

AUTHORIZATION TO SUBMIT REPORT

Stantec has been authorized by the client, 7-Eleven (representative Paula Sime, PG, Manager – Environmental Services) to submit the enclosed report to the Alaska Department of Environmental Conservation. If you have any questions or need additional information concerning this groundwater monitoring report, please contact me at (907) 227-9883 or via email at bob.gilfilian@stantec.com.

Regards,

STANTEC CONSULTING SERVICES, INC.

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TABLE OF CONTENTS

ACR	ONY	MS AND ABBREVIATIONS	II
1.0	INTE	RODUCTION	1
2.0	FIEL	D ACTIVITIES	1
3.0	GRO	OUNDWATER MONITORING RESULTS	1
	3.1	GROUNDWATER ELEVATIONS	1
	3.2	FIELD PARAMETERS	3
	3.3	GROUNDWATER SAMPLE ANALYTICAL RESULTS	4
	3.4	QUALITY ASSURANCE (QA)/QUALITY CONTROL (QC) REVIEW	6
4.0	REM	IEDIATION SYSTEM	7
5.0	DISC	CUSSION OF FINDINGS	7
6.0	CON	ICLUSIONS AND RECOMMENDATIONS	7
7.0	LIM	ITATIONS	8
LIS	T OI	F TABLES	
Table	e 1	Groundwater Elevations	2
Table		Historical Groundwater Flow Direction and Gradient	
Table		Field Parameters	
Table		Groundwater Analytical Results for BTEX, GRO, and DRO	4
Table	e 4b	Groundwater Analytical Results for Napthalene, Trimethylbenzene (TMB), and Sodium	_
Table	e 4c	Groundwater Analytical Results for Drinking Water and Historical Wells	
Table		Laboratory Quality Control Objectives	
LIS	T OI	F FIGURES	
D:	1	I and in an A.V. distante Man	
Figur Figur		Location and Vicinity Map Site Plan with Groundwater Analytical Results	
Figu		Groundwater Elevation and Contours	

APPENDICES

Appendix A Site Background

Appendix B Field Methods and Procedures Appendix C Field Measurements and Notes

Appendix D Tables of Historical Monitoring Data

Appendix E PACE Laboratory Analytical Report and ADEC Laboratory Data Review Checklist

ACRONYMS AND ABBREVIATIONS

ADEC Alaska Department of Environmental Conservation

AK Alaska Test Method

BTEX Benzene, Toluene, Ethylbenzene, and Xylenes

DO dissolved oxygen
DRO diesel range organics
Chemox chemical oxidation
CAP corrective action plan

EPA U.S. Environmental Protection Agency

gpm gallons per minute
GRO gasoline range organics
GCL groundwater cleanup level

mg/L milligrams per liter

mV millivolts

ORP oxidation-reduction potential LOQ laboratory limit of quantization

QA quality assurance QC quality control

RDL reported detection limit SIM selective ion method SC specific conductance

Stantec Stantec Consulting Services Inc.

RDL reported detection limit

Tesoro Tesoro Refining & Marketing Company

TNS Tesoro North Store
TMB Trimethylbenzene

μS/cm°C microSiemens per centimeter °C VOC volatile organic compounds VSC vapor stripping and circulation

1.0 INTRODUCTION

This fourth quarter 2022 Groundwater Monitoring Event Report was prepared by Stantec Consulting Services Inc. (Stantec) on behalf of 7-Eleven for 7-Eleven Store 46754 (formerly Speedway 5325- TNS 52), located at 7172 West Parks Highway, Wasilla, Alaska (**Figure 1**). Background and historical information for this site is summarized in **Appendix A**. The methods used for this monitoring event were conducted in accordance with the Alaska Department of Environmental Conservation (ADEC) approved 2022 Corrective Action Plan (CAP) for this site. The 2022 CAP work plan tasks are summarized in **Appendix B**.

This 4Q 2022 groundwater monitoring event was conducted on October 12, 2022, by Stantec environmental staff who included: Bob Gilfilian, Lead Project Engineer; John Marshall, Environmental Scientist; and Jeremiah Malenfant, Geologist-in-Training. In addition, the Stantec field staff completed the monthly injection of Chemox on September 28, 2022.

2.0 FIELD ACTIVITIES

The following field activities were completed during the fourth quarter 2022 groundwater monitoring event and chemox injection for groundwater treatment:

- Measured depth to groundwater in wells G-1, G-2, G-3, G-4, G-5, G-6, G-7, former Remediation Well RW 16-1, and MW 16-2.
- Measured field intrinsic water quality parameters in groundwater monitoring wells G-1, G-3, G-5, G-7, RW 16-1 and MW 16-2.
- Collected water samples from Monitoring Wells G-1, G-3, G-5, G-6, G-7, MW 16-2 (with a duplicate sample), RW 16-1, and drinking water wells Runion Lots 1 and 2, Runion Lot 4, and Runion Lot 5 (sample locations shown on **Figure 2**).

On September 28, prior to the completion of the groundwater monitoring event, Stantec conducted a monthly injection of chemox into the remediation wells RW 20-1 and RW 20-2.

Field methods and procedures are provided in **Appendix B** and field measurements and notes are provided in **Appendix C**.

3.0 GROUNDWATER MONITORING RESULTS

3.1 GROUNDWATER ELEVATIONS

Table 1 presents groundwater elevations at this site based on the depths to static groundwater levels measured during the monitoring event.

Table 1 Groundwater Elevations

Measured on October 12, 2022

Monitoring Well Identification	Top of Casing Elevation ¹ (feet)	Depth to Water (feet btoc)	Groundwater Elevation (feet)
G-1	99.29	19.09	80.20
G-2	99.25	19.06	80.19
G-3	99.13	19.03	80.10
G-4	98.29	18.58	79.71
G-5	101.44	21.51	79.93
G-6	102.32	22.01	80.31
G-7	99.42	19.73	79.69
RW 16-1	99.44	19.46	79.98
MW 16-2	99.20	19.08	80.12

Key:

btoc – below top of casing.

The average groundwater gradient across the site was calculated to be approximately 0.0024 feet per foot to the southwest at 232 degrees, as shown in **Table 2**. The direction of flow was similar to historical groundwater flow measurements, but the gradient measured in this event and in the 3Q monitoring event are much less than in previous events. This may be the result of heavy rainfall in the general area during the second half of the summer. A plot of groundwater elevation contours generated using the SampleServe® software program is included in **Figure 3**.

All static water levels were measured with the groundwater recirculation system not running. The compressor which operates the air lift well was taken offsite for maintenance on September 28 after it was discovered not to be running during the chemox event. The compressor was reinstalled on October 12 but not placed into operation until after the groundwater levels were measured in the monitoring wells.

^{1 –} G-1, G-2, G-3, G-4, G-5, G-6, G-7, RW16-1, and MW16-2 surveyed on May 17, 2022. Elevations are presented in respect to a local benchmark with 100-foot datum.

Table 2 Historical Groundwater Flow Direction and Gradient

Date	Flow Direction (azimuth)	Gradient (ft/ft)
10/25/2018	175°	0.02
2/26/2019	152°	0.03
4/23/2019	183°	0.02
7/16/2019	300°	0.011
10/17/2019	221°	0.022
8/12/2020	171°	0.018
10/2/2020	191°	0.007
5/18/2021	182°	0.02
7/21/2021	207°	0.021
10/13/2021	171°	0.008
3/18/2022	198°	0.033
5/17/2022	343°	0.011
7/19/2022	226°	0.0018
10/12/2022	232°	0.0024

3.2 FIELD PARAMETERS

Temperature, pH, dissolved oxygen (DO), oxidation-reduction potential (ORP), and specific conductance (SC) were measured following purging of the sampled wells. Monitoring and remediation wells were purged of three well volumes or until purged dry and allowed to recharge prior to sampling. Results of water quality parameter testing are presented in **Table 3**.

Table 3 Field ParametersMeasured on October 12, 2022

Monitoring Well Identification	Purged Volume (gallons)	Temp. (°C)	pН	DO (mg/L)	ORP (mV)	SC (µs/cm°C)
G-1	5	7.8	6.63	0.92	231	134.4
G-3	28	10	6.91	7.35	371.7	223.2
G-5	3.5	10.5	6.17	5.96	197.3	208
G-7	3.5	11.4	5.38	7.54	228.2	225.9
RW16-1	3.5	8.1	6.54	7.2	281.9	364.4
MW16-2	3	9.2	6.52	8.07	296.8	224.8

Key:

 $^{\circ}\text{C}-\text{degrees Celsius} \hspace{1.5cm} \text{NA}-\text{not applicable} \hspace{1.5cm} \text{NM}-\text{not measured}$

 μ S/cm°C – microSiemens per centimeter °C ORP – oxidation-reduction potential 1 – well not purgeo

DO-dissolved oxygen $pH--log[H^+]$

 $\begin{array}{ll} mg/L - milligrams/liter & SC - specific conductance \\ mV - millivolts & Temp. - temperature \end{array}$

1 – well not purged due to air lift injection

Monitoring well G-1 receives about half of the flow from the air lift recirculation well when the air-lift pump system is running. The system had been inoperative for two weeks prior to sampling, contributing to cooler and less oxygenated water in G-1 than was measured in previous events. A summary of field measurements and notes generated by the SampleServeTM program are provided in **Appendix C**.

3.3 GROUNDWATER SAMPLE ANALYTICAL RESULTS

Pace Analytical Laboratory performed all analysis of groundwater samples for this sampling event. Historical monitoring data for all of the wells associated with this site are presented in **Appendix D**. Laboratory analytical results are summarized in **Table 4**. The laboratory analytical report is provided in **Appendix E**.

Results of the analytical sampling did not show petroleum hydrocarbon contaminant concentrations exceeding the GCLs in any of the sampled wells. The only analytes detected above laboratory limits of quantization (LOQs) were 1,2,4-TMB in G-3 and total xylenes, GRO, naphthalene, and 1,2,4-TMB in RW16-1.

Table 4a Groundwater Analytical Results for BTEX, GRO, and DRO Samples collected on October 12, 2022

Sample Identification	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	GRO (mg/L)	DRO (mg/L)
G-1	U (0.00100)	U (0.00100)	U (0.00100)	U (0.00300)	U (0.100)	0.565 J (0.800)
G-3	U (0.00100)	U (0.00100)	0.000464 J (0.00100)	0.000449 J (0.00300)	0.0349 J (0.100)	0.392 J (0.800)
G-5	U (0.00100)	U (0.00100)	U (0.00100)	U (0.00300)	U (0.100)	U (0.800)
G-7	U (0.00100)	U (0.00100)	U (0.00100)	U (0.00300)	U (0.100)	U (0.800)
RW16-1	0.000309 J (0.00100)	0.000380 J (0.00100)	0.000383 J (0.00100)	0.001300	0.322	0.500 J (0.800)
MW16-2	U (0.00100)	U (0.00100)	U (0.00100)	U (0.00300)	U (0.100)	U (0.800)
DUP-01 (duplicate of MW16-2)	U (0.00100)	U (0.00100)	U (0.00100)	U (0.00300)	0.0294 J (0.100)	U (0.800)
GCLs	0.0046	1.1	0.015	0.19	2.2	1.5

Table 4b Groundwater Analytical Results for Naphthalene, Trimethylbenzene (TMB) and Sodium

Samples collected on October 12, 2022

Sample Identification	Naphthalene ¹ (mg/L)	1,2,4-TMB (mg/L)	1,3,5-TMB (mg/L)	Sodium (mg/L)
G-1	U (0.000250)	U (0.00100)	U (0.00100)	7.81
G-3	U (0.000250)	0.00118	0.000508 J (0.00100)	7.96
G-5	U (0.000250)	U (0.00100)	U (0.00100)	8.87
G-7	U (0.000250)	U (0.00100)	U (0.00100)	6.88
RW16-1	0.00110	0.00241	U (0.00100)	26.7
MW16-2	U (0.000250)	0.000523 J (0.00100)	0.000487 J (0.00100)	9.84
DUP-01 (duplicate of MW16-2)	U (0.000250)	0.000523 J (0.00100)	0.000423 J (0.00100)	8.91
GCLs	0.0017	0.056	0.060	NA

Table 4c Groundwater Analytical Results in Drinking Water and Historical Wells Samples collected on October 12, 2022

Sample Identification	Benzene² (mg/L)	Toluene ² (mg/L)	Ethylbenzene ² (mg/L)	Xylenes ² (mg/L)	DRO (mg/L)	1,2,4-TMB (mg/L)	1,3,5-TMB (mg/L)
Runion Lot 4	U (0.000500)	U (0.00100)	U (0.000500)	U (0.000500)	U (0.800)	NM	NM
Runion Lot 5	U (0.000500)	U (0.00100)	U (0.000500)	0.000303 J (0.000500)	U (0.800)	NM	NM
Runion Lots 1 and 2	U (0.000500)	U (0.00100)	U (0.000500)	U (0.000500)	U (0.800)	NM	NM
G-6	U (0.00100)	U (0.00100)	U (0.00100)	U (0.00300)	U (0.800)	U (0.00100)	U (0.00100)
GCLs	0.0046	1.1	0.015	0.19	1.5	0.056	0.060

Key:

1 - Analyzed by EPA Method 8270D-SIM

2 - Analyzed by EPA Method 524.2/8260C (except G-6)

DRO - Diesel range organics, analyzed by AK102

GCLs – Groundwater cleanup levels, per Alaska Department of Environmental Conservation 18 Alaska Administrative Code 75.345, Table C, updated September 29, 2018.

GRO - Gasoline range organics, analyzed by AK101

J - The identification of the analyte is acceptable; the reported value is an estimate

 $mg/L\ -\ Milligrams\ per\ liter$

U - Undetected above practical quantitation limits shown in parentheses

 $\begin{tabular}{ll} \textbf{Bold} & - \text{ indicates the concentration exceeds the GCL or, if not detected, the reported detection limit (RDL) exceeds the GCL. \end{tabular}$

NM - Not Measured

3.4 QUALITY ASSURANCE (QA)/QUALITY CONTROL (QC) REVIEW

Laboratory QC data and the ADEC Laboratory Data Review Checklist are included with the laboratory report in **Appendix E**.

A duplicate sample set was collected to determine the precision of the field collection and laboratory analysis for the sampling event. Sample Dup-01 is a duplicate of Sample MW 16-2. Data presented in **Table 5** show that the precision for the duplicate sample set was inside the established QA criteria tolerances for all analytes for which it could be calculated. Precision could not be calculated for benzene, toluene, ethylbenzene, xylenes, GRO, or DRO because they were not detected above the LOQ in one or more samples. The holding times for all analytes were within established criteria.

Table 5 Laboratory Quality Control Objectives

Quality Control Designation	Tolerance	Results for this Event
Holding Times		•
DRO/Water/to analyze	40 days	7 days
DRO/Water/to extract	14 days	6 days
GRO/Water/to analyze	14 days	6 days
VOCs/Water/to analyze	14 days	5-6 days
PAHs/Water/to extract	7 days	5 days
PAHs/Water/to analyze	40 days	6 days
Field Duplicates – Precision		
Benzene/Water	± 30%	NC
Toluene/Water	± 30%	NC
Ethylbenzene/Water	± 30%	NC
Xylenes/Water	± 30%	NC
GRO/Water	± 30%	NC
DRO/Water	± 30%	NC
1,2,4-TMB/Water	± 30%	0%
1,3,5-TMB/Water	± 30%	14%

Key:

% - percent

 \pm – plus or minus

DRO - diesel range organics

GRO - gasoline range organics

NC – Not calculated because the analyte was not detected above the practical quantitation limit in one or more sample

TMB – trimethylbenzene

VOCs - volatile organic compounds

Bold – indicates the value is above acceptable limits

4.0 REMEDIATION SYSTEM

The on-site groundwater treatment process consists of a VSC (vapor stripping circulation) system and routine injections of a chemox solution into the groundwater table via 2 remediation wells. An airlift well is used for operating the VSC system. The frequency of chemox injections is typically monthly, subject to ambient air temperatures being above freezing. The chemox solution consists of a mixture of water and an oxidant product commercially referred to as Klozur One[®], which is a sodium persulfate compound. In 2020, Stantec installed two 4-inch diameter chemox injection wells, RW 20-1 and RW 20-2, located approximately 10-feet northwest and northeast (upgradient) of Remediation Well RW 16-1 (**Figure 2**). These 4-inch diameter wells are used for the chemox injection.

On September 28, 2022, a monthly remediation event was completed that involved the injection of a chemical oxidant (chemox). The chemox injection consisted of 110 pounds of Klozur One[®] product combined with 100 gallons of potable water (from the 7-Eleven convenience store) injected by gravity into each of the two injection wells (RW 20-1 and RW 20-2) that are shown on **Figure 2**. The chemox solution was hydraulically "pushed" into the formation with additional injection of several hundred gallons of potable water into each of the remediation injection wells.

In July of this 2022, the air lift VSC well was plumbed to split flow between G-1 and RW 20-1. Currently, excess flow from G-1 is diverted to RW 20-1 at a rate of approximately 1.5 gallons per minute. On September 28, the Becker blower which operates the air lift VSC well was taken out of commission for maintenance, including replacement of filters and graphite fins. The blower was re-installed on October 12 after the groundwater monitoring event. It is anticipated that the graphite fins on the blower will need to be replaced every 12 months, depending on the consistency of operation of the blower. During the chemox injection event the new manholes that were installed June 21 of this year were insulated, and the VSC system is expected to be operation through the winter.

5.0 DISCUSSION OF FINDINGS

Results of the analytical sampling completed during this groundwater monitoring event showed no petroleum hydrocarbon contaminant concentrations that exceeded the ADEC GCLs. Wells G-3 and RW 16-2 have historically been contaminated and these were the only wells in which analytes were detected above laboratory LOQs. In addition, no contaminants of concern were detected by EPA Test Method 524.2 in the drinking water samples collected from the drinking water wells located on Runion Lots 1 and 2, Runion Lot 4, and Runion Lot 5. Historical results for the current and previous monitoring events are presented in **Appendix D**.

The average groundwater gradient across the site was calculated to be approximately 0.0024 feet per foot to the southwest at 232 degrees. The direction of flow was similar to historical groundwater flow measurements, but the gradient measured in this event and in the 3Q monitoring event are much less than in previous events. This may be the result of heavy rainfall at the site in the second half of the summer. All static water levels were measured with the groundwater recirculation system not running.

6.0 CONCLUSIONS AND RECOMMENDATIONS

No anomalies were found during this fourth quarter 2022 monitoring event that require additional corrective action or changes to the approved year 2022 Corrective Action Work Plan for this site. The

findings of no contaminates in the groundwater that were above the GCLs indicates the chemox injection treatment process with the circulation of groundwater via the VSC system may be an effective method for remediation of this site. Stantec recommends continuation of the treatment process for next year (2023) for confirmation of reaching consistent monitoring results below ADEC GCLs for closure of the site.

7.0 LIMITATIONS

Stantec conducted this monitoring event in accordance with the 2022 Corrective Action Work Plan approved by ADEC, and in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practicing under similar conditions. All sampling activities were completed in accordance with the ADEC *Underground Storage Tanks Procedures Manual – Standard Sampling Procedures* (March 22, 2017). The conclusions in this report are Stantec's professional opinion, as of the time of the report, and concerning the scope described in the report. The opinions in the document are based on conditions and information existing at the time the scope of work was conducted and do not take into account any subsequent changes. This report relates solely to the specific project for which Stantec was retained and the stated purpose for which the report was prepared. The report is not to be used or relied on for any variation or extension of the project, or for any other project or purpose, and any unauthorized use or reliance is at the recipient's own risk.

This report is intended solely for use by the client in accordance with Stantec's contract with the client. While the report may be provided to applicable authorities having jurisdiction and others for whom the client is responsible, Stantec does not warrant the services to any third party. The report may not be relied upon by any other party without the express written consent of Stantec, which may be withheld at Stantec's discretion.

FIGURES

Figure 1 Location and Vicinity Map

Figure 2 Site Plan with Groundwater Analytical

Results

Figure 3 Groundwater Elevation Contours



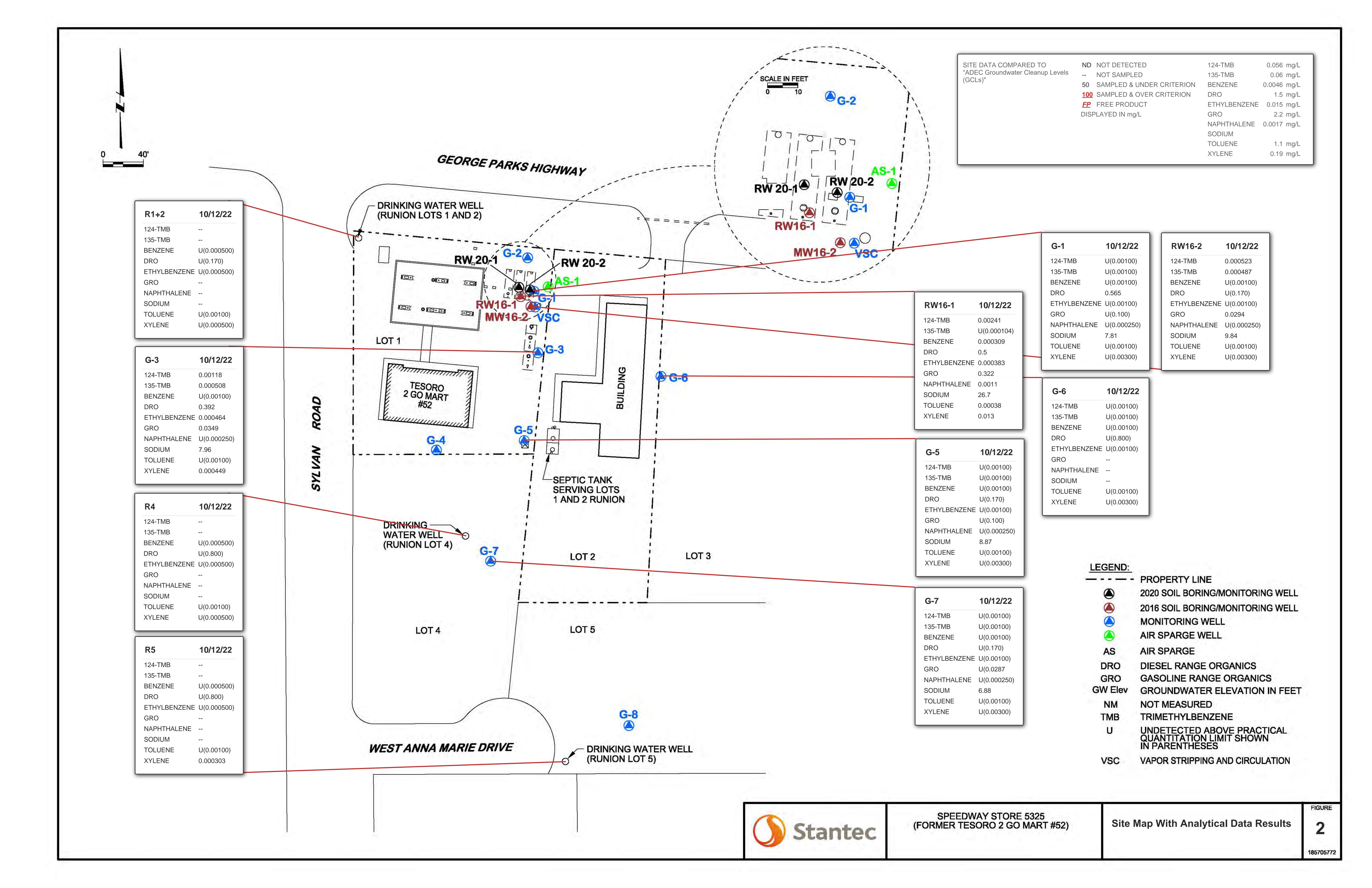
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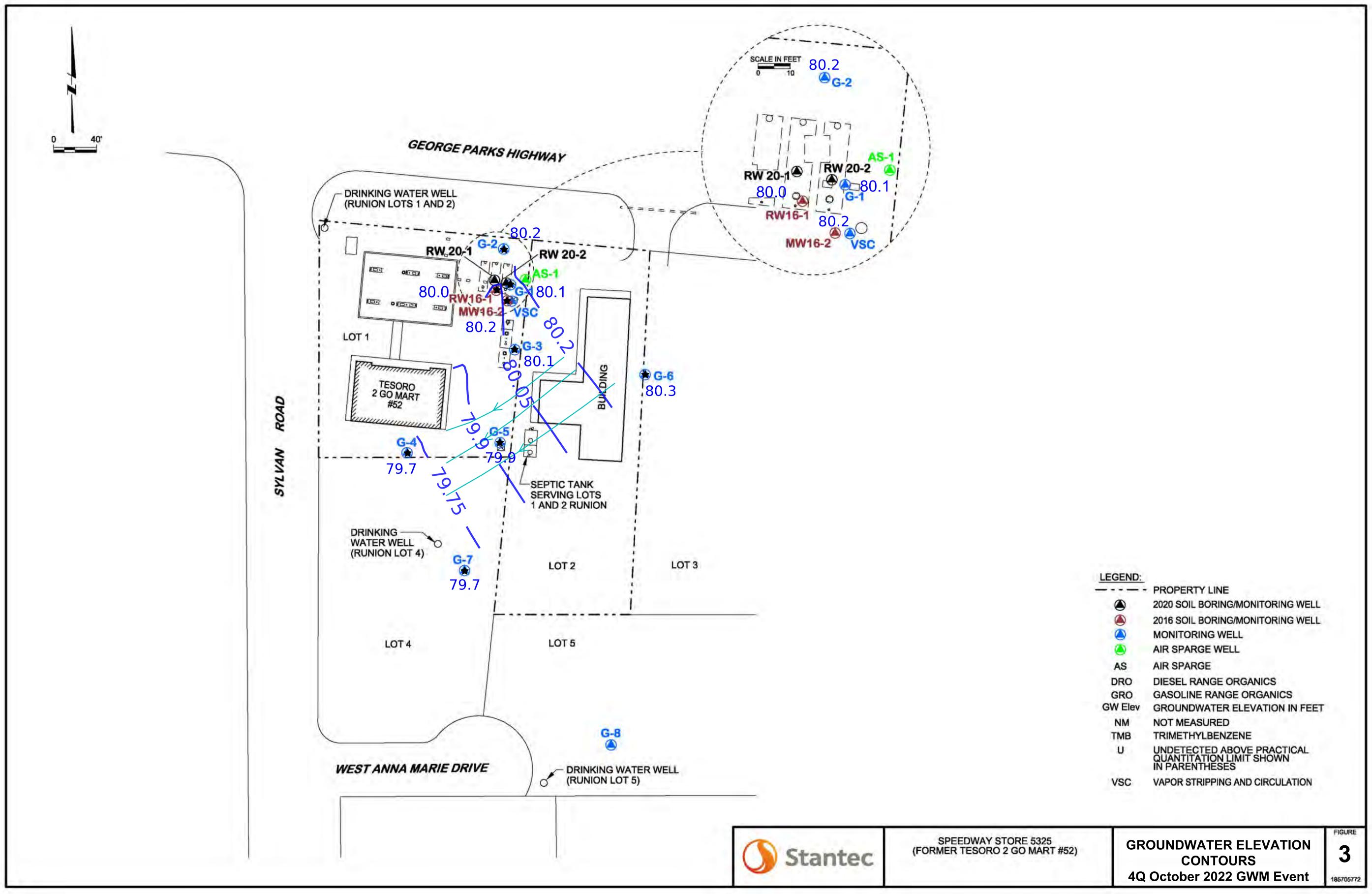
7-ELEVEN STORE 46754 (formerly SPEEDWAY STORE 5325 - TNS 52) 4Q - OCTOBER 2022 GWM EVENT REPORT

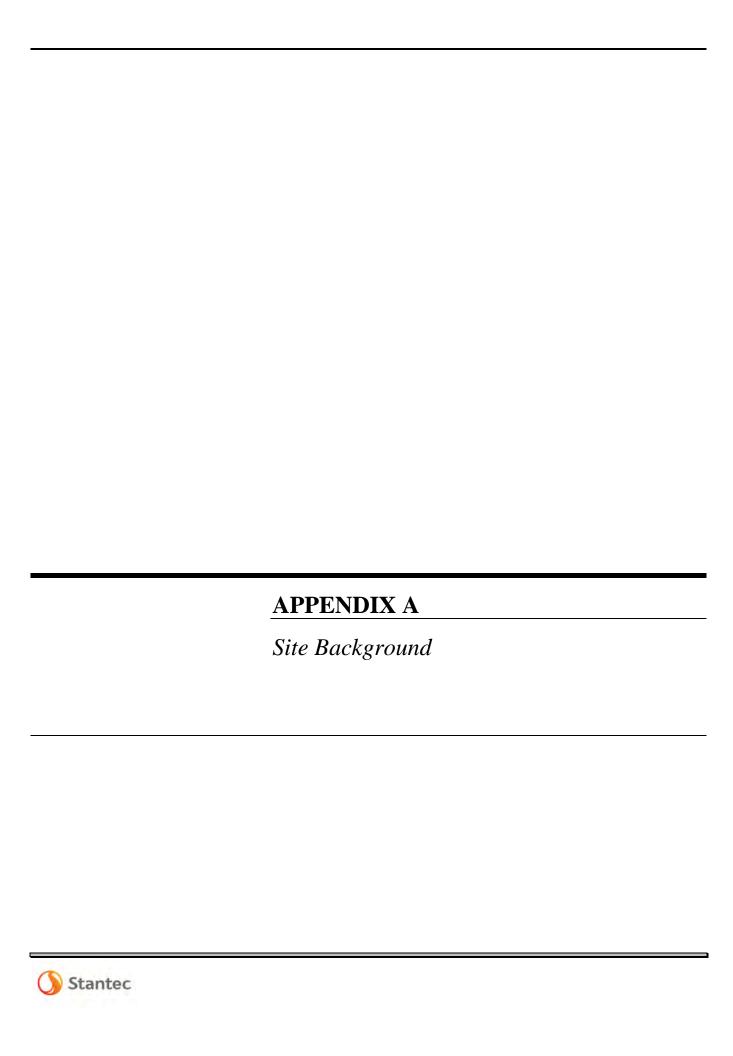
LOCATION AND VICINITY MAP

FIGURE

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APPENDIX A – SITE BACKGROUND

Tesoro 2 Go Mart #52 (Mile 49 Parks Highway, Wasilla, Alaska) **ADEC Facility ID #648; ADEC File #2265.26.006**

September 1996. During the removal of the former underground storage tank (UST) fueling system (consisting of several fuel dispensers, two 12,000-gallon gasoline, and one 12,000-gallon diesel USTs) on September 7, 1996, petroleum contamination was encountered in the surrounding soil. Gilfilian Engineering conducted the UST site assessment work. Approximately 240 cubic yards of gasoline and 60 cubic yards of diesel contaminated soil was excavated and treated at Alaska Soil Recycling.

February 1997. The Alaska Department of Environmental Conservation (ADEC) reviewed the UST Closure Site Assessment Report prepared by Gilfilian Engineering. Subsequently, a Release Investigation (RI) Work Plan prepared by Gilfilian Engineering was approved by ADEC.

April 1997. The findings of the RI (later referred to as Phase I RI) showed high levels of diesel contamination under the diesel dispenser islands and gasoline contamination under the unleaded gasoline UST to 36 feet below ground surface (bgs). The RI included drilling five soil borings and installing and sampling one groundwater monitoring well (identified as G-1). Groundwater was also found to be contaminated. Subsequently, an ADEC-approved work plan was prepared by Gilfilian Engineering for Phase II RI.

December 1997. Phase II RI report submitted to ADEC. The RI included drilling soil borings and installing and sampling four groundwater monitoring wells (G-2, G-3, G-4 and G-5).

April 1998. ADEC approved the installation of a Soil Vapor Extraction (SVE) system.

June 1998. Gilfilian Engineering submitted a Well Search report to ADEC. The well search targeted an area of 0.25-mile radius centered on the gas station site.

July 1998. ADEC approved the work plan prepared by Gilfilian Engineering for a Phase III RI.

August 1998. A Phase III RI was completed at the site by Gilfilian Engineering. The RI included installing and sampling three groundwater monitoring wells (G-6, G-7, and G-8).

January 2002. Several "rising and falling head hydraulic conductivity tests" (slug tests using the Hvorslev method) were performed by Gilfilian Engineering on January 9, 2002. The hydraulic conductivity at Monitoring Wells G-4 and G-7 exceeded 171 feet/day. Based on the high hydraulic conductivity values, Gilfilian Engineering recommended a pilot test to determine the effectiveness of treating the groundwater with a vapor stripping and circulation (VSC) well.

March/April 2002. One soil boring was drilled on March 6, 2002, for installation of a VSC well. Benzene, toluene, ethylbenzene, and xylenes (BTEX), gasoline range organics (GRO), and diesel range organics (DRO) tested in soil samples collected from the soil boring were detected above

ADEC soil cleanup levels (SCLs). In addition, a second soil boring was drilled for installation of an air sparge (AS) well that was designated AS-1. Benzene, ethylbenzene, and GRO were detected above SCLs and BTEX and GRO were above the ADEC groundwater cleanup levels (GCLs) in AS-1. Pilot testing conducted in March and April 2002 showed the hydrogeological formation could not provide adequate water to operate a VSC or AS system at this site. Continued operation of the SVE system only was recommended, and the VSC well was subsequently connected to the SVE system.

June 2002. The SVE system was re-started on June 25, 2002 and was set to withdraw vapors from Wells SVE-1, SVE-5, and SVE-6. A significant increase in the volatile contaminant concentrations to 139 parts per million by volume (ppmv) as measured by a photoionization detector (PID), was noted in the SVE system discharge. By July 3, 2002, the volatile levels dropped to 58.5 ppmv, which was possibly related to the significant decrease in the thickness of free product measured in Monitoring Well G-1 (SVE-1).

December 2002. An SVE pilot study using a 5-horsepower FL-707 Rotron blower was conducted on December 19, 2002. The purpose was to determine if the use of a larger capacity blower would increase the recovery of volatile petroleum contaminants. The dramatic rise in PID readings during the second quarter of 2002 is attributed to the addition of SVE Wells 5, 6, and VSC.

October 2003. A 1-horsepower air compressor was installed for operation of the AS system. The AS well (AS-1) was previously installed at the site in 2002. The VSC manhole was reconfigured to enhance SVE system performance.

July 2004. The AS system was converted into a VSC system for pilot testing on July 21, 2004. Down well piping was installed in Monitoring Well VSC and connected to the compressor air supply line. Pilot testing indicated the system could be an effective groundwater treatment option. The AS compressor was removed from the site for maintenance.

September 2, 2004. The VSC system was activated following ADEC approval. The VSC system was treating approximately 1 gallon of contaminated groundwater per minute, or 1,440 gallons per day. The treated water was transferred (pumped by air) from the VSC well to Monitoring Well G-1 for circulation.

October 2007. Ten confirmation soil borings (CSB-1 through CSB-10) were installed on October 3 through 9, 2007, near the former USTs and areas of previous investigations across the site. Benzene, ethylbenzene, xylenes, GRO, and DRO were detected above the SCLs in two or more borings. Toluene was the only analyte not detected above the SCLs in any soil boring.

September 2008. Three chemical oxidation applications were completed by MWH Americas, Inc. (MWH). Sampling of groundwater monitoring wells noted benzene, ethylbenzene, and GRO detected above the GCLs in Monitoring Well G-3.

February 2009. Monitoring Well G-3 showed a consistent trend in increased hydrocarbon concentrations, and a fine sediment with a hydrocarbon odor was found in the bottom of the

monitoring well. MWH recommended that the well be re-developed to remove the sediment build-up.

March 2009. Monitoring Well G-3 was redeveloped to remove the dark colored sediment. The sediment was noted to have a slight petroleum odor and heavy sheen.

January/June/August 2010. MWH performed potassium permanganate chemical oxidation treatments on January 27 and 28, June 11, and August 20, 2010. A solution of 3 percent potassium permanganate (180, 646, and 767 gallons, respectively) was injected into several groundwater monitoring wells.

October 30, 2012. The chemical oxidant Klozur CR[®] was injected into three on-site wells (Monitoring Well G-1 and SVE Wells SVE-5 and SVE-6). The Klozur CR[®] injection process was conducted to test the use of the existing remediation infrastructure for a means of delivering the chemical oxidant into the contaminated groundwater aquifer at the site, as well as evaluating the effectiveness of the chemical oxidant.

October 2012. Groundwater sample results were non-detect in all four monitoring wells sampled. The water table was considerably higher than normal, and the absence of dissolved contaminants was assumed to be associated with the high water table. The last time a high water table was observed was in October 2006, and the concentrations were all non-detects in all monitoring wells except for G-3, which was lower than historical concentrations at that time.

January 30, 2013. DRO was detected in Monitoring Wells G-1, G-3, and G-7, and toluene, ethylbenzene, and xylenes were detected in G-3 – with all analytes below the GCLs. The water table was higher than normal, and the concentrations detected were not believed to be indicative of the groundwater conditions at the site.

December 19, 2013. A chemical oxidation application of Klozur CR[®] was injected into three onsite wells: Monitoring Well G-1 and Remediation Wells SVE-5 and SVE-6.

February 2014. Groundwater sampling showed contaminant levels in all monitoring wells that were sampled remained below the GCLs for the last seven monitoring events.

May 2014. DRO was detected in Monitoring Well G-3 at 3.3 milligrams per liter (mg/L), exceeding the GCL for the first time since February 2011. The remediation system was operating on a full-time basis.

October 2014. Groundwater sampling showed contaminant levels in all monitoring wells were below GCLs. The remediation system was operating on a full-time basis.

February 2015. GRO and DRO were detected at 4.8 and 12 mg/L, respectively, in Monitoring Well G-3. All other analytes were below GCLs. Remediation system operating on full-time basis.

May 2015. GRO was detected at 2.6 mg/L in the duplicate sample collected from Monitoring Well G-3, the primary and all other analytes were below GCLs.

September 2015. Groundwater sampling showed contaminant levels in all monitoring wells were below GCLs. The remediation system was operating on a full-time basis.

October 2015. Three CSBs were installed by MWH to investigate the extent of any remaining soil contamination at the site. Two areas were investigated: the former diesel dispensers and the former gas dispensers and USTs. Soils encountered in the area of the former diesel dispensers had elevated headspace field screening results; however, DRO concentrations were below laboratory practical quantitation limits (PQLs). Soils encountered in the area of the former gas dispensers and USTs had detectable concentrations of GRO and one exceedance above the SCLs established for the site. Soil GRO contamination was limited to below the current groundwater level at the site. Similar observations were documented in 2007. Analytical results collected from the 2015 CSBs indicate that concentrations of petroleum contamination remaining at the site are generally decreasing when compared to the analytical results from the 2007 CSBs. Future management strategies at the site may include targeted chemical oxidation in the area of the former gas dispensers and USTs as represented by CSB 9-3, with no further cleanup action at the former diesel dispensers.

November 2015. GRO was detected at 3.2 mg/L in Monitoring Well G-3. An analytical sample was collected from the VSC well which indicated all analytes were below GCLs for the first time since September 2004. The remediation system was offline upon arrival at the site and remained offline pending groundwater conditions and further analytical sampling.

January 2016. The first quarter 2016 monitoring event was conducted on January 28, 2016. Results of the analytical sampling showed that all analytes were below GCLs, except GRO concentrations in Monitoring Well G-3. One or more analytes were detected above the PQLs in all the monitoring wells sampled, except Monitoring Well G-5. Analytical results from Remediation Well VSC were below PQLs.

May 2016. The second quarter 2016 monitoring event was conducted on May 9, 2016. All analytes were below the GCLs, only Monitoring Well G-3 had analytes detected above PQLs. Monitoring Wells G-2 and G-5 had insufficient water for sampling.

Four CSBs were placed at four locations surrounding the 2015 CSB 9-3, to the north, south, east, and west. Two discrete analytical soil samples were collected from CSB 16-1, CSB 16-2, and CSB 16-4, and one sample from CSB 16-3. These samples were collected from the locations with the highest PID readings, or at the water table interface if no detections were observed in field screened samples.

CSB 16-1 and CSB 16-2 (Samples CSB 16-1 38 and CSB 16-2 39), which were the closest to the former USTs and located to the north and east of 2015 CSB 9-3, respectively, both had GRO exceedances similar to the findings of the nearby 2015 Boring CSB 9-3. All the samples which exceeded SCLs were below the water table that was measured at a depth of 35.48 feet btoc in nearby Monitoring Well G-3 at the time of drilling. Analytical results at the water table interface at three locations were below laboratory PQLs. The CSB 16-3 and CSB 16-4, located at a greater

distance from the former USTs compared to CSB 16-1 and CSB 16-3 and to the south and west of 2015 CSB 9-3, did not have analyte exceedances. Soil Borings CSB 16-1 and CSB 16-2 were completed with PVC riser and screen assemblies to provide future access points for monitoring and/or remediation activities.

October 2016. The third quarter 2016 monitoring event took place on October 24, 2016. All wells listed in the 2016 Work Plan to be sampled in the third quarter had sufficient water for sampling. Monitoring Well G-3 had GRO detected above GCL. New Wells RW16-1 and MW16-2 were sampled for the first time. Remediation Well RW16-1 had all analytes, except benzene and toluene, detected above their GCLs. Monitoring Well MW16-2 had analytes detected above PQLs, but none above GCLs. The VSC system was not operating.

December 2016. The fourth quarter 2016 monitoring event took place on December 9, 2016. All wells listed in the 2016 Work Plan to be sampled in the fourth quarter had sufficient water for sampling. Monitoring Well G-3 had GRO detected above GCL (update effective November 6, 2016). Drinking water samples had no detections above PQLs. The VSC system was not operating.

February 2017. The first quarter 2017 monitoring event took place on February 8, 2017. Monitoring Wells G-1 and G-3 purged dry and did not recover sufficiently to allow for sampling. Monitoring Well G-5 was dry upon arrival at the site. Remediation Well RW16-1 and Monitoring Well MW16-2 were sampled. Ethylbenzene, xylenes, GRO, and DRO were detected above GCLs in both wells. The VSC system remained off-line due to low groundwater conditions and/or frozen circulation line. The SVE treatment system was not operational and will require maintenance to the blower system following spring breakup.

April and May 2017. The second quarter 2017 monitoring event took place on April 25, 2017. Analytes were detected above their GCLs in Monitoring Wells G-3, G-5, and MW16-2, and Remediation Well RW16-1. These wells had exceedances of specific volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) consisting of 1,2,4- and 1,3,5-trimethylbenzene compounds and naphthalene.

Routine maintenance was conducted on the SVE and VSC systems, but due to unresolved electrical power/control issues, both systems are currently not operating until additional corrective action services are provided by an electrician.

Also, representative water samples were collected from the domestic water systems serving the existing buildings on Lots 1, 3 and 4 in Runion Subdivision, and were analyzed for public drinking water VOCs and DRO. No detectable levels of contaminants were found in any of the domestic drinking water wells.

On May 3, 2017, the first phase of the pilot test was initiated with an injection of a chemical oxidant (chemox) consisting of Klozur CR^{\circledast} into the new Remediation Well RW16-1. The pilot test will be continued during the third and fourth quarters of 2017, when the wells will be resampled to determine the impact of the chemox injection. Subject to the findings of the 2017 monitoring events, the pilot test may be continued in 2018 with several more injections of Klozur CR^{\circledast} .

October 2017. The fourth quarter 2017 monitoring event took place on October 20, 2017. DRO was detected above the GCL in Monitoring Well G-3. Analytes detected above their GCLs in MW16-2 included: ethylbenzene, GRO, naphthalene, and 1,2,4-trimethylbenzene.

The SVE and VSC treatment systems were not operating due to electrical control systems malfunctions. The treatment systems are scheduled for replacement and/or upgrade in 2018.

The pilot test program for the chemox injection was initiated in May 2017 in accordance with the ADEC approved work plan for the 2017 Work Plan Task 3. The test results for intrinsic parameters measured during the October 2017 monitoring event indicate no unusual findings and will be monitored in future quarterly monitoring events scheduled for 2018 with additional applications of Klozur CR[®] into Remediation Well RW16-1.

February 2018. The first quarter 2018 monitoring event took place on February 13, 2018. Analytes detected above their GCLs included ethylbenzene and GRO in Monitoring Well MW16-2 and DRO in Monitoring Well G-3.

The SVE treatment system was off-line pending repairs. The operation of the VSC system was interrupted in the second quarter of 2017 relating to an issue with the variable frequency drive on the compressor and will be brought back online when the system can be evaluated by a licensed electrician.

Ongoing monitoring of sodium and total organic carbon, relating to the May 2017 chemical oxidation pilot test, showed elevated concentrations of both analytes in Monitoring Well G-3. Conductivity was also found to be elevated in Monitoring Well G-1, which may also indicate the presence of residual chemical oxidant.

August 2018. The third quarter monitoring event took place on August 17, 2018. Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeding the GCLs for: DRO in Monitoring Wells G-1 and G-3; GRO in Monitoring Well 16-2, and ethylbenzene, xylenes, GRO, and DRO in Remediation Well 16-1.

Several analytes for VOCs and polynuclear aromatic hydrocarbons (PAHs) were reported as undetected but had laboratory reporting limits that equaled or exceeded their corresponding GCLs. These undetected analytes were noted in all the wells that were sampled.

Also, representative water samples were collected from the domestic water systems serving the existing buildings on Lots 1&2, 4, and 5 in Runion Subdivision, and were analyzed for public drinking water VOCs. All the domestic drinking water wells were found to have no detectable levels of contaminants of concern.

The SVE and VSC treatment systems are not operating pending future repairs and/or modifications to the electrical systems which will be evaluated by a licensed electrician.

October 2018. The fourth quarter groundwater monitoring event was conducted on October 25, 2018. The monitoring event included measuring depth to water, field intrinsic water quality

parameters, and collecting and analyzing groundwater samples from Monitoring Wells G-1, G-3, G-5, G-7, and MW16-2. Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeding the GCLs for: DRO in Monitoring Well G-3; and 1,2,4-trimethylbenzene in Monitoring Well 16-2.

The VSC treatment system is currently operating and pumping, via the air-lift pump, approximately 2 to 3 gallons per minute on a continuous basis. During the 3rd quarter of 2018, Stantec completed a chemox injection Klozur One[®]. Fifty-five pounds of Klozur One[®] was mixed with approximately 100 gallons of clean water. The chemox solution was injected into Remediation Well RW 16-1.

February 2019. The first quarter 2019 monitoring event took place on February 26, 2019. The monitoring event included measuring depth to water, field intrinsic water quality parameters, and collecting and analyzing groundwater samples from Monitoring Wells G-1, G-3, G-5, G-7, and MW16-2. The depth to water and field intrinsic water quality parameters were also measured in Remediation Well RW16-1. Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeding the GCLs for: DRO in Monitoring Well G-3 and GRO in Monitoring Well 16-2.

The VSC and SVE treatment systems were found to be off (inoperative) upon arrival at the site due to an apparent power surge. Upon restart of the systems, the recirculation line was found to be frozen. The VSC and SVE systems were left off until spring thaw.

April 2019. The second quarter 2019 groundwater monitoring event was conducted on April 23 and 24, 2019. The monitoring event included measuring depth to groundwater and field intrinsic water quality parameters and collecting and analyzing groundwater samples from Monitoring Wells G-1, G-2, G-3, G-4, G-5, G-7, and MW16-2 and Remediation Well RW16-1.

Based on the groundwater depth measurements, the average hydraulic gradient was determined to be flowing to the south at a bearing of 183 degrees with a gradient of 0.02 feet per foot. Groundwater flow direction and gradient was noted to be consistent with the historical results for this site.

Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeded the GCLs for the following monitoring wells:

- Monitoring Well G-3 –DRO, 1,2,4-Trimethylbenzene, and 1,3,5-Trimethylbenzene
- Monitoring Well MW16-2 –GRO, 1,2,4-Trimethylbenzene, and 1,3,5-Trimethylbenzene

Representative water samples were also collected from the domestic water systems serving the existing buildings on Lots 1&2, 4, and 5 in Runion Subdivision, and were analyzed for drinking water analyses and DRO. All the domestic drinking water wells were found to have no detectable levels of contaminants of concern.

During this monitoring event, the on-site groundwater remediation system, consisting of a VSC system was inspected to determine its operational condition. The VSC treatment system was found

to be off (in-operative) upon arrival at the site due to an apparent power surge. The VSC system was left off until such time the electrical supply system could be evaluated to determine the cause of the power outages to the VSC compressor.

July 2019. The third quarter 2019 groundwater monitoring event was conducted on July 16, 2019. The monitoring event included measuring depth to groundwater and field intrinsic water quality parameters and collecting and analyzing groundwater samples from Monitoring Wells G-1, G-3, G-5, G-7, and MW16-2. In addition, depth to groundwater was measured at Monitoring Well G-4 and Remediation Well RW16-1 and field intrinsic water quality parameters were measured at Remediation Well RW16-1.

Based on the groundwater depth measurements, the average hydraulic gradient was determined to be flowing to the south at a bearing of 300 degrees with a gradient of 0.011 feet per foot. Groundwater flow direction and gradient were noted to be inconsistent with the historical results for this site. The change in groundwater flow may be a result of elevation changes due to "frost jacking" of the well casings on one or more monitoring wells that were noted during the sampling event. The elevations of the wells will be resurveyed during the 4th quarter monitoring event.

Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeded the GCLs for the following monitoring wells:

- Monitoring Well G-1 –DRO
- Monitoring Well G-3 –DRO
- Monitoring Well MW16-2 –GRO

The VSC groundwater treatment system was found to be off (inoperative) upon arrival at the site due to an apparent power surge. On a subsequent site visit conducted during the week of July 22, the VSC compressor was activated and currently remains operational. On July 25, 2019, Stantec injected a chemox solution consisting of 55 pounds of Klozur One® via a pressurized pump system into the remediation well RW 16-1.

October 2019. The fourth quarter 2019 groundwater monitoring event was conducted on October 17, 2019. The monitoring event included measuring depth to groundwater and field intrinsic water quality parameters and collecting and analyzing groundwater samples from Monitoring Wells G-1, G-3, G-5, G-7, and MW16-2. In addition, depth to groundwater was measured at Monitoring Well G-4.

Based on the groundwater depth measurements, the average hydraulic gradient was determined to be flowing to the southwest at a bearing of 221 degrees with a gradient of 0.022 feet per foot. Groundwater flow direction and gradient were noted to be consistent with the historical results for this site. The elevations of the wells were resurveyed during this monitoring event.

Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeded the GCLs for the following monitoring wells:

- Monitoring Well G-3: DRO
- Monitoring Well MW16-2: 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene

The VSC groundwater treatment system was found to be operating within the normal range of performance with the production of 1 to 2 gallons per minute of recirculated groundwater with an air lift pump in the VSC well. Stantec injected a chemox solution consisting of 55 pounds of Klozur One® via gravity flow into the remediation well RW 16-1.

August 2020. This third quarter 2020 Monitoring Event Report was conducted on August 12, 2020 and included the following tasks: Measuring depth to groundwater, measuring field intrinsic water quality parameters, checking the operation of the in-situ remediation system, and collecting and analyzing groundwater samples from Monitoring Wells G-1, G-3, G-5, MW16-2, and remediation well RW16-1.

Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeded the groundwater cleanup levels (GCLs) for the following monitoring wells:

• Remediation Well RW16-1: Ethylbenzene, xylenes, diesel range organics (DRO), and gasoline range organics (GRO)

Based on the groundwater depth measurements and the elevation survey of the tops of the monitoring wells, the average hydraulic gradient was determined to be flowing to the south-southeast at a bearing of 171 degrees with a gradient of 0.018 feet per foot. Groundwater flow direction and gradient were noted to be consistent with the historical results for this site.

During this monitoring event, the on-site groundwater remediation system, consisting of a vapor stripping and circulation (VSC) system was inspected to determine operational condition. The VSC compressor that operates the air-lift well was not operating due to a recent power outage. The compressor was activated and the flow from the air-lift well was adjusted to provide a constant flow of approximately 1 to 2 gallons per minute of aerated groundwater that is discharged into MW-1 for recirculation.

October 2020. This fourth quarter 2020 Monitoring Event was conducted on October 2, 2020. Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeded the groundwater cleanup levels (GCLs) for the following monitoring well:

• Remediation Well RW16-1: Ethylbenzene, xylenes, diesel range organics (DRO), and gasoline range organics (GRO).

Analytical results by Test Method 545.1 (see **Appendix E**) showed no evidence of contamination for the on-site and nearby drinking water wells serving the following properties: Runion Subdivision Lots 1 and 2, Runion Subdivision Lot 4, and Runion Subdivision Lot 5.

Based on the groundwater depth measurements and the elevation survey of the tops of the monitoring wells, the average hydraulic gradient was determined to be flowing to the south-southwest at a bearing of 191 degrees with a gradient of 0.007 feet per foot. Groundwater flow direction and gradient were noted to be similar with the historical results but slightly lower gradient, as shown on the groundwater flow summary ("rose diagram") presented on Figure 2.

During this monitoring event, the on-site groundwater remediation system, consisting of a vapor stripping and circulation (VSC) system (see Figure 3) was inspected to determine operational condition. The VSC compressor that operates the air-lift well was operational and providing adequate flow upon arrival on site.

On October 27, 2020 Stantec finished the installation and development of two 4-inch diameter chemox injection wells, RW 20-1 and RW 20-2, located north of Remediation Well RW16-1. On November 27, 2020 Stantec conducted the first 2020 injection of a chemox Klozur One® solution into the new chemox injection remediation wells, RW 20-1 and RW 20-2. The installation of the new wells will be described in a technical memorandum that will be submitted to ADEC.

March 2021. This first quarter 2021 monitoring event was conducted on March 31, 2021. Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeded the groundwater cleanup levels (GCLs) for the following monitoring/remediation wells:

- Remediation Well RW 16-1: Ethylbenzene, xylenes, DRO, and GRO. Benzene practical quantitation limits exceeded ADEC groundwater cleanup levels (GCLs).
- Monitoring Well MW 16-2: GRO.

Due to limited data of groundwater elevations in measured wells and their linear positions across the site, the hydraulic gradient and flow direction of the groundwater table could not be calculated for this monitoring event.

During this monitoring event, the on-site groundwater remediation system, consisting of a vapor stripping and circulation (VSC) system (see Figure 3) was inspected to determine operational condition. The VSC compressor that operates the air-lift well was operational but the air-lift well was not checked to determine if the well was discharging to the recirculation/receiving well (MW G-1). The staff noted there was a significant ice plug at the top of MW G-1 which prevented access to the well.

May 2021. This second quarter 2021 monitoring event was conducted on May 18, 2021. Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeded the groundwater cleanup levels (GCLs) for the following monitoring wells:

- Remediation Well RW 16-1: Ethylbenzene, xylenes, diesel range organics (DRO), gasoline range organics (GRO), 1,2,4 trimethylbenzene, and 1,3,5 trimethylbenzene. Benzene practical quantitation limits exceeded ADEC groundwater cleanup levels (GCLs).
- Monitoring Well MW G-3: DRO.
- The naphthalene practical quantitation limits exceeded ADEC groundwater cleanup levels (GCLs) in all of the wells sampled

The hydraulic gradient across the site was found to be approximately 0.020 feet per foot directed toward the south at 182 degrees; however, the hydraulic flow of the groundwater does not take into account the groundwater level in MW G-1 since this well receives influent pumped from the air-lift well described in the following paragraph. The groundwater gradient and flow direction are generally consistent with past monitoring events.

During this monitoring event, the on-site groundwater remediation system, consisting of a vapor stripping and circulation (VSC) system that includes of an air-lift well (see Figure 3), was inspected to determine operational condition. The VSC compressor that operates the air-lift well was operational and observed to be discharging to the recirculation/receiving well (MW G-1). In addition, a chemox injection into the groundwater table via remediation wells RW 20-1 and RW 20-2 was completed during the monitoring event. A total of 220 pounds of Klozur One® and approximately 500 gallons of clean water from the store's water system was injected.

July 2021. Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeded the groundwater cleanup levels (GCLs) for the following monitoring well:

- Monitoring Well G-3: DRO, naphthalene, and both species of trimethylbenzene (TMB).
- Remediation Well RW 16-1: Benzene, ethylbenzene, xylenes, GRO, DRO, and both species of TMB.
- In addition, the RDL for naphthalene in all wells was above the GCL.

The average groundwater gradient across the site was calculated by triangulation to be 0.021 feet per foot to the south-southwest at 207 degrees, as shown in **Figure 3**. This is consistent with historical groundwater gradient and direction of flow data.

During this monitoring event, the on-site groundwater remediation system, consisting of a vapor stripping and circulation (VSC) system (see **Figure 3**) was inspected to determine operational condition. The VSC compressor that operates the air-lift well was not operational due to mechanical failure in one of the fins.

The remediation event on July 21st, 2021, consisted of a total chemical oxidation (chemox) injection of 220 pounds of Klozur[®] One product combined with 110 gallons of potable water from Tesoro store into two treatment points (RW 20-1 and RW 20-2). The solution was further pushed into the formation with an additional 420 gallons of water.

October 2021. Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeded the groundwater cleanup levels (GCLs) for the following monitoring well:

• Remediation Well RW 16-1: Benzene, ethylbenzene, xylenes, GRO, DRO, 1,2,4- and 1,3,5-TMB. In addition, the lab RDL for naphthalene in this well was above the GCL.

Analytical results showed no evidence of VOC or DRO contamination for the on-site and nearby drinking water wells serving the following properties: Runion Subdivision Lots 1 and 2, Runion Subdivision Lot 4, and Runion Subdivision Lot 5.

Earlier this year the compressor for the VSC system seized up and was shut down for several months. In September of this year, Stantec ordered a replacement blower that consisted of a Becker compressor model DT-4.10, 0.6 horsepower. The blower was placed into operation on October 4,

2021 and continues to operate the air-lift well to this date on a continuous basis (24-hours per day). The VSC/air-lift well discharges into MW G-1 at an estimated rate of 1 to 2 gpm.

March 2022. Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeded the groundwater cleanup levels (GCLs) for the following monitoring well:

- Remediation Well RW 16-1: Ethylbenzene, xylenes, gasoline range organics (GRO), diesel range organics (DRO), naphthalene, 1,2,4-Trimethylbenzene (TMB), and 1,3,5-TMB. In addition, the lab's reported detection limit (RDL) for benzene and toluene were above the GCL.
 - A duplicate sample was collected from RW16-1, and confirms the exceedances in ethylbenzene, xylenes, GRO, DRO, naphthalene, 1,2,4-TMB, and 1,3,5-TMB, but concentrations of benzene and toluene in the duplicate sample were below GCLs.

The average groundwater gradient across the site was calculated to be approximately 0.033 feet per foot to the south-southeast at 198 degrees. This is consistent with historical groundwater gradient and direction of flow data.

The on-site groundwater remediation system, consisting of a vapor stripping and circulation (VSC) system was not assessed due to the presence of ice in the receiving well, MW G-1. However, it was noted the VSC compressor that operates the air-lift well was operational upon arriving at the site. The air-lift well typically discharges an approximate flow rate of 1 to 2 gallons per minute (gpm) into MW G-1.

The remediation event on March 24, 2022, consisted of a chemical oxidation (chemox) injection of a total of 110 pounds of Klozur One[®] product mixed with 100 gallons of potable water from Tesoro store into each of the two injection wells (RW 20-1 and RW 20-2). The total amount of 220 pounds of chemox was injected into the groundwater table and an additional several hundred gallons of potable water used to hydraulically "push" the chemox solution into the aquifer.

May 2022. Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeded the groundwater cleanup levels (GCLs) for the following monitoring well:

• Remediation Well RW 16-1: Ethylbenzene, xylenes, gasoline range organics (GRO), diesel range organics (DRO), naphthalene, 1,2,4-Trimethylbenzene (TMB), and 1,3,5-TMB. In addition, the lab's reported detection limit (RDL) for benzene was above the GCL.

The average groundwater gradient across the site was calculated to be approximately 0.011 feet per foot to the west-southwest at 343 degrees. This is further west than historical groundwater gradient and direction of flow data, but is influenced by groundwater elevation data from MW-6, which has not been regularly included in groundwater calculations.

The operation of the on-site groundwater remediation system was assessed during the monitoring event. It was found that the PVC piping used for injecting air into the air-lift well had broken over the winter, making the well inoperable. This was repaired during the monitoring event, and the

blower was restarted at 7.5 psi with water flowing into G-1. Subsequently it was found that the ground surface around the air lift manhole had subsided, creating a pothole in the parking lot. The blower was turned off in June 2022 to ensure it would not exacerbate the subsidence problem.

July 2022: A groundwater monitoring event was conducted on July 19, 2022, and included the following tasks:

- Measured depth to groundwater in wells G-1, G-4, G-5, G-7, RW 16-1, and MW 16-2.
- Measured field intrinsic water quality parameters in groundwater monitoring wells G-1, G-5, G-7, RW 16-1, and MW 16-2.
- Collected and analyzed groundwater samples from Monitoring Wells G-1, G-5, G-7, MW 16-2, former Remediation Well RW 16-1, and a duplicate sample of MW 16-2.

Results of the analytical sampling did not show petroleum hydrocarbon contaminant concentrations exceeding the groundwater cleanup levels (GCLs) in any of the sampled wells. The average groundwater gradient across the site was calculated to be approximately 0.0018 feet per foot to the southwest at 226 degrees. The direction of flow was similar to historical groundwater flow measurements, but the gradient is much less than previous monitoring events. This may be the result of heavy rainfall at the site previous to this monitoring event. The pumping water level of well G-1 was recorded but not included in the groundwater contours because water had collected in the well nearly to the top of the casing.

On July 20, 2022, a remediation event was completed that consisted of a chemical oxidant (chemox) injection of a total of 110 pounds of Klozur One[®] product combined with 100 gallons of potable water from the 7-11 convenience store into each of the two injection wells (RW 20-1 and RW 20-2). The total amount of 220 pounds of chemox was injected into the groundwater table. The chemox solution was hydraulically "pushed" into the formation with additional injection of several hundred gallons of potable water.

The collapsed manhole housing the airlift VSC well was replaced on June 21, and included placing another manhole the same size over remediation well RW 20-1 to facilitate a change in plumbing of the remediation system. On July 5, Stantec installed buried insulated piping from the outlet of the VSC well to discharge on a continuous basis (24 hours per day) into RW 20-1. Flow discharged from the VSC well is split between MW G-1 and RW 20-1. During the chemox injection on July 20, flow into RW 20-1 was estimated at 1 to 2 gpm.

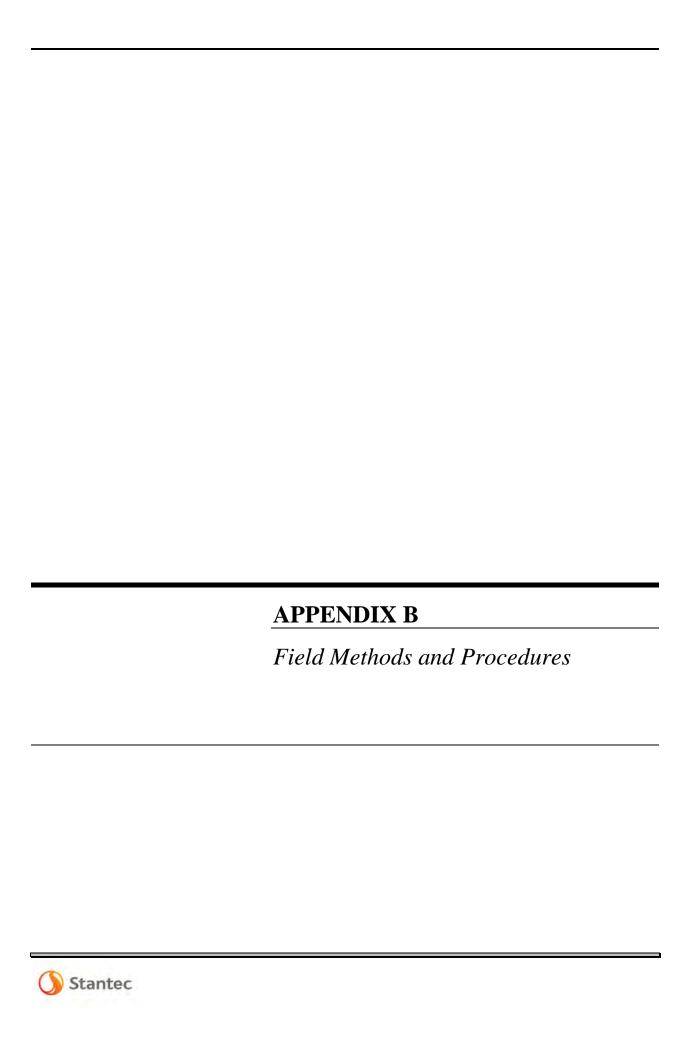
October 2022: The groundwater monitoring event was conducted on October 12, 2022. Results of the analytical sampling completed during this groundwater monitoring event showed no petroleum hydrocarbon contaminant concentrations exceeded the groundwater cleanup levels (GCLs) for the sampled monitoring wells. Wells G-3 and RW 16-2 are historically contaminated and were the only wells in which analytes were detected above laboratory LOQs. In addition, no contaminants of concern were detected by EPA Test Method 524.2 in the drinking water samples collected from the drinking water wells located on Runion Lots 1 and 2, Runion Lot 4, and Runion Lot 5.

The average groundwater gradient across the site was calculated to be approximately 0.0024 feet per foot to the southwest at 232 degrees. The direction of flow was similar to historical

groundwater flow measurements, but the gradient measured in this event and in the 3Q monitoring event are much less than in previous events. This may be the result of heavy rainfall at the site in the second half of the summer. All static water levels were measured with the groundwater recirculation system not running.

On September 28, 2022, a monthly remediation event was completed that involved the injection of a chemical oxidant (chemox). The chemox injection consisted of 110 pounds of Klozur One[®] product combined with 100 gallons of potable water (from the 7-Eleven convenience store) injected by gravity into each of the two injection wells RW 20-1 and RW 20-2. The chemox solution was hydraulically "pushed" into the formation with additional injection of several hundred gallons of potable water into each of the remediation injection wells.

In July 2022, the air lift VSC well was plumbed to split flow between G-1 and RW 20-1. Currently, excess flow from G-1 is diverted to RW 20-1 at a rate of approximately 1.5 gallons per minute. On September 28, the Becker blower which operates the air lift VSC well was taken out of commission for maintenance, including replacement of filters and graphite fins. The blower was re-installed on October 12 after the groundwater monitoring event. It is anticipated that the graphite fins on the blower will need to be replaced every 12 months, depending on the consistency of operation of the blower. During the chemox injection event the new manholes that were installed June 21 of this year were insulated, and the VSC system is expected to be operation through the winter.



APPENDIX B – FIELD METHODS AND PROCEDURES

7-11 Store 46754 (Speedway 5325 – TNS 52)

The following table presents the proposed tasks for the Alaska Department of Environmental Conservation (ADEC) approved 2022 Corrective Action Plan (CAP). The scope of these tasks is based on the results and findings of the monitoring and remediation completed to date at this site.

2022 Work Plan Schedule for 7-11 Store 46754

v	Vork Plan Task 2022	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter
	Monitoring Wells: G-1, G-3, G-5, and G-7	V, G, D, S & I	V, G, D, S, & I	V, G, D, S & I	V, G, D, P, S & I
	RM 16-1 & MW 16-2	V, G, D, P, S & I			
Task 1	Monitoring Wells G-2 and G-4				V, G, D, P, S & I
	Drinking Water Wells serving Lots 1 and 2, Lot 4, and Lot 5 in Runion Subdivision				D & E
Task 2	O&M Air-Lift Well Remediation System	✓	✓	✓	✓
Task 3	Chemical Oxidation Treatment	✓	✓	✓	✓

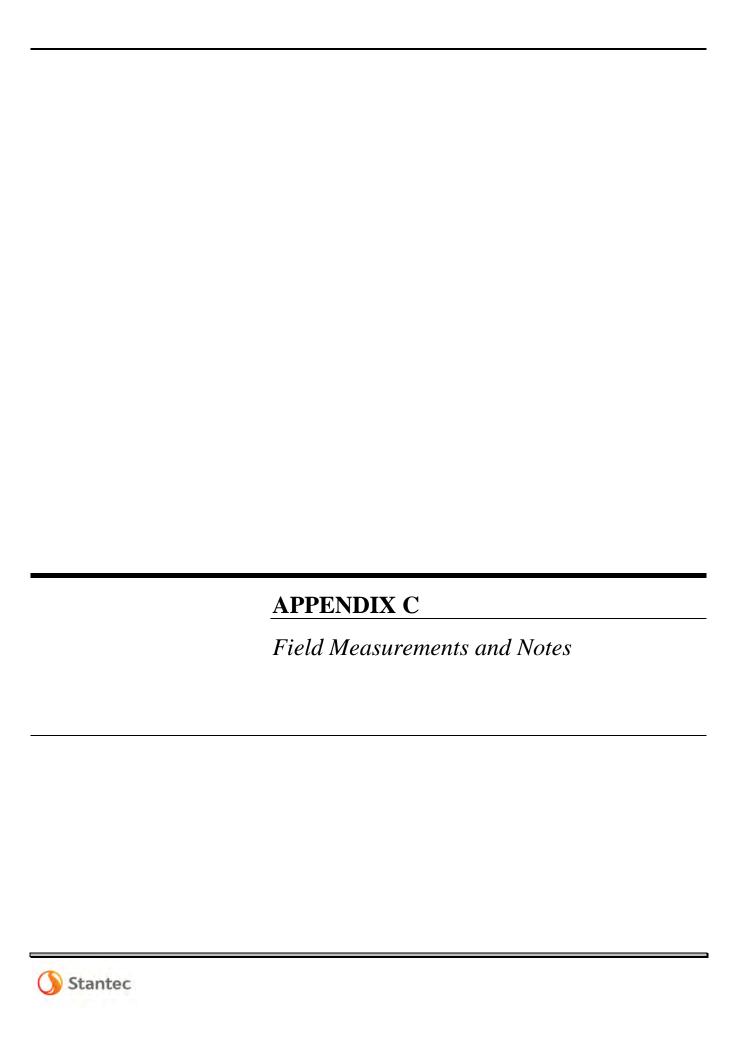
Key:

- AK Alaska Test Method
- D Diesel range organics by AK102.
- E Drinking water parameters by EPA Method 524.1.
- G Gasoline range organics by AK101.
- I Intrinsic indicators include: dissolved oxygen, specific conductance, oxygen-reduction potential, pH, and temperature.
- O&M Operation and Maintenance
- V Volatile organic compounds by EPA Test Method 8260C.
- S Sodium analyzed by Metals (ICP) Method 6010C.
- P Polynuclear aromatic hydrocarbons (PAHs), i.e., semi-volatile organic compounds associated with petroleum fuel, by EPA Test Method 8270D Selective Ion Monitoring (SIM).

The CAP for the year 2022 will be implemented by Stantec on behalf of 7-Eleven. Groundwater monitoring will be conducted to track migration and trends of contaminants that are present at the site. All

sampling activities will be completed in accordance with ADEC's *Underground Storage Tanks Procedures Manual—Standard Sampling Procedures* (March 22, 2017). The methods that will be used for conducting a monitoring event, unless otherwise noted in the monitoring report, will include:

- The static water levels in the monitoring wells will be measured with respect to the top of each well casing. The elevation of the static water level will be based on an arbitrary datum established on-site during a vertical control survey that will be completed by Stantec on an annual basis. The survey will be performed during the summer after the seasonal frost layer thaws.
- The monitoring wells will be purged of a minimum of three well bore volumes prior to collecting the water samples. A new, disposable, Teflon[®] bailer will be used to sample each well. The first bail of water removed from each well will be examined for petroleum odor, sheen, and any other unique physical features.
- Water samples will be collected in laboratory-supplied sample containers. The samples will be delivered to an ADEC-approved laboratory in accordance with standard chain-of-custody procedures.
- Additional water samples will be collected from the monitoring wells after the well has been purged, as described above, and tested in the field for chemical and physical intrinsic parameters listed in the 2022 Work Plan Schedule shown above.





7-Eleven Store #46754 (former Speedway 5325 TNS Site Name: 52)

Date: 10/06/2022	Name(s):
------------------	----------

Well ID	Time of Day	Depth to Product	Depth to Water	Depth to Bottom	Product Thickness	Well Diameter	Well Material	Comment(s) on Condition of Well
G-4	13:01		18.58					
RW16-2	14:06		19.08			İ		
R5								
G-1	13:21		19.09	36.19		4.0	PVC	
G-7	11:54		19.73			2.0	pvc	
G-6	17:55		22.01	45.4				
RW16-1	14:06		19.46					
G-5	12:40		21.51			İ		
R1+2								
G-2	13:21		19.06					
R4						İ		
G-3	14:54		19.03					



7-Eleven Store #46754 (former Date: 10/12/2022, 1:51 PM

Name(s): Remi Malenfant

Speedway 5325 TNS Site Name: 52)

Well ID	Free Product (ft)	Water (ft)	Bottom (ft)	
G-1	N/A	19.09	36.19	
TOC	Well Dia. (in)	Screen Length (ft)	Well Material	
99.29	4.0		PVC	
Latitude (decimal)		Longitude (decimal)	Weather	
61.582	21862902	-149.630815567		

Type/Model Meter Used:					
Calibrated: (date) (time)					
Cell Vol:					
Type/Model Pump	Used:				
Pump Intake?ft					
Above / Below	Botto	om / TOC			

Analytical Parameters	Bottles to be filled
BTEX	3 X 40 mL Amber VOAs √
DRO	2 X 100 mL Amber Glass ✓
GRO	3 X 40 mL Amber VOAs ✓
PAH	2 X 40 mL Amber VOAs ✓
Sodium	1 X 250 mL Poly ✓







Purge water disposal: Pour on ground

Time	Depth to Water (ft)	Flow Rate (ml/Min)	р	Н		ıctivity /cm)		oidity TU)	Dissol (m		mp. sius)		
13:21	19.09	\times	Reading	Change* (±0.1)	Reading	Change* (±3%)	Reading	Change* (±10% or <5)	Reading	Change* (±10% or <0.5)	Change* (±3%)	Reading	Change (±10mv

Sample Collected:	163	- I III -	13.31	-	rotal Fumped from Well!	 Gai	
NOTES / COMMENTS	:						



Above / Below

7-Eleven Store #46754 (former Speedway 5325 TNS

Bottom / TOC

Date:	10/06/2022	Name(s):	

	<u>/</u>					
	Free Product (ft)	Water (ft)	Bottom (ft)	Analytical Parameters	Bottles to be filled	
G-2	N/A	19.06		N/A		
TOC	Well Dia. (in)	Screen Length (ft)	Well Material	1		
99.25				1		
Latitud	de (decimal)	Longitude (decimal)	Weather	1		
61.582	22805547	-149.630865699]		
Type/N	Model Meter U	sed:				
Calibrated: (date) (time)						
Cell V	ol:					
Type/N	Model Pump U	sed:				
Pump	Intake?	ft				

Time	Depth to Water (ft)	Flow Rate (ml/Min)	р	Н		ıctivity /cm)	Turb (N	idity ΓU)	Dissol (m	ved O2 g/l)		mp. sius)	Redu Potentia	rgen iction al (ORP) iv
13:21	19.06	\times	Reading	Change* (±0.1)	Reading	Change* (±3%)	Reading	Change* (±10% or <5)		Change* (±10% or <0.5)	Reading	Change* (±3%)	Reading	Change (±10mv

Sample Collected?	No	Time	Total Pumped from Well?	0.0	L
NOTES / COMMENTS	:				

^{*}Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.

7-Eleven Store

Date: 10/12/2022, 5:31 PM

Name(s): Remi Malenfant

	#40/04 (10)	mer	
	Speedway	5325	TNS
Site Name:	52)		

Well ID	Free Product (ft)	Water (ft)	Bottom (ft)
G-3	N/A	19.03	
TOC	Well Dia. (in)	Screen Length (ft)	Well Material
99.13			
Latitud	de (decimal)	Longitude (decimal)	Weather
61.582	20198468	-149.630777474	

Type/Model Meter Us	sed:			
Calibrated: (date)	(time)			
Cell Vol:				
Type/Model Pump U	sed:			
Pump Intake?	ft			
Above / Below	Bottom / TOC			

Analytical Parameters	Bottles to be filled
Sodium	1 X 250 mL Poly ✔
PAH	2 X 40 mL Amber VOAs √
GRO	3 X 40 mL Amber VOAs ✓
BTEX	3 X 40 mL Amber VOAs √
DRO	2 X 100 mL Amber Glass ✓



Time	Depth to Water (ft)	Flow Rate (ml/Min)	р	ιH	Condu (ms	ıctivity /cm)		oidity TU)		ved O2 g/l)	Tei (Cel:	mp. sius)	Redu Potentia	gen Iction al (ORP) Iv
14:54	19.03	\times	Reading	Change* (±0.1)	Reading	Change* (±3%)	Reading	Change* (±10% or <5)		Change* (±10% or <0.5)	Reading	Change* (±3%)	Reading	Change* (±10mv)
Sample C	ollected?	Yes		1	Time	17:31	_	I	1	Total Pum	ped from	Well?	0	_Gal

NOTES / COMMENTS:

*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.



Above / Below

7-Eleven Store
#46754 (former
Speedway 5325 TNS
= 0\

Bottom / TOC

Date:	10/06/2022	Name(s):

Site Name: 52)

Well ID	Free Product (ft)	Water (ft)	Bottom (ft)	Analytical Parameters	Bottles to be filled
G-4	N/A	18.58		N/A	
TOC	Well Dia. (in)	Screen Length (ft)	Well Material]	
98.29]	
Latitud	de (decimal)	Longitude (decimal)	Weather]	
61.5817561273 -149.631357438]			
Type/N	Model Meter U	sed:			
Calibra	ated: (date)	(time)			
Cell Vol:					
Type/N	Model Pump U	sed:			
Pump	Intake?	ft			

Time	Depth to Water (ft)	Flow Rate (ml/Min)	р	Н	Condu (ms	ıctivity /cm)	Turb (N	idity ΓU)		ved O2 g/l)	Ter (Cel:	np. sius)	Redu	rgen Iction al (ORP) IV
13:01	18.58	\times	Reading	Change* (±0.1)	Reading	Change* (±3%)	Reading	Change* (±10% or <5)	Reading	Change* (±10% or <0.5)	Reading	Change* (±3%)	Reading	Change* (±10mv)

Sample Collected?	No	Time	Total Pumped from Well?	0.0	L
NOTES / COMMENTS:					

*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.



tore Date: <u>10/12/2022, 1:00 PM</u>

Name(s): Remi Malenfant

		Speedway	5325	TNS
Site	Name:	52)		

Well ID	Free Product (ft)	Water (ft)	Bottom (ft)
G-5	N/A	21.51	
TOC	Well Dia. (in)	Screen Length (ft)	Well Material
101.44			
Latitude (decimal)		Longitude (decimal)	Weather
61.5817	788987	-149.630862504	

Type/Model Meter Used:	
Calibrated: (date)	(time)
Cell Vol:	
Type/Model Pump Used:	
Pump Intake?	ft
Above / Below Bott	om / TOC

	ytical meters	Bottles to be filled
PAH		2 X 40 mL Amber VOAs ✓
BTE	K	3 X 40 mL Amber VOAs ✓
DRO	ı	2 X 100 mL Amber Glass ✓
GRO	1	3 X 40 mL Amber VOAs ✓
Sodiu	um	1 X 250 mL Poly ✔







Time	Depth to Water (ft)	Flow Rate (ml/Min)	р	Н	Condu (ms	ıctivity /cm)	Turk (N	oidity FU)		ved O2 g/l)	Tei (Cel:	mp. sius)	Redu Potentia	gen al (ORP)
12:40	21.51	\times	Reading	Change* (±0.1)	Reading	Change* (±3%)	Reading	Change* (±10% or <5)	Reading	Change* (±10% or <0.5)	Reading	Change* (±3%)	Reading	Change* (±10mv)

Sample Collected?	Yes	Time	13:00	Total Pumped from Well?	0	Gal
NOTES / COMMENTS:						



7-Eleven Store S Date: 10/12/2022, 5:55 PM

Name(s): Remi Malenfant

	#46754 (former
	Speedway 5325 TNS
Site Name:	52)

Well ID	Free Product (ft)	Water (ft)	Bottom (ft)		
G-6	N/A	22.01	45.4		
TOC	Well Dia. (in)	Screen Length (ft)	Well Material		
102.32					
Latitude	e (decimal)	Longitude (decimal)	Weather		
61.5819	9442171	-149.630053558			

Analytical Bottles to be filled **Parameters** Sodium 1 X 250 mL Poly 🗸 GRO 3 X 40 mL Amber VOAs **√** DRO 2 X 100 mL Amber Glass ✓ 2 X 40 mL Amber PAH VOAs **√** 3 X 40 mL Amber BTEX VOAs **√**

QA/QC: Duplicate #2

Type/Model Meter Used:								
Calibrated: (date)	(time)							
Cell Vol:								
Type/Model Pump Used:								
Pump Intake?	ft							
Above / Below Botto	om / TOC							

Time	Depth to Water (ft)	Flow Rate (ml/Min)	р	Н	Condu (ms		Turb (N	oidity FU)	Dissol (m	ved O2 g/l)	Tei (Cel:	mp. sius)	Redu Potentia	gen al (ORP)
17:55	22.01	\times	Reading	Change* (±0.1)	Reading	Change* (±3%)	Reading	Change* (±10% or <5)		Change* (±10% or <0.5)	Reading	Change* (±3%)	Reading	Change* (±10mv)
Sample C	ollected?	Yes		I	Time	17:55	_	l		Total Pum	ped from	Well?	0	_Gal

NOTES / COMMENTS:			

*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.



7-Eleven Store

Date: 10/17/2022, 8:24 AM

Name(s): Remi Malenfant

	#46754 (to	rmer	
	Speedway	5325	TNS
Site Name:	52)		

Well Free ID Product (ft)) Water (ft)	Bottom (ft)	Analytical Parameters	Bottles to be filled	
G-7 N/A	19.73		PAH	2 X 40 mL Amber VOAs ✓	
TOC Well Dia. (ir	n) Screen Length (ft)	Well Material	BTEX	3 X 40 mL Amber	
99.42 2.0		pvc		VOAs √	
Latitude (decimal)	Longitude (decimal)	Weather	GRO	3 X 40 mL Amber	
61.581454289	-149.631059783		T	VOAs √	
Type/Model Meter Used:			DRO	2 X 100 mL Amber Glass ✓	
Calibrated: (date) _	(time)		Sodium	1 X 250 mL Poly ✔	

Type/Model Meter Used:	DRO	2 X 10 Glass
Calibrated: (date) (time)	Sodium	4 1/ 05
Cell Vol:	Sodium	1 X 25
Type/Model Pump Used:		
Pump Intake? ft		
Above / Below Bottom / TOC		

, 10010 /	20.011	Dottom	,										
Time	Depth to Water (ft)	Flow Rate (ml/Min)	р	Н	Condu (ms	ıctivity /cm)	Turk (N	oidity TU)	ved O2	Ter (Cels	np. sius)	Redu Potentia	rgen liction al (ORP)
11:54	19.73	\times	Reading	Change* (±0.1)	Reading	Change* (±3%)	Reading	Change* (±10% or <5)	Change* (±10% or <0.5)	Reading	Change* (±3%)	Reading	Change (±10mv

Sample Collected?	Yes	Time	08:24	Total Pumped from Well?	0	Gal
NOTES / COMMENTS:	:					

*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.



Date: <u>10/12/2022, 12:40 PM</u> Name(s): <u>Remi Malenfant</u>

	Speedway 5325 TNS
Site Name:	52)

Well ID	Free Product (ft)	Water (ft)	Bottom (ft)	Analytical Parameters	Bottles to be filled	
R1+2	()		()	DRO	2 X 100 mL Amber Glass ✓	
TOC	Well Dia. (in)	Screen Length (ft)	Well Material	VOCs (PCE &	3 X 40 mL Clear	
				TCE, only)	VOAs ✓	
Latitud	de (decimal)	Longitude (decimal)	Weather			
Type/I	Model Meter U	sed:				
Calibra	ated: (date)	(time)				
Cell V	ol:					
Type/N	Model Pump U	sed:				
Pump	Intake?	ft				
Above	/ Below	Bottom / TOC			•	

Time	Depth to Water (ft)	Flow Rate (ml/Min)	р	Н	Condu (ms.	ıctivity /cm)	Turbidity (NTU)		Dissolved O2 (mg/l)		Temp. (Celsius)		Oxygen Reduction Potential (ORP) mv	
		\times	Reading	Change* (±0.1)	Reading	Change* (±3%)	Reading	Change* (±10% or <5)		Change* (±10% or <0.5)	Reading	Change* (±3%)	Reading	Change (±10mv)

Sample Collected?	Yes	Time	12:40	Total Pumped from Well?	0	Gal
NOTES / COMMENTS:						

^{*}Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.



Date: 10/12/2022, 12:11 PM Name(s): Remi Malenfant

	opodanaj	00_0	
Site Name:	52)		

Well ID	Free Product (ft)	Water (ft)	Bottom (ft)	Analytical Parameters	Bottles to be filled
R4	N/A			DRO	2 X 100 mL Amber Glass ✓
TOC	Well Dia. (in)	Screen Length (ft)	Well Material	VOCs (PCE &	3 X 40 mL Clear
				TCE, only)	VOAs √
Latitu	ıde (decimal)	Longitude (decimal)	Weather		
Type/	/Model Meter U	lsed:			
Calib	rated: (date)	(time)			
Cell \	/ol:				
	Model Pump U	Ised:			
Pump	Intake?	ft			
Above	e / Below	Bottom / TOC		•	

Time	Depth to Water (ft)	Flow Rate (ml/Min)	р	Н	Condu (ms/	ıctivity /cm)		idity ΓU)	Dissol (m	ved O2 g/l)	Tei (Cel:	mp. sius)	Redu Potentia	rgen action al (ORP) av
		\times	Reading	Change* (±0.1)	Reading	Change* (±3%)	Reading	Change* (±10% or <5)		Change* (±10% or <0.5)	Reading	Change* (±3%)	Reading	Change (±10mv)

Sample Collected?	Yes	Time	12:11	Total Pumped from Well?	0	Gal
NOTES / COMMENTS:						

^{*}Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.



Date: 10/12/2022, 12:30 PM Name(s): Remi Malenfant

	opecanay	0020	
Site Name:	52)		

ID	Free Product (ft)	Water (ft)	Bottom (ft)	Analytical Parameters DRO	Bottles to be filled
R5	N/A			JIDRO	Glass ✓
TOC	Well Dia. (in)	Screen Length (ft)	Well Material	VOCs (PCE &	3 X 40 mL Clear
				TCE, only)	VOAs ✓
Latitu	ıde (decimal)	Longitude (decimal)	Weather		
Type	/Model Meter U	Jsed:			
Calib	rated: (date)	(time)			
Cell \	/ol:		_		
Type	/Model Pump L	Jsed:			
Pump	Intake?	ft			
Ahov	e / Below	Bottom / TOC			

Time	Depth to Water (ft)	Flow Rate (ml/Min)	р	Н	Condu (ms/	ıctivity /cm)		idity ΓU)	Dissol (m	ved O2 g/l)	Tei (Cel:	mp. sius)	Redu Potentia	rgen action al (ORP) av
		\times	Reading	Change* (±0.1)	Reading	Change* (±3%)	Reading	Change* (±10% or <5)		Change* (±10% or <0.5)	Reading	Change* (±3%)	Reading	Change (±10mv)

Sample Collected?	Yes	Time	12:30	Total Pumped from Well?	0	Gal
NOTES / COMMENTS	:					

^{*}Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.



7-Eleven Store #46754 (former Date: 10/12/2022, 2:18 PM

Name(s): Remi Malenfant

	#40734 (10	IIIIei	
	Speedway	5325	TNS
Site Name:	52)		

Well ID	Free Product (ft)	Water (ft)	Bottom (ft)
RW16-1	N/A	19.46	
TOC	Well Dia. (in)	Screen Length (ft)	Well Material
99.44			
Latitude (decimal)		Longitude (decimal)	Weather
61.58219	994	-149.6309133	

Analytical Bottles to be filled **Parameters** Sodium 1 X 250 mL Poly 🗸 BTEX 3 X 40 mL Amber VOAs **√** PAH 2 X 40 mL Amber VOAs **√** 3 X 40 mL Amber GRO VOAs **√** DRO 2 X 100 mL Amber Glass ✓

QA/QC: Duplicate #1

Type/Model Meter Used:							
Calibrated: (date)	(time)						
Cell Vol:							
Type/Model Pump Used:	Type/Model Pump Used:						
Pump Intake?	ft						
Above / Below Botton	n / TOC						

Time	Depth to Water (ft)	Flow Rate (ml/Min)	р	Н	Condu (ms/	ıctivity /cm)	Turb (N	idity ΓU)		ved O2 g/l)	Tei (Cel:	mp. sius)	Redu	gen action al (ORP)
14:06	19.46	\times	Reading	Change* (±0.1)	Reading	Change* (±3%)	Reading	Change* (±10% or <5)	Reading	Change* (±10% or <0.5)	Reading	Change* (±3%)	Reading	Change* (±10mv)

*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.



Date: 10/12/2022, 3:02 PM

Name(s): Remi Malenfant

	Speedway	5325	TNS
Site Name:	52)		

Well ID	Free Product (ft)	Water (ft)	Bottom (ft)
RW16-2	N/A	19.08	
TOC	Well Dia. (in)	Screen Length (ft)	Well Material
99.2			
Latitude (decimal)		Longitude (decimal)	Weather
61.58216	668	-149.6308637	

Analytical Parameters	Bottles to be filled	
DRO	2 X 100 mL Amber Glass ✓	
BTEX	3 X 40 mL Amber VOAs ✓	
PAH	2 X 40 mL Amber VOAs •	
Sodium	1 X 250 mL Poly ✔	
GRO	3 X 40 mL Amber VOAs ✓	QA/QC: Duplicate #1

Type/Model Meter Used: ______ (time) _____ (time) _____ Cell Vol: _____ ft

Pump Intake? _____ ft

Above / Below Bottom / TOC

Time	Depth to Water (ft)	Flow Rate (ml/Min)	р	Н	Condu (ms/	ıctivity /cm)	Turk (N	oidity TU)	ved O2 g/l)	Ter (Cel:	np. sius)	Redu Potentia	gen ection al (ORP)
14:06	19.08	X	Reading	Change* (±0.1)	Reading	Change* (±3%)	Reading	Change* (±10% or <5)	Change* (±10% or <0.5)	Reading	Change* (±3%)	Reading	Change* (±10mv)

Sample Collected?	Yes	Time	15:02	Total Pumped from Well?	0	Gal
NOTES / COMMENTS:						

*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.



7-Eleven Store #46754 (former Speedway 5325 TNS Site Name: 52)

Date: 10/12/2022, 1:51 PM

Name(s): Remi Malenfant

Location ID	GPS Latitude (decimal)		GPS Longitude (decimal)	
G-1	61.5821862902		-149.630815567	
Field Data				
Sampler Names:		Sheen	Odor?:	
pH: 6.63		Specifi	c Conductance: 134.4	
DO: 0.92		Tempe	rature (C): 7.8	
ORP: 231		Purge	Volume (gal): 5	
Notes: Dark brown	n sediment			





7-Eleven Store #46754 (former Speedway 5325 TNS Site Name: 52)

Name(s):	
----------	--

Location ID	GPS Latitude (decima	l)	GPS Longitude (decimal)
G-2	61.5822805547		-149.630865699
Field Data			
Sampler Names:		Sheen/Odor?	:
pH:		Specific Cond	luctance:
DO:		Temperature	(C):
ORP:		Purge Volume	e (gal):
Notes:			

Date: 10/06/2022

Date: 10/12/2022, 5:31 PM

Name(s): Remi Malenfant

Location ID	GPS Latitude (decimal)	GPS Longitude (decimal)
G-3	61.5820198468	-149.630777474
Field Data		
Sampler Names	: Jm, rm, bg	Sheen/Odor?:
pH: 6.91		Specific Conductance: 223.2
DO: 7.35		Temperature (C): 10
ORP: 371.7		Purge Volume (gal): 28
Notes: Light grey	y brown	





7-Eleven Store #46754 (former Speedway 5325 TNS Site Name: 52) Date: 10/06/2022 Name(s):

Location ID	GPS Latitude (decimal)		GPS Longitude (decimal)	
G-4	61.5817561273		-149.631357438	
Field Data				
Sampler Names:	Sheen/Odor?			
pH:	Specific Cond		uctance:	
DO:	Temperature		(C):	
ORP:	Purge Volum		gal):	
Notes:				

Store Date: <u>10/12/2022</u>, 1:00 PM

Name(s): Remi Malenfant

Location ID	GPS Latitude (decimal)		GPS Longitude (decimal)	
G-5	61.581788987		-149.630862504	
Field Data				
Sampler Names:	Jm, rm	Sheen/O	dor?:	
pH: 6.17		Specific C	Conductance: 208	
DO: 5.96		Temperat	ture (C): 10.5	
ORP: 197.3		Purge Vo	lume (gal): 3.5	
Notes:				







Date: 10/12/2022, 5:55 PM

Name(s): Remi Malenfant

Location ID	GPS Latitude (decimal)		GPS Longitude (decimal)	
G-6	61.5819442171		-149.630053558	
Field Data				
Sampler Names:	Sheen/Odor?		•	
pH:	Specific Cond		luctance:	
DO:	Temperature		(C):	
ORP:	Purge Volum		e (gal):	
Notes:				



Date: 10/17/2022, 8:24 AM

Name(s): Remi Malenfant

Location ID	GPS Latitude (decimal)		GPS Longitude (decimal)	
G-7	61.581454289		-149.631059783	
Field Data				
Sampler Names: I	Rm, jm	Sheen/Odd	or?:	
pH: 5.38	Specific C		onductance: 225.9	
DO: 7.54	OO: 7.54 Temperatu		ıre (C): 11.4	
ORP: 228.2 Purge Volu		ume (gal): 3.5		
Notes:				

Date: 10/12/2022, 12:40 PM

Name(s): Remi Malenfant

Site Name:	52)

Location ID	GPS Latitude (deci	mal)	GPS Longitude (decimal)	
R1+2				
Field Data				
Sampler Names:		Sheen/Odor?	:	
pH:	Specific Cond		pecific Conductance:	
DO:	Temperature		(C):	
ORP:	Purge Volume		e (gal):	
Notes:				

Date: 10/12/2022, 12:11 PM

Name(s): Remi Malenfant

Location ID	GPS Latitude (decima	1)	GPS Longitude (decimal)	
R4				
Field Data				
Sampler Names:	Sheen/Odor?			
pH:		Specific Cond	pecific Conductance:	
DO:	Temperature		(C):	
ORP:	Purge Volume		gal):	
Notes:				



Date: 10/12/2022, 12:30 PM

Name(s): Remi Malenfant

Site	Name:	52)

Location ID	GPS Latitude (decima)	GPS Longitude (decimal)	
R5				
Field Data				
Sampler Names:		Sheen/Odor?:		
pH:	Specific Cond		uctance:	
DO:	Temperature		(C):	
ORP:	Purge Volume		gal):	
Notes:				



Date: 10/12/2022, 2:18 PM

Name(s): Remi Malenfant

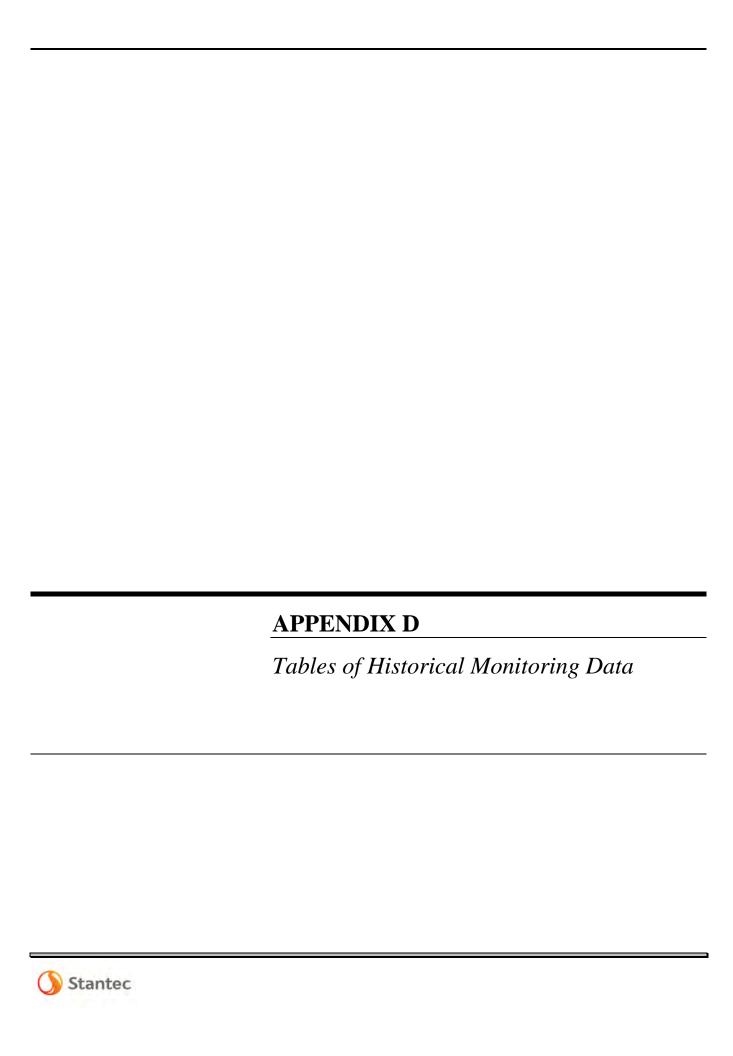
Location ID	GPS Latitude (decimal)		GPS Longitude (decimal)	
RW16-1	61.5821994		-149.6309133	
Field Data				
Sampler Names:	JM/RM	Sheen/Odd	or?: N/N	
pH: 6.54	Specific C		onductance: 364.4	
DO: 7.2	Temperatu		re (C): 8.1	
ORP: 281.9	Purge Vol		ıme (gal): 3.5	
Notes:				



Date: 10/12/2022, 3:02 PM

Name(s): Remi Malenfant

Location ID	GPS Latitude (decimal)		GPS Longitude (decimal)	
RW16-2	61.5821668		-149.6308637	
Field Data				
Sampler Names: J	JM/RM	Sheen/Odd	or?: N/N	
pH: 6.52		Specific Co	onductance: 224.8	
DO: 8.07		Temperatu	re (C): 9.2	
ORP: 296.8		Purge Volu	ıme (gal): 3	
Notes:				



en Store #46754 (former Speedv en - Paula Sime W Parks Hwy a, Alaska 99623	, and an area of the second se	325 TNS	'/ 6	2. MR 8. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	84	ollo ollo ollo ollo ollo ollo ollo oll		Who were		Sol	olium V	ou vi) au
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
GW Human Health Cleanup			<u>0.056</u>	0.06	0.0046	<u>1.5</u>	<u>0.015</u>	2.2	0.0017		1.1	0.19	
G-1													I
04/24/1997 09/03/1997			_	_	3.7 0.001	11 12	<u>12</u> <u>5.2</u>	<u>170</u>	-	_	<u>28</u>	<u>64</u>	I
12/29/1997				_	0.001 0.042	3.3	<u>5.2</u> 1.5	<u>85</u> <u>34</u>	-	_	12	41 9.3	I
04/23/1998			_	_	0.13	8.3	4.1	9 <u>1</u>	_		3.9	<u>3.3</u>	I
08/03/1998			_	_	0.14	<u>12</u>	3	<u>76</u>	_	_	3.1	<u>19</u>	I
11/02/1998			_	_	0.121	<u>5.58</u>	<u>4.76</u>	<u>70</u>	_	_	4.59	27.12	I
02/12/1999			_	_	0.001	<u>19</u>	4	91	_	_	<u>5.4</u>	24	I
08/30/1999			_	_	0.001	<u>10</u>	<u>5.6</u>	<u>190</u>	_	_	3.1	<u>36</u>	I
10/29/1999			_	_	0.001	0.45	0.035	0.89	_	_	0.026	0.21	I
02/08/2000			_	_	0.001		4.4	<u>10</u>	_	_	<u>3.3</u>	<u>26</u>	I
06/08/2000			_	_	0.001	0.33	<u>0.11</u>	<u>2.3</u>	_	_	0.051	<u>0.61</u>	I
08/30/2000			—I	_	0.001	0.57	<u>0.92</u>	<u>19</u>	I	_	0.5	<u>5</u>	I
11/30/2000			_	_	0.001	<u>1.9</u>	<u>2.3</u>	<u>42</u>	-	_	<u>1.2</u>	<u>11</u>	I
02/05/2001			_	_	0.001	<u>5.2</u>	<u>4.7</u>	<u>94</u>		_	<u>3.4</u>	<u>25</u>	I
05/10/2001			-	_	0.001	<u>1.9</u>	<u>2.62</u>	<u>41.1</u>	-	_	0.967	<u>15.36</u>	I
08/16/2001			_	_	0.013	1.99	0.652	14.3	-	_	0.401	<u>6.18</u>	I
11/09/2001			_	_	0.013	3.16	1.75	<u>25.4</u>	-	_	0.608	9.55	I
02/15/2002			_	_	<u>0.036</u>	<u>3.66</u>	3.64 9.94	<u>66.1</u>	-	_	2.82 5.52	<u>21.59</u>	I
05/30/2002 08/14/2002			-	_	0.001 0.048	<u>92.6</u> 11.2	9.94 6.15	<u>113</u> 99.6	_	_	<u>5.52</u> 2.13	<u>51.8</u> <u>37.27</u>	I
11/14/2002				_	0.053	1.51	5.37	<u>99.6</u> 105	_	_	2.13 2.35	<u>27.17</u>	I
01/28/2003			_	_	U (0.025)	3.83	<u>1.04</u>	<u>103</u> 24.8	_	_	0.462	7.55	I
04/17/2003			_	_	0.217	4.7	4.55	<u>117</u>	_	_	1.15	26.9	I
07/17/2003			_	_	U (0.05)	8.34	6	<u>104</u>	_	_	1.81	<u>35.6</u>	I
10/02/2003			_	_	0.184	U (0.32)	<u>5.34</u>	137	_	_	1.84	33.4	I
01/20/2004			_	_	U (0.2)	10.6	<u>5.9</u>	100	_	_	2.46	34.8	I
04/13/2004			_	_	U (0.1)	<u>6.97</u>	6.37	<u>109</u>	_	_	1.49	<u>37.5</u>	I
07/20/2004			_	_	U (0.25)	8.09	2.67	87.1	_	_	0.612	26.2	I
09/02/2004			_	_	U (0.05)	<u>4.94</u>	<u>2.6</u>	<u>48.5</u>	l	_	0.38	<u>18.4</u>	I
10/13/2004			_	_	U (0.005)	<u>1.9</u>	0.232	<u>5.98</u>	_	_	0.615	<u>1.87</u>	I
01/28/2005			_	_	U (0.0005)	0.818	<u>0.0843</u>	2.08	_	_	0.121	0.582	İ
04/11/2005			_	_	U (0.0005)	0.78	0.0374	0.963	-	_	0.069	<u>0.306</u>	1
08/12/2005			-	_	U (0.0005)	0.528	U (0.0005)	U (0.05)	-	_	U (0.0005)	0.0031	İ
				_	U (0.0005)	U (0.397)	0.0082	0.24	— I	_	0.0103	0.0713	ı
10/07/2005			_		,		انتمم						1
02/14/2006			_	_	U (0.0005)	0.676	0.0041	0.141	-	_	0.00831	0.0482	
02/14/2006 04/18/2006			_ _	=	U (0.0005) <u>0.0147</u>	0.676 <u>8.37</u>	0.962	<u>24.8</u>	_	_	0.0874	<u>6.64</u>	
02/14/2006			_	_	U (0.0005)	0.676 8.37 U (0.394)							

		en Inte	Wafer El				/ /	Sey.	′ /	9/0	/ /	
T	, S	S. S. S. S. S. S. S. S. S. S. S. S. S. S	52) 1010 1010 1010 1010 1010 1010 1010 10	35.		900		all beneath				all all all all all all all all all all
Unit CW Human Haalth Claanum	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
GW Human Health Cleanup			<u>0.056</u>	<u>0.06</u>	0.0046	1.5	0.015	2.2	<u>0.0017</u>		<u>1.1</u>	0.19
04/19/2007			-	_	U (0.0005)	0.894	0.13	4.12	-	_	0.165	<u>1.12</u>
08/07/2007			-	_	U (0.0005)	0.582	0.0392	0.891	-	_	0.0536	0.277
10/23/2007			-	_	U (0.0005)	U (0.424)	U (0.0005)	U (0.05)	-	_	U (0.0005)	0.00566
02/22/2008			-	-	U (0.0005)	0.479	0.00712	0.229	-		0.0129	0.068
04/15/2008			-	_	U (0.0005)	0.667	0.0137	0.45	-	_	0.0247	0.116
08/27/2008			-	-	U (0.0005)	U (0.4)	0.00397	0.172	-	_	0.00662	0.0477
10/22/2008			-1	_	U (0.0005)	U (0.427)	0.0226	0.742	-	_	0.032	0.255
02/05/2009			-	_	U (0.0005)	U (0.463)	U (0.0005)	U (0.05)	-	_	U (0.0005)	U (0.0015)
04/08/2009			-	_	U (0.0005)	U (0.424)	U (0.0005)	U (0.05)	-	_	U (0.0005)	0.0021
07/09/2009			-	_	U (0.0005)	U (0.397)	U (0.001)	0.106	-	_	0.00137	0.0188
11/04/2009			-	_	U (0.0005)	U (0.403)	0.00624	0.271	-	_	0.00856	0.0639
01/27/2010			-	_	U (0.0005)	0.844	U (0.001)	0.0757	-	_	0.00123	0.0168
05/27/2010			-	_	U (0.0005)	0.538	0.0117	0.257	-	_	0.0114	0.0923
08/19/2010			-	_	U (0.0005)	U (0.455)	0.000537	0.184	-	_	U (0.0005)	0.0189
10/26/2010			-	_	U (0.0005)	0.993	0.00443	0.181	-	_	0.00441	0.0574
02/17/2011			-	_	U (0.0005)	0.491	U (0.0005)	U (0.05)	-	_	U (0.0005)	U (0.0015)
06/09/2011			-	_	U (0.0005)	0.635	0.000945	0.143	-	_	0.000913	0.0425
09/20/2011			-	_	U (0.0005)	U (0.431)	U (0.0005)	U (0.05)	-	_	U (0.0005)	0.00236
10/21/2011			-	_	U (0.0005)	U (0.417)	<u>0.0565</u>	0.851	-	_	0.0121	<u>0.345</u>
02/17/2012			-	_	U (0.0005)	0.712	0.00235	0.0787	-	_	0.00128	0.041
05/17/2012				_	U (0.0005)	0.596	<u>0.025</u>	0.941	_	_	0.00572	<u>0.339</u>
09/05/2012			-	_	U (0.0005)	U (0.424)	0.0139	0.404	-		0.00468	0.145
10/30/2012			-	_	U (0.0005)	U (0.439)	U (0.0005)	U (0.05)	-	_	U (0.0005)	U (0.0015)
01/30/2013			-	_	U (0.0005)	0.461	U (0.0005)	U (0.05)	-	_	U (0.0005)	U (0.0015)
05/10/2013			-	_	U (0.0005)	U (0.424)	0.014	0.248	-	_	0.00067	0.166
10/11/2013			-	_ _ _	U (0.0005)	U (0.431)	U (0.0005)	U (0.05)	-	_	U (0.0005)	U (0.0015)
12/11/2013			-1	_	U (0.0005)	U (0.403)	U (0.001)	U (0.05)	-		U (0.001)	U (0.003)
02/19/2014			-		U (0.0005)	U (0.403)	U (0.0005)	U (0.05)	-		0.000667	0.00281
05/01/2014			-1	_	U (0.0005)	U (0.41)	0.0038	0.11	-	_	U (0.001)	0.028
10/30/2014			-	_ _ _	U (0.0005)	U (0.41)	U (0.0005)	U (0.05)	-	_	U (0.0005)	U (0.0015)
05/15/2015			-	_	U (0.002)	0.34	U (0.003)	U (0.05)	-	_	U (0.002)	U (0.002)
09/02/2015			-	_	U (0.0002)	U (0.40)	U (0.001)	0.15	-	_	U (0.001)	U (0.003)
11/12/2015			-	_	U (0.0020)	0.63		U (0.050)		_	U (0.0020)	U (0.0020)
01/28/2016			-		U (0.0020)	0.88	U (0.0030)	U (0.050)	—	_	U (0.0020)	U (0.0020)
05/09/2016			-	_	U (0.0002)	U (0.41)	U (0.001)	U (0.1)	_	_	U (0.001)	U (0.003)
10/24/2016			-1	_	U (0.0002)	U (0.41)	U (0.001)	U (0.1)		_	U (0.001)	U (0.003)
12/09/2016			-1	_	Ú (0.002)	U (0.11)	U (0.003)	U (0.05)	_	_	U (0.002)	U (0.003)
04/25/2017			-1	_	U (0.0002)	`0.99	U (0.003)	U (1.0)	_	_	U (0.002)	U (0.002)
10/20/2017			_	_	Ú (0.002)	1.4	U (0.003)	U (1.0)	_		U (0.002)	U (0.003)
02/13/2018			-	_ _ _	U (0.002)	0.88	U (0.003)	U (1.0)		_ 	U (0.002)	U (0.002)
08/17/2018			I		U (0.015)	<u>1.6</u>	U (0.015)		_		Ú (0.01)	U (0.015)

N Parks Hwy a, Alaska 99623	ž	Screen Inter	52) Oite (1914) John Our (1914) (1914	**IMB		9/00/0		Op.					84.
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
GW Human Health Cleanup			<u>0.056</u>	0.06	0.0046	1.5	0.015	2.2	0.0017		1.1	0.19	
10/25/2018			_	_	U (0.003)	U (0.12)	U (0.003)	U (0.25)	_	_	U (0.002)	U (0.003)	
02/26/2019			-	_	U (0.003)	0.51 U (0.25)	0.0066 U (0.003)	U (0.25) U (0.25)	_	_	U (0.002) U (0.002)	U (0.003) U (0.003)	
04/24/2019 07/16/2019			-	_	U (0.003)				_				
			_	_	U (0.003)	1.6 U (0.12)	U (0.003)	U (0.25)	_	_	U (0.002)	U (0.003)	
10/17/2019 08/12/2020		93.3	_	_	U (0.003) U (0.001)	0.242	U (0.003) U (0.001)	U (0.25) U (0.100)	_	23.4	U (0.002) U (0.001)	U (0.003) U (0.003)	
			-	_				0.0337	_	23.4			
10/02/2020 05/18/2021		97.11 97.04	U (0.00100)		U (0.001)	U (0.824) 0.405	0.000248	0.0337	U (0.00500)	16.4	U (0.001) U (0.001)	0.00262	
10/13/2021		97.04	0.000527	U (0.00100) 0.000151	0.000169	0.403	U (0.001) 0.000325	0.0132	U (0.00300)	56.7	U (0.001)	U (0.002) 0.000554	
05/11/2022		69.63	U(0.00100)	U(0.00100)		1.08	U(0.00100)	U(0.100)	U(0.000250)	23.9	U(0.00100)	U(0.003300)	
		97.0	U(0.00100)	U(0.00100)	U(0.00100) U(0.00100)	0.554	U(0.00100)	U(0.100)	U(0.0002500)		U(0.00100)	U(0.00300)	
07/19/2022 10/12/2022		80.2	U(0.00100)	U(0.00100)	U(0.00100)	0.565	U(0.00100)	U(0.100)	U(0.0002500)		U(0.00100)	U(0.00300)	
		60.2	0(0.00100)	0(0.00100)	0(0.00100)	0.565	0(0.00100)	0(0.100)	0(0.000230)	7.01	0(0.00100)	0(0.00300)	
G-3													
04/24/1997			_	_	0.001	<u>5.1</u>	<u>5.4</u>	<u>70</u> <u>21</u>	_	_	<u>7.6</u>	<u>26</u>	
09/03/1997			_	_	<u>0.08</u>	<u>7.5</u>	<u>1.4</u>	<u>21</u>	_	_	<u>2</u>	<u>7.7</u>	
12/29/1997			_	_	<u>0.057</u>	<u>3.5</u>	<u>1.5</u>	<u>19</u>	_	_	0.43	4.7	
04/23/1998			_	_	0.001	<u>6.9</u>	3.1	<u>40</u>	_	_	0.49	<u>10</u>	
08/03/1998			_	_	<u>0.14</u>	<u>2</u>	<u>3.3</u>	<u>39</u>		_	0.45	<u>10</u>	
11/02/1998			_	_	0.001	<u>2.43</u>	<u>3</u>	<u>30</u>	_	_	0.58	<u>10.27</u>	
02/12/1999			_	_	0.001	<u>8</u>	<u>3.9</u>	<u>48</u>	_	_	0.52	<u>12</u>	
05/11/1999			_	_	<u>0.051</u>	<u>17.6</u>	<u>1.02</u>	<u>14</u>		_	0.12	4.16	
08/30/1999			_	_	0.001	<u>4.6</u>	<u>1.6</u>	<u>19</u>	_	_	0.12	<u>3.9</u>	
10/29/1999			-	_	0.0018	0.92	<u>0.017</u>	0.32	_	_	0.0016	0.073	
02/08/2000			-	_	0.007	0	<u>0.47</u>	<u>4</u>	_	_	0.038	<u>0.89</u>	
06/08/2000			-	_	0.001	1.1	0.003	0	_	_	U	0.01	
08/30/2000			-	_	0.001	0.51	0.004	0.12	_	_	0.0018	0.03	
11/30/2000			-	_	0.006	<u>5.5</u>	<u>0.32</u>	<u>2.9</u>	_	_	0.032	<u>0.68</u>	
02/05/2001			_	_	0.006	<u>5.9</u>	<u>0.46</u>	4.3	_	_	0.14	<u>0.9</u>	
05/10/2001			-	_	0.001	<u>12.8</u>	0.003	0	_	_	U	0.009	
08/16/2001			-	_	0.005	<u>8.75</u>	0.39	<u>2.76</u>	_ _ _	_	0.0613	<u>0.856</u>	
11/09/2001			-	_	0.034	<u>1.57</u>	<u>0.019</u>	0.57	_	_	0.0828	0.103	
02/15/2002			_	_	<u>0.008</u>	<u>70.7</u>	0.049	0.87		_	0.119	0.156	
05/30/2002			-	_	<u>0.021</u>	34.2	<u>0.2</u>	2.25	_ 	-	0.0809	<u>0.605</u>	
08/14/2002			_	_	0.029	<u>5.68</u>	<u>0.488</u>	5.44	-	_	0.147	<u>1.49</u>	
11/14/2002			-	_	<u>0.0658</u>	<u>4.08</u>	<u>0.804</u>	<u>8.97</u>	_	_	0.186	<u>1.9704</u>	
01/28/2003			-	_	<u>0.0571</u>	<u>7.89</u>	<u>0.319</u>	2.93	_	_	0.0914	0.644	
04/17/2003			—I	_	0.00288	<u>4.58</u>	<u>0.0282</u>	0.585	_	_	0.0274	0.082	
07/17/2003			-	_	U (0.0005)	<u>7.48</u>	0.0107	0.233	_	_	0.0165	0.0327	
10/02/2003			-	_	U (0.0005)	1.14	0.000626	U (0.08)	_	_	0.00224	0.00232	
01/20/2004			_	_	U (0.0005)	1.83	0.00399	0.144	_	_	0.0439	0.0127	

		Ø/	Ž					800		9/18	/ /	
	n de	Gro.	52) 10/10/10/10/10/10/10/10/10/10/10/10/10/1	135	NU S	Op.		alla alla alla alla alla alla alla all			10	olo de la companya de
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
GW Human Health Cleanup			0.056	<u>0.06</u>	0.0046	<u>1.5</u>	<u>0.015</u>	2.2	0.0017		<u>1.1</u>	0.19
04/13/2004			-	_	U (0.005)	<u>2.89</u>	<u>0.0472</u>	0.855	_		0.0261	0.148
07/20/2004			-1	_	U (0.0005)	<u>19.4</u>	0.0028	0.164	-	_	0.0305	0.00853
10/13/2004			-1	_	U (0.0005)	<u>2.11</u>	U (0.0005)	U (0.08)	-	_	0.000537	U (0.001)
01/28/2005			-1	_	0.000857	<u>3.65</u>	0.00078	0.0973	-	_	0.0293	0.0038
04/11/2005			-1	_	0.00311	2.58	0.00232	0.127	-		0.0113	0.0253
08/12/2005			-1	_	U (0.0005)	1.14	U (0.0005)	U (0.05)	-	_	U (0.0005)	U (0.0015)
10/07/2005			-1	_	U (0.0005)	<u>2.85</u>	U (0.0005)	U (0.05)	-	_	0.00234	U (0.0015)
02/14/2006			-1	_	0.000874	<u>3</u>	0.00129	0.215	-	_	0.076	0.0072
04/18/2006			-1	_	U (0.0005)	<u>7.64</u>	0.000884	0.181	-	_	0.0614	0.00356
07/06/2006			-1	_	U (0.0005)	<u>3.17</u>	U (0.0005)	U (0.05)	-	_	0.00252	U (0.0015)
10/26/2006			-1	_	U (0.0005)	1.06	U (0.0005)	U (0.05)	-	_	U (0.0005)	U (0.0015)
02/02/2007			-1	_	<u>0.00528</u>	<u>2.27</u>	0.0017	0.236	-	_	0.0513	0.0154
08/07/2007			-1	_	U (0.0005)	0.841	U (0.0005)	U (0.05)	-	_	U (0.0005)	U (0.0015)
10/23/2007			-	_	0.00502	1.41	0.02	0.322	_	_	0.0358	0.0319
02/21/2008			-	_	<u>0.00517</u>	0.93	<u>0.067</u>	0.771	_	_	0.0307	0.144
04/15/2008			-	_	0.00562	0.604	<u>0.135</u>	1.44	_	_	0.04	<u>0.211</u>
08/27/2008			-	_	0.0138	0.978	0.842	<u>7.26</u>	_	_	0.436	<u>2.88</u>
10/22/2008			-	_	0.0124	0.83	<u>0.96</u>	<u>9.55</u>	_	_	0.514	<u>3.57</u>
02/05/2009			-1	_	U (0.01)	0.909	<u>1.17</u>	<u>15.7</u>	_	_	0.234	<u>4.73</u>
02/19/2009			-1	_	0.0071	<u>9.47</u>	<u>0.0834</u>	1.04	_	_	0.0493	0.241
04/08/2009				_	U (0.005)	1.51	0.378	4.2	_	_	0.0702	<u>1.43</u>
07/09/2009			-1	_	U (0.0005)	1.81	1.12	3.01	_	_	0.0415	4.32
11/04/2009			-1	_	U (0.0005)	U (0.400)	0.579	12.7	_	_	0.101	2.55
01/27/2010			-1	_	U (0.0005)	` 1.12	0.337	6.47	_	_	0.0157	2.01
05/27/2010			-1	_	U (0.0005)	1.01	0.0379	0.936	_	_	0.000748	0.137
08/19/2010			-1	_	U (0.0005)	U (0.403)	0.0336	0.933	_	_	0.000756	0.12
10/26/2010			-1		U (0.0025)	U (0.397)	0.153	4.62	_	_	U (0.0025)	0.643
02/17/2011			-1	_	U (0.0005)	4.1	0.0647	2.11	_	_	0.00112	0.222
06/09/2011			-1	_	0.000536	U (0.446)	0.0666	2.26	_	_	0.00188	0.232
09/20/2011			-1	_	U (0.0005)	U (0.400)	0.0235	1.69	_	_	0.000718	0.0794
10/21/2011			_	_	0.00107	U (0.417)	0.0325	2.51	_	_	0.00126	0.105
02/17/2012			_	_	0.000809	` 1.15	0.0536	2.62	_	_	0.000792	0.131
05/17/2012			_	_	0.00117	0.56	0.0899	<u>5.91</u>	_	_	0.00164	0.303
09/05/2012			_		U (0.0005)	U (0.424)	0.166	0.71	_	_	U (0.0005)	0.0486
10/30/2012			_	_	U (0.0005)	U (0.431)	U (0.0005)	U (0.05)	_	_	U (0.0005)	U (0.0015)
01/30/2013			_	_	U (0.0005)	0.67	0.0182	0.818	_	_	0.00364	0.0555
05/10/2013			_	_	0.00153		0.0554	1.35	_	_	0.00151	0.167
10/11/2013			_	_	U (0.0005)	U (0.391)	U (0.0005)	U (0.05)	_	_	U (0.0005)	U (0.0015)
12/11/2013			_		U (0.0005)	U (0.417)	U (0.001)	U (0.05)	_	_	U (0.001)	U (0.003)
02/19/2014			_	_ _ _	U (0.0005)	0.928	0.00066	U (0.05)	_	_	U (0.0005)	0.00177
02/10/2017					J (0.0000)	4.8	0.00000	U (0.00)		_	, , , , , , , , , , , , , , , , , , , 	0.00177

ven Store #46754 (former Speedv ven - Paula Sime W Parks Hwy Ia, Alaska 99623	•	325 TNS	· / ~	13x	B. B. B. B. B. B. B. B. B. B. B. B. B. B	No.		MINOPERIOR SERVICE	0/	Sol	millo 12	ound out of the second of the second out of the
Unit	ft	ft ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm ppm	ppm	ppm	ppm
GW Human Health Cleanup			0.056	0.06	0.0046	<u>1.5</u>	0.015	2.2	0.0017	1-1-	1.1	0.19
10/30/2014				_	U (0.0005)	1	0.0097	0.46	_	_	U (0.0005)	0.023
02/11/2015			_	_	0.002	<u>12</u>	<u>0.087</u>	<u>4.8</u> <u>2.6</u>	_	_	0.0011	<u>0.24</u>
05/15/2015			_	_	U (0.002)	1.3	0.0078	<u>2.6</u>		_	U (0.002)	0.015
09/02/2015			_	_	U (0.0002)	U (0.40)	0.0079	1.1		_	U (0.001)	0.0064
11/12/2015			_	_	U (0.0020)	0.26	<u>0.036</u>	3.2 3.2		_	U (0.0020)	0.069
01/28/2016			_	_	U (0.0020)	0.76	<u>0.027</u>	<u>3.2</u>	_	_	U (0.0020)	0.052
05/09/2016				_	0.0002	0.58	0.0086	1.6	_	_	U (0.001)	0.012
10/24/2016			_	_	0.0002	0.37	0.0017	<u>4.4</u>	_	_	U (0.001)	0.0036
12/09/2016			_	_	U (0.002)	0.48	0.002	4.2 2.3	_	_	U (0.002)	0.0038
04/25/2017			_	_	U (0.0002)	<u>4.7</u>	0.0089	<u>2.3</u>	_	_	U (0.002)	0.016
10/20/2017			_	_	U (0.002)	<u>3</u>	U (0.003)	U(1.0)	_	_	U (0.002)	U(0.003)
02/13/2018			_	_	U (0.002)	<u>6.7</u>	U (0.003)	U (1.0)		_	0.0054	0.0047
08/17/2018			_	_	U (0.003)	<u>3.2</u>	0.0047	0.99		_	0.00091	0.00938
10/25/2018			_	_	U (0.003)	2.3	U (0.003)	0.37	_	_	U (0.002)	U (0.003)
02/26/2019			_	_	U (0.003)	<u>8.5</u>	0.006	1.7	_	_	U (0.002)	0.013
04/24/2019			_	_	U (0.003)	7.7	0.0034	1.6	_	_	U (0.002)	0.0068
07/16/2019			_	_	U (0.003)	<u>4.6</u>	0.0033	1.3	_	_	U (0.002)	0.006
10/17/2019			_	_	U (0.003)	<u>3.6</u>	U (0.003)	0.58	_		U (0.002)	U (0.003)
08/12/2020		67.25	_	_	U (0.001)	0.339	0.000754	0.173		8.35	U (0.001)	0.00159
10/02/2020		66.93	_	_	U (0.001)	1.45	0.000143	0.12	_	_	U (0.001)	U (0.002)
03/03/2021			_	_	U (0.001)	1.47	0.00091	1.01	_	_	U (0.001)	0.00086
03/31/2021		62.99				-		-		123	l	
05/18/2021		64.72	0.0452	0.0457	U (0.001)	<u>8.48</u>	U (0.001)	1.36	U (0.00500)	32.2	U (0.001)	U (0.002)
07/21/2021		64.55	0.0599	0.0669	U (0.001)	<u>2.32</u>	0.00163	1.68	0.00206	9.61	0.000279	0.0015
10/13/2021		67.39	0.000928	0.000365	U (0.001)	0.865	U (0.001)	0.176	U (0.000250)	10.7	U (0.001)	U (0.002)
05/11/2022		67.75	U(0.00100)	U(0.00100)	U(0.00100)	U(0.800)	U(0.00100)	U(0.100)	U(0.000250)	22	U(0.00100)	U(0.00300)
10/12/2022		80.1	0.00118	0.000508	U(0.00100)	0.392	0.000464	0.0349	U(0.000250)	7.96	U(0.00100)	0.000449
G-5	ļ			, ,								_
04/24/1997			_	_	0.032	-	<u>0.91</u>	<u>17</u> <u>25</u>	I	_	0.56	<u>5.2</u>
09/03/1997			_	_	0.001	<u>4.8</u>	1.1	<u>25</u>	_	_	U	<u>5.4</u>
12/29/1997			_	_	0.065	4	1	<u>19</u>	_	_	0.15	4.7
04/23/1998			_	_	0.048	2.7	0.38	11	_	_	0.068	1.7
08/03/1998			_	_	0.001	0.27	U	0	_	_	U	0.0019
11/02/1998			_	_	0.026	<u>1.82</u>	0.12	<u>3.7</u>	_	_	0.01	0.27
08/31/1999			_	_	0.011	0.95	0.34	4.6 2.7	_	_	0.029	0.9
10/29/1999			_	_	0.024	0.4	0.066	<u>2.7</u>	_	_	0.006	0.11
			_	_	0.008		0.053	4.2	_	_	0.006	0.1
02/08/2000		1							· .			
06/08/2000			_	_	0.001	0	0.023	0.61	<u> </u>	_	l u	0.04
									_ _ _	_		

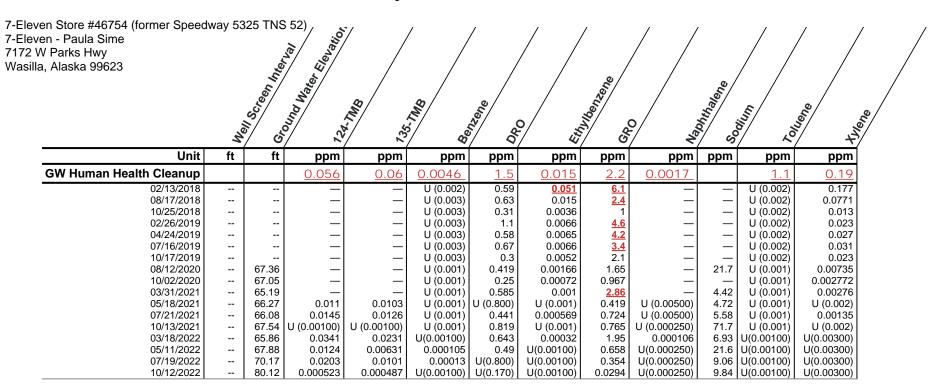
ı, Alaska 99623	<u>د</u>	Screen Mer.	52) /es / long /	135.	B. B. B. B. B. B. B. B. B. B. B. B. B. B	onteno Do		on single		Societa	umb 10	ou The Table 1
Unit	ft	් රි ft	ppm p	ppm ppm	႗ၴ <u>&ိ</u> ppm	ppm	ppm	ppm	/ 🝣	ppm	ppm	ppm
GW Human Health Cleanup			0.056	0.06	0.0046	1.5	0.015	2.2	0.0017	PP····	1.1	0.19
02/05/2001					0.015	0.32	0.016	2.1			0.008	0.026
05/10/2001			_	_	0.007	0.001	0.061	1.62	_	_	U	0.1
08/16/2001			_	_	0.031	U	0.042	2.74		_	0.011	0.065
11/09/2001			_	_	0.004	Ū	U U	0.258	_	_	U	0.002
08/14/2002			_	_	0.013	0.552	0.145	2.53	_	_	0.003	0.182
11/14/2002				_	0.00257	U (0.5)	U (0.002)	0.137	_	_	U (0.002)	U (0.002)
01/28/2003			_	_	0.064	1.2	0.0733	<u>2.4</u>	_	_	U (0.02)	0.0667
04/17/2003			_	_	0.0181	0.418	0.0834	<u>3.14</u>	_	_	0.002	0.186
07/17/2003			_	_	U (0.005)	U (0.5)	0.0666	2.72	_	_	U (0.005)	0.184
10/02/2003					0.0125	U (0.32)	0.127	4.33		_	0.00577	0.104
04/13/2004			_	_	U (0.0005)	U (0.52)	U (0.0005)	0.0539			U (0.0005)	U (0.0015)
			_	_	,	0.484				_		
07/20/2004			-	_	0.00351		<u>0.0561</u>	1.7	-	_	U (0.0005)	0.0239
10/13/2004			-	_	0.009	0.443	0.0893	<u>2.71</u>	-	_	0.00155	0.113
01/28/2005			-1	_	0.0011	0.45	0.0183	1.35	-	_	0.00198	0.02
04/11/2005			-1	_	U (0.0005)	U (0.391)	0.0138	1.06	-	_	0.000845	0.0117
08/12/2005			-	_	U (0.0005)	U (0.41)	U (0.0005)	U (0.05)	-	_	U (0.0005)	U (0.0015)
10/07/2005			-	_	U (0.0005)	U (0.407)	U (0.0005)	U (0.05)	-	_	U (0.0005)	U (0.0015)
02/14/2006			-	_	0.00186	0.475	<u>0.0163</u>	1.34	_ _ _	_	0.00136	0.0066
04/18/2006				_	0.0018	0.693	<u>0.153</u>	2.04		_	0.000663	<u>0.24</u>
07/06/2006				_	0.00141	U (0.41)	0.0932	1.14	-	_	0.00158	0.103
10/26/2006				_	U (0.0005)	U (0.41)	U (0.0005)	U (0.05)		_	U (0.0005)	U (0.0015)
04/19/2007			_	_	U (0.0005)	U (0.435)	0.0163	0.774	_	_	U (0.0005)	0.0227
08/07/2007			_l	_	0.00147	U (0.407)	0.00611	0.529	_ _ _	_	U (0.0005)	0.007
10/23/2007			_	_			0.00534	0.4	-	_	U (0.0005)	0.00603
02/21/2008			_	_	0.00231		0.0592	1.97	_	_	0.000739	0.0523
08/27/2008			_	_	U (0.0005)	U (0.4)	0.0203	0.506	_	_	U (0.0005)	0.0243
10/22/2008			_	_	U (0.0005)	U (0.420)	0.00629	0.35	_	_	U (0.0005)	0.00512
02/05/2009			_	_	0.00093	0.59	0.0898	2.02	_	_	0.00211	0.101
02/19/2009			_1	_	0.00249	0.689	0.129	1.96		_	0.00211	0.262
04/08/2009			_	_	0.00243	U (0.435)	0.26	3.84	_ _ _		0.00203	0.634
07/09/2009			_		0.00267	U (0.433)	0.184	<u>3.64</u> <u>2.51</u>	_	_	0.00452	0.284
11/04/2009					0.00267	U (0.397)	0.184	<u>2.51</u> 4.13	-	_	0.00432	0.645
01/27/2010			-	_							0.00739	
			-	_	0.00385	U (0.427)	0.499	<u>7.17</u>	-	_		1.51
05/27/2010			-	_	0.0022	0.668	0.406	<u>5.19</u>	-	_	0.0218	<u>1.22</u>
08/19/2010			-1	_	0.00105	0.415	0.233	3.27		_	0.00307	0.977
10/26/2010			-	_	U (0.0022)	U (0.403)	0.0449	0.741	-	_	U (0.0005)	0.0723
02/17/2011			-	_	0.00291		<u>0.108</u>	<u>3.11</u>	— I	_	0.0034	<u>0.472</u>
06/09/2011			-1	_	0.00199	0.436	<u>0.173</u>	<u>5.08</u>	_	_	0.00405	<u>0.856</u>
09/20/2011			-1	_	0.00101		<u>0.0362</u>	0.975	—l	_	0.00133	0.138
10/21/2011				_	U (0.0005)	U (0.439)	0.0121	0.365	_l	_	U (0.0005)	0.0303
02/17/2012				_	0.00403	0.726	0.0807	2.8			0.00497	0.476

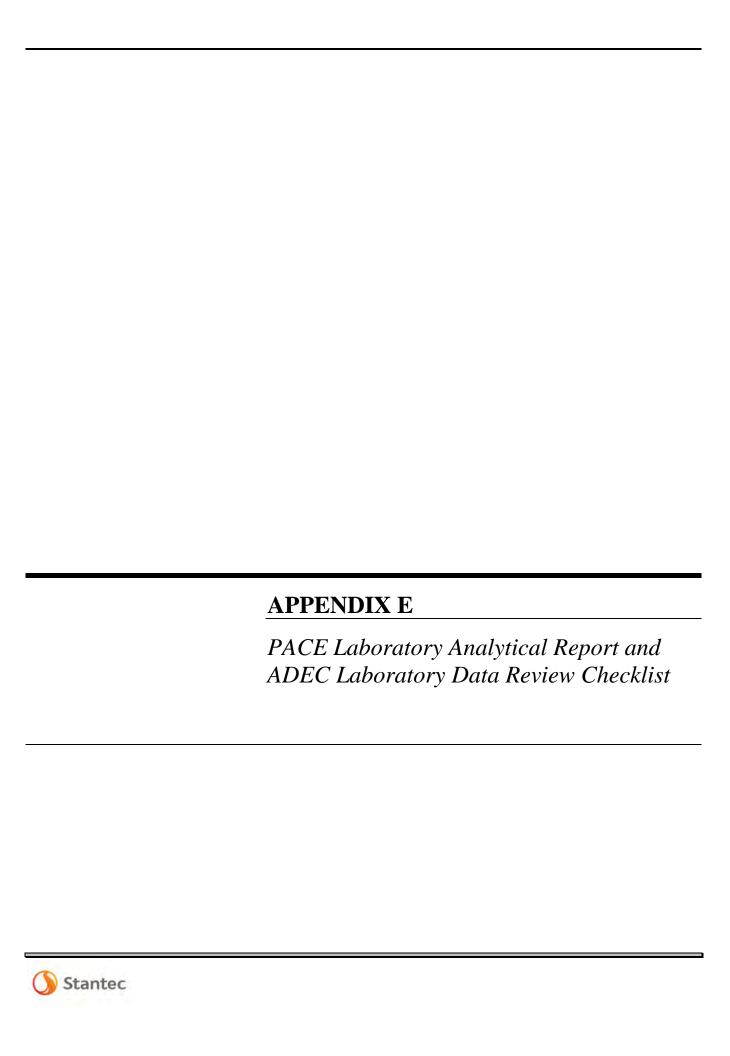
ren Store #46754 (former Speed ren - Paula Sime N Parks Hwy a, Alaska 99623	•	325 TNS	′/ 6	5/ /	/	/		/ %		&/			/
Unit	ft	Sceen Miss	ppm c/2	35.		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2	Sp. 100 P. Sp. 100 P.	ppm	ppm		100 A	ough S
GW Human Health Cleanup	- 11	11	0.056	ppm 0.06	ppm 0.0046	ppm 1.5	ppm 0.015	ppm 2.2	0.0017	ppiii	ppm 1.1	ppm 0.19	
05/17/2012			<u>0.000</u>	<u>0.00</u>	0.000704	0.541	0.0125	0.683	<u>0.0017</u>		0.000734	0.0378	
10/30/2012			_	_	U (0.0005)	U (0.410)	U (0.0005)	U (0.05)	_	_	U (0.0005)	U (0.0015)	
01/30/2013			_	_	U (0.0005)	U (0.403)	U (0.0005)	U (0.05)	_	_	U (0.0005)	U (0.0015)	
05/10/2013			_	_	0.00052	U (0.400)	U (0.0005)	0.221	_	_	0.000627	0.00194	
10/11/2013			_	_	U (0.0005)	U (0.439)	U (0.0005)	U (0.05)	_	_	U (0.0005)	U (0.0015)	
12/11/2013			_	_	U (0.0005)	U (0.403)	U (0.001)	U (0.05)	_	_	U (0.001)	U (0.003)	
02/19/2014			_	_	U (0.0005)	U (0.400)	U (0.0005)	U (0.05)		_	U (0.0005)	U (0.0015)	
05/01/2014			_	_	U (0.005)	U (0.41)	U (0.001)	U (0.05)	_	_	U (0.001)	U (0.001)	
10/30/2014			_	_	0.00086	U (0.42)	U (0.0005)	0.19	_	_	U (0.0005)	U (0.0015)	
02/11/2015			_	_	U (0.0005)	U (0.42)	0.0031	0.28	_	_	U (0.0005)	0.0031	
11/12/2015			_	_	U (0.0020)	U (0.21)	U (0.0030)	0.32	_	_	U (0.0020)	U (0.0020)	
01/28/2016			_	_	U (0.0020)	U (0.11)	U (0.0030)		_	_	U (0.0020)	U (0.0020)	
10/24/2016			_	_	U (0.0002)	U (0.41)	U (0.001)	U (0.1)	_	_	U (0.001)	U (0.003)	
12/09/2016			_	_	U (0.002)	U (0.12)	0.0063	0.17	-	_	U (0.001)	0.0034	
04/24/2017			_	_	U (0.0002)	0.22	0.085	1.4	-	_	U (0.001)	0.44	
10/20/2017			_	_	U (0.002)	U(0.110)	U (0.003)	U(1.0)	_	_	U (0.002)	U (0.003)	
02/13/2018			_	_	U (0.002)	U (0.13)	U (0.003)	U (1.0)	_	_	U (0.002)	U (0.002)	
08/17/2018			_	_	U (0.003)	U (0.12)	U (0.003)	U (0.25)	_	_	U (0.002)	U (0.003)	
10/25/2018			_	_	U (0.003)	U (0.12)	U (0.003)	U (0.25)	_	_ 	U (0.002)	U (0.003)	
02/26/2019			_	_	U (0.003)	0.12	U (0.003)	U (0.25)	_	_	U (0.002)	U (0.003)	
04/24/2019			_	_	U (0.003)	U (0.27)	0.0086	U (0.25)	_	_	U (0.002)	0.0068	
07/16/2019			_	_	U (0.003)	U (0.12)	U (0.003)	U (0.25)	-	_	U (0.002)	U (0.003)	
10/17/2019 08/12/2020		66.92	_	_	U (0.003) U (0.001)	U (0.12) U (0.864)	U (0.003) U (0.001)	U (0.25)	_	10.6	U (0.002) U (0.001)	U (0.003) U (0.003)	
10/02/2020			_	_	0.000236	0.406	U (0.001)	U (0.100) 0.0189	_	10.6	U (0.001)	U (0.003)	
05/18/2021		66.29	U (0.00100)	0.000191	U (0.001)	U (0.800)	0.0017	0.0693	U (0.00500)	13.9	U (0.001)	U (0.002)	
07/21/2021		62.64	0.000612	0.000191	U (0.001)	0.34	U (0.001)	0.0093	U (0.00500)	14.2	U (0.001)	U (0.002)	
10/13/2021			U (0.00100)	U (0.00100)	0.000267	0.402	U (0.001)	0.0476	U (0.00350)	20.3	U (0.001)	U (0.003)	
03/18/2022			U (0.00100)	U (0.00100)	0.000267	U(0.800)	0.000484	0.0770	U (0.000250)		U(0.00100)	U(0.00300)	
05/11/2022		67.47	U(0.00100)	U(0.00100)	U(0.00100)	U(0.800)	U(0.00100)	0.00345	U(0.000250)		U(0.00100)	U(0.00300)	
07/19/2022		69.95	U(0.00100)	U(0.00100)	U(0.00100)	U(0.800)	U(0.00100)	U(0.100)	U(0.0002500)	8.41	U(0.00100)	U(0.00300)	
10/12/2022			U(0.00100)	U(0.00100)	U(0.00100)	U(0.170)	U(0.00100)	U(0.100)	U(0.000250)		U(0.00100)	U(0.00300)	
		70.00	0(0.00100)	0(0.00100)	0(0.00100)	0(0.170)	0(0.00100)	0(0.100)	0(0.000200)	0.07	0(0.00100)	0(0.00000)	
		1				40	0.006	0.088			0.013	0.042	
G-6													
09/03/1997			_	_	U 020	<u>13</u>				_			
09/03/1997 12/29/1997			_	_	0.039	<u>3.6</u>	0.0014	0.031	-	_	0.0019	0.0087	
09/03/1997 12/29/1997 08/03/1998					<u>0.039</u> U	<u>3.6</u> U	0.0014 U	0.031 U	_ _	_	0.0019 U	0.0087 U	
09/03/1997 12/29/1997 08/03/1998 11/02/1998	 	 	_ 	_ 	0.039 U 0.001	<u>3.6</u> U U	0.0014 U 0.014	0.031 U 0.19	_ _ _		0.0019 U 0.0085	0.0087 U 0.07	
09/03/1997 12/29/1997 08/03/1998			_		<u>0.039</u> U	<u>3.6</u> U	0.0014 U	0.031 U	_ _ _	_	0.0019 U	0.0087 U	

ven Store #46754 (former Speed ven - Paula Sime W Parks Hwy a, Alaska 99623	•	325 TNS	'/ 6	7.7.1118 1.35	Sull Se	OD.		Who ken		Soul		de de la composition della composition della com	l subject of the subj
Unit	ft	ft	ppm	ppm	/ <u>&</u> ppm	ppm	ppm	ppm	/ P	ppm	ppm	/ †	7
GW Human Health Cleanup			0.056	0.06	0.0046	<u>1.5</u>	<u>0.015</u>	2.2	0.0017		<u>1.1</u>	0.19	
10/29/1999			_	_	U	U	U	U	_	_	U	U	1
06/08/2000			-	_	U	U	U	U	-	_	U	U	
11/30/2000			_	_	U	U	U	U	_	_	U	U	
05/10/2001			_	_	U	U	U	U	_	_	U	U	
11/09/2001			_	_	U	U	U	U	_	_	U	U	
05/30/2002			_	_	U	U (2.05)	U	U	_	_	U	U	
04/17/2003			-	_	U (0.0005)	U (0.25)	U (0.0005)	U (0.08)	_	_	U (0.0005)	U (0.001)	
04/13/2004					U (0.0005)	U (0.5)	U (0.0005)	U (0.05)	_	_	U (0.0005)	U (0.0015)	
10/12/2022		80.31	U(0.00100)	U(0.00100)	U(0.00100)	U(0.800)	U(0.00100)				U(0.00100)	U(0.00300)	4
G-7													
08/03/1998			_	_	U	U	U	U	-	_	U	U	
11/02/1998			_	_	U	U	0.012	0.16	-	_	0.005	0.058	
02/12/1999				_	U	0.79	U	U	_	_	U	U	
05/10/1999			_	_	U	0.45	U	U	-	_	U	U	
08/30/1999			_	_	U	U	U	U	-	_	U	U	
10/29/1999			_	_	U	U	U	U	-	_	U	U	
06/08/2000			_	_	U	U	U	U	-	_	U	U	
11/30/2000			_	_	U	U	U	U	-	_	U	U	
05/10/2001			_	_	U	U	U	U	-	_	U	U	
11/09/2001			_	_	U	U	U	U	-	_	U	U	
05/30/2002			_	_	U	<u>2.47</u>	U	U	— I	_	U	U	
04/17/2003					U (0.0005)	U (0.25)	U (0.0005)	U (0.08)	_	_	U (0.0005)	U (0.001)	
04/13/2004			_	_	U (0.0005)	U (0.5)	U (0.0005)	U (0.05)	-	_	U (0.0005)	U (0.0015)	
04/11/2005			_	_	U (0.0005)	U (0.435)	U (0.0005)	U (0.05)	-	_	U (0.0005)	U (0.0015)	
04/18/2006			_	_	U (0.0005)	U (0.397)	U (0.0005)	U (0.05)	-	_	U (0.0005)	U (0.0015)	
04/19/2007			_	_	U (0.0005)	U (0.42)	U (0.0005)	U (0.05)	-	_	U (0.0005)	U (0.0015)	
04/15/2008			_	_	U (0.0005)	0.673	U (0.0005)	U (0.05)	— I	_	U (0.0005)	U (0.0015)	
02/19/2009			_	_		U (0.455)	U (0.0005)	U (0.05)	-	_	U (0.0005)	U (0.0015)	
01/27/2010					U (0.0005)	U (0.397)	U (0.001)	U (0.05)	-	_	U (0.001)	U (0.003)	
05/27/2010			_	_	U (0.0005)		U (0.0005)	U (0.05)	-	_	U (0.0005)	U (0.0015)	
08/19/2010			_	_		U (0.410)	U (0.0005)	U (0.05)	_	_	U (0.0005)	U (0.0015)	
10/26/2010			_	_		U (0.407)	U (0.0005)	U (0.08)	_	_	U (0.0005)	U (0.001)	
02/17/2011			-	_	U (0.0005)	U (0.403)	U (0.0005)	U (0.05)	-	_	U (0.0005)	U (0.0015)	
06/09/2011			_	_	U (0.0005)		U (0.0005)	U (0.05)	_	_	U (0.0005)	U (0.0015)	
09/20/2011			_			U (0.391)	U (0.0005)	U (0.05)	_	_	U (0.0005)	U (0.0015)	
10/21/2011			_	_			U (0.0005)	U (0.05)	-	_	U (0.0005)	U (0.0015)	
02/17/2012			— I	_	U (0.0005)	0.584	U (0.0005)	U (0.05)	—	_	U (0.0005)	U (0.0015)	
05/17/2012			_	— I	U (0.0005)	0.628	U (0.0005)	U (0.05)	-	_	U (0.0005)	U (0.0015)	
07/18/2012			I	_	U (0.0005)	U (0.403)	U (0.0010)	U (0.05)		_	U (0.0010)	U (0.0030)	
09/05/2012			I	_	U (0.0005)	U (0.400)	U (0.0005)	U (0.05)	_	_	U (0.0005)	U (0.0015)	1

even Store #46754 (former Speed even - Paula Sime W Parks Hwy illa, Alaska 99623	•	325 TNS	′/ 6	<u> </u>	/	/		/ 80 80		06		
Unit	ft	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ppm 52	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
GW Human Health Cleanup			0.056	0.06	0.0046	1.5	0.015	2.2	0.0017	ррш	1.1	0.19
10/30/2012					U (0.0005)		U (0.0005)	U (0.05)		_	U (0.0005)	U (0.0015)
01/30/2013			_	_	U (0.0005)	0.531	U (0.0005)	U (0.05)	_	_	U (0.0005)	U (0.0015)
02/15/2013			_	_	U (0.0005)	U (0.403)	U (0.0005)	U (0.05)	_	_	U (0.0005)	U (0.0015)
05/10/2013			_	_	U (0.0005)	U (0.417)	U (0.0005)	U (0.05)	_	_	U (0.0005)	U (0.0015)
10/11/2013			_	_	U (0.0005)		U (0.0005)	U (0.05)	_	–	U (0.0005)	U (0.0015)
12/11/2013			_	_	U (0.0005)		U (0.001)	U (0.05)	_	–	U (0.001)	U (0.003)
02/19/2014			_	_	U (0.0005)		U (0.0005)	U (0.05)	_	_	U (0.0005)	U (0.0015)
05/01/2014			_	_	U (0.0005)		U (0.001)	U (0.05)	_	–	U (0.001)	U (0.001)
10/30/2014			_	_	U (0.0005)	U (0.39)	U (0.0005)	U (0.05)		_	U (0.0005)	U (0.0015)
02/11/2015			_	_	U (0.0005)	U (0.42)	U (0.0005)	U (0.05)	_	-	U (0.0005)	U (0.0015)
05/15/2015			_	_	U (0.0005)	U (0.42)	U (0.0005)	U (0.05)	_	=	U (0.0005)	U (0.0015)
09/02/2015			_	_	U (0.0020)	U (0.42)	U (0.001)	0.16			U (0.001)	U (0.001)
11/12/2015			_	_	U (0.0020)	U (0.20)	U (0.0030)	U (0.050)	_	_	U (0.0020)	U (0.0020)
01/28/2016			_	_	U (0.0020)	0.23	U (0.0030)	U (0.050)	_	_	U (0.0020)	U (0.0020)
05/09/2016			_	_	U (0.0002)	U (0.41)	U (0.001)	U (0.1)	_	-	U (0.001)	U (0.003)
10/24/2016			_	_	U (0.0002)	U (0.41)	U (0.001)	U (0.1)	_	_	U (0.001)	U (0.003)
12/09/2016			_	_	U (0.002)	U (0.11)	U (0.003)	U (0.05)	_	-	U (0.002)	U (0.003)
02/08/2017			_	_	U (0.002)	U (0.11)	U (0.003)	U (0.05)	_	_	U (0.002)	U (0.002)
04/25/2017			_	_	U (0.0002)	U (0.11)	U (0.001)	U (1.0)	_		U (0.001)	U (0.003)
10/20/2017			_	_	U (0.002)		U (0.003)	U (1.0)	_	_	U (0.002)	U (0.003)
02/13/2018			_	_	U (0.002)	U (0.12)	U (0.003)	U (1.0)	_	_	U (0.002)	U (0.002)
08/17/2018			_	_	U (0.003)	U (0.12)	U (0.003)	U (0.25)	_	_	U (0.002)	U (0.003)
10/25/2018			_	_	U (0.003)		U (0.003)	U (0.25)	_	_	U (0.002)	U (0.003)
02/26/2019			_	_	U (0.003)	U (0.13)	U (0.003)	U (0.25)	_	_	U (0.002)	U (0.003)
04/24/2019			_	_	U (0.003)	U (0.26)	U (0.003)	U (0.25)	_	— — — — —	U (0.002)	U (0.003)
07/16/2019 10/17/2019			_	_	U (0.003) U (0.003)	U (0.12) U (0.12)	U (0.003) U (0.003)	U (0.25) U (0.25)		_	U (0.002) U (0.002)	U (0.003) U (0.003)
10/17/2019		67.1	_	_	U (0.003)	U (0.12)	U (0.003)	U (0.23)	_	_	U (0.002)	U (0.003)
05/18/2021		60.81	U (0.00100)	U (0.00100)		U (0.800)	U (0.001)	0.032	U (0.00500)	9.55	U (0.001)	U (0.002)
05/18/2021		61.67	U (0.00100)	U (0.00100)	U (0.001)	0.251	U (0.001)		U (0.00500)	13.1	U (0.001)	U (0.002)
10/13/2021		66.63	U (0.00100)	U (0.00100)	U (0.001)	0.251	U (0.001)	0.0507	U (0.000250)	5.05	U (0.001)	U (0.003)
03/18/2022		59.2	U (0.00100)	U (0.00100)	U(0.00100)		U(0.00100)	U(0.100)	U (0.000250)		U(0.00100)	U(0.00300)
05/11/2022		67.15	U(0.00100)	U(0.00100)	U(0.00100)		U(0.00100)	U(0.100)	U(0.000250)		U(0.00100)	U(0.00300)
07/19/2022		69.89	U(0.00100)	U(0.00100)	U(0.00100)	U(0.800)	U(0.00100)	U(0.100)	U(0.0002500)	6.1	U(0.00100)	U(0.00300)
10/12/2022		79.69	U(0.00100)	U(0.00100)	U(0.00100)		U(0.00100)	U(0.0287	U(0.0002500)		U(0.00100)	U(0.00300)
		13.03	3(0.00100)	0(0.00100)	0(0.00100)	0(0.170)	0(0.00100)	0(0.0207	3(0.000230)	0.00	3(0.00100)	3(0.00300)
R1+2												[l
12/09/2016			_	_	U	U	l U	-	-	-	l U	
04/25/2017			_	_	U	U	U.	-	-	_	<u>.</u>	
08/17/2018			_	_	U	U	l u	-	_	_	<u>.</u>	_
04/23/2019			_	_	U	U(0.26)	l U	_	-	—	l U	U

en Store #46754 (former Speed en - Paula Sime V Parks Hwy a, Alaska 99623	•	325 TNS	′/ ~	7.1MB	Null 8	OD.	Q .s	de la constant de la		South	uning 52	meno Tr.	l all
Unit	ft	ft	ppm	ppm	/ 49 ppm		ppm	ppm	/ >	ppm	ppm	ppm	7
GW Human Health Cleanup			0.056	0.06	0.0046	<u>1.5</u>	<u>0.015</u>	2.2	0.0017		1.1	0.19	
10/02/2020			_	_	U(0.000500)	U(0.240)	U(0.000500)	_	_	_	U(0.00100)	U(0.000500)	1
10/13/2021 10/12/2022			_	_	U(0.000500) U(0.000500)	0.343	U(0.000500) U(0.000500)		_	_	U(0.00100)	U(0.000500) U(0.000500)	
R4			_	_	(0.000000)	3(0.170)	0(0.000000)				0(0.00100)	0(0.000000)	1
12/09/2016			_	_	U	U	U	_	_	_	U	U	
04/25/2017			_	_	U	U	U	-	_	_	U	U	
08/17/2018			_	_	U	U	<u>U</u>	-	_	_	l u	l u	
04/23/2019 10/02/2020			_	_	U U(0.000500)	U(0.25)	U(0.000500)	_	_	_	U	U(0 000500)	
10/02/2020			_		U(0.000500)		U(0.000500)		_	_		U(0.000500) U(0.000500)	
10/12/2022			_	_	U(0.000500)	U(0.800)	U(0.000500)	_	_	_		U(0.000500)	
R5						,	, ,				, ,		1
12/09/2016			_	_	U	U	υl	_	_	_	U	U	
04/25/2017			_	_	U	U	U	-	_	_	U	l u	
08/17/2018			_	_	U	U	<u>!</u>	-	_	_	U	U.	
04/23/2019 10/02/2020			_		U U(0.000500)	U(0.27)	U(0.000500)	_	_	_	U LI(0.00100)	U(0.000500)	
10/13/2021			_	_	U(0.000500)	0.273	U(0.000500)					U(0.000500)	
10/12/2022			_	_	U(0.000500)		U(0.000500)	_	_	_	U(0.00100)	0.000303	
RW16-1													
10/24/2016			_	_	U (0.0002)	<u>4.6</u>	<u>1.7</u>	<u>30</u>	_	_	0.019	<u>10.1</u>	
02/08/2017			_	_	U (0.002)	2.7 2.4	<u>7.9</u>	<u>25</u>	_	_	0.0048	<u>8.9</u>	
04/25/2017			_	_	U (0.002)	<u>2.4</u>	U (0.750)	25 12 24	_	_	U (0.001)	4.83	
08/17/2018 08/12/2020		67.49		_	U (0.003) 0.00092	7.9 2	<u>1.2</u> 1.58	<u>24</u> 5.85	_	65.8	0.0018 0.00558	<u>8.5</u> 8.26	
10/02/2020		67.2		_	U (0.020)	3.58	0.373	3.99	_	- 05.0	0.0174	<u>0.20</u> 1.721	
03/31/2021		67.77	_	_	U (0.020)	4.72	1.33	14	_	64	U (0.020)	5.28	
05/18/2021		66.12	<u>2.5</u>	<u>0.53</u>	U (0.200)	7.24	<u>0.761</u>	3.38	U (1.00)	24.1	U (0.200)	<u>4.8</u>	
07/21/2021		65.91	<u>2.9</u>	0.597	U (0.200)	9.6	<u>1.36</u>	7.22	U (1.00)	16.7	U (0.200)	7.69	
10/13/2021		67.71	1.83	0.28	U (0.200)	7.89 4.36	1.11 0.020	7.99	U (1.00)	11.3	U (0.200)	<u>4.826</u> <u>5.548</u>	
03/18/2022 05/11/2022		65.51 68.0	4.04 3.88	<u>0.868</u> 0.756	U(0.200) U(0.0500)	4.36 5.82	0.939 0.533	23.2 17.7	0.0486 0.0612	39.9 56.9	U(0.200) U(0.0500)	5.548 2.773	
07/19/2022		70.05	0.0396	0.0115	0.000116	0.572	0.00242	0.247	0.00104	33.2	0.00028	0.03391	
10/12/2022		79.98		U(0.000104)	0.000309	0.5	0.000383	0.322	0.0011	26.7	0.00038	0.013	
RW16-2													1
12/09/2016			_	_	U (0.0002)	0.25	0.022	2	_	_	U (0.001)	0.429	
02/08/2017			_	<u> </u>	U (0.002)	<u>2.1</u>	0.44	<u>19</u>	-	_	0.0078	<u>3.3</u>	
04/25/2017			_		U (0.0002)	0.86	U (0.30)	8.7 2.2	_	_	U (0.002)	0 125	
10/20/2017			_	— I	U (0.002)	0.26	<u>0.042</u>	2.2	_	_	U (0.002)	0.125	I







Pace Analytical® ANALYTICAL REPORT

October 26, 2022

Stantec - 7-11

Sample Delivery Group: L1546587 Samples Received: 10/14/2022

Project Number: 185705773

Description: Speedway 5325

0005325 Site:

Report To: Mr. John Marshall

725 E Fireweed Lane

Suite 200

Anchorage, AK 99503

Entire Report Reviewed By:

Craig Cothron

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

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

ACCOUNT: PROJECT: 185705773 Stantec - 7-11

SDG: L1546587

DATE/TIME: 10/26/22 14:47 PAGE: 1 of 41















TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	6
Sr: Sample Results	7
G-01 L1546587-01	7
G-03 L1546587-02	9
G-05 L1546587-03	11
G-07 L1546587-04	13
MW16-02 L1546587-05	15
DUP1 L1546587-06	17
TRIP BLANK L1546587-07	19
RW16-01 L1546587-08	20
RUNION LOT4 L1546587-09	22
RUNION LOT5 L1546587-10	23
RUNION LOTS 1 AND 2 L1546587-11	24
G-06 L1546587-12	25
TRIP BLANK L1546587-13	26
Qc: Quality Control Summary	27
Metals (ICP) by Method 6010	27
Volatile Organic Compounds (GC) by Method AK101	28
Volatile Organic Compounds (GC/MS) by Method 524.2	30
Volatile Organic Compounds (GC/MS) by Method 8260C	33
Semi-Volatile Organic Compounds (GC) by Method AK102	34
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	35
GI: Glossary of Terms	37
Al: Accreditations & Locations	38

Sc: Sample Chain of Custody



















39

SAMPLE SUMMARY

	07 (1711 22)	J U 11111	,,,,,,,,			
			Collected by	Collected date/time	Received da	
G-01 L1546587-01 GW			JM	10/12/22 13:51	10/14/22 09:0	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Metals (ICP) by Method 6010	WG1946741	1	10/21/22 09:44	10/24/22 21:34	EJS	Allen, TX
Volatile Organic Compounds (GC) by Method AK101	WG1943483	1	10/18/22 02:04	10/18/22 02:04	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1944667	1	10/18/22 13:49	10/18/22 13:49	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1943589	1	10/18/22 13:53	10/19/22 12:59	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1944201	1	10/17/22 16:25	10/18/22 06:35	AGW	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
G-03 L1546587-02 GW			JM	10/12/22 17:31	10/14/22 09:0	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Metals (ICP) by Method 6010	WG1946741	1	10/21/22 09:44	10/24/22 21:39	EJS	Allen, TX
Volatile Organic Compounds (GC) by Method AK101	WG1943483	1	10/18/22 02:31	10/18/22 02:31	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1944667	1	10/18/22 14:08	10/18/22 14:08	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1943589	1	10/18/22 13:53	10/19/22 13:19	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1944201	1	10/17/22 16:25	10/18/22 06:01	AGW	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
G-05 L1546587-03 GW			JM	10/12/22 13:00	10/14/22 09:0	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Metals (ICP) by Method 6010	WG1946741	1	10/21/22 09:44	10/24/22 21:45	EJS	Allen, TX
Volatile Organic Compounds (GC) by Method AK101	WG1943483	1	10/18/22 02:57	10/18/22 02:57	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1944667	1	10/18/22 14:27	10/18/22 14:27	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1943589	1	10/18/22 13:53	10/19/22 13:40	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1944201	1	10/17/22 16:25	10/18/22 03:59	AGW	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
G-07 L1546587-04 GW			JM	10/12/22 12:11	10/14/22 09:0	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Metals (ICP) by Method 6010	WG1946741	1	10/21/22 09:44	10/24/22 21:50	EJS	Allen, TX
Volatile Organic Compounds (GC) by Method AK101	WG1943483	1	10/18/22 03:23	10/18/22 03:23	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1944667	1	10/18/22 14:46	10/18/22 14:46	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1943589	1	10/18/22 13:53	10/19/22 14:00	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1944201	1	10/17/22 16:25	10/18/22 02:33	AGW	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
MW16-02 L1546587-05 GW			JM	10/12/22 15:02	10/14/22 09:0	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Metals (ICP) by Method 6010	WG1946741	1	10/21/22 09:44	10/24/22 21:55	EJS	Allen, TX
Volatile Organic Compounds (GC) by Method AK101	WG1944501	1	10/18/22 17:59	10/18/22 17:59	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1944667	1	10/18/22 15:05	10/18/22 15:05	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1943589	1	10/18/22 13:53	10/19/22 14:20	TJD	Mt. Juliet, TN
Comi Volatila Organia Compounda (CC/MS) by Mathad 9270D SIM	WC1044201	1	10/17/22 16:25	10/10/22 02·E0	A C W	M4 Lulios TN





















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

WG1944201

10/17/22 16:25

10/18/22 02:50

AGW

Mt. Juliet, TN

SAMPLE SUMMARY

СР

















SAMPLE SUMMARY

TRIP BLANK L1546587-13 GW			JM	10/12/22 00:00	10/14/22 09:00	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1944667	1	10/18/22 12:32	10/18/22 12:32	DWR	Mt. Juliet, TN



















CASE NARRATIVE

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

¹Cp

















Craig Cothron Project Manager

SAMPLE RESULTS - 01

L1546587

Metals (ICP) by Method 6010

Collected date/time: 10/12/22 13:51

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Sodium	7.81		0.304	1.00	1	10/24/2022 21:34	WG1946741

Cp

Volatile Organic Compounds (GC) by Method AK101

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	U		0.0287	0.100	1	10/18/2022 02:04	WG1943483
(S) a,a,a-Trifluorotoluene(FID)	88.7			50.0-150		10/18/2022 02:04	<u>WG1943483</u>
(S) a,a,a-Trifluorotoluene(PID)	102			79.0-125		10/18/2022 02:04	WG1943483



Volatile Organic Compounds (GC/MS) by Method 524 2/8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	10/18/2022 13:49	WG1944667
n-Butylbenzene	U		0.000157	0.00100	1	10/18/2022 13:49	WG1944667
sec-Butylbenzene	U		0.000125	0.00100	1	10/18/2022 13:49	WG1944667
tert-Butylbenzene	U		0.000127	0.00100	1	10/18/2022 13:49	WG1944667
Ethylbenzene	U		0.000137	0.00100	1	10/18/2022 13:49	WG1944667
Isopropylbenzene	U		0.000105	0.00100	1	10/18/2022 13:49	WG1944667
Naphthalene	U		0.00100	0.00500	1	10/18/2022 13:49	WG1944667
Toluene	U		0.000278	0.00100	1	10/18/2022 13:49	WG1944667
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/18/2022 13:49	WG1944667
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/18/2022 13:49	WG1944667
m&p-Xylene	U		0.000430	0.00200	1	10/18/2022 13:49	WG1944667
o-Xylene	U		0.000174	0.00100	1	10/18/2022 13:49	WG1944667
(S) Toluene-d8	109			80.0-120		10/18/2022 13:49	WG1944667
(S) 4-Bromofluorobenzene	110			77.0-126		10/18/2022 13:49	WG1944667
(S) 1,2-Dichloroethane-d4	118			70.0-130		10/18/2022 13:49	WG1944667

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Semi-Volatile Organic Compounds (GC) by Method AK102

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	0.565	<u>J</u>	0.170	0.800	1	10/19/2022 12:59	WG1943589
(S) o-Terphenyl	84.3			50.0-150		10/19/2022 12:59	WG1943589

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	10/18/2022 06:35	WG1944201
Acenaphthene	U		0.0000190	0.0000500	1	10/18/2022 06:35	WG1944201
Acenaphthylene	U		0.0000171	0.0000500	1	10/18/2022 06:35	WG1944201
Benzo(a)anthracene	U		0.0000203	0.0000500	1	10/18/2022 06:35	WG1944201
Benzo(a)pyrene	U		0.0000184	0.0000500	1	10/18/2022 06:35	WG1944201
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	10/18/2022 06:35	WG1944201
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	1	10/18/2022 06:35	WG1944201
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	10/18/2022 06:35	WG1944201
Chrysene	U		0.0000179	0.0000500	1	10/18/2022 06:35	WG1944201
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	10/18/2022 06:35	WG1944201
Fluoranthene	U		0.0000270	0.000100	1	10/18/2022 06:35	WG1944201
Fluorene	U		0.0000169	0.0000500	1	10/18/2022 06:35	WG1944201
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	10/18/2022 06:35	WG1944201
Naphthalene	U		0.0000917	0.000250	1	10/18/2022 06:35	WG1944201
Phenanthrene	U		0.0000180	0.0000500	1	10/18/2022 06:35	WG1944201
Pyrene	0.0000252	<u>J</u>	0.0000169	0.0000500	1	10/18/2022 06:35	WG1944201

ACCOUNT: Stantec - 7-11 PROJECT: 185705773

SDG: L1546587 **DATE/TIME**: 10/26/22 14:47

PAGE: 7 of 41

SAMPLE RESULTS - 01

Collected date/time: 10/12/22 13:51

L1546587

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
1-Methylnaphthalene	U		0.0000687	0.000250	1	10/18/2022 06:35	WG1944201
2-Methylnaphthalene	U		0.0000674	0.000250	1	10/18/2022 06:35	WG1944201
(S) Nitrobenzene-d5	101			31.0-160		10/18/2022 06:35	WG1944201
(S) 2-Fluorobiphenyl	87.5			48.0-148		10/18/2022 06:35	WG1944201
(S) p-Terphenyl-d14	77.5			37.0-146		10/18/2022 06:35	WG1944201



















DATE/TIME:

10/26/22 14:47

PAGE:

Analyte

TPHGAK C6 to C10

a,a,a-Trifluorotoluene(FID) (S) a,a,a-Trifluorotoluene(PID)

SAMPLE RESULTS - 02

Collected date/time: 10/12/22 17:31

Metals (ICP) by Method 6010

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
Sodium	7.96		0.304	1.00	1	10/24/2022 21:39	WG1946741

Dilution

Analysis

date / time

10/18/2022 02:31

10/18/2022 02:31

10/18/2022 02:31

Batch

WG1943483

WG1943483

WG1943483

RDL

mg/l

0.100

50.0-150

79.0-125





Ss









Gl



Volatile Organic Compounds (GC/MS) by Method 524 2/8260C

J

Qualifier

MDL

mg/l

0.0287

Volatile Organic Compounds (GC) by Method AK101

Result

0.0349

mg/l

86.2

101

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	10/18/2022 14:08	WG1944667
n-Butylbenzene	U		0.000157	0.00100	1	10/18/2022 14:08	WG1944667
sec-Butylbenzene	U		0.000125	0.00100	1	10/18/2022 14:08	WG1944667
tert-Butylbenzene	U		0.000127	0.00100	1	10/18/2022 14:08	WG1944667
Ethylbenzene	0.000464	<u>J</u>	0.000137	0.00100	1	10/18/2022 14:08	WG1944667
Isopropylbenzene	0.000218	<u>J</u>	0.000105	0.00100	1	10/18/2022 14:08	WG1944667
Naphthalene	U		0.00100	0.00500	1	10/18/2022 14:08	WG1944667
Toluene	U		0.000278	0.00100	1	10/18/2022 14:08	WG1944667
1,2,4-Trimethylbenzene	0.00118		0.000322	0.00100	1	10/18/2022 14:08	WG1944667
1,3,5-Trimethylbenzene	0.000508	<u>J</u>	0.000104	0.00100	1	10/18/2022 14:08	WG1944667
m&p-Xylene	0.000449	<u>J</u>	0.000430	0.00200	1	10/18/2022 14:08	WG1944667
o-Xylene	U		0.000174	0.00100	1	10/18/2022 14:08	WG1944667
(S) Toluene-d8	107			80.0-120		10/18/2022 14:08	WG1944667
(S) 4-Bromofluorobenzene	106			77.0-126		10/18/2022 14:08	WG1944667
(S) 1,2-Dichloroethane-d4	115			70.0-130		10/18/2022 14:08	WG1944667

Sc

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Semi-Volatile Organic Compounds (GC) by Method AK102

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	0.392	<u>J</u>	0.170	0.800	1	10/19/2022 13:19	WG1943589
(S) o-Terphenyl	83.0			50.0-150		10/19/2022 13:19	WG1943589

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	10/18/2022 06:01	WG1944201
Acenaphthene	U		0.0000190	0.0000500	1	10/18/2022 06:01	WG1944201
Acenaphthylene	U		0.0000171	0.0000500	1	10/18/2022 06:01	WG1944201
Benzo(a)anthracene	U		0.0000203	0.0000500	1	10/18/2022 06:01	WG1944201
Benzo(a)pyrene	U		0.0000184	0.0000500	1	10/18/2022 06:01	WG1944201
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	10/18/2022 06:01	WG1944201
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	1	10/18/2022 06:01	WG1944201
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	10/18/2022 06:01	WG1944201
Chrysene	0.0000235	<u>J</u>	0.0000179	0.0000500	1	10/18/2022 06:01	WG1944201
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	10/18/2022 06:01	WG1944201
Fluoranthene	U		0.0000270	0.000100	1	10/18/2022 06:01	WG1944201
Fluorene	U		0.0000169	0.0000500	1	10/18/2022 06:01	WG1944201
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	10/18/2022 06:01	WG1944201
Naphthalene	U		0.0000917	0.000250	1	10/18/2022 06:01	WG1944201
Phenanthrene	U		0.0000180	0.0000500	1	10/18/2022 06:01	WG1944201
Pyrene	0.0000187	<u>J</u>	0.0000169	0.0000500	1	10/18/2022 06:01	WG1944201

ACCOUNT: Stantec - 7-11 PROJECT: 185705773

SDG: L1546587

DATE/TIME: 10/26/22 14:47 PAGE:

SAMPLE RESULTS - 02

Collected date/time: 10/12/22 17:31

L1546587

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
1-Methylnaphthalene	U		0.0000687	0.000250	1	10/18/2022 06:01	WG1944201
2-Methylnaphthalene	0.0000836	<u>J</u>	0.0000674	0.000250	1	10/18/2022 06:01	WG1944201
(S) Nitrobenzene-d5	103			31.0-160		10/18/2022 06:01	WG1944201
(S) 2-Fluorobiphenyl	100			48.0-148		10/18/2022 06:01	WG1944201
(S) p-Terphenyl-d14	98.5			37.0-146		10/18/2022 06:01	WG1944201



















DATE/TIME:

10/26/22 14:47

PAGE:

SAMPLE RESULTS - 03

Metals (ICP) by Method 6010

Collected date/time: 10/12/22 13:00

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Sodium	8.87		0.304	1.00	1	10/24/2022 21:45	WG1946741



Volatile Organic Compounds (GC) by Method AK101

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	U		0.0287	0.100	1	10/18/2022 02:57	WG1943483
(S) a,a,a-Trifluorotoluene(FID)	89.1			50.0-150		10/18/2022 02:57	WG1943483
(S) a,a,a-Trifluorotoluene(PID)	102			79.0-125		10/18/2022 02:57	WG1943483



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GI

Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	10/18/2022 14:27	WG1944667
n-Butylbenzene	U		0.000157	0.00100	1	10/18/2022 14:27	WG1944667
sec-Butylbenzene	U		0.000125	0.00100	1	10/18/2022 14:27	WG1944667
tert-Butylbenzene	U		0.000127	0.00100	1	10/18/2022 14:27	WG1944667
Ethylbenzene	U		0.000137	0.00100	1	10/18/2022 14:27	WG1944667
Isopropylbenzene	U		0.000105	0.00100	1	10/18/2022 14:27	WG1944667
Naphthalene	U		0.00100	0.00500	1	10/18/2022 14:27	WG1944667
Toluene	U		0.000278	0.00100	1	10/18/2022 14:27	WG1944667
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/18/2022 14:27	WG1944667
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/18/2022 14:27	WG1944667
m&p-Xylene	U		0.000430	0.00200	1	10/18/2022 14:27	WG1944667
o-Xylene	U		0.000174	0.00100	1	10/18/2022 14:27	WG1944667
(S) Toluene-d8	109			80.0-120		10/18/2022 14:27	WG1944667
(S) 4-Bromofluorobenzene	109			77.0-126		10/18/2022 14:27	WG1944667
(S) 1,2-Dichloroethane-d4	118			70.0-130		10/18/2022 14:27	WG1944667



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Semi-Volatile Organic Compounds (GC) by Method AK102

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	U		0.170	0.800	1	10/19/2022 13:40	WG1943589
(S) o-Terphenyl	83.8			50.0-150		10/19/2022 13:40	WG1943589

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	10/18/2022 03:59	WG1944201
Acenaphthene	U		0.0000190	0.0000500	1	10/18/2022 03:59	WG1944201
Acenaphthylene	U		0.0000171	0.0000500	1	10/18/2022 03:59	WG1944201
Benzo(a)anthracene	U		0.0000203	0.0000500	1	10/18/2022 03:59	WG1944201
Benzo(a)pyrene	U		0.0000184	0.0000500	1	10/18/2022 03:59	WG1944201
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	10/18/2022 03:59	WG1944201
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	1	10/18/2022 03:59	WG1944201
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	10/18/2022 03:59	WG1944201
Chrysene	U		0.0000179	0.0000500	1	10/18/2022 03:59	WG1944201
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	10/18/2022 03:59	WG1944201
Fluoranthene	U		0.0000270	0.000100	1	10/18/2022 03:59	WG1944201
Fluorene	U		0.0000169	0.0000500	1	10/18/2022 03:59	WG1944201
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	10/18/2022 03:59	WG1944201
Naphthalene	U		0.0000917	0.000250	1	10/18/2022 03:59	WG1944201
Phenanthrene	U		0.0000180	0.0000500	1	10/18/2022 03:59	WG1944201
Pyrene	U		0.0000169	0.0000500	1	10/18/2022 03:59	WG1944201

ACCOUNT: Stantec - 7-11 PROJECT: 185705773

SDG: L1546587

DATE/TIME: 10/26/22 14:47 PAGE: 11 of 41

SAMPLE RESULTS - 03

Collected date/time: 10/12/22 13:00

L1546587

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
1-Methylnaphthalene	U		0.0000687	0.000250	1	10/18/2022 03:59	WG1944201
2-Methylnaphthalene	U		0.0000674	0.000250	1	10/18/2022 03:59	WG1944201
(S) Nitrobenzene-d5	103			31.0-160		10/18/2022 03:59	WG1944201
(S) 2-Fluorobiphenyl	97.5			48.0-148		10/18/2022 03:59	WG1944201
(S) p-Terphenyl-d14	94.5			37.0-146		10/18/2022 03:59	WG1944201



















DATE/TIME:

10/26/22 14:47

PAGE:

SAMPLE RESULTS - 04

Collected date/time: 10/12/22 12:11

Metals (ICP) by Method 6010

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>	
Analyte	mg/l		mg/l	mg/l		date / time		
Sodium	6.88		0.304	1.00	1	10/24/2022 21:50	WG1946741	





Volatile Organic Compounds (GC) by Method AK101

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	U		0.0287	0.100	1	10/18/2022 03:23	WG1943483
(S) a,a,a-Trifluorotoluene(FID)	87.2			50.0-150		10/18/2022 03:23	WG1943483
(S) a,a,a-Trifluorotoluene(PID)	102			79.0-125		10/18/2022 03:23	WG1943483



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Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	10/18/2022 14:46	WG1944667
n-Butylbenzene	U		0.000157	0.00100	1	10/18/2022 14:46	WG1944667
sec-Butylbenzene	U		0.000125	0.00100	1	10/18/2022 14:46	WG1944667
tert-Butylbenzene	U		0.000127	0.00100	1	10/18/2022 14:46	WG1944667
Ethylbenzene	U		0.000137	0.00100	1	10/18/2022 14:46	WG1944667
Isopropylbenzene	U		0.000105	0.00100	1	10/18/2022 14:46	WG1944667
Naphthalene	U		0.00100	0.00500	1	10/18/2022 14:46	WG1944667
Toluene	U		0.000278	0.00100	1	10/18/2022 14:46	WG1944667
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/18/2022 14:46	WG1944667
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/18/2022 14:46	WG1944667
m&p-Xylene	U		0.000430	0.00200	1	10/18/2022 14:46	WG1944667
o-Xylene	U		0.000174	0.00100	1	10/18/2022 14:46	WG1944667
(S) Toluene-d8	109			80.0-120		10/18/2022 14:46	WG1944667
(S) 4-Bromofluorobenzene	109			77.0-126		10/18/2022 14:46	WG1944667
(S) 1,2-Dichloroethane-d4	121			70.0-130		10/18/2022 14:46	WG1944667

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Semi-Volatile Organic Compounds (GC) by Method AK102

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	U		0.170	0.800	1	10/19/2022 14:00	WG1943589
(S) o-Terphenyl	86.5			50.0-150		10/19/2022 14:00	WG1943589

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	10/18/2022 02:33	WG1944201
Acenaphthene	U		0.0000190	0.0000500	1	10/18/2022 02:33	WG1944201
Acenaphthylene	U		0.0000171	0.0000500	1	10/18/2022 02:33	WG1944201
Benzo(a)anthracene	U		0.0000203	0.0000500	1	10/18/2022 02:33	WG1944201
Benzo(a)pyrene	U		0.0000184	0.0000500	1	10/18/2022 02:33	WG1944201
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	10/18/2022 02:33	WG1944201
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	1	10/18/2022 02:33	WG1944201
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	10/18/2022 02:33	WG1944201
Chrysene	U		0.0000179	0.0000500	1	10/18/2022 02:33	WG1944201
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	10/18/2022 02:33	WG1944201
Fluoranthene	U		0.0000270	0.000100	1	10/18/2022 02:33	WG1944201
Fluorene	U		0.0000169	0.0000500	1	10/18/2022 02:33	WG1944201
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	10/18/2022 02:33	WG1944201
Naphthalene	U		0.0000917	0.000250	1	10/18/2022 02:33	WG1944201
Phenanthrene	U		0.0000180	0.0000500	1	10/18/2022 02:33	WG1944201
Pyrene	U		0.0000169	0.0000500	1	10/18/2022 02:33	WG1944201

ACCOUNT: Stantec - 7-11 PROJECT: 185705773

SDG: L1546587 **DATE/TIME**: 10/26/22 14:47

PAGE: 13 of 41

SAMPLE RESULTS - 04

Collected date/time: 10/12/22 12:11

L1546587

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
1-Methylnaphthalene	U		0.0000687	0.000250	1	10/18/2022 02:33	WG1944201
2-Methylnaphthalene	U		0.0000674	0.000250	1	10/18/2022 02:33	WG1944201
(S) Nitrobenzene-d5	101			31.0-160		10/18/2022 02:33	WG1944201
(S) 2-Fluorobiphenyl	101			48.0-148		10/18/2022 02:33	WG1944201
(S) p-Terphenyl-d14	103			37.0-146		10/18/2022 02:33	WG1944201



















SDG:

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DATE/TIME:

10/26/22 14:47

PAGE:

MW16-02

SAMPLE RESULTS - 05

Collected date/time: 10/12/22 15:02

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Metals (ICP) by Method 6010

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
Sodium	9.84		0.304	1.00	1	10/24/2022 21:55	WG1946741



Volatile Organic Compounds (GC) by Method AK101

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	U		0.0287	0.100	1	10/18/2022 17:59	WG1944501
(S) a,a,a-Trifluorotoluene(FID)	87.4			50.0-150		10/18/2022 17:59	<u>WG1944501</u>
(S) a,a,a-Trifluorotoluene(PID)	103			79.0-125		10/18/2022 17:59	WG1944501



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Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	10/18/2022 15:05	WG1944667
n-Butylbenzene	U		0.000157	0.00100	1	10/18/2022 15:05	WG1944667
sec-Butylbenzene	U		0.000125	0.00100	1	10/18/2022 15:05	WG1944667
tert-Butylbenzene	U		0.000127	0.00100	1	10/18/2022 15:05	WG1944667
Ethylbenzene	U		0.000137	0.00100	1	10/18/2022 15:05	WG1944667
Isopropylbenzene	U		0.000105	0.00100	1	10/18/2022 15:05	WG1944667
Naphthalene	U		0.00100	0.00500	1	10/18/2022 15:05	WG1944667
Toluene	U		0.000278	0.00100	1	10/18/2022 15:05	WG1944667
1,2,4-Trimethylbenzene	0.000523	<u>J</u>	0.000322	0.00100	1	10/18/2022 15:05	WG1944667
1,3,5-Trimethylbenzene	0.000487	<u>J</u>	0.000104	0.00100	1	10/18/2022 15:05	WG1944667
m&p-Xylene	U		0.000430	0.00200	1	10/18/2022 15:05	WG1944667
o-Xylene	U		0.000174	0.00100	1	10/18/2022 15:05	WG1944667
(S) Toluene-d8	110			80.0-120		10/18/2022 15:05	WG1944667
(S) 4-Bromofluorobenzene	106			77.0-126		10/18/2022 15:05	WG1944667
(S) 1,2-Dichloroethane-d4	119			70.0-130		10/18/2022 15:05	WG1944667

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Semi-Volatile Organic Compounds (GC) by Method AK102

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	U		0.170	0.800	1	10/19/2022 14:20	WG1943589
(S) o-Terphenyl	84.8			50.0-150		10/19/2022 14:20	WG1943589

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	10/18/2022 02:50	WG1944201
Acenaphthene	U		0.0000190	0.0000500	1	10/18/2022 02:50	WG1944201
Acenaphthylene	U		0.0000171	0.0000500	1	10/18/2022 02:50	WG1944201
Benzo(a)anthracene	U		0.0000203	0.0000500	1	10/18/2022 02:50	WG1944201
Benzo(a)pyrene	U		0.0000184	0.0000500	1	10/18/2022 02:50	WG1944201
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	10/18/2022 02:50	WG1944201
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	1	10/18/2022 02:50	WG1944201
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	10/18/2022 02:50	WG1944201
Chrysene	U		0.0000179	0.0000500	1	10/18/2022 02:50	WG1944201
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	10/18/2022 02:50	WG1944201
Fluoranthene	U		0.0000270	0.000100	1	10/18/2022 02:50	WG1944201
Fluorene	U		0.0000169	0.0000500	1	10/18/2022 02:50	WG1944201
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	10/18/2022 02:50	WG1944201
Naphthalene	U		0.0000917	0.000250	1	10/18/2022 02:50	WG1944201
Phenanthrene	U		0.0000180	0.0000500	1	10/18/2022 02:50	WG1944201
Pyrene	U		0.0000169	0.0000500	1	10/18/2022 02:50	WG1944201

ACCOUNT: Stantec - 7-11 PROJECT: 185705773

SDG: L1546587 **DATE/TIME**: 10/26/22 14:47

PAGE: 15 of 41

MW16-02

SAMPLE RESULTS - 05

Collected date/time: 10/12/22 15:02

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
1-Methylnaphthalene	U		0.0000687	0.000250	1	10/18/2022 02:50	WG1944201
2-Methylnaphthalene	U		0.0000674	0.000250	1	10/18/2022 02:50	WG1944201
(S) Nitrobenzene-d5	100			31.0-160		10/18/2022 02:50	WG1944201
(S) 2-Fluorobiphenyl	98.5			48.0-148		10/18/2022 02:50	WG1944201
(S) p-Terphenyl-d14	101			37.0-146		10/18/2022 02:50	WG1944201



















DATE/TIME:

PAGE:

DUP1

SAMPLE RESULTS - 06

Collected date/time: 10/12/22 00:00

L1546587

Metals (ICP) by Method 6010

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
Sodium	8.91		0.304	1.00	1	10/24/2022 22:00	WG1946741



Volatile Organic Compounds (GC) by Method AK101

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	0.0294	J	0.0287	0.100	1	10/18/2022 18:26	WG1944501
(S) a,a,a-Trifluorotoluene(FID)	91.1			50.0-150		10/18/2022 18:26	WG1944501
(S) a,a,a-Trifluorotoluene(PID)	102			79.0-125		10/18/2022 18:26	WG1944501



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Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	10/18/2022 15:24	WG1944667
n-Butylbenzene	U		0.000157	0.00100	1	10/18/2022 15:24	WG1944667
sec-Butylbenzene	U		0.000125	0.00100	1	10/18/2022 15:24	WG1944667
tert-Butylbenzene	U		0.000127	0.00100	1	10/18/2022 15:24	WG1944667
Ethylbenzene	U		0.000137	0.00100	1	10/18/2022 15:24	WG1944667
Isopropylbenzene	U		0.000105	0.00100	1	10/18/2022 15:24	WG1944667
Naphthalene	U		0.00100	0.00500	1	10/18/2022 15:24	WG1944667
Toluene	U		0.000278	0.00100	1	10/18/2022 15:24	WG1944667
1,2,4-Trimethylbenzene	0.000523	<u>J</u>	0.000322	0.00100	1	10/18/2022 15:24	WG1944667
1,3,5-Trimethylbenzene	0.000423	<u>J</u>	0.000104	0.00100	1	10/18/2022 15:24	WG1944667
m&p-Xylene	U		0.000430	0.00200	1	10/18/2022 15:24	WG1944667
o-Xylene	U		0.000174	0.00100	1	10/18/2022 15:24	WG1944667
(S) Toluene-d8	112			80.0-120		10/18/2022 15:24	WG1944667
(S) 4-Bromofluorobenzene	105			77.0-126		10/18/2022 15:24	WG1944667
(S) 1,2-Dichloroethane-d4	118			70.0-130		10/18/2022 15:24	WG1944667

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Semi-Volatile Organic Compounds (GC) by Method AK102

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	U		0.170	0.800	1	10/19/2022 14:40	WG1943589
(S) o-Terphenyl	92.0			50.0-150		10/19/2022 14:40	WG1943589

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	10/18/2022 03:07	WG1944201
Acenaphthene	U		0.0000190	0.0000500	1	10/18/2022 03:07	WG1944201
Acenaphthylene	U		0.0000171	0.0000500	1	10/18/2022 03:07	WG1944201
Benzo(a)anthracene	U		0.0000203	0.0000500	1	10/18/2022 03:07	WG1944201
Benzo(a)pyrene	U		0.0000184	0.0000500	1	10/18/2022 03:07	WG1944201
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	10/18/2022 03:07	WG1944201
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	1	10/18/2022 03:07	WG1944201
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	10/18/2022 03:07	WG1944201
Chrysene	U		0.0000179	0.0000500	1	10/18/2022 03:07	WG1944201
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	10/18/2022 03:07	WG1944201
Fluoranthene	U		0.0000270	0.000100	1	10/18/2022 03:07	WG1944201
Fluorene	U		0.0000169	0.0000500	1	10/18/2022 03:07	WG1944201
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	10/18/2022 03:07	WG1944201
Naphthalene	U		0.0000917	0.000250	1	10/18/2022 03:07	WG1944201
Phenanthrene	U		0.0000180	0.0000500	1	10/18/2022 03:07	WG1944201
Pyrene	U		0.0000169	0.0000500	1	10/18/2022 03:07	WG1944201

ACCOUNT: Stantec - 7-11 PROJECT: 185705773

SDG: L1546587 **DATE/TIME**: 10/26/22 14:47

PAGE: 17 of 41 DUP1

SAMPLE RESULTS - 06

Collected date/time: 10/12/22 00:00

L1546587

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
1-Methylnaphthalene	U		0.0000687	0.000250	1	10/18/2022 03:07	WG1944201
2-Methylnaphthalene	U		0.0000674	0.000250	1	10/18/2022 03:07	WG1944201
(S) Nitrobenzene-d5	103			31.0-160		10/18/2022 03:07	WG1944201
(S) 2-Fluorobiphenyl	100			48.0-148		10/18/2022 03:07	WG1944201
(S) p-Terphenyl-d14	102			37.0-146		10/18/2022 03:07	WG1944201



















DATE/TIME:

10/26/22 14:47

PAGE:

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SAMPLE RESULTS - 07

Collected date/time: 10/12/22 00:00

L1546587

Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	10/18/2022 12:13	WG1944667
n-Butylbenzene	U		0.000157	0.00100	1	10/18/2022 12:13	WG1944667
sec-Butylbenzene	U		0.000125	0.00100	1	10/18/2022 12:13	WG1944667
tert-Butylbenzene	U		0.000127	0.00100	1	10/18/2022 12:13	WG1944667
Ethylbenzene	U		0.000137	0.00100	1	10/18/2022 12:13	WG1944667
Isopropylbenzene	U		0.000105	0.00100	1	10/18/2022 12:13	WG1944667
Naphthalene	U		0.00100	0.00500	1	10/18/2022 12:13	WG1944667
Toluene	U		0.000278	0.00100	1	10/18/2022 12:13	WG1944667
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/18/2022 12:13	WG1944667
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/18/2022 12:13	WG1944667
m&p-Xylene	U		0.000430	0.00200	1	10/18/2022 12:13	WG1944667
o-Xylene	U		0.000174	0.00100	1	10/18/2022 12:13	WG1944667
(S) Toluene-d8	111			80.0-120		10/18/2022 12:13	WG1944667
(S) 4-Bromofluorobenzene	110			77.0-126		10/18/2022 12:13	WG1944667
(S) 1,2-Dichloroethane-d4	120			70.0-130		10/18/2022 12:13	WG1944667



















DATE/TIME:

10/26/22 14:47

RW16-01

SAMPLE RESULTS - 08

Collected date/time: 10/12/22 14:18

L1546587

Metals (ICP) by Method 6010

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
Sodium	26.7		0.304	1.00	1	10/24/2022 22:05	WG1946741

²Tc

Volatile Organic Compounds (GC) by Method AK101

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	0.322		0.0287	0.100	1	10/18/2022 19:03	WG1944501
(S) a,a,a-Trifluorotoluene(FID)	85.6			50.0-150		10/18/2022 19:03	WG1944501
(S) a,a,a-Trifluorotoluene(PID)	101			79.0-125		10/18/2022 19:03	WG1944501



Ss

Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Benzene	0.000309	<u>J</u>	0.0000941	0.00100	1	10/18/2022 15:44	WG1944667
n-Butylbenzene	U		0.000157	0.00100	1	10/18/2022 15:44	WG1944667
sec-Butylbenzene	U		0.000125	0.00100	1	10/18/2022 15:44	WG1944667
tert-Butylbenzene	U		0.000127	0.00100	1	10/18/2022 15:44	WG1944667
Ethylbenzene	0.000383	<u>J</u>	0.000137	0.00100	1	10/18/2022 15:44	WG1944667
Isopropylbenzene	0.000147	<u>J</u>	0.000105	0.00100	1	10/18/2022 15:44	WG1944667
Naphthalene	U		0.00100	0.00500	1	10/18/2022 15:44	WG1944667
Toluene	0.000380	<u>J</u>	0.000278	0.00100	1	10/18/2022 15:44	WG1944667
1,2,4-Trimethylbenzene	0.00241		0.000322	0.00100	1	10/18/2022 15:44	WG1944667
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/18/2022 15:44	WG1944667
m&p-Xylene	0.00953		0.000430	0.00200	1	10/18/2022 15:44	WG1944667
o-Xylene	0.00347		0.000174	0.00100	1	10/18/2022 15:44	WG1944667
(S) Toluene-d8	108			80.0-120		10/18/2022 15:44	WG1944667
(S) 4-Bromofluorobenzene	110			77.0-126		10/18/2022 15:44	WG1944667
(S) 1,2-Dichloroethane-d4	121			70.0-130		10/18/2022 15:44	WG1944667

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Semi-Volatile Organic Compounds (GC) by Method AK102

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	0.500	<u>J</u>	0.170	0.800	1	10/19/2022 15:01	WG1943589
(S) o-Terphenyl	87.5			50.0-150		10/19/2022 15:01	WG1943589

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	10/18/2022 05:43	WG1944201
Acenaphthene	U		0.0000190	0.0000500	1	10/18/2022 05:43	WG1944201
Acenaphthylene	U		0.0000171	0.0000500	1	10/18/2022 05:43	WG1944201
Benzo(a)anthracene	U		0.0000203	0.0000500	1	10/18/2022 05:43	WG1944201
Benzo(a)pyrene	U		0.0000184	0.0000500	1	10/18/2022 05:43	WG1944201
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	10/18/2022 05:43	WG1944201
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	1	10/18/2022 05:43	WG1944201
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	10/18/2022 05:43	WG1944201
Chrysene	U		0.0000179	0.0000500	1	10/18/2022 05:43	WG1944201
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	10/18/2022 05:43	WG1944201
Fluoranthene	U		0.0000270	0.000100	1	10/18/2022 05:43	WG1944201
Fluorene	0.0000297	<u>J</u>	0.0000169	0.0000500	1	10/18/2022 05:43	WG1944201
ndeno(1,2,3-cd)pyrene	U	_	0.0000158	0.0000500	1	10/18/2022 05:43	WG1944201
Naphthalene	0.00110		0.0000917	0.000250	1	10/18/2022 05:43	WG1944201
Phenanthrene	U		0.0000180	0.0000500	1	10/18/2022 05:43	WG1944201
Pyrene	U		0.0000169	0.0000500	1	10/18/2022 05:43	WG1944201

ACCOUNT: Stantec - 7-11 PROJECT: 185705773

SDG: L1546587 **DATE/TIME**: 10/26/22 14:47

PAGE: 20 of 41

RW16-01

SAMPLE RESULTS - 08

Collected date/time: 10/12/22 14:18

L1546587

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
1-Methylnaphthalene	0.000499		0.0000687	0.000250	1	10/18/2022 05:43	WG1944201
2-Methylnaphthalene	0.000667		0.0000674	0.000250	1	10/18/2022 05:43	WG1944201
(S) Nitrobenzene-d5	92.5			31.0-160		10/18/2022 05:43	WG1944201
(S) 2-Fluorobiphenyl	91.5			48.0-148		10/18/2022 05:43	WG1944201
(S) p-Terphenyl-d14	80.0			37.0-146		10/18/2022 05:43	WG1944201



















PAGE:

RUNION LOT4

SAMPLE RESULTS - 09

Collected date/time: 10/12/22 12:11

1546587

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Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

Analyte Mg/l
Benzene U 0.0000490 0.000500 1 10/17/2022 12:08 WG1943882 Carbon tetrachloride U 0.0000660 0.000500 1 10/17/2022 12:08 WG1943882 1,4-Dichlorobenzene U 0.0000310 0.000500 1 10/17/2022 12:08 WG1943882 1,2-Dichloroethane U 0.0000498 0.000500 1 10/17/2022 12:08 WG1943882 1,1,1-Trichloroethane U 0.0000540 0.000500 1 10/17/2022 12:08 WG1943882 1,1,1-Trichloroethane U 0.0000490 0.000500 1 10/17/2022 12:08 WG1943882 Vinyl chloride U 0.0000440 0.000500 1 10/17/2022 12:08 WG1943882 Vinyl chloride U 0.0000530 0.000500 1 10/17/2022 12:08 WG1943882 Vinyl chloride U 0.0000640 0.000500 1 10/17/2022 12:08 WG1943882 Visens, Total U 0.0000640 0.000500 1 10/17/2022 12:08 WG1943882
Carbon tetrachloride U 0.0000660 0.000500 1 10/17/2022 12:08 WG1943882 1,4-Dichlorobenzene U 0.0000310 0.000500 1 10/17/2022 12:08 WG1943882 1,2-Dichloroethane U 0.0000498 0.000500 1 10/17/2022 12:08 WG1943882 1,1-Dichloroethane U 0.0000540 0.000500 1 10/17/2022 12:08 WG1943882 1,1,1-Trichloroethane U 0.0000490 0.000500 1 10/17/2022 12:08 WG1943882 1,1,1-Trichloroethane U 0.0000440 0.000500 1 10/17/2022 12:08 WG1943882 Vinyl chloride U 0.0000260 0.000500 1 10/17/2022 12:08 WG1943882 Vinyl chloride U 0.0000530 0.000500 1 10/17/2022 12:08 WG1943882 Visens, Total U 0.0000640 0.000500 1 10/17/2022 12:08 WG1943882 Methylene chloride U 0.0000608 0.000500 1 10/17/2022 12:08 WG1
1,4-Dichlorobenzene U 0.0000310 0.000500 1 10/17/2022 12:08 WG1943882 1,2-Dichloroethane U 0.0000498 0.000500 1 10/17/2022 12:08 WG1943882 1,1-Dichloroethene U 0.0000540 0.000500 1 10/17/2022 12:08 WG1943882 1,1,1-Trichloroethane U 0.0000490 0.000500 1 10/17/2022 12:08 WG1943882 Trichloroethene U 0.0000440 0.000500 1 10/17/2022 12:08 WG1943882 Vinyl chloride U 0.0000260 0.000500 1 10/17/2022 12:08 WG1943882 Vinyl chloride portal porta
1,2-Dichloroethane U 0.0000498 0.000500 1 10/17/2022 12:08 WG1943882 1,1-Dichloroethane U 0.0000540 0.000500 1 10/17/2022 12:08 WG1943882 1,1,1-Trichloroethane U 0.0000490 0.000500 1 10/17/2022 12:08 WG1943882 Trichloroethene U 0.0000440 0.000500 1 10/17/2022 12:08 WG1943882 Vinyl chloride U 0.0000260 0.00500 1 10/17/2022 12:08 WG1943882 1,2,4-Trichlorobenzene U 0.0000530 0.000500 1 10/17/2022 12:08 WG1943882 Cis-1,2-Dichloroethene U 0.000640 0.00500 1 10/17/2022 12:08 WG1943882 Xylenes, Total U 0.000167 0.000500 1 10/17/2022 12:08 WG1943882 Methylene chloride U 0.000608 0.00500 1 10/17/2022 12:08 WG1943882 1,2-Dichlorobenzene U 0.0000410 0.000500 1 10/17/2022 12:08 WG1943882 trans-1,2-Dichloropropane U 0.0000270 0.00050
1,1-Dichloroethene U 0.0000540 0.000500 1 10/17/2022 12:08 WG1943882 1,1,1-Trichloroethane U 0.0000490 0.000500 1 10/17/2022 12:08 WG1943882 Trichloroethene U 0.0000440 0.000500 1 10/17/2022 12:08 WG1943882 Vinyl chloride U 0.0000260 0.000500 1 10/17/2022 12:08 WG1943882 1,2,4-Trichlorobenzene U 0.0000530 0.000500 1 10/17/2022 12:08 WG1943882 cis-1,2-Dichloroethene U 0.0000640 0.000500 1 10/17/2022 12:08 WG1943882 Xylenes, Total U 0.000167 0.000500 1 10/17/2022 12:08 WG1943882 Methylene chloride U 0.0000608 0.000500 1 10/17/2022 12:08 WG1943882 1,2-Dichlorobenzene U 0.0000410 0.000500 1 10/17/2022 12:08 WG1943882 trans-1,2-Dichloroethene U 0.000000 0.000500 1 10/17/2022 12:08 WG1943882 1,2-Dichloropropane U 0.0000070 0.0
1,1,1-Trichloroethane U 0.0000490 0.000500 1 10/17/2022 12:08 WG1943882 Trichloroethene U 0.0000440 0.000500 1 10/17/2022 12:08 WG1943882 Vinyl chloride U 0.0000260 0.000500 1 10/17/2022 12:08 WG1943882 1,2,4-Trichlorobenzene U 0.0000530 0.000500 1 10/17/2022 12:08 WG1943882 cis-1,2-Dichloroethene U 0.0000640 0.000500 1 10/17/2022 12:08 WG1943882 Xylenes, Total U 0.000167 0.000500 1 10/17/2022 12:08 WG1943882 Methylene chloride U 0.0000608 0.000500 1 10/17/2022 12:08 WG1943882 1,2-Dichlorobenzene U 0.0000410 0.000500 1 10/17/2022 12:08 WG1943882 trans-1,2-Dichloroethene U 0.0000270 0.000500 1 10/17/2022 12:08 WG1943882 1,2-Dichloropropane U 0.0000270 0.000500 1 10/17/2022 12:08 WG1943882 1,1,2-Trichloroethane U 0.0000701 <td< td=""></td<>
Trichloroethene U 0.0000440 0.000500 1 10/17/2022 12:08 WG1943882 Vinyl chloride U 0.0000260 0.000500 1 10/17/2022 12:08 WG1943882 1,2,4-Trichlorobenzene U 0.0000530 0.000500 1 10/17/2022 12:08 WG1943882 cis-1,2-Dichloroethene U 0.000640 0.000500 1 10/17/2022 12:08 WG1943882 Xylenes, Total U 0.000167 0.000500 1 10/17/2022 12:08 WG1943882 Methylene chloride U 0.0000608 0.000500 1 10/17/2022 12:08 WG1943882 1,2-Dichlorobenzene U 0.0000410 0.000500 1 10/17/2022 12:08 WG1943882 trans-1,2-Dichloroethene U 0.000100 0.000500 1 10/17/2022 12:08 WG1943882 1,2-Dichloropropane U 0.0000270 0.000500 1 10/17/2022 12:08 WG1943882 1,1,2-Trichloroethane U 0.0000701 0.000500 1 10/17/2022 12:08
Vinyl chloride U 0.0000260 0.000500 1 10/17/2022 12:08 WG1943882 1,2,4-Trichlorobenzene U 0.0000530 0.000500 1 10/17/2022 12:08 WG1943882 cis-1,2-Dichloroethene U 0.0000640 0.000500 1 10/17/2022 12:08 WG1943882 Xylenes, Total U 0.000167 0.000500 1 10/17/2022 12:08 WG1943882 Methylene chloride U 0.0000608 0.000500 1 10/17/2022 12:08 WG1943882 1,2-Dichlorobenzene U 0.0000410 0.000500 1 10/17/2022 12:08 WG1943882 trans-1,2-Dichloroethene U 0.000100 0.000500 1 10/17/2022 12:08 WG1943882 1,2-Dichloropropane U 0.0000270 0.000500 1 10/17/2022 12:08 WG1943882 1,1,2-Trichloroethane U 0.0000701 0.000500 1 10/17/2022 12:08 WG1943882
1,2,4-Trichlorobenzene U 0.0000530 0.000500 1 10/17/2022 12:08 WG1943882 cis-1,2-Dichloroethene U 0.0000640 0.000500 1 10/17/2022 12:08 WG1943882 Xylenes, Total U 0.000167 0.000500 1 10/17/2022 12:08 WG1943882 Methylene chloride U 0.0000608 0.000500 1 10/17/2022 12:08 WG1943882 1,2-Dichlorobenzene U 0.0000410 0.000500 1 10/17/2022 12:08 WG1943882 trans-1,2-Dichloroethene U 0.000100 0.000500 1 10/17/2022 12:08 WG1943882 1,2-Dichloropropane U 0.0000270 0.000500 1 10/17/2022 12:08 WG1943882 1,1,2-Trichloroethane U 0.0000701 0.000500 1 10/17/2022 12:08 WG1943882
cis-1,2-Dichloroethene U 0.0000640 0.000500 1 10/17/2022 12:08 WG1943882 Xylenes, Total U 0.000167 0.000500 1 10/17/2022 12:08 WG1943882 Methylene chloride U 0.0000608 0.000500 1 10/17/2022 12:08 WG1943882 1,2-Dichlorobenzene U 0.0000410 0.000500 1 10/17/2022 12:08 WG1943882 trans-1,2-Dichloroethene U 0.000100 0.000500 1 10/17/2022 12:08 WG1943882 1,2-Dichloropropane U 0.0000270 0.000500 1 10/17/2022 12:08 WG1943882 1,1,2-Trichloroethane U 0.0000701 0.000500 1 10/17/2022 12:08 WG1943882
Xylenes, Total U 0.000167 0.000500 1 10/17/2022 12:08 WG1943882 Methylene chloride U 0.0000608 0.000500 1 10/17/2022 12:08 WG1943882 1,2-Dichlorobenzene U 0.0000410 0.000500 1 10/17/2022 12:08 WG1943882 trans-1,2-Dichloroethene U 0.000100 0.000500 1 10/17/2022 12:08 WG1943882 1,2-Dichloropropane U 0.0000270 0.000500 1 10/17/2022 12:08 WG1943882 1,1,2-Trichloroethane U 0.0000701 0.000500 1 10/17/2022 12:08 WG1943882
Methylene chloride U 0.0000608 0.000500 1 10/17/2022 12:08 WG1943882 1,2-Dichlorobenzene U 0.0000410 0.000500 1 10/17/2022 12:08 WG1943882 trans-1,2-Dichloroethene U 0.000100 0.000500 1 10/17/2022 12:08 WG1943882 1,2-Dichloropropane U 0.0000270 0.000500 1 10/17/2022 12:08 WG1943882 1,1,2-Trichloroethane U 0.0000701 0.000500 1 10/17/2022 12:08 WG1943882
1,2-Dichlorobenzene U 0.0000410 0.000500 1 10/17/2022 12:08 WG1943882 trans-1,2-Dichloroethene U 0.000100 0.000500 1 10/17/2022 12:08 WG1943882 1,2-Dichloropropane U 0.0000270 0.000500 1 10/17/2022 12:08 WG1943882 1,1,2-Trichloroethane U 0.0000701 0.000500 1 10/17/2022 12:08 WG1943882
trans-1,2-Dichloroethene U 0.000100 0.000500 1 10/17/2022 12:08 WG1943882 1,2-Dichloropropane U 0.0000270 0.000500 1 10/17/2022 12:08 WG1943882 1,1,2-Trichloroethane U 0.0000701 0.000500 1 10/17/2022 12:08 WG1943882
1,2-Dichloropropane U 0.0000270 0.000500 1 10/17/2022 12:08 WG1943882 1,1,2-Trichloroethane U 0.0000701 0.000500 1 10/17/2022 12:08 WG1943882
1,1,2-Trichloroethane U 0.0000701 0.000500 1 10/17/2022 12:08 WG1943882
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Tetrachloroethene U 0.0000/90 0.000500 1 10/1//2022 12:08 WG1943882
Chlorobenzene U 0.0000370 0.000500 1 10/17/2022 12:08 <u>WG1943882</u>
Toluene U 0.000412 0.00100 1 10/17/2022 12:08 WG1943882
Ethylbenzene U 0.0000440 0.000500 1 10/17/2022 12:08 <u>WG1943882</u>
Styrene U 0.0000360 0.000500 1 10/17/2022 12:08 <u>WG1943882</u>
Bromobenzene U 0.0000490 0.000500 1 10/17/2022 12:08 <u>WG1943882</u>
Bromodichloromethane U 0.0000810 0.000500 1 10/17/2022 12:08 <u>WG1943882</u>
Bromoform U 0.0000800 0.000500 1 10/17/2022 12:08 <u>WG1943882</u>
Bromomethane U 0.0000790 0.00100 1 10/17/2022 12:08 <u>WG1943882</u>
Chlorodibromomethane U 0.0000930 0.000500 1 10/17/2022 12:08 <u>WG1943882</u>
Chloroethane U 0.000190 0.000500 1 10/17/2022 12:08 <u>WG1943882</u>
Chloroform U 0.0000800 0.000500 1 10/17/2022 12:08 <u>WG1943882</u>
Chloromethane U 0.0000290 0.000500 1 10/17/2022 12:08 <u>WG1943882</u>
2-Chlorotoluene U 0.0000480 0.000500 1 10/17/2022 12:08 <u>WG1943882</u>
4-Chlorotoluene U 0.0000550 0.000500 1 10/17/2022 12:08 <u>WG1943882</u>
Dibromomethane U 0.0000700 0.000500 1 10/17/2022 12:08 <u>WG1943882</u>
Methyl tert-butyl ether U 0.0000530 0.000500 1 10/17/2022 12:08 WG1943882
1,3-Dichlorobenzene U 0.0000360 0.000500 1 10/17/2022 12:08 <u>WG1943882</u>
1,1-Dichloroethane U 0.0000240 0.000500 1 10/17/2022 12:08 <u>WG1943882</u>
1,3-Dichloropropane U 0.0000230 0.000500 1 10/17/2022 12:08 <u>WG1943882</u>
2,2-Dichloropropane U 0.0000680 0.000500 1 10/17/2022 12:08 <u>WG1943882</u>
1,1-Dichloropropene U 0.0000450 0.000500 1 10/17/2022 12:08 WG1943882
1,3-Dichloropropene U 0.000320 0.000500 1 10/17/2022 12:08 WG1943882
1,1,1,2-Tetrachloroethane U 0.0000700 0.000500 1 10/17/2022 12:08 WG1943882
1,1,2,2-Tetrachloroethane U 0.0000790 0.000500 1 10/17/2022 12:08 WG1943882
1,2,3-Trichloropropane U 0.0000720 0.000500 1 10/17/2022 12:08 WG1943882
(S) 4-Bromofluorobenzene 86.5 70.0-130 10/17/2022 12:08 WG1943882

Semi-Volatile Organic Compounds (GC) by Method AK102

(S) 1,2-Dichlorobenzene-d4 87.9

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	U		0.170	0.800	1	10/19/2022 15:21	WG1943589
(S) o-Terphenyl	83.3			50.0-150		10/19/2022 15:21	WG1943589

70.0-130

10/17/2022 12:08

WG1943882

RUNION LOT5

SAMPLE RESULTS - 10

Collected date/time: 10/12/22 12:30

1546587

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Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000490	0.000500	1	10/17/2022 12:30	WG1943882
Carbon tetrachloride	U		0.0000660	0.000500	1	10/17/2022 12:30	WG1943882
1,4-Dichlorobenzene	U		0.0000310	0.000500	1	10/17/2022 12:30	WG1943882
1,2-Dichloroethane	U		0.0000498	0.000500	1	10/17/2022 12:30	WG1943882
1,1-Dichloroethene	U		0.0000540	0.000500	1	10/17/2022 12:30	WG1943882
1,1,1-Trichloroethane	U		0.0000490	0.000500	1	10/17/2022 12:30	WG1943882
Trichloroethene	U		0.0000440	0.000500	1	10/17/2022 12:30	WG1943882
Vinyl chloride	U		0.0000260	0.000500	1	10/17/2022 12:30	WG1943882
1,2,4-Trichlorobenzene	U		0.0000530	0.000500	1	10/17/2022 12:30	WG1943882
cis-1,2-Dichloroethene	U		0.0000640	0.000500	1	10/17/2022 12:30	WG1943882
Xylenes, Total	0.000303	<u>J</u>	0.000167	0.000500	1	10/17/2022 12:30	WG1943882
Methylene chloride	U		0.0000608	0.000500	1	10/17/2022 12:30	WG1943882
1,2-Dichlorobenzene	U		0.0000410	0.000500	1	10/17/2022 12:30	WG1943882
trans-1,2-Dichloroethene	U		0.000100	0.000500	1	10/17/2022 12:30	WG1943882
1,2-Dichloropropane	U		0.0000270	0.000500	1	10/17/2022 12:30	WG1943882
1,1,2-Trichloroethane	U		0.0000701	0.000500	1	10/17/2022 12:30	WG1943882
Tetrachloroethene	U		0.0000790	0.000500	1	10/17/2022 12:30	WG1943882
Chlorobenzene	U		0.0000370	0.000500	1	10/17/2022 12:30	WG1943882
Toluene	U		0.000412	0.00100	1	10/17/2022 12:30	WG1943882
Ethylbenzene	U		0.0000440	0.000500	1	10/17/2022 12:30	WG1943882
Styrene	U		0.0000360	0.000500	1	10/17/2022 12:30	WG1943882
Bromobenzene	U		0.0000490	0.000500	1	10/17/2022 12:30	WG1943882
Bromodichloromethane	U		0.0000810	0.000500	1	10/17/2022 12:30	WG1943882
Bromoform	U		0.0000800	0.000500	1	10/17/2022 12:30	WG1943882
Bromomethane	U		0.0000790	0.00100	1	10/17/2022 12:30	WG1943882
Chlorodibromomethane	U		0.0000930	0.000500	1	10/17/2022 12:30	WG1943882
Chloroethane	U		0.000190	0.000500	1	10/17/2022 12:30	WG1943882
Chloroform	U		0.0000800	0.000500	1	10/17/2022 12:30	WG1943882
Chloromethane	U		0.0000290	0.000500	1	10/17/2022 12:30	WG1943882
2-Chlorotoluene	U		0.0000480	0.000500	1	10/17/2022 12:30	WG1943882
4-Chlorotoluene	U		0.0000550	0.000500	1	10/17/2022 12:30	WG1943882
Dibromomethane	U		0.0000700	0.000500	1	10/17/2022 12:30	WG1943882
Methyl tert-butyl ether	U		0.0000530	0.000500	1	10/17/2022 12:30	WG1943882
1,3-Dichlorobenzene	U		0.0000360	0.000500	1	10/17/2022 12:30	WG1943882
1,1-Dichloroethane	U		0.0000240	0.000500	1	10/17/2022 12:30	WG1943882
1,3-Dichloropropane	U		0.0000230	0.000500	1	10/17/2022 12:30	WG1943882
2,2-Dichloropropane	U		0.0000680	0.000500	1	10/17/2022 12:30	WG1943882
1,1-Dichloropropene	U		0.0000450	0.000500	1	10/17/2022 12:30	WG1943882
1,3-Dichloropropene	U		0.000320	0.000500	1	10/17/2022 12:30	WG1943882
1,1,1,2-Tetrachloroethane	U		0.0000700	0.000500	1	10/17/2022 12:30	WG1943882
1,1,2,2-Tetrachloroethane	U		0.0000790	0.000500	1	10/17/2022 12:30	WG1943882
1,2,3-Trichloropropane	U		0.0000720	0.000500	1	10/17/2022 12:30	WG1943882
(S) 4-Bromofluorobenzene	88.3			70.0-130		10/17/2022 12:30	WG1943882

Semi-Volatile Organic Compounds (GC) by Method AK102

(S) 1,2-Dichlorobenzene-d4 88.7

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	U		0.170	0.800	1	10/19/2022 15:41	WG1943589
(S) o-Terphenyl	82.1			50.0-150		10/19/2022 15:41	WG1943589

70.0-130

10/17/2022 12:30

WG1943882

RUNION LOTS 1 AND 2 Collected date/time: 10/12/22 12:40

SAMPLE RESULTS - 11

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Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000490	0.000500	1	10/17/2022 12:53	WG1943882
Carbon tetrachloride	U		0.0000660	0.000500	1	10/17/2022 12:53	WG1943882
1,4-Dichlorobenzene	U		0.0000310	0.000500	1	10/17/2022 12:53	WG1943882
1,2-Dichloroethane	U		0.0000498	0.000500	1	10/17/2022 12:53	WG1943882
1,1-Dichloroethene	U		0.0000540	0.000500	1	10/17/2022 12:53	WG1943882
1,1,1-Trichloroethane	U		0.0000490	0.000500	1	10/17/2022 12:53	WG1943882
Trichloroethene	U		0.0000440	0.000500	1	10/17/2022 12:53	WG1943882
Vinyl chloride	U		0.0000260	0.000500	1	10/17/2022 12:53	WG1943882
1,2,4-Trichlorobenzene	U		0.0000530	0.000500	1	10/17/2022 12:53	WG1943882
cis-1,2-Dichloroethene	U		0.0000640	0.000500	1	10/17/2022 12:53	WG1943882
Xylenes, Total	U		0.000167	0.000500	1	10/17/2022 12:53	WG1943882
Methylene chloride	U		0.0000608	0.000500	1	10/17/2022 12:53	WG1943882
1,2-Dichlorobenzene	U		0.0000410	0.000500	1	10/17/2022 12:53	WG1943882
trans-1,2-Dichloroethene	U		0.000100	0.000500	1	10/17/2022 12:53	WG1943882
1,2-Dichloropropane	U		0.0000270	0.000500	1	10/17/2022 12:53	WG1943882
1,1,2-Trichloroethane	U		0.0000701	0.000500	1	10/17/2022 12:53	WG1943882
Tetrachloroethene	U		0.0000790	0.000500	1	10/17/2022 12:53	WG1943882
Chlorobenzene	U		0.0000370	0.000500	1	10/17/2022 12:53	WG1943882
Toluene	U		0.000412	0.00100	1	10/17/2022 12:53	WG1943882
Ethylbenzene	U		0.0000440	0.000500	1	10/17/2022 12:53	WG1943882
Styrene	U		0.0000360	0.000500	1	10/17/2022 12:53	WG1943882
Bromobenzene	U		0.0000490	0.000500	1	10/17/2022 12:53	WG1943882
Bromodichloromethane	U		0.0000810	0.000500	1	10/17/2022 12:53	WG1943882
Bromoform	U		0.0000800	0.000500	1	10/17/2022 12:53	WG1943882
Bromomethane	U		0.0000790	0.00100	1	10/17/2022 12:53	WG1943882
Chlorodibromomethane	U		0.0000930	0.000500	1	10/17/2022 12:53	WG1943882
Chloroethane	U		0.000190	0.000500	1	10/17/2022 12:53	WG1943882
Chloroform	U		0.0000800	0.000500	1	10/17/2022 12:53	WG1943882
Chloromethane	U		0.0000290	0.000500	1	10/17/2022 12:53	WG1943882
2-Chlorotoluene	U		0.0000480	0.000500	1	10/17/2022 12:53	WG1943882
4-Chlorotoluene	U		0.0000550	0.000500	1	10/17/2022 12:53	WG1943882
Dibromomethane	U		0.0000700	0.000500	1	10/17/2022 12:53	WG1943882
Methyl tert-butyl ether	U		0.0000530	0.000500	1	10/17/2022 12:53	WG1943882
1,3-Dichlorobenzene	U		0.0000360	0.000500	1	10/17/2022 12:53	WG1943882
1,1-Dichloroethane	U		0.0000240	0.000500	1	10/17/2022 12:53	WG1943882
1,3-Dichloropropane	U		0.0000230	0.000500	1	10/17/2022 12:53	WG1943882
2,2-Dichloropropane	U		0.0000680	0.000500	1	10/17/2022 12:53	WG1943882
1,1-Dichloropropene	U		0.0000450	0.000500	1	10/17/2022 12:53	WG1943882
1,3-Dichloropropene	U		0.000320	0.000500	1	10/17/2022 12:53	WG1943882
1,1,1,2-Tetrachloroethane	U		0.0000700	0.000500	1	10/17/2022 12:53	WG1943882
1,1,2,2-Tetrachloroethane	U		0.0000790	0.000500	1	10/17/2022 12:53	WG1943882
1,2,3-Trichloropropane	U		0.0000720	0.000500	1	10/17/2022 12:53	WG1943882
(S) 4-Bromofluorobenzene	90.0			70.0-130		10/17/2022 12:53	WG1943882
(S) 1,2-Dichlorobenzene-d4	91.3			70.0-130		10/17/2022 12:53	WG1943882

Semi-Volatile Organic Compounds (GC) by Method AK102

	D !!	0 1:5	MBI	DDI	D:1 ::	A 1 :	D I
	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	U		0.170	0.800	1	10/19/2022 16:01	WG1943589
(S) o-Terphenyl	82.7			50.0-150		10/19/2022 16:01	WG1943589

SAMPLE RESULTS - 12

Collected date/time: 10/12/22 17:55 L1546587

Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	10/18/2022 16:03	WG1944667
n-Butylbenzene	U		0.000157	0.00100	1	10/18/2022 16:03	WG1944667
sec-Butylbenzene	U		0.000125	0.00100	1	10/18/2022 16:03	WG1944667
tert-Butylbenzene	U		0.000127	0.00100	1	10/18/2022 16:03	WG1944667
Ethylbenzene	U		0.000137	0.00100	1	10/18/2022 16:03	WG1944667
Isopropylbenzene	U		0.000105	0.00100	1	10/18/2022 16:03	WG1944667
Naphthalene	U		0.00100	0.00500	1	10/18/2022 16:03	WG1944667
Toluene	U		0.000278	0.00100	1	10/18/2022 16:03	WG1944667
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/18/2022 16:03	WG1944667
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/18/2022 16:03	WG1944667
m&p-Xylene	U		0.000430	0.00200	1	10/18/2022 16:03	WG1944667
o-Xylene	U		0.000174	0.00100	1	10/18/2022 16:03	WG1944667
(S) Toluene-d8	111			80.0-120		10/18/2022 16:03	WG1944667
(S) 4-Bromofluorobenzene	107			77.0-126		10/18/2022 16:03	WG1944667
(S) 1,2-Dichloroethane-d4	119			70.0-130		10/18/2022 16:03	WG1944667



	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	U		0.170	0.800	1	10/19/2022 16:22	WG1943589
(S) o-Terphenyl	83.4			50.0-150		10/19/2022 16:22	WG1943589



















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SAMPLE RESULTS - 13

Collected date/time: 10/12/22 00:00

L1546587

Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	10/18/2022 12:32	WG1944667
n-Butylbenzene	U		0.000157	0.00100	1	10/18/2022 12:32	WG1944667
sec-Butylbenzene	U		0.000125	0.00100	1	10/18/2022 12:32	WG1944667
tert-Butylbenzene	U		0.000127	0.00100	1	10/18/2022 12:32	WG1944667
Ethylbenzene	U		0.000137	0.00100	1	10/18/2022 12:32	WG1944667
Isopropylbenzene	U		0.000105	0.00100	1	10/18/2022 12:32	WG1944667
Naphthalene	U		0.00100	0.00500	1	10/18/2022 12:32	WG1944667
Toluene	U		0.000278	0.00100	1	10/18/2022 12:32	WG1944667
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/18/2022 12:32	WG1944667
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/18/2022 12:32	WG1944667
m&p-Xylene	U		0.000430	0.00200	1	10/18/2022 12:32	WG1944667
o-Xylene	U		0.000174	0.00100	1	10/18/2022 12:32	WG1944667
(S) Toluene-d8	111			80.0-120		10/18/2022 12:32	WG1944667
(S) 4-Bromofluorobenzene	106			77.0-126		10/18/2022 12:32	WG1944667
(S) 1,2-Dichloroethane-d4	119			70.0-130		10/18/2022 12:32	WG1944667



















QUALITY CONTROL SUMMARY

L1546587-01,02,03,04,05,06,08

Metals (ICP) by Method 6010

Method Blank (MB) (MB) R3852450-1 10/24/22 20:12

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Sodium	U		0.304	1.00







Laboratory Control Sample (LCS)

(LCS) R3852450-2 10/24/22 20:17

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Sodium	10.0	10.0	100	80.0-120	









(OS) L1545356-01 10/24/22 20:22 • (MS) R3852450-3 10/24/22 20:27 • (MSD) R3852450-4 10/24/22 20:32

(,		Original Result		MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Sodium	10.0	5.15	15.0	15.2	98.4	100	1	75.0-125			1.19	20







QUALITY CONTROL SUMMARY

Volatile Organic Compounds (GC) by Method AK101

L1546587-01,02,03,04

Method Blank (MB)

MB) R3851075-2 10/17/2	22 12:35				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/l		mg/l	mg/l	
TPHGAK C6 to C10	U		0.0287	0.100	
(S) a,a,a-Trifluorotoluene(FID)	83.2			60.0-120	
(S) a,a,a-Trifluorotoluene(PID)	102			79.0-125	

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

(LCS) R3851075-1 10/17/2	2 10:49 • (LCSD)) R3851075-3	10/17/22 13:13								
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%	
TPHGAK C6 to C10	5.00	4.74	5.19	94.8	104	60.0-120			9.06	20	
(S) a,a,a-Trifluorotoluene(FID)				97.7	100	60.0-120					
(S) a,a,a-Trifluorotoluene(PID)				117	119	79.0-125					



QUALITY CONTROL SUMMARY

Volatile Organic Compounds (GC) by Method AK101

L1546587-05,06,08

Method Blank (MB)

(MB) R3852875-2 10/18/2	2 14:01			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
TPHGAK C6 to C10	U		0.0287	0.100
(S) a,a,a-Trifluorotoluene(FID)	91.0			60.0-120
(S) a,a,a-Trifluorotoluene(PID)	103			79.0-125

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

(LCS) R3852875-1 10/18/2	22 13:08 • (LCSE	D) R3852875-7	10/19/22 11:14							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
TPHGAK C6 to C10	5.00	4.36	4.32	87.2	86.4	60.0-120			0.922	20
(S) a,a,a-Trifluorotoluene(FID)				99.1	100	60.0-120				
(S) a,a,a-Trifluorotoluene(PID)				116	116	79.0-125				



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L1546626-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1546626-01 10/18/2	2 19:29 • (MS) F	R3852875-3 10	/19/22 08:30	• (MSD) R3852	875-4 10/19/22	2 09:26						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPHGAK C6 to C10	5.00	U	4.53	2.97	90.6	59.4	1	70.0-130		<u>J3 J6</u>	41.6	20
(S) a,a,a-Trifluorotoluene(FID)					96.8	94.3		50.0-150				
(S) a.a.a-Trifluorotoluene(PID)					111	112		79.0-125				

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L1546657-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1546657-01 10/18/2	22 23:43 • (MS) F	R3852875-5 10)/19/22 09:54	• (MSD) R3852	875-6 10/19/22	2 10:21						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPHGAK C6 to C10	5.00	0.175	1.64	0.864	29.3	13.8	1	70.0-130	<u>J6</u>	<u> 13 16</u>	62.0	20
(S) a,a,a-Trifluorotoluene(FID)					90.8	78.2		50.0-150				
(S) a,a,a-Trifluorotoluene(PID)					105	101		79.0-125				

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (GC/MS) by Method 524.2

L1546587-09,10,11

Method Blank (MB)

Method Blank (MI	•				_
(MB) R3851891-2 10/17/2					
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/l		mg/l	mg/l	
Benzene	U		0.0000490	0.000500	
Carbon tetrachloride	U		0.0000660	0.000500	
1,4-Dichlorobenzene	U		0.0000310	0.000500	
1,2-Dichloroethane	U		0.0000498	0.000500	
1,1-Dichloroethene	U		0.0000540	0.000500	
1,1,1-Trichloroethane	U		0.0000490	0.000500	
Trichloroethene	U		0.0000440	0.000500	
Vinyl chloride	U		0.0000260	0.000500	
1,2,4-Trichlorobenzene	U		0.0000530	0.000500	
cis-1,2-Dichloroethene	U		0.0000640	0.000500	
Xylenes, Total	U		0.000167	0.000500	
Methylene chloride	U		0.0000608	0.000500	
1,2-Dichlorobenzene	U		0.0000410	0.000500	
trans-1,2-Dichloroethene	U		0.000100	0.000500	
1,2-Dichloropropane	U		0.0000270	0.000500	
1,1,2-Trichloroethane	U		0.0000701	0.000500	
Tetrachloroethene	U		0.0000790	0.000500	
Chlorobenzene	U		0.0000370	0.000500	
Toluene	U		0.000412	0.00100	
Ethylbenzene	U		0.0000440	0.000500	
Styrene	U		0.0000360	0.000500	
Bromobenzene	U		0.0000490	0.000500	
Bromodichloromethane	U		0.0000810	0.000500	
Bromoform	U		0.0000800	0.000500	
Bromomethane	U		0.0000790	0.00100	
Chlorodibromomethane	U		0.0000930	0.000500	
Chloroethane	U		0.000190	0.000500	
Chloroform	U		0.0000800	0.000500	
Chloromethane	U		0.0000290	0.000500	
2-Chlorotoluene	U		0.0000480	0.000500	
4-Chlorotoluene	U		0.0000550	0.000500	
Dibromomethane	U		0.0000700	0.000500	
Methyl tert-butyl ether	U		0.0000530	0.000500	
1,3-Dichlorobenzene	U		0.0000360	0.000500	
1,1-Dichloroethane	U		0.0000240	0.000500	
1,3-Dichloropropane	U		0.0000230	0.000500	
2,2-Dichloropropane	U		0.0000680	0.000500	
1,1-Dichloropropene	U		0.0000450	0.000500	
1,3-Dichloropropene	U		0.000320	0.000500	
1,1,1,2-Tetrachloroethane	U		0.0000700	0.000500	

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (GC/MS) by Method 524.2

L1546587-09,10,11

Method Blank (MB)

(MB) R3851891-2 10/17/22	(MB) R3851891-2 10/17/22 10:02									
	MB Result	MB Qualifier	MB MDL	MB RDL						
Analyte	mg/l		mg/l	mg/l						
1,1,2,2-Tetrachloroethane	U		0.0000790	0.000500						
1,2,3-Trichloropropane	U		0.0000720	0.000500						
(S) 4-Bromofluorobenzene	87.4			70.0-130						
(S) 1,2-Dichlorobenzene-d4	89.3			70.0-130						

Laboratory Control Sample (LCS)

Analyse Mg KS Result CS Result LC Soublifer Benzene 0,000 0,005 15 70-10 Galbon tearschieride 0,005 0,005 15 70-10 1-Dichlorodenzene 0,005 0,005 10 70-10 1-Dichlorodenzene 0,005 0,005 10 70-10 1-Dichlorodenzene 0,005 0,005 10 70-10 1-Dichlorodenzene 0,005 0,005 70-10 70-10 1-Lichlorodenzene 0,005 0,005 70-10 70-10 1-Lichlorodenzene 0,005 0,005 70-10 70-10 2-Lichlorodenzene 0,005 10 70-10 70-10 1-Li-Dichlorodenzene 0,005 10 70-10 70-10 1-Li-Dichlorodenzene 0,005 11 70-10 70-10 1-Li-Dichlorodenzene 0,005 12 70-10 70-10 1-Li-Dichlorodenzene 0,005 10 70-10 70-10 1-	(LCS) R3851891-1 10/17/2	2 09:17				
Benzene 0.00500 0.09574 115 70.0430 Carbon terachiloride 0.00500 0.09574 115 70.0430 1.4-Dichiorochene 0.00500 0.09574 115 70.0430 1.2-Dichiorochene 0.00500 0.09532 106 70.0430 1.1-Dichiorochene 0.00500 0.09540 108 70.0430 1.1-Dichiorochene 0.00500 0.09540 108 70.0430 Trichiorochene 0.00500 0.09681 124 70.0430 Vinyl chioride 0.00500 0.09582 10 70.0430 Vinyl chioride 0.00500 0.09582 16 70.0430 Valenchiorochene 0.00500 0.09582 16 70.0430 Valenchiorochene 0.00500 0.09590 112 70.0430 1.2-Dichiorochene 0.00500 0.09554 11 70.0430 1.2-Dichiorochene 0.00500 0.09560 12 70.0430 1-Learchiorochene 0.00500 0.09560 19		Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Carbon tetrachloride 0.00500 0.00551 110 70.0-130 1.4-Dichloroberane 0.00500 0.00532 166 70.0-130 1.1-Dichloroethane 0.00500 0.00547 109 70.0-130 1.1-Dichloroethane 0.00500 0.00540 108 70.0-130 1.1-Tirchloroethane 0.00500 0.00541 12 70.0-130 Vinyl chloride 0.00500 0.00581 12 70.0-130 Vinyl chloride 0.00500 0.00581 10 70.0-130 1.2-Hirichloroethane 0.00500 0.00582 16 70.0-130 1.2-Hirichloroethane 0.00500 0.00582 16 70.0-130 1.2-Hirichloroethane 0.00500 0.00582 16 70.0-130 Methylene chloride 0.00500 0.00582 11 70.0-130 Haras-Li Zibilioroethane 0.00500 0.00554 11 70.0-130 1-12-Dichloroptopane 0.00500 0.00569 12 70.0-130 1-12-Dichloroethane 0.00500 <th>Analyte</th> <th>mg/l</th> <th>mg/l</th> <th>%</th> <th>%</th> <th></th>	Analyte	mg/l	mg/l	%	%	
1.4 Dichlorobenzene 0.0500 0.0574 115 7.0.130 1.2 Dichlorobenene 0.0500 0.0552 106 7.0.130 1.1, Frichloroethene 0.0500 0.0547 109 70.130 1.1, Frichloroethene 0.0500 0.0568 124 70.130 Virgl choride 0.0500 0.0518 124 70.130 1.2, 4 Frichlorobenzene 0.0500 0.0581 116 70.130 1.2, 4 Frichlorobenzene 0.0500 0.0582 116 70.0130 1.2, 4 Frichlorobenzene 0.0500 0.0582 116 70.0130 Methylene chloride 0.0500 0.0582 116 70.0130 Methylene chloride 0.0500 0.0554 11 70.0130 1.2, Dichloropenzene 0.0500 0.0554 11 70.0130 1.2, Dichloropenzene 0.0500 0.0556 12 70.0130 1.1, 2, Frichloroethene 0.0500 0.0556 17 70.0130 1.1, 2, Frichloroethene 0.0500 0.055	Benzene	0.00500	0.00574	115	70.0-130	
1,2-Dichloroethane 0,00500 0,00547 109 70,0-130 1,1-Dichloroethane 0,00500 0,00547 109 70,0-130 Tirichloroethane 0,00500 0,00518 124 70,0-130 Tirichloroethane 0,00500 0,00519 104 70,0-130 Myrl chloride 0,00500 0,00582 116 70,0-130 1,2-Tirichloroethane 0,00500 0,00582 116 70,0-130 4,2-Dichloroethane 0,00500 0,00582 116 70,0-130 4,2-Dichloroethane 0,00500 0,00570 114 70,0-130 4,2-Dichloroethane 0,00500 0,00570 114 70,0-130 4,2-Dichloroethane 0,00500 0,00559 112 70,0-130 4,2-Dichloroethane 0,00500 0,00562 112 70,0-130 1-2-Dichloroethane 0,0500 0,00562 112 70,0-130 1-2-Dichloroethane 0,0500 0,00560 112 70,0-130 1-2-Dichloroethane 0,0500	Carbon tetrachloride	0.00500	0.00551	110	70.0-130	
1,1-Dichloroethene 0,00500 0,00540 109 70,0430 11,11-Tichloroethene 0,00500 0,00500 108 70,0430 11,11-Tichloroethene 0,00500 0,00508 124 70,0430 11,11-Tichloroethene 0,00500 0,00518 124 70,0430 11,11-Tichloroethene 0,00500 0,00518 110 70,0430 11,11-Tichloroethene 0,00500 0,00582 116 70,0430 11,11-Tichloroethene 0,00500 0,00582 116 70,0430 11,11-Tichloroethene 0,00500 0,00582 116 70,0430 11,11-Tichloroethene 0,00500 0,00582 116 70,0430 11,11-Tichloroethene 0,00500 0,00582 114 70,0430 11,11-Tichloroethene 0,00500 0,00564 111 70,0430 11,11-Tichloroethene 0,00500 0,00554 111 70,0430 11,11-Tichloroethene 0,00500 0,00554 112 70,0430 11,11-Tichloroethene 0,00500 0,00560 112 70,0430 11,11-Tichloroethene 0,00500 0,00560 112 70,0430 11,11-Tichloroethene 0,00500 0,00598 112 70,0430 11,11-Tichloroethene 0,00500 0,00598 117 70,0430 11,11-Tichloroethene 0,00500 0,00598 117 70,0430 11,11-Tichloroethene 0,00500 0,00598 117 70,0430 11,11-Tichloroethene 0,00500 0,00598 117 70,0430 11,11-Tichloroethene 0,00500 0,00598 117 70,0430 11,11-Tichloroethene 0,00500 0,00598 117 70,0430 11,11-Tichloroethene 0,00500 0,00598 117 70,0430 11,11-Tichloroethene 0,00500 0,00598 117 70,0430 11,11-Tichloroethene 0,00500 0,00598 117 70,0430 11,11-Tichloroethene 0,00500 0,00598 117 70,0430 11,11-Tichloroethene 0,00500 0,00598 117 70,0430 11,11-Tichloroethene 0,00500 0,00588 117 70,0430 11,11-Tichloroethene 0,00500 0,00586 117 70,0430 11,11-Tichloroethene 0,00500 0,00588 117 70,0430 11,11-Tichloroethene 0,00500 0,00588 117 70,0430 11,11-Tichloroethene 0,00500 0,00588 117 70,0430 11,11-Tichloroethene 0,00500 0,00588 117 70,0430 11,11-Tichloroethene 0,00500 0,00588 117 70,0430 11,11-Tichloroethene 0,00500 0,00588 117 70,0430 11,11-Tichloroethene 0,00500 0,00588 117 70,0430 11,11-Tichloroethene 0,00500 0,00588 117 70,0430 11,11-Tichloroethene 0,00500 0,00588 117 70,0430 11,11-Tichloroethene 0,00500 0,00588 117 70,0430 11,11-Tichloroethene 0,00500 0,00588 117 70,0430 11,11-Tichloroethene 0,00500 0,00588 117 70,0430 11,11-Tichloroethene 0,00500 0,00588 11	1,4-Dichlorobenzene	0.00500	0.00574	115	70.0-130	
1.1. Frichloroethane 0.00500 0.00504 108 70.0-130 Virightoroethene 0.00500 0.00519 124 70.0-130 1.2. Frichloroethane 0.00500 0.00519 104 70.0-130 1.2. Frichloroethane 0.00500 0.00582 116 70.0-130 Vylenes, Total 0.0150 0.0164 109 70.0-130 Hethylane chloride 0.00500 0.00570 114 70.0-130 1.2. Dichloroethane 0.00500 0.00574 111 70.0-130 1.2. Dichloroethane 0.00500 0.00554 111 70.0-130 1.2. Dichloroethane 0.00500 0.00559 112 70.0-130 1.2. Dichloroethane 0.00500 0.00569 112 70.0-130 1.2. Dichloroethane 0.00500 0.00560 112 70.0-130 Tetrachloroethane 0.00500 0.00586 17 70.0-130 Tetrachloroethane 0.00500 0.00588 17 70.0-130 Ethylberare 0.00500	1,2-Dichloroethane	0.00500	0.00532	106	70.0-130	
Trickloroethene 0.00500 0.00618 124 70.0-130 Vilryl chloride 0.00500 0.00598 104 70.0-130 1,2.4-Tricklorobenzene 0.00500 0.00582 116 70.0-130 Xylenes, Total 0.0150 0.00502 114 70.0-130 Methylore chloride 0.00500 0.00504 114 70.0-130 L2-Dichlorobenzene 0.00500 0.00554 111 70.0-130 L2-Dichlorobenzene 0.00500 0.00554 112 70.0-130 L2-Dichlorophare 0.00500 0.00569 122 70.0-130 L1-2-Trichlorophare 0.00500 0.00562 12 70.0-130 L1-2-Trichlorophare 0.00500 0.00560 112 70.0-130 Folloropharene 0.00500 0.00586 117 70.0-130 Elthylbenzene 0.00500 0.00584 117 70.0-130 Bromoderizene 0.00500 0.00586 117 70.0-130 Bromoderizene 0.00500 0.00536	1,1-Dichloroethene	0.00500	0.00547	109	70.0-130	
Vinyl chloride 0.0550 0.0559 104 70.0-130 1.2.4-Tirchlorobenzene 0.00500 0.00582 116 70.0-130 sci-1,2-Dichloroethene 0.00500 0.00582 116 70.0-130 Kylenes, Total 0.0150 0.0164 109 70.0-130 Methylene chloride 0.00500 0.00570 114 70.0-130 1.2-Dichlorobenzene 0.00500 0.00554 111 70.0-130 1.2-Dichloropenzene 0.00500 0.00559 12 70.0-130 1.2-Dichloropenzene 0.00500 0.00560 12 70.0-130 1.12-Tirchloroethane 0.00500 0.00560 12 70.0-130 Tetrachloroethane 0.00500 0.00560 19 70.0-130 Tetrachloroethane 0.00500 0.00584 17 70.0-130 Tetrachloroethane 0.00500 0.00584 17 70.0-130 Elthylberzene 0.00500 0.00584 17 70.0-130 Styrene 0.00500 0.00584 <td>1,1,1-Trichloroethane</td> <td>0.00500</td> <td>0.00540</td> <td>108</td> <td>70.0-130</td> <td></td>	1,1,1-Trichloroethane	0.00500	0.00540	108	70.0-130	
1,2,4-Trichlorobenzene 0.00500 0.00548 110 70.0130 zis-1,2-Dichloroethene 0.00500 0.00582 116 70.0130 Kylenes, Total 0.00500 0.00570 114 70.0130 Methylene chloride 0.00500 0.00554 111 70.0130 L2-Dichloroethene 0.00500 0.00559 112 70.0130 L2-Dichloropropane 0.00500 0.00560 112 70.0130 L2-Dichloroethene 0.00500 0.00560 112 70.0130 Tetrachloroethene 0.00500 0.00560 112 70.0130 Tolluene 0.00500 0.00586 117 70.0130 Tolluene 0.00500 0.00586 117 70.0130 Styrene 0.00500 0.00584 117 70.0130 Bromobenzene 0.00500 0.00586 13 70.0130 Bromodichloromethane 0.00500 0.00566 13 70.0130 Bromodichloromethane 0.00500 0.00530 16	Trichloroethene	0.00500	0.00618	124	70.0-130	
cis.1,2-Dichloroethene 0.00500 0.00582 116 70.0130 Xylenes, Total 0.0150 0.0164 109 70.0130 Methylene chloride 0.00500 0.00570 114 70.0130 Ltanis-1,2-Dichloroethene 0.00500 0.00559 112 70.0130 1,12-Tichloroethene 0.00500 0.00562 112 70.0130 1,12-Tichloroethane 0.00500 0.00560 112 70.0130 Citrachloroethane 0.00500 0.00560 112 70.0130 Citrachloroethane 0.00500 0.00586 117 70.0130 Citrachloroethane 0.00500 0.00586 117 70.0130 Citrachloroethane 0.00500 0.00588 117 70.0130 Ethylbenzene 0.00500 0.00584 117 70.0130 Styrene 0.00500 0.00586 13 70.0130 Bromodichloroethane 0.00500 0.00586 107 70.0130 Bromoform 0.00500 0.00586 <	Vinyl chloride	0.00500	0.00519	104	70.0-130	
Xylenes, Total 0.0150 0.0164 109 70.0-130 Methylene chloride 0.00500 0.00570 114 70.0-130 1,2-Dichloroberzene 0.00500 0.00554 111 70.0-130 taras-1,2-Dichloroprane 0.00500 0.00559 112 70.0-130 1,12-Dichloroprane 0.00500 0.00560 112 70.0-130 Tetrachloroethane 0.00500 0.00586 119 70.0-130 Chlorobenzene 0.00500 0.00586 117 70.0-130 Tolluene 0.00500 0.00588 120 70.0-130 Styrene 0.00500 0.00593 119 70.0-130 Bromodichloromethane 0.00500 0.00566 113 70.0-130 Bromoform 0.00500 0.00536 107 70.0-130 Bromoform 0.00500 0.00540 108 70.0-130 Bromoform 0.00500 0.00531 107 70.0-130 Chloroethane 0.00500 0.00532 107 <t< td=""><td>1,2,4-Trichlorobenzene</td><td>0.00500</td><td>0.00548</td><td>110</td><td>70.0-130</td><td></td></t<>	1,2,4-Trichlorobenzene	0.00500	0.00548	110	70.0-130	
Methylene chloride 0.00500 0.00500 114 70.0430 1,2-Dichlorobenzene 0.00500 0.00554 111 70.0430 rans-1,2-Dichloroptene 0.00500 0.00560 112 70.0430 1,2-Dichloroptopane 0.00500 0.00560 112 70.0430 1,2-Dichloropthane 0.00500 0.00560 112 70.0430 1-Etrachloropthane 0.00500 0.00566 117 70.0430 Information 0.00500 0.00586 117 70.0430 Ethylbenzene 0.00500 0.00593 119 70.0430 Styrene 0.00500 0.00584 117 70.0430 Bromodichloromethane 0.00500 0.00566 113 70.0430 Bromodichloromethane 0.00500 0.00560 108 70.0430 Bromodichloromethane 0.00500 0.00535 107 70.0430 Chlorodibromodethane 0.00500 0.00535 107 70.0430 Chloroform 0.00500 0.00535	cis-1,2-Dichloroethene	0.00500	0.00582	116	70.0-130	
1,2-Dichlorobenzene 0.00500 0.00554 111 70.0-130 rans-1,2-Dichloroethene 0.00500 0.00559 112 70.0-130 1,2-Dichloroprapane 0.00500 0.00560 112 70.0-130 Fetrachloroethane 0.00500 0.00560 112 70.0-130 Fetrachloroethane 0.00500 0.00560 119 70.0-130 Folloroebazene 0.00500 0.00586 17 70.0-130 Folloroethane 0.00500 0.00588 120 70.0-130 Ethylbenzene 0.00500 0.00584 117 70.0-130 Styrene 0.00500 0.00586 13 70.0-130 Gromodenzene 0.00500 0.00586 16 70.0-130 Gromoderichloromethane 0.00500 0.00535 16	Kylenes, Total	0.0150	0.0164	109	70.0-130	
crans-1,2-Dichloroethene 0.0050 0.00559 112 70.0-130 1,2-Dichloropropane 0.0050 0.00562 112 70.0-130 Lit,2-Trichloroethane 0.00500 0.00560 119 70.0-130 Chlorobenzene 0.00500 0.00586 117 70.0-130 Chlorobenzene 0.00500 0.00598 120 70.0-130 Ethylbenzene 0.00500 0.00593 119 70.0-130 Styrene 0.00500 0.00584 117 70.0-130 Bromobenzene 0.00500 0.00584 117 70.0-130 Bromoform 0.00500 0.00566 13 70.0-130 Bromoform 0.00500 0.00540 188 70.0-130 Chlorodibromethane 0.00500 0.00535 107 70.0-130 Chlorodibromomethane 0.00500 0.00535 107 70.0-130 Chloroform 0.00500 0.00535 107 70.0-130	Methylene chloride	0.00500	0.00570	114	70.0-130	
1,2-Dichloropropane 0.00500 0.00562 112 70.0-130 1,1-2-Trichlorethane 0.00500 0.00500 119 70.0-130 Chlorobenzene 0.00500 0.00586 117 70.0-130 Chlorobenzene 0.00500 0.00598 120 70.0-130 Ethylbenzene 0.00500 0.00593 119 70.0-130 Styrene 0.00500 0.00584 117 70.0-130 Bromobenzene 0.00500 0.00586 13 70.0-130 Bromoform 0.00500 0.00536 107 70.0-130 Bromoform 0.00500 0.00536 107 70.0-130 Bromomethane 0.00500 0.00530 126 70.0-130 Chlorodibromomethane 0.00500 0.00535 107 70.0-130 Chlorodibromomethane 0.00500 0.00535 107 70.0-130 Chloroform 0.00500 0.00535 107 70.0-130 Chloroform 0.00500 0.00535 10 70.0-130	l,2-Dichlorobenzene	0.00500	0.00554	111	70.0-130	
1,1,2-Trichloroethane 0,00500 0,00560 112 70.0-130 Tetrachloroethene 0,00500 0,00596 119 70.0-130 Chlorobenzene 0,00500 0,00598 120 70.0-130 Ethylbenzene 0,00500 0,00593 119 70.0-130 Styrene 0,00500 0,00584 117 70.0-130 Gromobenzene 0,00500 0,00566 113 70.0-130 Gromodichloromethane 0,00500 0,00536 107 70.0-130 Gromomethane 0,00500 0,00540 108 70.0-130 Chlorodibromomethane 0,00500 0,00535 107 70.0-130 Chlorothane 0,00500 0,00596 119 70.0-130 Chloroform 0,00500 0,00596 119 70.0-130	rans-1,2-Dichloroethene	0.00500	0.00559	112	70.0-130	
Tetrachloroethene 0.00500 0.00596 119 70.0-130 Chlorobenzene 0.00500 0.00586 117 70.0-130 Foluene 0.00500 0.00598 120 70.0-130 Ethylbenzene 0.00500 0.00584 117 70.0-130 Bromobenzene 0.00500 0.00566 113 70.0-130 Bromoform 0.00500 0.00536 107 70.0-130 Bromoform 0.00500 0.00540 108 70.0-130 Bromomethane 0.00500 0.00535 126 70.0-130 Chlorodibromomethane 0.00500 0.00535 107 70.0-130 Chloroform 0.00500 0.00596 119 70.0-130 Chloroform 0.00500 0.00596 119 70.0-130	,2-Dichloropropane	0.00500	0.00562	112	70.0-130	
Chlorobenzene 0.00500 0.00586 117 70.0-130 Foluene 0.00500 0.00598 120 70.0-130 Ethylbenzene 0.00500 0.00593 119 70.0-130 Styrene 0.00500 0.00584 117 70.0-130 gromobenzene 0.00500 0.00566 113 70.0-130 gromoform 0.00500 0.00536 107 70.0-130 gromomethane 0.00500 0.00630 126 70.0-130 Chlorodibromomethane 0.00500 0.00535 107 70.0-130 Chloroferm 0.00500 0.00596 119 70.0-130 Chloroform 0.00500 0.00593 115 70.0-130	,1,2-Trichloroethane	0.00500	0.00560	112	70.0-130	
Toluene 0.00500 0.00598 120 70.0-130 Ethylbenzene 0.00500 0.00593 119 70.0-130 Styrene 0.00500 0.00584 117 70.0-130 Bromobenzene 0.00500 0.00566 113 70.0-130 Bromoform 0.00500 0.00536 107 70.0-130 Bromomethane 0.00500 0.00530 126 70.0-130 Chlorodibromomethane 0.00500 0.00535 107 70.0-130 Chlorodethane 0.00500 0.00596 119 70.0-130 Chloroform 0.00500 0.00533 115 70.0-130	Tetrachloroethene	0.00500	0.00596	119	70.0-130	
Ethylbenzene 0.00500 0.00593 119 70.0-130 Styrene 0.00500 0.00584 117 70.0-130 Bromobenzene 0.00500 0.00566 113 70.0-130 Bromoform 0.00500 0.00540 108 70.0-130 Bromomethane 0.00500 0.00630 126 70.0-130 Chlorodibromomethane 0.00500 0.00535 107 70.0-130 Chlorothane 0.00500 0.00596 119 70.0-130 Chloroform 0.00500 0.00573 115 70.0-130	Chlorobenzene	0.00500	0.00586	117	70.0-130	
Styrene 0.00500 0.00584 117 70.0-130 Bromobenzene 0.00500 0.00566 113 70.0-130 Bromoform 0.00500 0.00536 107 70.0-130 Bromoform 0.00500 0.00540 108 70.0-130 Chlorodibromomethane 0.00500 0.00630 126 70.0-130 Chlorodethane 0.00500 0.00596 119 70.0-130 Chloroform 0.00500 0.00573 115 70.0-130	oluene	0.00500	0.00598	120	70.0-130	
Bromobenzene 0.00500 0.00566 113 70.0-130 Bromodichloromethane 0.00500 0.00536 107 70.0-130 Bromoform 0.00500 0.00540 108 70.0-130 Bromomethane 0.00500 0.00630 126 70.0-130 Chlorodibromomethane 0.00500 0.00535 107 70.0-130 Chlorothane 0.00500 0.00596 119 70.0-130 Chloroform 0.00500 0.00573 115 70.0-130	Ethylbenzene	0.00500	0.00593	119	70.0-130	
Bromodichloromethane 0.00500 0.00540 108 70.0-130 Bromomethane 0.00500 0.00630 126 70.0-130 Chlorodibromomethane 0.00500 0.00535 107 70.0-130 Chloroethane 0.00500 0.00596 119 70.0-130 Chloroform 0.00500 0.00573 115 70.0-130	Styrene	0.00500	0.00584	117	70.0-130	
Gromoform 0.00500 0.00540 108 70.0-130 Bromomethane 0.00500 0.00630 126 70.0-130 Chlorodibromomethane 0.00500 0.00535 107 70.0-130 Chloroform 0.00500 0.00573 115 70.0-130	Bromobenzene	0.00500	0.00566	113	70.0-130	
Bromomethane 0.00500 0.00630 126 70.0-130 Chlorodibromomethane 0.00500 0.00535 107 70.0-130 Chloroethane 0.00500 0.00596 119 70.0-130 Chloroform 0.00500 0.00573 115 70.0-130	Bromodichloromethane	0.00500	0.00536	107	70.0-130	
Chlorodibromomethane 0.00500 0.00535 107 70.0-130 Chloroethane 0.00500 0.00596 119 70.0-130 Chloroform 0.00500 0.00573 115 70.0-130	Bromoform	0.00500	0.00540	108	70.0-130	
Chloroethane 0.00500 0.00596 119 70.0-130 Chloroform 0.00500 0.00573 115 70.0-130	Bromomethane	0.00500	0.00630	126	70.0-130	
Chloroform 0.00500 0.00573 115 70.0-130	Chlorodibromomethane	0.00500	0.00535	107	70.0-130	
	Chloroethane	0.00500	0.00596	119	70.0-130	
Chloromethane 0.00500 0.00557 111 70.0-130	Chloroform	0.00500	0.00573	115	70.0-130	
	Chloromethane	0.00500	0.00557	111	70.0-130	















(S) 1,2-Dichlorobenzene-d4

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (GC/MS) by Method 524.2

101

70.0-130

L1546587-09,10,11

Laboratory Control Sample (LCS)

(LCS) R3851891-1 10/17/22	2 09:17				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
2-Chlorotoluene	0.00500	0.00601	120	70.0-130	
4-Chlorotoluene	0.00500	0.00580	116	70.0-130	
Dibromomethane	0.00500	0.00581	116	70.0-130	
Methyl tert-butyl ether	0.00500	0.00536	107	70.0-130	
1,3-Dichlorobenzene	0.00500	0.00561	112	70.0-130	
1,1-Dichloroethane	0.00500	0.00560	112	70.0-130	
1,3-Dichloropropane	0.00500	0.00547	109	70.0-130	
2,2-Dichloropropane	0.00500	0.00599	120	70.0-130	
1,1-Dichloropropene	0.00500	0.00555	111	70.0-130	
1,3-Dichloropropene	0.0100	0.0114	114	70.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00552	110	70.0-130	
1,1,2,2-Tetrachloroethane	0.00500	0.00551	110	70.0-130	
1,2,3-Trichloropropane	0.00500	0.00559	112	70.0-130	
(S) 4-Bromofluorobenzene			105	70.0-130	



















QUALITY CONTROL SUMMARY

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

L1546587-01,02,03,04,05,06,07,08,12,13

Method Blank (MB)

(MB) R3850174-3 10/18/22	2 10:46			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Benzene	U		0.0000941	0.00100
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
tert-Butylbenzene	U		0.000127	0.00100
Ethylbenzene	U		0.000137	0.00100
Isopropylbenzene	U		0.000105	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
m&p-Xylenes	U		0.000430	0.00200
o-Xylene	U		0.000174	0.00100
(S) Toluene-d8	112			80.0-120
(S) 4-Bromofluorobenzene	107			77.0-126
(S) 1,2-Dichloroethane-d4	116			70.0-130

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

(LCS) R3850174-1 10/18/22	2 09:48 • (LCSE) R3850174-2	10/18/22 10:07							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
Benzene	0.00500	0.00545	0.00496	109	99.2	70.0-123			9.41	20
n-Butylbenzene	0.00500	0.00526	0.00456	105	91.2	73.0-125			14.3	20
sec-Butylbenzene	0.00500	0.00500	0.00438	100	87.6	75.0-125			13.2	20
tert-Butylbenzene	0.00500	0.00508	0.00450	102	90.0	76.0-124			12.1	20
Ethylbenzene	0.00500	0.00531	0.00472	106	94.4	79.0-123			11.8	20
Isopropylbenzene	0.00500	0.00518	0.00451	104	90.2	76.0-127			13.8	20
Naphthalene	0.00500	0.00430	0.00412	86.0	82.4	54.0-135			4.28	20
Toluene	0.00500	0.00482	0.00442	96.4	88.4	79.0-120			8.66	20
1,2,4-Trimethylbenzene	0.00500	0.00511	0.00445	102	89.0	76.0-121			13.8	20
1,3,5-Trimethylbenzene	0.00500	0.00498	0.00443	99.6	88.6	76.0-122			11.7	20
m&p-Xylenes	0.0100	0.0103	0.00937	103	93.7	80.0-122			9.46	20
o-Xylene	0.00500	0.00514	0.00464	103	92.8	80.0-122			10.2	20
(S) Toluene-d8				108	109	80.0-120				
(S) 4-Bromofluorobenzene				107	104	77.0-126				
(S) 1,2-Dichloroethane-d4				118	121	70.0-130				

















QUALITY CONTROL SUMMARY

Semi-Volatile Organic Compounds (GC) by Method AK102

L1546587-01,02,03,04,05,06,08,09,10,11,12

Method Blank (MB)

(MB) R3850346-1 10/19/2	2 09:14			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
AK102 DRO C10-C25	U		0.170	0.800
(S) o-Terphenyl	89.1			60.0-120







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

(LCS) R3850346-2 10/	19/22 09:34 • (LCS	D) R3850346	5-3 10/19/22 09	:54						
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
AK102 DRO C10-C25	6.00	6.99	6.90	117	115	75.0-125			1.30	20
(S) o-Terphenyl				92.3	92.9	60.0-120				













PAGE:

34 of 41

DATE/TIME:

10/26/22 14:47

QUALITY CONTROL SUMMARY

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

L1546587-01,02,03,04,05,06,08

Method Blank (MB)

(MB) R3849701-3 10/18/	/22 01:06				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/l		mg/l	mg/l	- -
Anthracene	U		0.0000190	0.0000500	Ŀ
Acenaphthene	U		0.0000190	0.0000500	3
Acenaphthylene	U		0.0000171	0.0000500	L
Benzo(a)anthracene	U		0.0000203	0.0000500	4
Benzo(a)pyrene	U		0.0000184	0.0000500	
Benzo(b)fluoranthene	U		0.0000168	0.0000500	L
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	5
Benzo(k)fluoranthene	U		0.0000202	0.0000500	L
Chrysene	U		0.0000179	0.0000500	6
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	
Fluoranthene	U		0.0000270	0.000100	_
Fluorene	U		0.0000169	0.0000500	7
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	
Naphthalene	U		0.0000917	0.000250	8
Phenanthrene	U		0.0000180	0.0000500	
Pyrene	U		0.0000169	0.0000500	느
1-Methylnaphthalene	U		0.0000687	0.000250	9
2-Methylnaphthalene	U		0.0000674	0.000250	L
(S) Nitrobenzene-d5	99.5			31.0-160	
(S) 2-Fluorobiphenyl	99.0			48.0-148	
(S) p-Terphenyl-d14	95.0			37.0-146	

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

(LCS) R3849701-1 10/18/	/22 00:32 • (LCSE	D) R3849701-2	10/18/22 00:4	9						
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
Anthracene	0.00200	0.00198	0.00193	99.0	96.5	67.0-150			2.56	20
Acenaphthene	0.00200	0.00218	0.00212	109	106	65.0-138			2.79	20
Acenaphthylene	0.00200	0.00209	0.00203	104	102	66.0-140			2.91	20
Benzo(a)anthracene	0.00200	0.00185	0.00179	92.5	89.5	61.0-140			3.30	20
Benzo(a)pyrene	0.00200	0.00181	0.00181	90.5	90.5	60.0-143			0.000	20
Benzo(b)fluoranthene	0.00200	0.00177	0.00179	88.5	89.5	58.0-141			1.12	20
Benzo(g,h,i)perylene	0.00200	0.00158	0.00163	79.0	81.5	52.0-153			3.12	20
Benzo(k)fluoranthene	0.00200	0.00174	0.00169	87.0	84.5	58.0-148			2.92	20
Chrysene	0.00200	0.00196	0.00197	98.0	98.5	64.0-144			0.509	20
Dibenz(a,h)anthracene	0.00200	0.00157	0.00161	78.5	80.5	52.0-155			2.52	20
Fluoranthene	0.00200	0.00213	0.00208	106	104	69.0-153			2.38	20
Fluorene	0.00200	0.00219	0.00214	109	107	64.0-136			2.31	20

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 10/26/22 14:47
 35 of 41

QUALITY CONTROL SUMMARY

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

L1546587-01,02,03,04,05,06,08

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

(LCS) R3849701-1 10/18/22 00:32 • (LCSD) R3849701-2 10/18/22 00:49

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
Indeno(1,2,3-cd)pyrene	0.00200	0.00155	0.00153	77.5	76.5	54.0-153			1.30	20
Naphthalene	0.00200	0.00221	0.00217	111	108	61.0-137			1.83	20
Phenanthrene	0.00200	0.00207	0.00199	104	99.5	62.0-137			3.94	20
Pyrene	0.00200	0.00223	0.00223	111	111	60.0-142			0.000	20
1-Methylnaphthalene	0.00200	0.00214	0.00208	107	104	66.0-142			2.84	20
2-Methylnaphthalene	0.00200	0.00218	0.00214	109	107	62.0-136			1.85	20
(S) Nitrobenzene-d5				107	102	31.0-160				
(S) 2-Fluorobiphenyl				99.5	99.0	48.0-148				
(S) p-Terphenyl-d14				89.5	92.0	37.0-146				



















GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	L)	е	S	C	r	I	2	tı	О	r
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J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.



















ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 14	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

Pace Analytical Services, LLC -Dallas 400 W. Bethany Drive Suite 190 Allen, TX 75013

Arkansas	88-0647	Kansas	E10388
Florida	E871118	Texas	T104704232-22-37
lowa	408	Oklahoma	8727
Louisiana	30686		

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



















PAGE:

38 of 41

 $^{^{}st}$ Not all certifications held by the laboratory are applicable to the results reported in the attached report.

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

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Anchorage. AK 99503															100			
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Mr. John Marshall														12.70				fount Juliet, TN 37122 via this chain of custody
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Sample ID	Comp/0	Grab Matri	* Depth		Date	Time	Cntrs	AK101	AK102	NAICP	HSI	V524GW	V8260C 40mlAmb-HCl	V8260C			Shipped Via: F	edEX 2nd Day
G-01		7 GW	,	1.0/	1.2/.	1201	111					>		>			Kemarks	Sample # (lab only)
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Report to:	2,-		Email To: jo	ohn.marshall@s	tantec.com	0			1								JLIET, TN	
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Immediately Packed on Ice N Y	Two Da	10 Da	y (Rad Only)	Date Kesi	ults Needed	No. of	1 40m	2 100ml	P 250r	PAHSIMLVID	GW 40	0C 40r				PM: 034 Graig	1/20/10	
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Relinquished by : (Signature)	Di	o/13/22	Time:	Rece	ived by: (Signat	ure)				Trip Blan	k Recei		es / No HCL / MeoH	Preser	rvation	Correct/Checo.5 mR/hr:	cked: A N	
Relinquished by : (Signature)	D	ate:	Time:		ived by: (Signat	ure)				Temp:	0	_	es Received:	If prese	ervation re	equired by Logi	n: Date/Time	
Relinquished by : (Signature)	Di	ate:	Time:	Rece	ived for lab by:	(Signat	ure)	7		Date:/	m	Tim	900	Hold:			Condition: NCF / OK	

Tracking	
Numbers	Temperature
KKKA TKINA 1826	02.570=2.5
1831	2.345=3.3

Laboratory Data Review Checklist

Completed By:	
Jeremiah Malenfant	
Title:	
Geologist-In-Training	
Date:	
10/27/2022	
Consultant Firm:	
Stantec Consulting Services Inc.	
Laboratory Name:	
Pace Analytical	
Laboratory Report Number:	
L1546587	
Laboratory Report Date:	
10/26/2022	
CS Site Name:	
Speedway 5325 (Former T2GM #	:52)
ADEC File Number:	
2265.26.006	
Hazard Identification Number:	
23769	

	L1546587
Lal	poratory Report Date:
	10/26/2022
CS	Site Name:
	Speedway 5325 (Former T2GM #52)
	Note: Any N/A or No box checked must have an explanation in the comments box.
1.	Laboratory
	a. Did an ADEC CS approved laboratory receive and <u>perform</u> all of the submitted sample analyses?
	Yes⊠ No□ N/A□ 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□ N/A⊠ Comments:
	Samples not transferred
2.	Chain of Custody (CoC)
	a. CoC information completed, signed, and dated (including released/received by)?
	Yes \boxtimes No \square N/A \square Comments:
	b. Correct analyses requested?
	Yes \boxtimes No \square N/A \square Comments:
3.	Laboratory Sample Receipt Documentation
	a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?
	$Yes \boxtimes No \square N/A \square$ Comments:
	2.5 °C
	b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
	Yes \boxtimes No \square N/A \square Comments:

L1546587
Laboratory Report Date:
10/26/2022
CS Site Name:
Speedway 5325 (Former T2GM #52)
c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)? Yes⊠ No□ N/A□ 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 \square No \square N/A \boxtimes Comments:
No discrepancies documented.
e. Data quality or usability affected?
Comments:
No.
4. <u>Case Narrative</u>
a. Present and understandable?
Yes \boxtimes No \square N/A \square Comments:
b. Discrepancies, errors, or QC failures identified by the lab?
Yes \square No \boxtimes N/A \square Comments:
Case narrative documents no errors or discrepancies "unless qualified or notated within report"
c. Were all corrective actions documented?
Yes \square No \square N/A \boxtimes Comments:
No corrective actions taken.
d. What is the effect on data quality/usability according to the case narrative?
Comments:
No effect on data quality/usability

L	1546587					
Labor	atory Report Date:					
10	0/26/2022					
CS Si	te Name:					
Sı	peedway 5325 (Former T2GM #52)					
5. Sa	amples Results					
	 a. Correct analyses performed/reported as requested on COC? Yes ⋈ No □ N/A□ Comments: 					
	Test 102 101 101 Comments.					
	b. All applicable holding times met?					
	$Yes \boxtimes No \square N/A \square$ Comments:					
	c. All soils reported on a dry weight basis?					
	$Yes \square No \square N/A \boxtimes Comments:$					
No soil samples submitted to lab.						
	d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?					
	$Yes \boxtimes No \square N/A \square$ Comments:					
	e. Data quality or usability affected?					
	No.					
6. <u>Q</u>	<u>C Samples</u>					
	a. Method Blank					
	i. One method blank reported per matrix, analysis and 20 samples?					
	Yes \boxtimes No \square N/A \square Comments:					
	ii. All method blank results less than limit of quantitation (LOQ) or project specified objectives?					
	Yes \boxtimes No \square N/A \square Comments:					

L1546587			
Laboratory Report Date:			
10/26/2022			
CS Site Name:			
Speedway 5325 (Former T2GM #52)			
iii. If above LOQ or project specified objectiv Comments:	es, what samples are affected?		
None.			
iv. Do the affected sample(s) have data flags? Yes \square No \square N/A \boxtimes Comments:	If so, are the data flags clearly defined?		
No samples affected.			
v. Data quality or usability affected? Comments:			
No.			
b. Laboratory Control Sample/Duplicate (LCS/LC	CSD)		
 i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS required per AK methods, LCS required per SW846) 			
$Yes \boxtimes No \square N/A \square$ Comments:			
ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, and samples?			
$Yes \boxtimes No \square N/A \square$ Comments:			
project specified objectives, if applicable? AK102 75%-125%, AK103 60%-120%; al	ported and within method or laboratory limits and (AK Petroleum methods: AK101 60%-120%, l other analyses see the laboratory QC pages)		
$Yes \boxtimes No \square N/A \square$ Comments:			
limits and project specified objectives, if a	(RPD) reported and less than method or laboratory pplicable? RPD reported from LCS/LCSD, and or methods 20%; all other analyses see the laboratory		
$Yes \boxtimes No \square N/A \square$ Comments:			

L1546587				
Laboratory Report Date:				
10/26/2022				
CS Site Name:				
Speedway 5325 (Former T2GM #52)				
v. If %R or RPD is outside of acceptable limits, what samples are affected? Comments:				
N/A				
vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined? Yes \square No \square N/A \boxtimes Comments:				
No affected samples				
vii. Data quality or usability affected? (Use comment box to explain.) Comments:				
No.				
 c. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Note: Leave blank if not required for project i. Organics – One MS/MSD reported per matrix, analysis and 20 samples? Yes⊠ No□ N/A□ Comments: 				
 ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples? Yes⊠ No□ N/A□ Comments: 				
Togel 1001 1011 Commons.				
iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?				
Yes□ No⊠ N/A□ Comments:				
GRO by method AK101 matrix interference in MW16-2.				
iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.				
Yes \square No \boxtimes N/A \square Comments:				
GRO by method AK101 matrix interference in G-5 and MW16-2.				

L1546587				
Laboratory Report Date:				
10/26/2022				
CS Site Name:				
Speedway 5325 (Former T2GM #52)				
v. If %R or RPD is outside of acceptable limits, what samples are affected? Comments:				
G-5 and MW16-2				
vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined? Yes⊠ No□ N/A□ Comments:				
vii. Data quality or usability affected? (Use comment box to explain.) Comments: No; detection well below GCL and is flagged. 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?				
				$Yes \square No \square N/A \boxtimes Comments:$
				Not included.
				ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)
Yes□ No□ N/A⊠ Comments:				
Not included.				
iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?				
Yes□ No□ N/A⊠ Comments:				
Not included.				
iv. Data quality or usability affected? Comments:				
No affected samples.				

L1546587			
aboratory Report Date:			
10/26/2022			
S Site Name:			
Speedway 5325 (Former T2GM #52)			
e. Trip Blanks			
 i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.) 			
Yes⊠ No□ N/A□ Comments:			
ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)			
Yes⊠ No□ N/A□ Comments:			
iii. All results less than LOQ and project specified objectives? Yes⊠ No□ N/A□ Comments:			
iv. If above LOQ or project specified objectives, what samples are affected? Comments:			
No affected samples.			
v. Data quality or usability affected? Comments:			
No affected samples.			
f. Field Duplicate			
i. One field duplicate submitted per matrix, analysis and 10 project samples?			
Yes⊠ No□ N/A□ Comments:			
ii. Submitted blind to lab?			
Yes⊠ No□ N/A□ Comments:			

L154	6587				
Laborator	ry Report Date:				
10/26	5/2022				
CS Site N	Name:				
Speed	dway 5325 (Former T2GM #52)				
	iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water, 50% soil)				
	Yes⊠ No□ N/A□ Comments:				
	iv. Data quality or usability affected? (Use the comment box to explain why or why not.) Comments:				
N	o.				
g.	g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?				
	Yes \square No \square N/A \boxtimes Comments:				
A	ll disposable equipment.				
	i. All results less than LOQ and project specified objectives?				
	Yes \square No \square N/A \boxtimes Comments:				
A	ll disposable equipment.				
	ii. If above LOQ or project specified objectives, what samples are affected? Comments:				
N	one.				
	iii. Data quality or usability affected? Comments:				
N	0.				

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	L1546587						
La	boratory Report Date:						
	10/26/2022						
CS Site Name:							
	Speedway 5325 (Former T2GM #	252)					
7.	7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)						
	a. Defined and appropriate?						
	Yes⊠ No□ N/A□	Comments:					