21/22 22:
Toluene-d8 (surr)	99.1	89-112		%	1		06/21/22 22:

Print Date: 06/27/2022 4:44:51PM



Client Sample ID: 107454-MW-106 Client Project ID: 107454 250 Post Road

Lab Sample ID: 1223164003 Lab Project ID: 1223164 Collection Date: 06/16/22 12:15 Received Date: 06/16/22 13:35 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS21716 Analytical Method: SW8260D

Analyst: JMG

Analytical Date/Time: 06/21/22 22:08 Container ID: 1223164003-A Prep Batch: VXX38730
Prep Method: SW5030B
Prep Date/Time: 06/21/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 06/27/2022 4:44:51PM J flagging is activated



Client Sample ID: 107454-WTB

Client Project ID: 107454 250 Post Road

Lab Sample ID: 1223164004 Lab Project ID: 1223164 Collection Date: 06/16/22 09:00 Received Date: 06/16/22 13:35 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Volatile GC/MS

<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	Allowable <u>Limits</u>	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250 U	0.500	0.150	ug/L	1		06/21/22 19:11
1,1,1-Trichloroethane	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
1,1,2,2-Tetrachloroethane	0.250 U	0.500	0.150	ug/L	1		06/21/22 19:11
1,1,2-Trichloroethane	0.200 U	0.400	0.120	ug/L	1		06/21/22 19:11
1,1-Dichloroethane	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
1,1-Dichloroethene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
1,1-Dichloropropene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
1,2,3-Trichlorobenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
1,2,3-Trichloropropane	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
1,2,4-Trichlorobenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
1,2,4-Trimethylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
1,2-Dibromo-3-chloropropane	5.00 U	10.0	3.10	ug/L	1		06/21/22 19:11
1,2-Dibromoethane	0.0375 U	0.0750	0.0180	ug/L	1		06/21/22 19:11
1,2-Dichlorobenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
1,2-Dichloroethane	0.250 U	0.500	0.200	ug/L	1		06/21/22 19:11
1,2-Dichloropropane	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
1,3,5-Trimethylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
1,3-Dichlorobenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
1,3-Dichloropropane	0.250 U	0.500	0.150	ug/L	1		06/21/22 19:11
1,4-Dichlorobenzene	0.250 U	0.500	0.150	ug/L	1		06/21/22 19:11
2,2-Dichloropropane	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
2-Butanone (MEK)	5.00 U	10.0	3.10	ug/L	1		06/21/22 19:11
2-Chlorotoluene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
2-Hexanone	5.00 U	10.0	3.10	ug/L	1		06/21/22 19:11
4-Chlorotoluene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
4-Isopropyltoluene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
4-Methyl-2-pentanone (MIBK)	5.00 U	10.0	3.10	ug/L	1		06/21/22 19:11
Benzene	0.200 U	0.400	0.120	ug/L	1		06/21/22 19:11
Bromobenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
Bromochloromethane	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
Bromodichloromethane	0.250 U	0.500	0.150	ug/L	1		06/21/22 19:11
Bromoform	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
Bromomethane	3.00 U	6.00	3.00	ug/L	1		06/21/22 19:11
Carbon disulfide	5.00 U	10.0	3.10	ug/L	1		06/21/22 19:11
Carbon tetrachloride	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
Chlorobenzene	0.250 U	0.500	0.150	ug/L	1		06/21/22 19:11
Chloroethane	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11

Print Date: 06/27/2022 4:44:51PM



Client Sample ID: 107454-WTB

Client Project ID: 107454 250 Post Road

Lab Sample ID: 1223164004 Lab Project ID: 1223164 Collection Date: 06/16/22 09:00 Received Date: 06/16/22 13:35 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Volatile GC/MS

D	De cult Ouel	1.00/01	DI	1.1	DE	<u>Allowable</u>	Data Amakana d
Parameter Chlamafarra	Result Qual 0.500 U	LOQ/CL	<u>DL</u> 0.310	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Chloroform		1.00		ug/L	1		06/21/22 19:11
Chloromethane	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
cis-1,2-Dichloroethene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
cis-1,3-Dichloropropene	0.250 U	0.500	0.150	ug/L	1		06/21/22 19:11
Dibromochloromethane	0.250 U	0.500	0.150	ug/L	1		06/21/22 19:11
Dibromomethane	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
Dichlorodifluoromethane	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
Ethylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
Freon-113	5.00 U	10.0	3.10	ug/L	1		06/21/22 19:11
Hexachlorobutadiene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
Isopropylbenzene (Cumene)	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
Methylene chloride	5.00 U	10.0	3.10	ug/L	1		06/21/22 19:11
Methyl-t-butyl ether	5.00 U	10.0	3.10	ug/L	1		06/21/22 19:11
Naphthalene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
n-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
n-Propylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
o-Xylene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
P & M -Xylene	1.00 U	2.00	0.620	ug/L	1		06/21/22 19:11
sec-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
Styrene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
tert-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
Tetrachloroethene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
Toluene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
trans-1,2-Dichloroethene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
trans-1,3-Dichloropropene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
Trichloroethene	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
Trichlorofluoromethane	0.500 U	1.00	0.310	ug/L	1		06/21/22 19:11
Vinyl acetate	5.00 U	10.0	3.10	ug/L	1		06/21/22 19:11
Vinyl chloride	0.0750 U	0.150	0.0500	ug/L	1		06/21/22 19:11
Xylenes (total)	1.50 U	3.00	1.00	ug/L	1		06/21/22 19:11
urrogates							
1,2-Dichloroethane-D4 (surr)	108	81-118		%	1		06/21/22 19:11
4-Bromofluorobenzene (surr)	101	85-114		%	1		06/21/22 19:11

Print Date: 06/27/2022 4:44:51PM



Client Sample ID: 107454-WTB

Client Project ID: 107454 250 Post Road

Lab Sample ID: 1223164004 Lab Project ID: 1223164 Collection Date: 06/16/22 09:00 Received Date: 06/16/22 13:35 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS21716 Analytical Method: SW8260D

Analyst: JMG

Analytical Date/Time: 06/21/22 19:11 Container ID: 1223164004-A Prep Batch: VXX38730 Prep Method: SW5030B Prep Date/Time: 06/21/22 06:00 Prep Initial Wt./Vol.: 5 mL Prep Extract Vol: 5 mL

Print Date: 06/27/2022 4:44:51PM J flagging is activated



Method Blank

Blank ID: MB for HBN 1838344 [VXX/38730]

Blank Lab ID: 1669212

QC for Samples:

1223164001, 1223164002, 1223164003, 1223164004

Matrix: Water (Surface, Eff., Ground)

Results by SW8260D

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

Print Date: 06/27/2022 4:44:54PM



Method Blank

Blank ID: MB for HBN 1838344 [VXX/38730]

Blank Lab ID: 1669212

QC for Samples:

1223164001, 1223164002, 1223164003, 1223164004

Matrix: Water (Surface, Eff., Ground)

Results by SW8260D

_				
<u>Parameter</u>	Results	LOQ/CL	<u>DL</u>	<u>Units</u>
Chloromethane	0.500U	1.00	0.310	ug/L
cis-1,2-Dichloroethene	0.500U	1.00	0.310	ug/L
cis-1,3-Dichloropropene	0.250U	0.500	0.150	ug/L
Dibromochloromethane	0.250U	0.500	0.150	ug/L
Dibromomethane	0.500U	1.00	0.310	ug/L
Dichlorodifluoromethane	0.500U	1.00	0.310	ug/L
Ethylbenzene	0.500U	1.00	0.310	ug/L
Freon-113	5.00U	10.0	3.10	ug/L
Hexachlorobutadiene	0.500U	1.00	0.310	ug/L
Isopropylbenzene (Cumene)	0.500U	1.00	0.310	ug/L
Methylene chloride	5.00U	10.0	3.10	ug/L
Methyl-t-butyl ether	5.00U	10.0	3.10	ug/L
Naphthalene	0.500U	1.00	0.310	ug/L
n-Butylbenzene	0.500U	1.00	0.310	ug/L
n-Propylbenzene	0.500U	1.00	0.310	ug/L
o-Xylene	0.500U	1.00	0.310	ug/L
P & M -Xylene	1.00U	2.00	0.620	ug/L
sec-Butylbenzene	0.500U	1.00	0.310	ug/L
Styrene	0.500U	1.00	0.310	ug/L
tert-Butylbenzene	0.500U	1.00	0.310	ug/L
Tetrachloroethene	0.500U	1.00	0.310	ug/L
Toluene	0.500U	1.00	0.310	ug/L
trans-1,2-Dichloroethene	0.500U	1.00	0.310	ug/L
trans-1,3-Dichloropropene	0.500U	1.00	0.310	ug/L
Trichloroethene	0.500U	1.00	0.310	ug/L
Trichlorofluoromethane	0.500U	1.00	0.310	ug/L
Vinyl acetate	5.00U	10.0	3.10	ug/L
Vinyl chloride	0.0750U	0.150	0.0500	ug/L
Xylenes (total)	1.50U	3.00	1.00	ug/L
Surrogates				
1,2-Dichloroethane-D4 (surr)	103	81-118		%
4-Bromofluorobenzene (surr)	102	85-114		%
Toluene-d8 (surr)	98.8	89-112		%

Print Date: 06/27/2022 4:44:54PM



Method Blank

Blank ID: MB for HBN 1838344 [VXX/38730]

Blank Lab ID: 1669212

QC for Samples:

1223164001, 1223164002, 1223164003, 1223164004

Matrix: Water (Surface, Eff., Ground)

Results by SW8260D

<u>Parameter</u> <u>Results</u> <u>LOQ/CL</u> <u>DL</u> <u>Units</u>

Batch Information

Analytical Batch: VMS21716 Analytical Method: SW8260D Instrument: VPA 780/5975 GC/MS

Analyst: JMG

Analytical Date/Time: 6/21/2022 3:07:00PM

Prep Batch: VXX38730 Prep Method: SW5030B

Prep Date/Time: 6/21/2022 6:00:00AM

Prep Initial Wt./Vol.: 5 mL Prep Extract Vol: 5 mL

Print Date: 06/27/2022 4:44:54PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1223164 [VXX38730]

Blank Spike Lab ID: 1669213 Date Analyzed: 06/21/2022 15:21 Spike Duplicate ID: LCSD for HBN 1223164

[VXX38730]

Spike Duplicate Lab ID: 1669214 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1223164001, 1223164002, 1223164003, 1223164004

Results by SW8260D

		Blank Spike	e (ug/L)	ıg/L) Spike Duplicate (ug/L)					
<u>Parameter</u>	<u>Spike</u>	Result	Rec (%)	<u>Spike</u>	Result	Rec (%)	<u>CL</u>	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	30	29.0	97	30	28.2	94	(78-124)	2.90	(< 20)
1,1,1-Trichloroethane	30	28.9	96	30	27.8	93	(74-131)	4.00	(< 20)
1,1,2,2-Tetrachloroethane	30	29.3	98	30	28.2	94	(71-121)	4.10	(< 20)
1,1,2-Trichloroethane	30	29.5	98	30	28.5	95	(80-119)	3.40	(< 20)
1,1-Dichloroethane	30	30.4	101	30	28.8	96	(77-125)	5.20	(< 20)
1,1-Dichloroethene	30	29.2	98	30	27.9	93	(71-131)	4.60	(< 20)
1,1-Dichloropropene	30	28.0	93	30	27.0	90	(79-125)	3.60	(< 20)
1,2,3-Trichlorobenzene	30	28.3	94	30	27.2	91	(69-129)	4.00	(< 20)
1,2,3-Trichloropropane	30	30.2	101	30	28.7	96	(73-122)	4.90	(< 20)
1,2,4-Trichlorobenzene	30	27.9	93	30	26.9	90	(69-130)	3.90	(< 20)
1,2,4-Trimethylbenzene	30	28.4	95	30	27.3	91	(79-124)	4.00	(< 20)
1,2-Dibromo-3-chloropropane	30	28.9	97	30	27.5	92	(62-128)	5.00	(< 20)
1,2-Dibromoethane	30	29.1	97	30	28.5	95	(77-121)	1.90	(< 20)
1,2-Dichlorobenzene	30	30.7	102	30	29.7	99	(80-119)	3.40	(< 20)
1,2-Dichloroethane	30	32.0	107	30	30.7	102	(73-128)	4.10	(< 20)
1,2-Dichloropropane	30	30.5	102	30	28.6	95	(78-122)	6.60	(< 20)
1,3,5-Trimethylbenzene	30	29.7	99	30	28.6	95	(75-124)	3.90	(< 20)
1,3-Dichlorobenzene	30	31.2	104	30	29.7	99	(80-119)	5.00	(< 20)
1,3-Dichloropropane	30	29.2	97	30	28.2	94	(80-119)	3.50	(< 20)
1,4-Dichlorobenzene	30	30.9	103	30	29.5	99	(79-118)	4.40	(< 20)
2,2-Dichloropropane	30	28.4	95	30	27.4	91	(60-139)	3.50	(< 20)
2-Butanone (MEK)	90	100	111	90	95.8	106	(56-143)	4.60	(< 20)
2-Chlorotoluene	30	30.2	101	30	28.7	96	(79-122)	5.30	(< 20)
2-Hexanone	90	105	117	90	101	112	(57-139)	4.20	(< 20)
4-Chlorotoluene	30	29.9	100	30	28.7	96	(78-122)	4.40	(< 20)
4-Isopropyltoluene	30	28.0	93	30	26.7	89	(77-127)	4.70	(< 20)
4-Methyl-2-pentanone (MIBK)	90	105	117	90	99.7	111	(67-130)	5.60	(< 20)
Benzene	30	31.0	103	30	29.7	99	(79-120)	4.50	(< 20)
Bromobenzene	30	28.3	94	30	27.2	91	(80-120)	3.90	(< 20)
Bromochloromethane	30	29.9	100	30	28.6	95	(78-123)	4.40	(< 20)
Bromodichloromethane	30	32.0	107	30	30.7	102	(79-125)	4.10	(< 20)
Bromoform	30	28.4	95	30	27.6	92	(66-130)	3.00	(< 20)
Bromomethane	30	28.0	93	30	26.2	87	(53-141)	6.70	(< 20)
Carbon disulfide	45	44.9	100	45	42.6	95	(64-133)	5.20	(< 20)

Print Date: 06/27/2022 4:44:56PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1223164 [VXX38730]

Blank Spike Lab ID: 1669213 Date Analyzed: 06/21/2022 15:21 Spike Duplicate ID: LCSD for HBN 1223164

[VXX38730]

Spike Duplicate Lab ID: 1669214 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1223164001, 1223164002, 1223164003, 1223164004

Results by SW8260D

Patameter Spike Result Spike Result Rec (%) CL RPD (%) CH (%) RPD (%) RPD (%) A A A Chiora A, San (A) A		Blank Spike (ug/L)				Spike Duplicate (ug/L)				
Chlorobenzene 30 30.9 103 30 30.0 100 (82-118) 3.00 (~20) Chloroethane 30 30.2 101 30 28.1 94 (60-138) 7.10 (~20) Chloroform 30 30.9 103 30 28.6 99 (79-124) 4.40 (~20) Chloromethane 30 28.3 94 30 28.8 89 (50-139) 6.20 (~20) cis-1,2-Dichloroethene 30 29.2 97 30 28.0 93 (75-124) 4.10 (~20) Dibromoethloromethane 30 29.2 97 30 28.0 93 (75-124) 4.10 (~20) Dibromoethloromethane 30 31.8 106 30 30.2 101 (79-123) 5.30 (~20) Ethylbenzene 30 31.8 106 30 30.2 101 (79-121) 3.10 (~20) Ethylbenzene 30 <th><u>Parameter</u></th> <th><u>Spike</u></th> <th>Result</th> <th>Rec (%)</th> <th>Spike</th> <th>Result</th> <th>Rec (%)</th> <th>CL</th> <th>RPD (%)</th> <th>RPD CL</th>	<u>Parameter</u>	<u>Spike</u>	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Chloroethane 30 30.2 101 30 28.1 94 (60-138) 7.10 (< 20) Chloroform 30 30.9 103 30 29.6 99 (79-124) 4.40 (< 20) Chloromethane 30 28.3 94 30 26.6 89 (50-139) 6.20 (< 20) cis-1,2-Dichloroethene 30 29.8 99 30 28.0 96 (78-123) 3.30 (< 20) Dibromochloromethane 30 29.2 97 30 28.0 93 (75-124) 4.10 (< 20) Dibromochloromethane 30 28.3 95 30 27.5 92 (74-126) 3.00 (< 20) Dichlorodifluoromethane 30 25.5 85 30 24.4 81 (32-121) 3.10 (< 20) Ethylbenzene 30 30.0 100 30 29.1 97 79-121 3.10 (< 20) Hexachlorobutadiene	Carbon tetrachloride	30	28.2	94	30	27.0	90	(72-136)	4.10	(< 20)
Chloroform 30 30.9 103 30 29.6 99 (79-124) 4.40 (< 20) Chloromethane 30 28.3 94 30 26.6 89 (50-139) 6.20 (< 20) cis-1,2-Dichloroptenen 30 29.8 99 30 28.8 96 (78-123) 3.00 (< 20) Dibromochloromethane 30 29.2 97 30 28.0 93 (75-124) 4.10 (< 20) Dibromochloromethane 30 29.3 95 30 27.5 92 (74-126) 3.00 (< 20) Dibromochlaromethane 30 31.8 106 30 30.2 101 (79-123) 5.30 (< 20) Ethylbenzene 30 30.0 100 30 29.1 97 (79-121) 3.10 (< 20) Ethylbenzene 30 30.2 103 30 29.1 87 (66-134) 5.20 (< 20) Hexachlorobutadiene	Chlorobenzene	30	30.9	103	30	30.0	100	(82-118)	3.00	(< 20)
Chloromethane 30 28.3 94 30 26.6 89 (50-139) 6.20 (< 20) cis-1,2-Dichloroethene 30 29.8 99 30 28.8 96 (78-123) 3.30 (< 20)	Chloroethane	30	30.2	101	30	28.1	94	(60-138)	7.10	(< 20)
cis-1,2-Dichloroethene 30 29.8 99 30 28.8 96 (78-123) 3.30 (<20) cis-1,3-Dichloropropene 30 29.2 97 30 28.0 93 (75-124) 4.10 (<20) Dibromochloromethane 30 28.3 95 30 27.5 92 (74-126) 3.00 (<20) Dibromomethane 30 31.8 106 30 30.2 101 (79-123) 5.30 (<20) Ethylbenzene 30 30.0 100 30 29.1 97 (79-121) 3.10 (<20) Freon-113 45 43.7 97 45 41.8 93 (70-136) 4.30 (<20) Hexachlorobutadiene 30 27.6 92 30 26.1 87 (66-134) 5.20 (<20) Hexachlorobutadiene 30 30.0 100 30 28.8 96 (72-131) 4.40 (<20) Hexachlorobutadiene	Chloroform	30	30.9	103	30	29.6	99	(79-124)	4.40	(< 20)
cis-1,3-Dichloropropene 30 29.2 97 30 28.0 93 (75-124) 4.10 (<20) Dibromochloromethane 30 28.3 95 30 27.5 92 (74-126) 3.00 (<20)	Chloromethane	30	28.3	94	30	26.6	89	(50-139)	6.20	(< 20)
Dibromochloromethane 30 28.3 95 30 27.5 92 (74-126) 3.00 (<20)	cis-1,2-Dichloroethene	30	29.8	99	30	28.8	96	(78-123)	3.30	(< 20)
Dibromomethane 30 31.8 106 30 30.2 101 (79-123 5.30 (<20)	cis-1,3-Dichloropropene	30	29.2	97	30	28.0	93	(75-124)	4.10	(< 20)
Dichlorodiffluoromethane 30 25.5 85 30 24.4 81 (32-152) 4.80 (<20)	Dibromochloromethane	30	28.3	95	30	27.5	92	(74-126)	3.00	(< 20)
Ethylbenzene	Dibromomethane	30	31.8	106	30	30.2	101	(79-123)	5.30	(< 20)
Freon-113	Dichlorodifluoromethane	30	25.5	85	30	24.4	81	(32-152)	4.80	(< 20)
Hexachlorobutadiene 30 27.6 92 30 26.1 87 (66-134) 5.20 (<20)	Ethylbenzene	30	30.0	100	30	29.1	97	(79-121)	3.10	(< 20)
Sopropylbenzene (Cumene) 30 30.0 100 30 28.8 96 (72-131) 4.40 (<20)	Freon-113	45	43.7	97	45	41.8	93	(70-136)	4.30	(< 20)
Methylene chloride 30 30.9 103 30 29.5 98 (74-124) 4.80 (<20)	Hexachlorobutadiene	30	27.6	92	30	26.1	87	(66-134)	5.20	(< 20)
Methyl-t-butyl ether 45 47.0 105 45 45.0 100 (71-124) 4.40 (< 20) Naphthalene 30 28.9 96 30 27.7 92 (61-128) 4.30 (< 20)	Isopropylbenzene (Cumene)	30	30.0	100	30	28.8	96	(72-131)	4.40	(< 20)
Naphthalene 30 28.9 96 30 27.7 92 (61-128) 4.30 (< 20) n-Butylbenzene 30 27.8 93 30 26.7 89 (75-128) 4.10 (< 20)	Methylene chloride	30	30.9	103	30	29.5	98	(74-124)	4.80	(< 20)
n-Butylbenzene 30 27.8 93 30 26.7 89 (75-128) 4.10 (< 20) n-Propylbenzene 30 30.0 100 30 28.4 95 (76-126) 5.70 (< 20)	Methyl-t-butyl ether	45	47.0	105	45	45.0	100	(71-124)	4.40	(< 20)
n-Propylbenzene 30 30.0 100 30 28.4 95 (76-126) 5.70 (< 20) o-Xylene 30 30.8 103 30 29.7 99 (78-122) 3.80 (< 20)	Naphthalene	30	28.9	96	30	27.7	92	(61-128)	4.30	(< 20)
o-Xylene 30 30.8 103 30 29.7 99 (78-122) 3.80 (< 20) P & M -Xylene 60 62.2 104 60 60.2 100 (80-121) 3.30 (< 20)	n-Butylbenzene	30	27.8	93	30	26.7	89	(75-128)	4.10	(< 20)
P & M -Xylene 60 62.2 104 60 60.2 100 (80-121) 3.30 (< 20) sec-Butylbenzene 30 28.3 94 30 26.9 90 (77-126) 5.10 (< 20)	n-Propylbenzene	30	30.0	100	30	28.4	95	(76-126)	5.70	(< 20)
sec-Butylbenzene 30 28.3 94 30 26.9 90 (77-126) 5.10 (< 20) Styrene 30 30.2 101 30 28.9 96 (78-123) 4.40 (< 20)	o-Xylene	30	30.8	103	30	29.7	99	(78-122)	3.80	(< 20)
Styrene 30 30.2 101 30 28.9 96 (78-123) 4.40 (< 20) tert-Butylbenzene 30 29.1 97 30 27.8 93 (78-124) 4.80 (< 20)	P & M -Xylene	60	62.2	104	60	60.2	100	(80-121)	3.30	(< 20)
tert-Butylbenzene 30 29.1 97 30 27.8 93 (78-124) 4.80 (< 20) Tetrachloroethene 30 27.5 92 30 26.8 90 (74-129) 2.50 (< 20)	sec-Butylbenzene	30	28.3	94	30	26.9	90	(77-126)	5.10	(< 20)
Tetrachloroethene 30 27.5 92 30 26.8 90 (74-129) 2.50 (< 20) Toluene 30 31.0 103 30 30.0 100 (80-121) 3.40 (< 20)	Styrene	30	30.2	101	30	28.9	96	(78-123)	4.40	(< 20)
Toluene 30 31.0 103 30 30.0 100 (80-121) 3.40 (< 20) trans-1,2-Dichloroethene 30 31.0 103 30 29.6 99 (75-124) 4.40 (< 20)	tert-Butylbenzene	30	29.1	97	30	27.8	93	(78-124)	4.80	(< 20)
trans-1,2-Dichloroethene 30 31.0 103 30 29.6 99 (75-124) 4.40 (< 20)	Tetrachloroethene	30	27.5	92	30	26.8	90	(74-129)	2.50	(< 20)
trans-1,3-Dichloropropene 30 28.1 94 30 27.5 92 (73-127) 2.40 (< 20)	Toluene	30	31.0	103	30	30.0	100	(80-121)	3.40	(< 20)
Trichloroethene 30 28.5 95 30 27.1 90 (79-123) 4.80 (< 20)	trans-1,2-Dichloroethene	30	31.0	103	30	29.6	99	(75-124)	4.40	(< 20)
Trichlorofluoromethane 30 29.1 97 30 26.0 87 (65-141) 11.10 (< 20)	trans-1,3-Dichloropropene	30	28.1	94	30	27.5	92	(73-127)	2.40	(< 20)
Vinyl acetate 30 30.1 100 30 29.1 97 (54-146) 3.50 (< 20)	Trichloroethene	30	28.5	95	30	27.1	90	(79-123)	4.80	(< 20)
Vinyl chloride 30 28.0 93 30 26.3 88 (58-137) 6.40 (< 20)	Trichlorofluoromethane	30	29.1	97	30	26.0	87	(65-141)	11.10	(< 20)
•	Vinyl acetate	30	30.1	100	30	29.1	97	(54-146)	3.50	(< 20)
Xylenes (total) 90 93.1 103 90 89.9 100 (79-121) 3.50 (< 20)	Vinyl chloride	30	28.0	93	30	26.3	88	(58-137)	6.40	(< 20)
	Xylenes (total)	90	93.1	103	90	89.9	100	(79-121)	3.50	(< 20)

Print Date: 06/27/2022 4:44:56PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1223164 [VXX38730]

Blank Spike Lab ID: 1669213 Date Analyzed: 06/21/2022 15:21 Spike Duplicate ID: LCSD for HBN 1223164

[VXX38730]

Spike Duplicate Lab ID: 1669214 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1223164001, 1223164002, 1223164003, 1223164004

Results by SW8260D

		Blank Spik	ke (%)	Spike Duplicate (%)					
<u>Parameter</u>	<u>Spike</u>	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Surrogates									
1,2-Dichloroethane-D4 (surr)	30		104	30		103	(81-118)	1.00	
4-Bromofluorobenzene (surr)	30		100	30		99	(85-114)	1.70	
Toluene-d8 (surr)	30		101	30		101	(89-112)	0.46	

Batch Information

Analytical Batch: VMS21716 Analytical Method: SW8260D Instrument: VPA 780/5975 GC/MS

Analyst: JMG

Prep Batch: VXX38730
Prep Method: SW5030B

Prep Date/Time: 06/21/2022 06:00

Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL

Print Date: 06/27/2022 4:44:56PM



Profile #365427 CM.

							1101					
		1.7					SGS No	orth Am	erica In	c.		
Shannon & Wilson, Inc. 5430 Fairbanks Street, Suite 3 Anchorage, Alaska 99518 (907) 561-2120 Fax (206) 695-6777												
Date	Time		Sample ID									
6/14/22	1055	107454		3	×							DAG
6/16/22	1145	107454-		3	Х.							ÐÆ
6/16/22	1215	107454	- MW - 106	3	×							(3)AC
6/16/22	900	107454-		1 set	X							(P)PC
									m > 105550			
Relinquished	By:	There's Allegan	Relinquished By:			Project Info	rmation	1.4.4				
Signature:	dup	-	Signature:			Project Num		<u> 7456</u>				
Print Name:			Print Name:	>	· · · · · · · · · · · · · · · · · · ·	Project Nam		Post	r Koa	<u>.从</u>		
	annon & Wilson	ı, Inc.	Company:	<u>·</u>		Contact:		AIR				
Date: O/W 22 Date:						Special Instructions:						
Time: 1300 Time: Received By: Received By:						Sample Re				The Thin		t Was
Received By: Signature: Signature						Shipped V		Hand De	livered	- 		
Print Name: Print Name: Print Name:												
Company: Company: SGC						Cooler Temperature Upon Arrival: 4.7 D59						
Date:			Sample Matrix: Groundwater									
Time:			Time: 13:35	,		10 Working	DAY TAT					

ilatact-1F HC



Page 25 of 26

COC	e-Sam <u>p</u>	-Sample Receipt Form					
<u> 202</u>	SGS Workorder #:	1223164		1223164			
Re	eview Criteria	Condition (Yes, No, N	N/A Ex	cceptions Noted below			
	dy / Temperature Requirements		e: Temperature and COC se	eal information is found on the chain of custody form			
DOD only: Did all sa	ample coolers have a corresponding						
	If <0°C, were sample containers ice						
	Note containers receive	ed with ice:					
	ntainers received at non-compliant ter	is needed)					
			e: Refer to form F-083 "Sample	e Guide" for specific holding times and sample containers.			
•	les received within analytical holding						
Do sample	labels match COC? Record discrepa	ncies. Yes					
	containers differs from COC, default nes differ <1hr, record details & login						
	Were analytical requests	clear? Yes	-				
•	or analyses with multiple option for me vs 8260, Metals 6020 vs 200.8)	ethod					
· ·	ers (type/mass/volume/preservative)ur metals analysis by 200.8/6020 in wa						
Volatile Analysis R	equirements (VOC, GRO, LL-Hg	, etc.)					
Vere all soil VOAs received	d with a corresponding % solids conta	ainer? N/A					
-	e.g., VOAs, LL-Hg) in cooler with sam						
	free of headspace (e.g., bubbles ≤ 6						
	VOAs field extracted with Methanol+		 				
Note to Client: An	y "No", answer above indicates non-o			ires and may impact data quality.			
	<u>Additional i</u>	notes (if app	<u>llicable):</u>				

F102b_SRFpm_20210526



Sample Containers and Preservatives

Container Id	<u>Preservative</u>	Container Condition	Container Id	<u>Preservative</u>	Container Condition
1223164001-A	HCL to pH < 2	ОК			
1223164001-B	HCL to pH < 2	ОК			
1223164001-C	HCL to pH < 2	ОК			
1223164002-A	HCL to pH < 2	ОК			
1223164002-B	HCL to pH < 2	ОК			
1223164002-C	HCL to pH < 2	ОК			
1223164003-A	HCL to pH < 2	ОК			
1223164003-B	HCL to pH < 2	ОК			
1223164003-C	HCL to pH < 2	ОК			
1223164004-A	HCL to pH < 2	ОК			
1223164004-B	HCL to pH < 2	ОК			
1223164004-C	HCL to pH < 2	OK			

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

- $\ensuremath{\mathsf{OK}}$ The container was received at an acceptable pH for the analysis requested.
- BU The container was received with headspace greater than 6mm.
- DM The container was received damaged.
- FR The container was received frozen and not usable for Bacteria or BOD analyses.
- IC The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.
- NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.
- PA The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
- PH The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added. QN Insufficient sample quantity provided.

LABORATORY DATA REVIEW CHECKLIST

Completed by: Judy Hepner

Title: June 2022 Groundwater Monitoring Event, 250 Post Road, Anchorage, Alaska

Date: August 2022

Consultant Firm: Shannon & Wilson, Inc.

Laboratory Name: SGS North America Inc. Laboratory Report Number: 1223164 Laboratory Report Date: June 27, 2022

Contaminated Site Name: Kelly-Moore Paint Store & Warehouse

ADEC File Number: 2100.38.036 **Hazard Identification Number:** 3168

(**NOTE**: *NA* = not applicable; Text in *italics* added by Shannon & Wilson, Inc.)

1. <u>Laboratory</u>

a. Did an ADEC CS approved laboratory receive and <u>perform</u> all of the submitted sample analyses? Yes/ No / NA
 Comments:

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved? **Yes / No (NA)**

Comments: The samples were not transferred to another "network" laboratory or subcontracted to an alternate laboratory.

2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?
 Yes/ No / NA
 Comments:

b. Correct analyses requested? Yes / No / NA Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)? Yes/No/NA

Comments: *The cooler temperature blank was 4.7° Celsius.*

b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, VOCs, etc.)? Yes/ No / NA Comments:

c. Sample condition documented - broken, leaking (MeOH), zero headspace (VOC vials)?
Yes/ No / NA

Comments:

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.? **Yes / No NA**

Comments: No discrepancies were noted.

e. Data quality or usability affected?

Comments: See above.

4. Case Narrative

a. Present and understandable? Yes/ No / NA Comments:

- **b.** Discrepancies, errors or QC failures noted by the lab? Yes / No / NA Comments: *No discrepancies, error, or QC failures were noted by the laboratory in the case narrative.*
- c. Were all corrective actions documented? Yes / No (NA) Comments:
- **d.** What is the effect on data quality/usability, according to the case narrative? Comments: *The case narrative does not discuss quality/usability*.

5. Sample Results

- a. Correct analyses performed/reported as requested on COC? Ves/No/NA Comments:
- **b.** All applicable holding times met? **Yes** / **No** / **NA** Comments:
- c. All soils reported on a dry weight basis? Yes / No (NA)
 Comments: Soil samples were not submitted as part of this work order.
- **d.** Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project? **Yes** (No) NA Comments: The LOQ for 1,2,3-trichloropropane is greater than its respective ADEC Table C cleanup level.

e. Data quality or usability affected?

Comments: The data cannot be used to determine whether or not a concentration of 1,2,3-trichloropropane is present at a concentration greater than its respective ADEC cleanup level, but less than the LOQ.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis, and 20 samples? Yes/ No / NA

Comments:

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

Yes No / NA

Comments:

- iii. If above LOQ or project specified objectives, what samples are affected? Comments: NA
- iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?Yes / No NAComments:
- **v.** Data quality or usability affected? Comments: *No, see above.*

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

- i. Organics One LCS/LCSD reported per matrix, analysis, and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846) Yes/ No / NA Comments:
- ii. Metals/Inorganics One LCS and one sample duplicate reported per matrix, analysis and 20 samples? Yes / No NA Comments: Only organic analyses were requested with this work order.
- iii. Accuracy All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable. (AK petroleum methods: AK 101 60%-120%, AK 102 75%-125%, AK 103 60%-120%; all other analyses see the laboratory QC pages) Yes/No/NA Comments:

- iv. Precision All relative percent differences (RPDs) reported and less than method or laboratory limits and project specified objectives, if applicable. RPD reported from LCS/LCSD, and/or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages) (ves) No / NA Comments:
- v. If %R or RPD is outside of acceptable limits, what samples are affected? Comments: *NA*
- vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?

 Yes / No (NA)

 Comments:
- **vii.** Data quality or usability affected? Comments: *No.*, *see above*.
- c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)
 Note: Leave blank if not required for project
 - i. Organics One MS/MSD reported per matrix, analysis, and 20 samples?Yes / No / NAComments:
 - ii. Metals/Inorganics One MS and one MSD reported per matrix, analysis and 20 samples? Yes / No / NA Comments:
 - iii. Accuracy All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable. Yes / No / NA Comments:
 - iv. Precision All relative percent differences (RPDs) reported and less than method or laboratory limits and project specified objectives, if applicable. RPD reported from MS/MSD, and/or sample/sample duplicate. Yes / No / NA Comments:
 - v. If %R or RPD is outside of acceptable limits, what samples are affected? Comments:
 - vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?Yes / No / NAComments:
 - vii. Data quality or usability affected? Comments:

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

- i. Are surrogate/IDA recoveries reported for organic analyses field, QC, and laboratory samples? Yes/No/NA
 Comments:
- ii. Accuracy All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages Yes / No / NA Comments:
- iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined? Yes / No NA Comments:
- **iv.** Data quality or usability affected? Comments: *See above*.
- e. Trip Blank Volatile analyses only (GRO, BTEX, VOCs, etc.)
 - i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.) Yes/ No / NA Comments:
 - ii. Is the cooler used to transport the trip blank and volatile samples clearly indicated on the COC? (If not, a comment explaining why must be entered below.) Yes (No) NA Comments: Only one cooler was used to transport the samples.
 - iii. All results less than LOQ and project specified objectives? Yes / No / NA Comments:
 - iv. If above LOQ or project specified DQOs, what samples are affected? Comments: NA
 - v. Data quality or usability affected? Comments: *See above*.

f. Field Duplicate

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

Yes/ No / NA

Comments: Sample 107454-MW-106 is a field duplicate of Sample 107454-MW-6.

ii. Were the field duplicates submitted blind to the lab? Yes No / NA

Comments:

- iii. Precision All relative percent differences (RPDs) less than specified project objectives? (Recommended: 30% for water, 50% for soil) Yes / No / NA Comments:
- **iv.** Data quality or usability affected? Comments: *See above*.
- **g. Decontamination or Equipment Blank** (If not applicable, a comment stating why must be entered below).

Yes /No NA

Comments: A decontamination or equipment blank was not included in our ADEC-approved work plan.

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

Yes / No (NA)

Comments:

- ii. If above LOQ or project specified objectives, what samples are affected? Comments: NA
- **iii.** Data quality or usability affected? Comments: *See above*.

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

a. Defined and appropriate? Yes / No / NA
Comments: A key is provided on Page 3 of the SGS Laboratory Report.

Appendix C

Investigation-Derived Waste Documentation



ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SPILL PREVENTION AND RESPONSE

Contaminated Sites and Prevention Preparedness and Response Programs

Contaminated Media Transport and Treatment or Disposal Approval Form

DEC HAZARD/SPILL ID #	NAME OF CON	AME OF CONTAMINATED SITE OR SPILL									
3168		Kelly-Moore Paint Store & Warehouse									
CONTAMINATED SITE OR S	CONTAMINATED SITE OR SPILL LOCATION – ADDRESS OR OTHER APPROPRIATE DESCRIPTION										
	250 Post Road; South of Railroad Tracks										
CURRENT PHYSICAL LOCATION OF MEDIA SOURCE OF THE CONTAMINATION (DAY TANK, WASH BAY, FIRE TRAINING PIT, LUST, ETC.)											
250 Post F	Road		Historical	Impacted Soil and Groundwater							
CONTAMINANTS OF CONC	ERN	ESTI	MATED VOLUME	DATE(S) GENERATED							
VOCs		~10 ga	llons in one 55-gal drum	6/16/2022							
POST TREATMENT ANALY	SIS REQUIRED (s	such as (GRO, DRO, RRO, VOCs,	metals, PFAS, and/or Chlorinated Solvents)							
			N/A								
COMMENTS OR OTHER IM	COMMENTS OR OTHER IMPORTANT INFORMATION										
Impacted purge and decontamination water generated from Wells MW4 and MW6 during the October 2020 groundwater sampling event.											

TREATMENT FACILITY, LANDFILL, AND/OR FINAL DESTINATION OF MEDIA	PHYSICAL ADDRESS/PHONE NUMBER					
US Ecology	2020 Viking Drive, Anchorage, Alaska 99501 (907) 258-1558					
RESPONSIBLE PARTY	ADDRESS/PHONE NUMBER					
Kelly-Moore Paint Co., Inc.	301 West Hurst Drive					
WASTE MANAGEMENT CO. / ORGANIZER	ADDRESS/PHONE NUMBER					
Mary Logue	817-799-3157					

^{*}Note, disposal of polluted soil in a landfill requires prior approval from the landfill operator and ADEC Solid Waste Program.

Alec Rizzo

Name of the Person Requesting Approval (printed)

Alec Rizzo

Signature

Signature

Digitally signed by Alec Rizzo Date: 2022.07.18 15:40:21 -08'00' Environmental Staff/ Shannon & Wilson, Inc.

Title/Association

7/18/2022

907-561-2120

Phone Number

DEC USE ONLY---

Based on the information provided, ADEC approves transport of the above mentioned material. The Responsible Party or their consultant must submit to the DEC Project Manager a copy of weight receipts of the loads transported and a post treatment analytical report, if disposed of at an approved treatment facility. The contaminated soil shall be transported as a covered load in compliance with 18 AAC 60.015.

Brandi Tolsma

DEC Project Manager Name (printed)

Brandi Tolsma Digitally signed by Brandi Tolsma Date: 2022.07.18 15:59:38 -08'00'

Environmental Program Specialist

Project Manager Title

07/18/2022

907-465-5378

Date Phone Number

Rev. 01/2020

NON-HAZARDOUS WASTE MANIFEST #181186-6-3408MA 6066

Pleas	se print or type	,	12 pitch) typewriter)	2 2				3			
		N-HAZARDOUS ASTE MANIFEST	1. Generator's US EPA I	D No. QG	,		Manifest Document No.	181186A	2. Page 1 of		
	250 F	or's Name and Mailing Address LY-MOORE PAINT STOR POST ROAD HORAGE, AK 99501	N C	KELLY-MOOR 250 POST ROANCHORAGE	AD	ORE 8		CASE OF EMER 20-899-4672	GENCY CALL		
4. Generator's Phone () 5. Transporter 1 Company Name 6. US EPA ID Number A. State Transporter's ID R. Transporter 1 Phone											
	USE	I Phone	0								
	7. Transpor	ter 2 Company Name	8	3. US EPA ID) Number		C. State Transp		9		
	WEA	ter 2 Company Name VER BROTHERS		AKD002	848372	8	D. Transporter	007 070 AS	26		
	9. Designat	ed Facility Name and Site Address	1	0. US EPA IC) Number		E. State Facility	's ID			
	GRA	ND VIEW, ID 83624		IDD0731	14654		F. Facility's Pho	ne (208) 834-227	5		
	processormon	DESCRIPTION				Cor	ntainers	13. Total	14. Unit		
	HM		2 4 1 A	1		No.	Туре	Total Quantity	Wt./Vol.		
	a.	Material Not Regulated	by DOT		8	1	DM	120	Р		
GEZER	b.										
A	C.						2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2		
OR	d.				e						
	G. Addition	al Descriptions for Materials Listed Abov	9				H. Handling Co	des for Wastes Listed Abo	ve		
	1) 521	42-0 IDW WATER (DM	55)				1.043636				
	pack of the	Handling Instructions and Additional Info	d, and are in prop	shipment are fully and a	r transportatio	on acc	ording to th		Date		
	Printed/Typ	ed Name		Signature	1 1-			and the same of th	onth Day Year		
Т	17 Transp	orter 1 Acknowledgement of Receipt of M	Materials						Date		
R	Printed/Typ		laterials	Signature	22	-	1	Mo	onth Day Year		
N	, ,	Brock Nelson	(US ECO)	1	1de	10	S. Eco)		7 25 22		
P	18. Transp	orter 2 Acknowledgement of Receipt of N	Materials /		9				Date		
TRANSPORTER	Printed/Typ	ed Name		Signature				Мо	onth Day Year		
FAC		ancy Indication Space				2					
L	20. Facility	Owner or Operator: Certification of receip	ot of the waste materials cov	vered by this manifest, e	xcept as noted in iten	n 19.		* * * * ₀	D.1		
T Y	Printed/Typ	ed Name		Signature	* a	8 18 7 7	× *		Date onth Day Year		

Important Information

About Your Geotechnical/Environmental Report

CONSULTING SERVICES ARE PERFORMED FOR SPECIFIC PURPOSES AND FOR SPECIFIC CLIENTS.

Consultants prepare reports to meet the specific needs of specific individuals. A report prepared for a civil engineer may not be adequate for a construction contractor or even another civil engineer. Unless indicated otherwise, your consultant prepared your report expressly for you and expressly for the purposes you indicated. No one other than you should apply this report for its intended purpose without first conferring with the consultant. No party should apply this report for any purpose other than that originally contemplated without first conferring with the consultant.

THE CONSULTANT'S REPORT IS BASED ON PROJECT-SPECIFIC FACTORS.

A geotechnical/environmental report is based on a subsurface exploration plan designed to consider a unique set of project-specific factors. Depending on the project, these may include the general nature of the structure and property involved; its size and configuration; its historical use and practice; the location of the structure on the site and its orientation; other improvements such as access roads, parking lots, and underground utilities; and the additional risk created by scope-of-service limitations imposed by the client. To help avoid costly problems, ask the consultant to evaluate how any factors that change subsequent to the date of the report may affect the recommendations. Unless your consultant indicates otherwise, your report should not be used (1) when the nature of the proposed project is changed (for example, if an office building will be erected instead of a parking garage, or if a refrigerated warehouse will be built instead of an unrefrigerated one, or chemicals are discovered on or near the site); (2) when the size, elevation, or configuration of the proposed project is altered; (3) when the location or orientation of the proposed project is modified; (4) when there is a change of ownership; or (5) for application to an adjacent site. Consultants cannot accept responsibility for problems that may occur if they are not consulted after factors that were considered in the development of the report have changed.

SUBSURFACE CONDITIONS CAN CHANGE.

Subsurface conditions may be affected as a result of natural processes or human activity. Because a geotechnical/environmental report is based on conditions that existed at the time of subsurface exploration, construction decisions should not be based on a report whose adequacy may have been affected by time. Ask the consultant to advise if additional tests are desirable before construction starts; for example, groundwater conditions commonly vary seasonally.

Construction operations at or adjacent to the site and natural events such as floods, earthquakes, or groundwater fluctuations may also affect subsurface conditions and, thus, the continuing adequacy of a geotechnical/environmental report. The consultant should be kept apprised of any such events and should be consulted to determine if additional tests are necessary.

MOST RECOMMENDATIONS ARE PROFESSIONAL JUDGMENTS.

Site exploration and testing identifies actual surface and subsurface conditions only at those points where samples are taken. The data were extrapolated by your consultant, who then applied judgment to render an opinion about overall subsurface conditions. The actual interface between materials may be far more gradual or abrupt than your report indicates. Actual conditions in areas not sampled may differ from those predicted in your report. While nothing can be done to prevent such situations, you and your consultant can work together to help reduce their impacts. Retaining

your consultant to observe subsurface construction operations can be particularly beneficial in this respect.

A REPORT'S CONCLUSIONS ARE PRELIMINARY.

The conclusions contained in your consultant's report are preliminary, because they must be based on the assumption that conditions revealed through selective exploratory sampling are indicative of actual conditions throughout a site. Actual subsurface conditions can be discerned only during earthwork; therefore, you should retain your consultant to observe actual conditions and to provide conclusions. Only the consultant who prepared the report is fully familiar with the background information needed to determine whether or not the report's recommendations based on those conclusions are valid and whether or not the contractor is abiding by applicable recommendations. The consultant who developed your report cannot assume responsibility or liability for the adequacy of the report's recommendations if another party is retained to observe construction.

THE CONSULTANT'S REPORT IS SUBJECT TO MISINTERPRETATION.

Costly problems can occur when other design professionals develop their plans based on misinterpretation of a geotechnical/environmental report. To help avoid these problems, the consultant should be retained to work with other project design professionals to explain relevant geotechnical, geological, hydrogeological, and environmental findings, and to review the adequacy of their plans and specifications relative to these issues.

BORING LOGS AND/OR MONITORING WELL DATA SHOULD NOT BE SEPARATED FROM THE REPORT.

Final boring logs developed by the consultant are based upon interpretation of field logs (assembled by site personnel), field test results, and laboratory and/or office evaluation of field samples and data. Only final boring logs and data are customarily included in geotechnical/environmental reports. These final logs should not, under any circumstances, be redrawn for inclusion in architectural or other design drawings, because drafters may commit errors or omissions in the transfer process.

To reduce the likelihood of boring log or monitoring well misinterpretation, contractors should be given ready access to the complete geotechnical engineering/environmental report prepared or authorized for their use. If access is provided only to the report prepared for you, you should advise contractors of the report's limitations, assuming that a contractor was not one of the specific persons for whom the report was prepared, and that developing construction cost estimates was not one of the specific purposes for which it was prepared. While a contractor may gain important knowledge from a report prepared for another party, the contractor should discuss the report with your consultant and perform the additional or alternative work believed necessary to obtain the data specifically appropriate for construction cost estimating purposes. Some clients hold the mistaken impression that simply disclaiming responsibility for the accuracy of subsurface information always insulates them from attendant liability. Providing the best available information to contractors helps prevent costly construction problems and the adversarial attitudes that aggravate them to a disproportionate scale.

READ RESPONSIBILITY CLAUSES CLOSELY.

Because geotechnical/environmental engineering is based extensively on judgment and opinion, it is far less exact than other design disciplines. This situation has resulted in wholly unwarranted claims

being lodged against consultants. To help prevent this problem, consultants have developed a number of clauses for use in their contracts, reports, and other documents. These responsibility clauses are not exculpatory clauses designed to transfer the consultant's liabilities to other parties; rather, they are definitive clauses that identify where the consultant's responsibilities begin and end. Their use helps all parties involved recognize their individual responsibilities and take appropriate action. Some of these definitive clauses are likely to appear in your report, and you are encouraged to read them closely. Your consultant will be pleased to give full and frank answers to your questions.

The preceding paragraphs are based on information provided by the ASFE/Association of Engineering Firms Practicing in the Geosciences, Silver Spring, Maryland