

**Speedway Store 5315  
(Former Tesoro 2 Go Mart #111)  
ADEC File #100.26.026**

**2nd Q - May 2022 GWM Event Report**

Prepared For



## **AUTHORIZATION TO SUBMIT REPORT**

Stantec has been authorized by the client, Speedway/7-Eleven (representative Anne Duarte, EHS/RS, Environmental Specialist) to submit this 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.

Regards,

**STANTEC CONSULTING SERVICES INC.**

•  
• *Bob E. Gilfilian*  
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Bob Gilfilian, P.E.  
Project Technical Lead

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## ACRONYMS AND ABBREVIATIONS

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AAC	Alaska Administrative Code
ADEC	Alaska Department of Environmental Conservation
AK	Alaska Test Method
amsl	above mean sea level
B	analyte detected in associated blank
BTEX	benzene, toluene, ethylbenzene, and xylenes
chemox	chemical oxidation
DO	dissolved oxygen
DRO	diesel range organics
DUP	duplicate sample
EPA	U.S. Environmental Protection Agency
G	monitor well label
GCL	groundwater cleanup level
gpm	gallons per minute
GRO	gasoline range organics
J	The identification of the analyte is acceptable; the reported value is an estimate.
Klozur <sup>®</sup> One	Trademarked chemical oxidizer developed by PeroxyChem
LLC	limited-liability company
mg/L	milligrams per liter
MW	monitoring well
NA	Not applicable
NE	Northeast
NM	Not measured
ORP	oxidation-reduction potential
QA/QC	quality assurance/ quality control
RM	remediation well
SE	Southeast
SIM	selective ion monitoring
Speedway	Speedway, LLC
Stantec	Stantec Consulting Services Inc.
SVE	Soil vapor extraction
SVOCs	Semi-volatile organic compounds
Tesoro	Tesoro Refining and Marketing Company
TMB	trimethylbenzene
U	analyte not detected above the reported detection limit in parentheses
UST	underground storage tank
VOC	volatile organic compound
WP	Work Plan

## 1.0 EXECUTIVE SUMMARY

This second quarter 2022 Groundwater Monitoring Event Report was prepared by Stantec Consulting Services Inc. (Stantec) on behalf of Speedway LLC for Store #5315 (formerly known as Tesoro 2 Go Mart #111), located at 3679 College Road, Fairbanks, Alaska (**Figure 1**). The methods used for this monitoring event were conducted in accordance with the 2022 Alaska Department of Environmental Conservation (ADEC) approved Work Plans for this site. The 2022 work plan proposed semi-annual monitoring starting in the 1<sup>st</sup> quarter of 2022 but could not be implemented due to severe winter conditions experienced in Fairbanks this past year so the monitoring event was rescheduled to the 2<sup>nd</sup> quarter as reported herein.

On May 17, 2022, the Stantec team, which included Engineer in Training Geoff Moorhead and Geologist in Training Remi Malenfant, conducted the 2<sup>nd</sup> quarter analytical sampling event of Monitoring Wells MW G-1, MW G-5, MW-10, MW-11, MW-12, MW-16, MW-17-1, MW-17-2, and Remediation Well RM-2.

Results of the analytical sampling is presented on **Figure 2** (Site Map with Analytical Data). Several of the well sampled had analytes of concern at concentrations exceeding ADEC groundwater cleanup levels (GCLs) as listed in Alaska Administrative Code (AAC) 18AAC 75.345, Table C (updated September 18, 2019) for all wells tested. Monitoring wells and the respective analytes in exceedance of ADEC GCLs included:

- G-1: Naphthalene
- G-5: Benzene, ethylbenzene, total xylenes, 1,2,4-trimethylbenzene (TMB), and naphthalene.
- MW-10: Ethylbenzene, diesel-range organics (DRO), 1,2,4-TMB, and naphthalene.
- MW-11: Benzene, ethylbenzene, total xylenes, DRO, gasoline-range organics (GRO), 1,2,4-TMB, 1,3,5-TMB, and naphthalene.
- MW-12: Ethylbenzene and 1,2,4-TMB.
- MW 17-1: Benzene, toluene, ethylbenzene, total xylenes, DRO, GRO, 1,2,4-TMB, 1,3,5-TMB, and naphthalene.
- MW 17-2: Ethylbenzene, total xylenes, GRO, DRO, 1,2,4-TMB, and naphthalene.

The groundwater gradient was calculated to be approximately 0.003 feet per foot with flow trending toward the south-southwest at 198 degrees (see groundwater contours in **Figure 3**).

An injection of Klozur<sup>®</sup> One product (chemox) was not completed during the 1<sup>st</sup> quarter due to the severe winter conditions but is planned for the 2<sup>nd</sup> quarter in the month of June 2022.

## 2.0 SITE BACKGROUND

Background information for this site is summarized in **Appendix A**.

### 3.0 FIELD ACTIVITIES

The following field activities were conducted during the May 17, 2022, monitoring event:

- Measured static groundwater levels at Monitoring and Remediation Wells G-1, G-5, MW-10, MW-11, MW-12, MW-16, MW-17-1, MW-17-2, RM-1 and RM-2
- Collected groundwater samples and field measurements of the following intrinsic water quality parameters from wells G-1, G-5, MW-10, MW-11, MW-12, duplicate of MW-12, MW-16, MW-17-1, MW-17-2, duplicate of MW-17-2, and RM-2: pH, temperature, oxidation-reduction potential, dissolved oxygen, and conductivity.
- Samples from the above locations were submitted for the following laboratory analysis: GRO by Alaska Test Method (AK)101, DRO by AK102, volatile organic compounds (VOCs) by U.S. Environmental Protection Agency (EPA) Test Method 8260C, semi-volatile organic compounds (SVOCs) with EPA Test Method 8270D-SIM, and Metals 6010 for sodium.

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

### 4.0 GROUNDWATER MONITORING RESULTS

**Groundwater Levels.** **Table 1** presents groundwater elevations at this site based on the depths to groundwater measured during the May 2022 monitoring event. Measured groundwater elevations showed a direction of flow across the site nearly the opposite direction compared with those measured during the 4<sup>th</sup> quarter 2021 monitoring event when the pump and treat remediation system consisting of wells RM-1 and RM-2 were operating. During the 4<sup>th</sup> quarter monitoring event the groundwater flow was determined to be to the north towards the pump and treat wells (RM-1 and RM-2). However, during the May monitoring event the remediation wells were not operating due to the severe snow and freezing conditions and the groundwater direction of flow was basically to the south. The groundwater levels for RM-1 and RM-2 shown in **Table 1** were measured with the well pumps not in operation note the confirmation of flow.

**Table 1 Groundwater Elevations**

Measured on May 17, 2022

Monitoring Well Identification	Top of Casing Elevation (feet) <sup>1</sup>	Depth to Groundwater (feet)	Groundwater Elevation (feet amsl)
G-1	429.97	11.97	418.00
G-5	431.36	12.13	419.23
MW-10	430.12	12.11	418.01
MW-11	430.50	12.45	418.05
MW-12	427.84	9.82	418.02
MW-13	429.76	NM	NM
MW-16	429.29	11.21	418.08
MW-17-1	430.17	12.60	417.57
MW-17-2	430.79	12.15	418.64
RM-1	428.22	10.14	418.08
RM-2	430.79	12.74	418.05

Key:

1 Based on a vertical control survey completed on July 21, 2021, using an elevation datum of 432.00 feet located on the concrete sidewalk next to the front entrance of the store.

amsl above mean sea level

NM Not measured

**Field Parameters.** The results of water quality parameter testing of the water samples collected during this monitoring event are presented in **Table 2**. DO levels are higher in MW-12 than in the rest of the wells, which is consistent with the pattern observed in October of last year.

**Table 2 Field Measured Intrinsic Water Quality Parameters**

Measured on May 17, 2022

Monitoring Well Identification	Volume Purged (gallons)	Temperature (°C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm °C)	ORP (mV)
G-1	12.5	4.6	6.8	4.98	1820	-60
G-5	3	4.2	6.77	2.56	1099	-73
MW-10	11	6.84	6.84	3.15	1004	-36.6
MW-11	6	3.31	6.9	3.15	970	-79.1
MW-12	7.2	4.55	6.74	12.2	1094	132.1
MW-13	NM	NM	NM	NM	NM	NM
MW-16	13.5	4.85	6.69	7.61	1098	32
MW-17-1	3	5.09	6.88	2.26	1108	-89.5
MW-17-2	3.5	4.15	6.87	4.01	1087	-68.6
RM-1	NM	NM	NM	NM	NM	NM
RM-2	Pumped	11.52	6.82	1.84	715	-84.3

Key:

°C	degrees Celsius	ORP	oxidation-reduction potential
µs/cm°C	microSiemens per centimeter degrees Celsius	pH	log [H <sup>+</sup> ]
mg/L	milligrams per liter	NM	Not measured
mV	millivolts		
DO	Dissolved Oxygen		

**Water Sample Analytical Results.** All wells were sampled in accordance with the 2022 Work Plan except for MW-13, which was inaccessible due to an ice plug approximately six feet below the top of the well casing, and RM-1 due to the well pump was inoperable. All historical monitoring data for this site are tabulated in **Appendix D**. Laboratory analytical results for compounds detected in groundwater samples collected during these events are summarized in **Table 3**. The laboratory analytical reports are provided in **Appendix E**. Lab results from this monitoring event show continued presence of sodium in all of the wells sampled except for MW 16 which is expected due to its location outside of the chemox injection area. Sodium is a good indicator of the presence of the Klozur One product.



**Table 3 Groundwater Analytical Results**

Samples Collected on May 17, 2022

ID	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENE (TOTAL)	GRO	DRO	1,2,4-TMB	1,3,5-TMB	NAPH-THALENE <sup>1</sup>	SODIUM
UNITS	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
G-1	0.00242	U (0.00100)	0.00293	0.00109 J	0.0829 B,J	0.586 J	0.00106	0.00192	<b>0.00173</b>	78.1
G-5	<b>0.0462</b>	0.178	<b>0.315</b>	<b>0.258</b>	1.45	1.46	<b>0.0681</b>	0.00399	<b>0.0397</b>	66.8
MW-10	0.00147 J	0.00300 J	<b>0.0318</b>	0.0913	0.858 B	<b>3.65</b>	<b>0.0694</b>	0.0185	<b>0.00286</b>	68.8
MW-11	<b>0.00712 J</b>	0.00793 J	<b>1.29</b>	<b>2.19</b>	<b>6.62</b>	<b>3.70</b>	<b>0.531</b>	<b>0.126</b>	<b>0.161</b>	72.1
MW-12	0.000342 J	0.000613 J	<b>0.0184</b>	0.0940	0.547	0.745 J	<b>0.116</b>	0.0250	0.000545	66.9
MW-16	U (0.00100)	U (0.00100)	U (0.00100)	0.000339	0.0297 B,J	0.967	0.000654 J	0.000128 J	U (0.00250)	40.4
MW-17-1	<b>0.582</b>	<b>1.63</b>	<b>3.03</b>	<b>9.48</b>	<b>30.8</b>	<b>7.43</b>	<b>1.53</b>	<b>0.315</b>	<b>0.241</b>	60.3
MW-17-2	0.00228 J	0.00417 J	<b>0.603</b>	<b>1.44</b>	<b>4.35</b>	<b>5.41</b>	<b>0.241</b>	0.0581	<b>0.0182</b>	70.5
DUP1	0.00325 J	U (0.0250)	<b>0.681</b>	<b>1.50</b>	<b>4.50</b>	<b>7.44</b>	<b>0.191</b>	<b>0.0679</b>	<b>0.0269</b>	70.9
RW-2	0.000133 J	U (0.00100)	0.00490	0.00183 J	0.127 B	U (0.840)	0.00149	0.000356 J	U (0.000250)	25.5
DUP2	U (0.00100)	U (0.00100)	0.00432	0.00122 J	0.133 B	U (0.800)	0.00103	0.000547 J	0.000327	25.8
GCLS	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>2.2</b>	<b>1.5</b>	<b>0.056</b>	<b>0.06</b>	<b>0.0017</b>	NA

## Key:

1	Results from VOC Method 8270 D	GCLs	Groundwater cleanup levels, 18 AAC 75.345, Table C, (9/18/2019)
<b>Bold</b>	indicates the concentration exceeds the GCL or the estimated quantitation limit exceeds the GCL	GRO	Gasoline range organics analyzed by AK101.
DUP	Duplicate sample of the preceding sample.	mg/L	milligrams per liter
DRO	Diesel range organics analyzed by AK102.	NA	Not Applicable.
J	The identification of the analyte is acceptable; the reported value is an estimate.	U ( )	Undetected above practical quantitation limits shown in parentheses.
		B	Analyte found in associated blank.

**Quality Assurance (QA)/Quality Control (QC) Review.** Pace Analytical performed all analysis of groundwater samples for the May 2022 sampling event. Pace Analytical met all laboratory QA/QC criteria during the analysis of groundwater samples for this sampling event with the exception of the hold time to extract SVOC samples as noted in **Table 4**. SVOCs were extracted for analysis 7 days from collection, which is the limit of the quality criteria, but all were extracted before the time they were collected, and with the time zone change were all extracted several hours before the quality criteria of 7 days was exceeded.

DUP1 is a duplicate of sample MW-17-2 and DUP2 is a duplicate sample of sample RW-2. The duplicate sample sets were collected to determine the precision of the field collection and laboratory analysis for this sampling event. Data presented in **Table 4** shows Duplicate Sample Set 1 had precision values outside

quality control criteria for benzene, DRO, and naphthalene. Duplicate Sample Set 2 exceeded precision tolerances for xylenes, 1,2,4-TMB, and 1,3,5-TMB. Laboratory QC data and the ADEC Laboratory Data Review Checklists are included in **Appendix E**.

**Table 4 Laboratory Quality Control Objectives**

Samples Collected on May 17, 2022

Quality Control Designation	Tolerance	Results for This Event	
<b>Holding Times</b>			
DRO/Water/to analyze	40 days	9 days <sup>1</sup>	
DRO/Water/to extract	14 days	9 days <sup>1</sup>	
GRO/Water/to analyze	14 days	8 days	
VOCs/Water/to analyze	14 days	10 days <sup>1</sup>	
SVOCs/Water/to analyze	40 days	9 days <sup>1</sup>	
SVOCs/Water/to extract	7 days	7 days <sup>1</sup>	
<b>Field Duplicate – Precision</b>			
Benzene/Water	± 30%	DUP1	<b>35.08 %</b>
		DUP2	NC
Toluene/Water	± 30%	DUP1	NC
		DUP2	NC
Ethylbenzene/Water	± 30%	DUP1	12.15 %
		DUP2	12.58 %
Xylenes/Water	± 30%	DUP1	4.08 %
		DUP2	<b>40.00 %</b>
GRO/Water	± 30%	DUP1	3.39 %
		DUP2	4.62 %
DRO/Water	± 30%	DUP1	<b>31.60 %</b>
		DUP2	NC
1,2,4-Trimethylbenzene	± 30%	DUP1	23.15 %
		DUP2	<b>36.50 %</b>
1,3,5-Trimethylbenzene	± 30%	DUP1	15.56 %
		DUP2	<b>42.30 %</b>
Naphthalene	± 30%	DUP1	<b>38.58 %</b>
		DUP2	NC

Key:

% Absolute value percentage of variance  
 ± Absolute Value  
 DRO diesel range organics  
 GRO gasoline range organics  
 NC Not Calculated, undetected in duplicate

SVOC Semi-volatile organic compound  
 VOC Volatile organic compound  
**BOLD** Exceeds precision tolerance  
 1 Maximum time. Some samples extracted or analyzed earlier.

## 5.0 REMEDIATION SYSTEM OPERATION AND IN-SITU CHEMOX REMEDIATION

The “pump and treat” remediation system consisting of wells RM-1 and RM-2 was not operated during the winter due to the severe snow and freezing conditions. As noted in Section 4.0 (**Table 3**), the contaminant concentrations in most of the wells across the site are relatively consistent compared to past monitoring events which strongly suggests the need for more aggressive remediation methods, i.e., maintaining a year round groundwater pump and treat process and increase in the injection frequency and amount of chemox product. To accomplish this goal, Stantec plans to implement the following tasks during the month of June 2022:

- Conduct the first chemox injection of Klozur® One product into five treatment/injection points consisting of SVE-1, SVE-2, SVE-3, NE Injection Well, SE Injection Well.
- Complete the installation of the water line connection between remediation well RM-2 and RM-1 which will provide an effective means of improving the continuous flow of groundwater recirculation across the site.
- Complete the assessment of existing buried lines to former air sparge injection wells. The useable lines may be used for the injection of chemox into other contaminated areas on the sites surrounding the fuel dispensers.

## 6.0 CONCLUSIONS

Results of the analytical sampling showed analytes were present at concentrations exceeding ADEC groundwater cleanup levels (GCLs) as listed in Alaska Administrative Code (AAC) 18AAC 75.345 Table C (updated September 18, 2019) for all wells tested. Monitoring wells and the respective analytes in exceedance of ADEC GCLs included:

- G-1: Naphthalene
- G-5: Benzene, ethylbenzene, total xylenes, 1,2,4-trimethylbenzene (TMB), and naphthalene.
- MW-10: Ethylbenzene, DRO, 1,2,4-TMB, and naphthalene.
- MW-11: Benzene, ethylbenzene, total xylenes, DRO, GRO, 1,2,4-TMB, 1,3,5-TMB, and naphthalene.
- MW-12: Ethylbenzene and 1,2,4-TMB.
- MW 17-1: Benzene, toluene, ethylbenzene, total xylenes, DRO, GRO, 1,2,4-TMB, 1,3,5-TMB, and naphthalene.
- MW 17-2: Ethylbenzene, total xylenes, GRO, DRO, 1,2,4-TMB, and naphthalene.

The groundwater gradient was calculated to be approximately 0.003 feet per foot with flow trending toward the south-southwest at 198 degrees. The direction of groundwater flow across this site was noted to be influenced by the operation of the pump and treat recirculation wells, i.e., when the well pumps are

in operation the flow is typically towards the north compared to flowing to the south when the pumps were off.

## **7.0 RECOMMENDATIONS AND PROPOSED ACTIVITIES**

No anomalies were found during the May 2022 groundwater monitoring event that would require additional corrective action or changes to the approved year 2022 Corrective Action Work Plan for this site. However, several recommendations for site improvements in the operation of the remediation system were made in Section 5.0 that should be completed prior to the start of the 3<sup>rd</sup> quarter of 2022.

## **8.0 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.

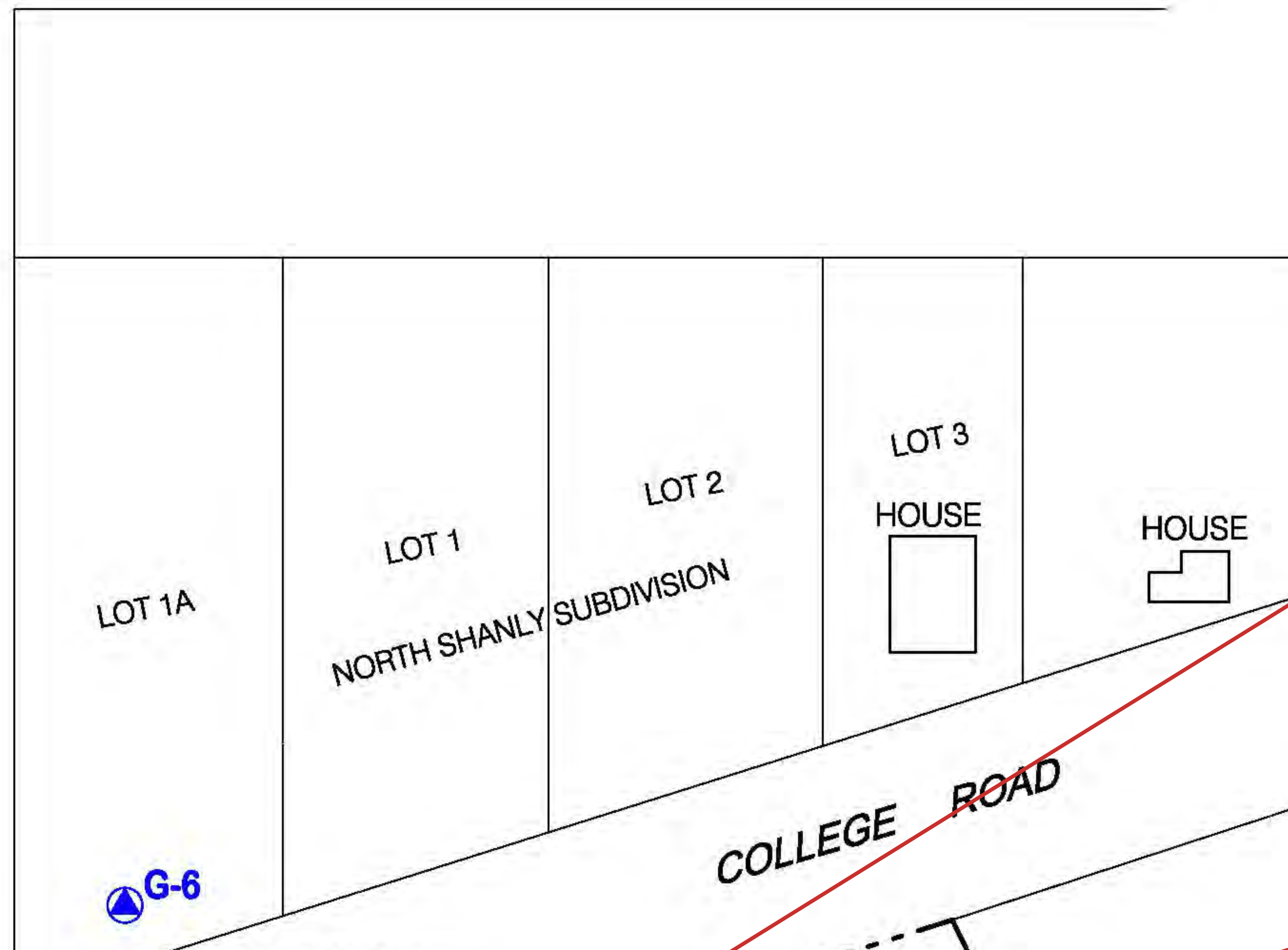
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## **FIGURES**

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|----------|------------------------------------|
| Figure 1 | Location and Vicinity Map          |
| Figure 2 | Site Map Plan with Analytical Data |
| Figure 3 | Groundwater Elevation Contours     |
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**RM-2** 5/17/22

124-TMB	0.00149
135-TMB	0.000547
BENZENE	0.000133
DRO	U(0.840)
ETHYLBENZENE	0.0049
GRO	0.133
NAPHTHALENE	0.000327
SODIUM	25.8
TOLUENE	U(0.00100)
XYLENES	0.00183

**MW17-2** 5/17/22

124-TMB	<b>0.241</b>
135-TMB	0.0679
BENZENE	0.00325
DRO	<b>7.44</b>
ETHYLBENZENE	<b>0.618</b>
GRO	<b>4.5</b>
NAPHTHALENE	<b>0.0269</b>
SODIUM	70.9
TOLUENE	0.00417
XYLENES	<b>1.5</b>

**MW-16** 5/17/22

124-TMB	0.000654
135-TMB	0.000128
BENZENE	U(0.00100)
DRO	0.967
ETHYLBENZENE	U(0.00100)
GRO	0.0297
NAPHTHALENE	U(0.000250)
SODIUM	40.4
TOLUENE	U(0.00100)
XYLENES	0.000339

**MW-10** 5/17/22

124-TMB	<b>0.0694</b>
135-TMB	0.0185
BENZENE	0.00147
DRO	<b>3.65</b>
ETHYLBENZENE	<b>0.0318</b>
GRO	0.858
NAPHTHALENE	<b>0.00286</b>
SODIUM	68.8
TOLUENE	0.003
XYLENES	0.0913

**MW-12** 5/17/22

124-TMB	<b>0.116</b>
135-TMB	0.025
BENZENE	0.000342
DRO	0.745
ETHYLBENZENE	<b>0.0184</b>
GRO	0.547
NAPHTHALENE	0.000545
SODIUM	66.9
TOLUENE	0.000613
XYLENES	0.094

**MW-11** 5/17/22

124-TMB	<b>0.531</b>
135-TMB	<b>0.126</b>
BENZENE	<b>0.00712</b>
DRO	<b>3.7</b>
ETHYLBENZENE	<b>1.29</b>
GRO	<b>6.62</b>
NAPHTHALENE	<b>0.161</b>
SODIUM	72.1
TOLUENE	0.00793
XYLENES	<b>2.19</b>

**G1** 5/17/22

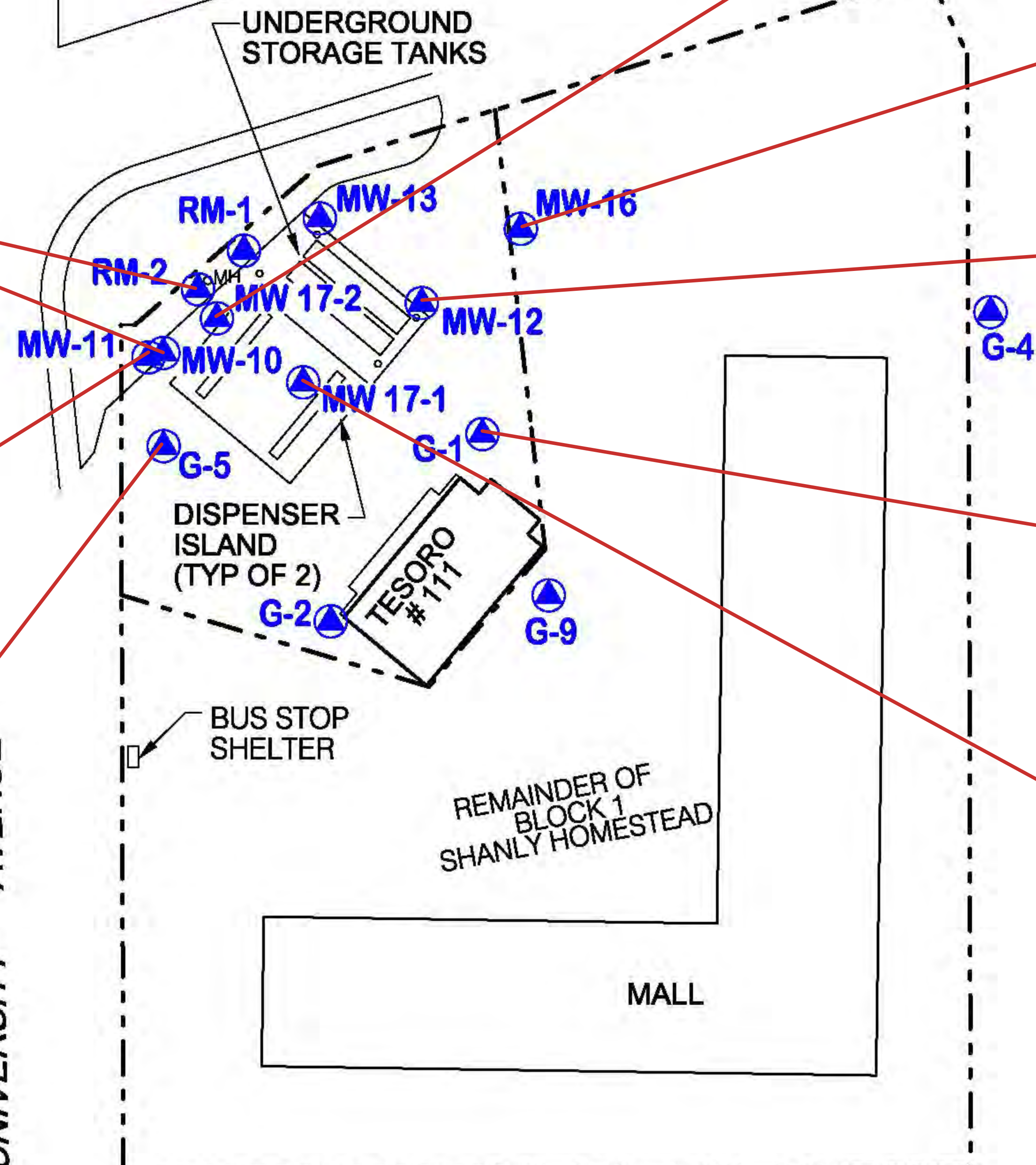
124-TMB	0.00106
135-TMB	0.00192
BENZENE	0.00242
DRO	0.586
ETHYLBENZENE	0.00293
GRO	0.0829
NAPHTHALENE	<b>0.00173</b>
SODIUM	78.1
TOLUENE	U(0.00100)
XYLENES	0.00109

**G5** 5/17/22

124-TMB	<b>0.0681</b>
135-TMB	0.00399
BENZENE	<b>0.0462</b>
DRO	1.46
ETHYLBENZENE	<b>0.315</b>
GRO	1.45
NAPHTHALENE	<b>0.0397</b>
SODIUM	66.8
TOLUENE	0.178
XYLENES	<b>0.258</b>

**MW17-1** 5/17/22

124-TMB	<b>1.53</b>
135-TMB	<b>0.315</b>
BENZENE	<b>0.582</b>
DRO	<b>7.43</b>
ETHYLBENZENE	<b>3.03</b>
GRO	<b>30.8</b>
NAPHTHALENE	<b>0.241</b>
SODIUM	60.3
TOLUENE	<b>1.63</b>
XYLENES	<b>9.48</b>



SITE DATA COMPARED TO ADEC Groundwater Cleanup Levels (GCLs)	ND NOT DETECTED	124-TMB	0.015 mg/L
	-- NOT SAMPLED	135-TMB	0.12 mg/L
50 SAMPLED & UNDER GCL	BENZENE	0.0046 mg/L	
100 SAMPLED & OVER GCL	DRO	1.5 mg/L	
FP FREE PRODUCT DISPLAYED IN mg/L	ETHYLBENZENE	0.015 mg/L	
	GRO	2.2 mg/L	
	NAPHTHALENE	0.0017 mg/L	
	SODIUM		
	TOLUENE	1.1 mg/L	
	XYLENES	0.19 mg/L	

**LEGEND:**  
 - - - - - PROPERTY LINE  
 MONITORING WELL LOCATION



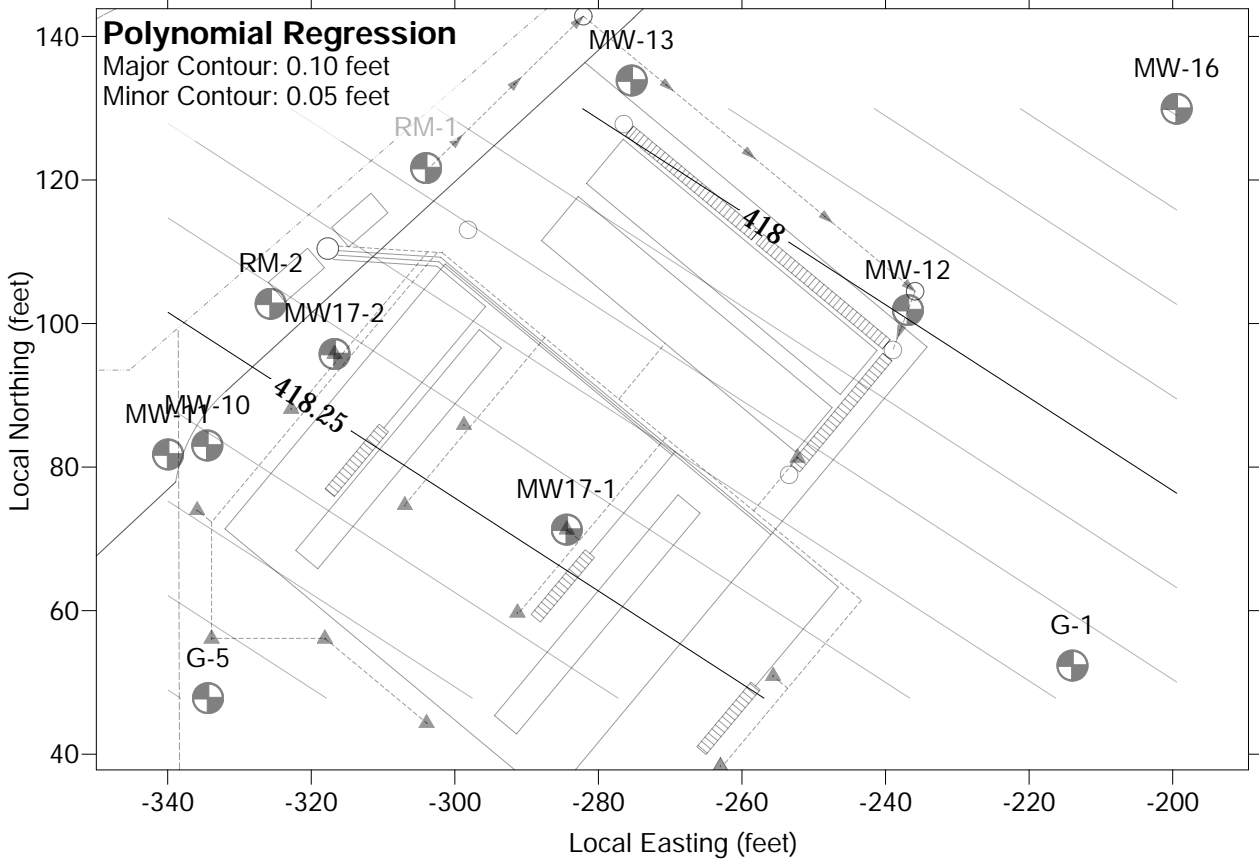
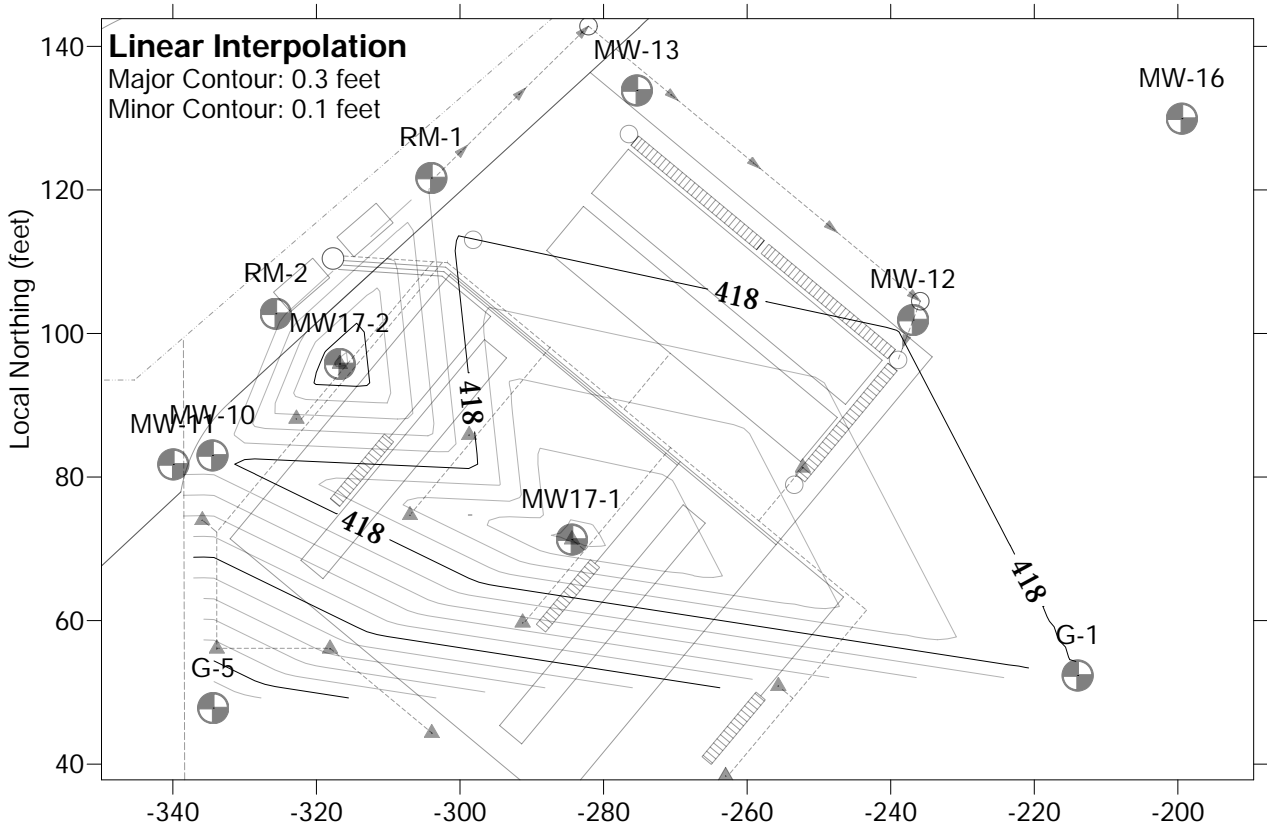
**SPEEDWAY STORE 5315  
(FORMER TESORO 2 GO MART #111)**

**SITE MAP WITH ANALYTICAL DATA**

**FIGURE  
2**

185705774

**Figure 3**  
Groundwater Elevation Contours  
Speedway Store 5315 May 5, 2022



Elevation datum is locally established benchmark at 432.00 feet.



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## **APPENDIX A**

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### *Site Background*

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## APPENDIX A – SITE BACKGROUND

**Tesoro 2 Go Mart #111** (3679 College Road, Fairbanks, Alaska)  
**ADEC Facility ID #1112; ADEC File #102.26.026**

Tesoro 2 Go Mart #111 is a retail fuel service station located at the corner of University Drive and College Road in Fairbanks, Alaska. The service station is operated in conjunction with a Tesoro convenience store. A fuel dispensing service station is reported to have been operated at this site since 1971.

Gilfilian Engineering & Environmental Testing (GE<sup>2</sup>T), MWH Americas, Inc. (MWH), and Stantec Consulting Services Inc. (Stantec) have performed numerous site investigations and monitoring events at this site since 1995.

**November 1990.** Shannon & Wilson Inc. installed three groundwater monitoring wells (MW-1, MW-3, and MW-4) and drilled one soil boring (SB-2) at the site to evaluate potential for soil and groundwater contamination prior to right-of-way acquisition. Monitoring Well MW-1 and Boring SB-2 were drilled near the former underground storage tanks (USTs). Petroleum hydrocarbons were detected above Alaska Department of Environmental Conservation (ADEC) soil cleanup levels (SCLs) in MW-1 and Boring SB-2.

**February 1991.** A release investigation (RI) was conducted by Shannon & Wilson Inc., during which two monitoring wells (MW-10 and MW-16) and seven soil borings were installed. Petroleum hydrocarbons were detected above SCLs in six of the nine soil borings. Petroleum-related compounds were detected in all monitoring wells sampled. The highest concentrations were detected in MW-1 and MW-10.

**September 1992.** Two 12,000-gallon USTs, one 8,000-gallon UST, and one 1,000-gallon UST were removed and replaced with three 10,000-gallon STIP-3, single wall USTs. Petroleum hydrocarbons were detected above SCLs in the UST removal excavations. Due to a nearby high flow groundwater extraction process along the Chena River, operated by a non-Tesoro entity, the groundwater table was lowered by many feet in the surrounding area. Prior to the pumping operation, the groundwater table was typically 12 feet below the ground surface (bgs). When the USTs were replaced, the groundwater was found at 22 feet bgs. After the pumping operation along the Chena River was completed, the groundwater table returned to normal levels. The drop and rise of the groundwater resulted in spreading the smear zone of petroleum contamination over a 12-foot vertical range beneath the site.

**July 1995.** GE<sup>2</sup>T installed two new monitoring wells (G-1 and G-2). Petroleum hydrocarbons were not detected above SCLs but were above the ADEC groundwater cleanup levels (GCLs) in both monitoring wells.

**August through October 1998.** The canopy and fuel dispenser system were upgraded to include new fuel dispensers, a tank monitoring system, and a cathodic protection system. Soil samples collected from below the former dispensers and piping exceeded SCLs for hydrocarbons. As a

result, piping was laid in these excavations for expansion of the air sparge (AS) and soil vapor extraction (SVE) system. In addition, six vertical cathodic protection anodes were spaced around the USTs.

**May 1991.** A Phase III RI was conducted that involved drilling two soil borings off the site and installing two new monitoring wells (G-3 and G-4). Petroleum hydrocarbons were not detected above SCLs (borings) or GCLs (monitoring wells), indicating these wells are located beyond the extent of groundwater contamination at the site.

**May 2001.** A RI was conducted that involved drilling two soil borings and installing two new monitoring wells (on-site G-5 and off-site G-6). Samples collected from G-6 did not exceed SCLs or GCLs, but both were exceeded in samples from G-5 (on-site well)

**May 2003.** Four additional AS wells were installed at the site. Benzene was detected above the SCL in AS Wells AS-13 and AS-14, and diesel range organics (DRO) was detected slightly above the SCL in AS-14. No other compounds were detected above the SCLs.

**November 2003.** A RI was performed at the site. The RI involved drilling one soil boring that was completed as a 2-inch diameter monitoring well (G-9). No analytes of concern were detected at concentrations above the laboratory practical quantitation limits (PQLs) in soil or groundwater samples collected during the RI.

**June 2010.** A sampling event was conducted for sulfolane in Monitoring Well MW-10. Sample results were non-detect.

**June 2012.** MWH conducted an UST closure site assessment. The former UST system consisted of three 10,000-gallon capacity gasoline and diesel tanks, associated piping, and three dispenser islands with one overhead canopy. The three USTs were replaced with two, multi-compartment, 15,000-gallon capacity fiberglass USTs. Petroleum-contaminated soil was encountered during the UST removal. The contaminated soil was removed from the site for off-site thermal treatment. Soil contamination was found at 13 feet bgs, a couple of feet below the bottom of the new USTs. Due to the groundwater conditions, the saturated contaminated soil could not be removed and, therefore, was left in-place.

**September 2012.** A RI was performed at the site. The RI involved advancing four soil borings (three around the new USTs in the northern portion of the site and one along the west edge of the site) and collecting three soil samples from each soil boring. Three groundwater monitoring wells (MW-11, MW-12, and MW-13) and one air lift well (RM-1) were installed in the four soil borings and groundwater samples were collected. Petroleum hydrocarbons were detected above SCLs in the soil borings along the west edge of the site, the northern portion of the property line on the east side of the USTs, and the northern side of the dispenser island. Petroleum hydrocarbons were detected above the GCLs in all three monitoring wells.

**June 2013.** A first round of chemical oxidation application of Klozur CR<sup>®</sup> was injected into two on-site wells (Monitoring Well MW-10 and AS Well AS-9). Monitoring Well G-5 was used to measure the chemical oxidation impact to the groundwater table. The prior and post injection

results of intrinsic parameters clearly indicated the effectiveness of the chemical oxidant – in particular with respect to the sodium, pH, total organic carbon (TOC), and dissolved oxygen levels. The laboratory analytical results indicated significant reductions in the petroleum contaminants of concern.

**July 2013.** A pump test was conducted of Remediation Well RM-1, which was initially designed and constructed to serve as an air-lift well. Due to concerns about maintaining a continuous pumping air-lift well in the sub-Arctic climate found in the Fairbanks area, it was decided to pump the well with a submersible well pump. The field test data collected during the 2-day well pump test indicated that, by recirculating the water pumped from RM-1 into the upgradient horizontal wells that were installed along the bottom edge of the USTs, the contaminated groundwater flowing beneath the USTs would be captured in RM-1. Then the groundwater could be pumped (re-circulated) back into the upgradient horizontal wells. On a quarterly basis, the groundwater would undergo chemical oxidation with the injection of Klozur CR<sup>®</sup> into the horizontal wells. Also, it was initially planned to add air in the well pump discharge line via a venturi air injector.

**August/September 2013.** Two rounds of Klozur CR<sup>®</sup> were injected into one on-site well (Monitoring Well MW-12). Water samples were collected from Monitoring Wells MW-12 and MW-13, and Remediation Well RM-1 prior to and approximately 6 and 8 weeks after the first round of Klozur CR<sup>®</sup> application. Most analytes of concern showed a significant reduction in concentrations. In addition, the dissolved oxygen level in MW-12 was noted to be very high, which confirmed the claim that Klozur CR<sup>®</sup> provides an extended oxygen release for long-term remediation of contaminant plumes in groundwater. Given these positive preliminary pilot test findings, MWH recommended additional rounds of application of Klozur CR<sup>®</sup> chemical oxidant to treat the residual contamination found in the area beneath the USTs.

**March 2014.** Petroleum compounds were found to exceed GCLs in Monitoring Wells G-1, MW-10, MW-11, MW-12, MW-16, and Remediation Well RM-1. The SVE system remained in operation. The AS system operation was temporarily inactive pending system upgrades.

**July 2014.** Petroleum compounds were found to exceed GCLs in Monitoring Wells G-5, MW-10, MW-11, and MW-16, as well as Remediation Well RM-1. The SVE system remained in operation. The AS system operation was temporarily inactive pending system upgrades. During July, Remediation Well RM-1 was outfitted with a submersible pump and linked to a series of horizontal injection wells which were positioned at the water table interface along the east and southern periphery of the UST system upgrades at the site. An in-line venturi was installed to aerate water within the remediation system prior to injection.

**March 2015.** Petroleum compounds were found to exceed GCLs in Monitoring Wells MW-10, MW-11, MW-12, and MW-16, as well as Remediation Well RM-1. The SVE system remained in operation. The operation of the groundwater circulation system was suspended due to mineral deposits or biological growth (related to the abundance of aqueous iron in the system) that fouled the submersible pump and lowered the efficiency of the well screen at the remediation well (RM-1).

**July 2015.** Petroleum compounds were found to exceed GCLs in Monitoring Wells MW-10, MW-11, MW-12, and MW-16, as well as Remediation Well RM-1. The SVE system remained in operations. Well rehabilitation, by acid treatment, was performed in RM-1 and the south horizontal injection well. Chemical oxidation treatment with the manual injection of Klozur CR<sup>®</sup> product was performed at the southeast and northeast horizontal injection wells.

**February 2016.** Results of the analytical sampling showed the analytes detected above the GCLs included: DRO in Monitoring Wells MW-10 and MW-13, and gasoline range organics (GRO) in Remediation Well RM-1. Chemical oxidation treatment with the manual injection of Klozur CR<sup>®</sup> product was performed at the southeast and northeast horizontal injection wells.

**October 2016.** Results of the analytical sampling showed that DRO was detected above the GCL in Monitoring Well MW-10, and benzene and GRO were detected above the GCLs in Remediation Well RM-1. Remediation Well RM-1 was manually injected with NUWELL<sup>™</sup>. Chemical oxidation treatment with the manual injection of Klozur CR<sup>®</sup> product was performed at the southeast and northeast horizontal injection wells.

**March 2017.** Results of the analytical sampling showed analytes present above the GCLs in Monitoring Wells G-1, G-5, MW-10, MW-11, and MW-12. Analytes in exceedance included benzene, ethylbenzene, xylenes, GRO, and DRO. The SVE system continues to operate within normal parameters. Remediation Well RM-1 remains inactive, following the discovery of a frozen circulation line the last week of November 2016. The AS system is currently inactive pending evaluation of the system.

**July 2017.** Results of the analytical sampling showed analytes present above the GCLs in Monitoring Wells G-1, MW-11, MW-12, and MW-16. Monitoring Wells G-5 and MW-10 had ice plugs present. The expanded suite of volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs) for Monitoring Wells MW-11, MW-12, and Remediation Well RM-1 also indicated GCL exceedances. Remediation Wells RM-1 was placed back in operation at 1.4 gallons per minute at 90 pounds per square inch (psi). SVE and AS systems currently inactive.

**March 2018.** Results of the analytical sampling showed analytes were present above the GCLs in Monitoring Wells G-5, MW-10, MW-11, MW17-1, and MW17-2. Remediation Well RM-1 was shut down during the winter because of the continued power failure of the newly installed heat trace. The SVE and AS systems remain inactive.

**September 2018.** Results of the analytical sampling showed analytes were present at concentrations exceeding ADEC GCLs in Monitoring Wells G-5, MW-10, MW-11, MW-12, MW17-1, and MW17-2, as well as Remediation Well RM-1. Analytes in exceedance included: BTEX, GRO, DRO, VOCs, and/or PAHs.

Upon arrival at the site, Remediation Well RM-1, for the groundwater recirculation chemox treatment system, was not operating due to freeze damage caused by heat trace failure. The RM-1 well pump was placed back into continuous operation after repairs were made to the water line located in RM-1 manhole.

A chemox solution consisting of 110 pounds of Klozur One, with approximately 800 gallons of clean water, was injected into the two horizontal groundwater injection wells located along the eastern edge of the UST.

**March 2019.** Results of the analytical sampling showed analytes were present at concentrations exceeding ADEC GCLs in Monitoring Wells G-1, G-5, MW-10, MW-11, MW-16, MW 17-1, and MW 17-2. Analytes in exceedance included: BTEX, GRO, and DRO. It is noted that GRO above the GCL was detected in Monitoring Well G-1, which was uncharacteristic since this well has not had an exceedance for GRO in past 17 years of monitoring. This well will be resampled during the semi-annual monitoring event to further assess the groundwater condition in this area of the site.

Upon arrival at the site, Remediation Well RM-1, for the groundwater recirculation chemox treatment system, was operating but was shut off due to debris entering the pump intake. It will be cleaned and restarted after daily air temperatures remain above freezing.

**July 2019.** Results of the analytical sampling showed analytes were present at concentrations exceeding ADEC GCLs in Monitoring Wells G-5, MW-10, MW-11, MW 17-1, and MW 17-2 and Remediation Well RM-1. Analytes in exceedance included: BTEX; GRO; DRO; 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene; naphthalene; and 1-methylnaphthalene. It was noted that GRO above the GCL was detected in Monitoring Well G-1 during March 2019 monitoring (an anomaly after 17 years of sampling), and this well was resampled during this semi-annual monitoring event and GRO was found to be under the PQL and the GCL.

**October 2019.** A high dose chemox solution of 165 lbs of Klozur One to 150 gallons of water was injected into three SVE access lines (SVE-1, SVE-2, and SVE-3) while 110 lbs of Klozur<sup>®</sup> One was injected into the horizontal groundwater injection well on the eastern edge of the UST. The Klozur<sup>®</sup> treatments were then pushed into the formation with more than 1000 gallons of water from RM-2. Analytical sampling of RM-1 and RM-2 was conducted. Analyte levels exceeding ADEC GCLs in RM-2 were Benzene, Ethylbenzene, and Xylene. Analyte levels exceeding ADEC GCLs in RM-1 were Ethylbenzene, Xylene, and GRO.

**July and August 2020.** RM-1 was turned off in January 2020 due to the system freezing. RM-1 was brought back online July 1, 2020. On July 15, 2020, a chemox solution of 110 lbs of Klozur<sup>®</sup> One to 100 gallons of water was injected into the three SVE access lines and into the horizontal groundwater injection well on the eastern edge of the UST, then pushed into the formation with 150 gallons of water from RM-2 at each point. In total the site was treated with 440 lbs of Klozur<sup>®</sup> One. A leaking fitting on the line feeding the eastern edge of the UST from the freeze up the previous winter was repaired.

Results of the analytical sampling showed analytes were present at concentrations exceeding ADEC GCLs in Monitoring Wells G-5, MW-10, MW-11, MW 17-1, and MW 17-2 and Remediation Well RM-1. Analytes in exceedance included: BTEX; GRO; DRO; 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene; naphthalene; and 1-methylnaphthalene. It was noted that sodium was detected for all locations sampled

After the August 2020 sampling event, a low profile equipment shed was installed over remediation well RM-2. Subsequently plumbing was installed to facilitate recirculated groundwater flow pumped from RM-2 to discharge on a full time and year round basis into the three former SVE horizontal wells located beneath and adjacent to the fuel dispenser islands. Since September 3, 2020, RM-2 had recirculated more than 316,000 gallons of water into the SVE lines prior to the October 14, 2020 sampling event.

**October 2020.** Stantec conducted a fourth quarter analytical sampling event of Monitoring Wells MW-10, MW-11, MW-12, MW-13, MW-16, MW 17-1, MW 17-2, G-1, and G-5 as well as Remediation Wells RM-1 and RM-2. The groundwater depth measurements indicate the average hydraulic gradient was approximately 0.007 feet per foot directed toward the northwest at 330 degrees. Analytes in exceedance included: benzene, ethylbenzene, and xylenes (BTEX); gasoline range organics (GRO); diesel range organics (DRO), 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and naphthalene. It is noted that analytes levels for RM-2 measurable increased since the August 2020 monitoring event which is interpreted as an indication that the remediation well is capturing the contaminated groundwater plume. Equally important is the finding that the petroleum contaminant levels have decreased appreciably in MWs 17-1 and 17-2 which may be a positive indication of in-situ treatment with the chemox injection.

On October 15, 2020, a chemical oxidation (chemox) injection with Klozur<sup>®</sup> One of 550 pounds of Klozur<sup>®</sup> combined with 350 gallons of water from RM-2 into five treatment points that was then pushed into the formation with flow from RM-1 and RM-2. The Klozur<sup>®</sup> One injections were into the three soil vapor extraction (SVE) system lines on the western portion of the site and into the two former SVE horizontal lines along the eastern edge of the UST located on the eastern portion of the site. In November 2020, RM-1 shutoff to prevent clogging of the eastern SVE injection lines from the high amount of iron oxide (precipitates and flocculation) noted during the O&M and sampling events in 2020.

**March 2021.** Stantec conducted a first quarter (semi-annual) analytical sampling event of Monitoring Wells MW-12, MW-13, MW 17-1, MW 17-2, and G-1, as well as Remediation Well RM-1. Results of the March 2021 groundwater analytical sampling showed that analytes detected above ADEC groundwater cleanup levels (GCLs) as listed in Alaska Administrative Code (AAC) 18AAC 75.345 Table C (9/18/2019) for all wells tested in the primary groundwater samples were:

- Monitoring well MW 12: Ethylbenzene.
- Monitoring well MW 17-1: Ethylbenzene, xylenes, gasoline range organics (GRO), diesel range organics (DRO), 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and naphthalene.
- Monitoring well MW 17-2: DRO, and naphthalene (non-detect lab reporting level exceeded ADEC GCL).
- Remediation well RM-2: Benzene, ethylbenzene, xylenes, GRO, DRO, 1,2,4-trimethylbenzene, and naphthalene.

It is noted that analytes levels for RM-2 measurable increased since the August 2020 monitoring event which is interpreted as an indication that the remediation well is capturing the contaminated groundwater plume. Equally important is the finding that the petroleum contaminant levels have decreased appreciably in MWs 17-1 and 17-2 which may be a positive indication of in-situ treatment with the chemox injection.

Hydraulic gradient and direction of groundwater flow was not calculated for this monitoring event since the pumping level in remediation well RM-2 was not measured to determine the radius of influence.

**October 2021.** Stantec conducted a fourth quarter (semi-annual) analytical sampling event of Monitoring Wells MW G-1, MW G-5, MW-10, MW-11, MW-12, MW-13, MW-16, MW-17-1, MW-17-2, and Remediation Wells RM-1, and RM-2. Results of the analytical sampling showed analytes were present at concentrations exceeding ADEC groundwater cleanup levels (GCLs) as listed in Alaska Administrative Code (AAC) 18AAC 75.345 Table C (updated November 18, 2021) for all wells tested. Monitoring wells and the respective analytes in exceedance of ADEC GCLs included:

- G-1: Naphthalene
- G-5: Benzene, ethylbenzene, 1,2,4-trimethylbenzene (TMB), and naphthalene.
- MW-10: DRO.
- MW-11: Ethylbenzene, xylenes, DRO, GRO, 1,2,4-TMB, 1,3,5-TMB, and naphthalene.
- MW-12: Ethylbenzene, xylenes, and naphthalene.
- MW-16: DRO.
- MW 17-1: Benzene, toluene, ethylbenzene, xylenes, DRO, GRO, 1,2,4-TMB, 1,3,5-TMB, and naphthalene.
- MW 17-2: DRO, and naphthalene.
- RM-1: Ethylbenzene, xylenes, DRO, GRO, 1,2,4-TMB, 1,3,5-TMB, and naphthalene.
- RM-2: Ethylbenzene, and naphthalene.

The professional modeling software program (Surfer<sup>®</sup>) was used to calculate with polynomial regression the average groundwater hydraulic flow across the site. The groundwater gradient was calculated to be approximately 0.002 feet per foot with flow trending toward the north-northeast at 30 degrees presented on **Figure 2**. However, the “pump and treat” remediation system creates large variation in the groundwater elevations across the site. As shown on the groundwater contour map in **Appendix C**, there is a depression of the groundwater table at “pump and treat” remediation wells RM-1 and RM-2 and slight mounding of the groundwater table at MW G-5, and MW-17-2. In conclusion, it is recommended the average gradient and direction of flow across the site as calculated by regression analyses not be applied to the site but rather note the confirmation of flow towards the “pump and treat” wells (RM-1 and RM-2).



On October 14, 2021, Stantec conducted a chemical oxidation (chemox) injection of Klozur<sup>®</sup> One product into five treatment/injection points consisting of SVE-1, SVE-2, SVE-3, NE Injection Well, SE Injection Well. The Klozur<sup>®</sup> One product was mixed with potable water from the retail convenience store. Following the chemox injection, the Klozur<sup>®</sup> One solution was “hydraulically flushed” into the subsurface formation by injecting additional potable water into several of the wells. In summary, a total of 550 pounds of Klozur<sup>®</sup> One product mixed with 1,100 gallons of potable water plus was injected into the subsurface via the remediation wells during the chemox injection process. In addition, 165 gallons of potable water was used to flush the chemox into the subsurface formation.

**May 2022.** Stantec conducted the second quarter 2022 Groundwater Monitoring Event that involved the sampling of Monitoring Wells MW G-1, MW G-5, MW-10, MW-11, MW-12, MW-16, MW-17-1, MW-17-2, and Remediation Well RM-2. Several of the well sampled had analytes of concern at concentrations exceeding ADEC groundwater cleanup levels (GCLs) as listed in Alaska Administrative Code (AAC) 18AAC 75.345, Table C (updated September 18, 2019) for all wells tested. Monitoring wells and the respective analytes in exceedance of ADEC GCLs included:

- G-1: Naphthalene
- G-5: Benzene, ethylbenzene, total xylenes, 1,2,4-trimethylbenzene (TMB), and naphthalene.
- MW-10: Ethylbenzene, DRO, 1,2,4-TMB, and naphthalene.
- MW-11: Benzene, ethylbenzene, total xylenes, DRO, GRO, 1,2,4-TMB, 1,3,5-TMB, and naphthalene.
- MW-12: Ethylbenzene and 1,2,4-TMB.
- MW 17-1: Benzene, toluene, ethylbenzene, total xylenes, DRO, GRO, 1,2,4-TMB, 1,3,5-TMB, and naphthalene.
- MW 17-2: Ethylbenzene, total xylenes, GRO, DRO, 1,2,4-TMB, and naphthalene.

The groundwater gradient was calculated to be approximately 0.003 feet per foot with flow trending toward the south-southwest at 198 degrees.

An injection of Klozur<sup>®</sup> One product (chemox) was not completed during the 1<sup>st</sup> quarter due to the severe winter conditions but is planned for the 2<sup>nd</sup> quarter in the month of June 2022.

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## **APPENDIX B**

### *Field Methods and Procedures*

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## APPENDIX B – FIELD METHODS AND PROCEDURES

**Tesoro 2 Go Mart #111** (3679 College Road, Fairbanks, Alaska)

The following table presents the proposed tasks for the Alaska Department of Environmental Conservation (ADEC)-approved 2022 Corrective Action Work Plan. The scope of these tasks is based on the results and findings of the monitoring and remediation completed to date at Speedway Store 5315 (former Tesoro 2 Go Mart #111), ADEC Facility ID #1112; ADEC File #100.26.026.

### 2022 Work Plan Schedule for Speedway Store 5315 (former Tesoro 2Go Mart 111)

- Task 1 –Groundwater Monitoring

Quarterly monitoring of the groundwater wells and annual monitoring of several existing drinking water wells will be conducted. Sampling locations and analyses for the monitoring and drinking water wells are listed on the 2022 Work Plan Schedule below.

Work Plan Tasks for 2022		1 <sup>st</sup> Quarter	2 <sup>nd</sup> Quarter	3 <sup>rd</sup> Quarter	4 <sup>th</sup> Quarter
Task 1	Monitoring Wells: MW-11, MW-12, MW-13, MW-16, MW-10, G-1, G-5, MW 17-1, and MW 17-2	V, G, D, P, I & S		V, G, D, P, I & S	
	Recirculation/Remediation Wells: RM-1 and RM-2	V, G, D, P, I & S	V, G, D, P, I & S	V, G, D, P, I & S	V, G, D, P, I & S
Task 2	O&M Groundwater Recirculation Wells RM-1 & RM-2	✓	✓	✓	✓
Task 3	Chemical Oxidation Treatment	✓	✓	✓	✓
Task 4	Modifications to Groundwater Pump & Treat Recirculation/Distribution System		✓	✓	

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

P – Polynuclear aromatic hydrocarbons (PAHs), i.e., semi-volatile organic compounds associated with petroleum fuel, by EPA Test Method 8270D Selective Ion Monitoring (SIM).

S – Sodium analyzed by Metals (ICP) Method 6010C.

V – Volatile organic compounds by EPA Test Method 8260C.

- Task 2 – O&M Groundwater Recirculation Wells RM-1 & RM-2

Perform quarterly maintenance on the remediation system, which consists of the existing 4-inch diameter well RM-1 and 4-inch diameter well RM-2 groundwater recirculation systems used for treating the vadose zone soil and groundwater beneath the existing USTs and fuel dispenser islands. The in-situ remediation system provides treatment of the contaminated groundwater with the injection of chemical oxidant (see Task 3). The submersible pumps for the two treatment systems will run continuously (24-hours per day). The pumping system will be monitored daily for electrical usage, water pressure and water line temperature with iMonnit® wireless sensors and the equipment checked monthly with maintenance provided on an as needed basis.

- Task 3 – Chemical Oxidation Treatment

Stantec proposes to provide chemical oxidation treatment of the petroleum contaminated soil and groundwater four times a year into the three existing horizontal injection lines located beneath the fuel dispenser islands and the two injection lines located on the east side of the USTs. The injection of chemox will occur in all quarters of the year. A total of five hundred (500) gallons of a prepared solution of the chemical oxidant Klozur One® (a chemical mixture consisting primarily of sodium persulfate) will be injected into the five existing horizontal injection lines with a dose of 100 gallons per injection well. The chemox mixture for each well will consist of 110 pounds Klozur One® mixed with approximately 100 gallons of water pumped from RM-2 well.

The horizontal injection well located along the northeast edge of the USTs will receive an additional 200 gallons of water pumped from RM-2 well to provide a “hydraulic push” to distribute the chemox solution into the surrounding formation. The other four injection lines are continuously dosed with recirculated groundwater discharged from remediation/recirculation wells RM-1 & RM-2.

The on-site monitoring wells will be sampled semi-annually as outlined in Task 1 to assess treatment impact on the groundwater table. The remediation/recirculation wells will be sampled on a quarterly basis. In addition, the groundwater monitoring wells will be sampled for sodium to check on the distribution/migration of the chemical oxidant.

Task 4 – Modifications to Groundwater Pump & Treat Recirculation/Distribution System

The purpose of this task is to make modifications to improve the operation and distribution of the existing ground water pump and treat system. Two modifications described below will be made to the underground plumbing system that receives and distributes the discharge of the groundwater from remediation wells RM-1 and RM-2.

1. The first modification will consist of a water line connection to the existing 4 inch diameter well that is used for the chemox injection into the horizontal injection line located along the northeast edge of the underground storage tank shown in the attached layout of the remediation system figure (Figure 3). This plumbing connection should provide additional distribution during the recirculation of groundwater across the northeast portion of the site.
2. The second modification will consist of assessing the condition of the existing air sparge line that is connected to the former AS Well #14 shown on Figure 2. If the air

sparge line is found to be functional then it will be connected to the existing plumbing system that receives the discharge of flow from the remediation well RM-2. The AS well will be decommissioned and replaced with a shallow (15-foot deep) 4-inch diameter screened well for the injection of chemox and recirculation of groundwater discharged from RM-2.

A detailed work plan for the implementation of the above tasks will be prepared by Stantec during the first quarter of 2022. The work plan will be submitted to the ADEC for approval prior to the execution of work on this task.

The Corrective Action Work Plan for the year 2022 will be implemented by Stantec on behalf of Speedway. 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<sup>®</sup> 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.

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## **APPENDIX C**

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### *Field Measurements and Notes*

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Speedway 5315 (TNS

Date: 05/17/2022, 2:14 PMName(s): Remi MalenfantSite Name: 111)

Location ID	GPS Latitude (decimal)	GPS Longitude (decimal)
G1		
<b>Field Data</b>		
Sampler Names:	Sheen/Odor?: No	
pH: 6.8	Specific Conductance: 1820	
DO: 4.98	Temperature (C): 4.6	
ORP: -60	Purge Volume (gal): 12.5	
Notes:		

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Speedway 5315 (TNS

 Date: 05/17/2022, 9:20 AM

 Name(s): Remi Malenfant

 Site Name: 111)

Location ID	GPS Latitude (decimal)	GPS Longitude (decimal)
G5		
<b>Field Data</b>		
Sampler Names: G, r		Sheen/ Odor?: No
pH: 6.77		Specific Conductance: 1099
DO: 2.56		Temperature (C): 4.2
ORP: -73		Purge Volume (gal): 3
Notes: Used about 500 ml of hot store drinking water for thawing. Transparent light orange water. SC slightly low in confidence solution, might have been diluted by DI rinse.		



Speedway 5315 (TNS

 Date: 05/17/2022, 2:39 PM

 Name(s): Remi Malenfant

 Site Name: 111)

Location ID	GPS Latitude (decimal)	GPS Longitude (decimal)
MW17-1		
<b>Field Data</b>		
Sampler Names:	Sheen/Odor?: No	
pH: 6.88	Specific Conductance: 1108	
DO: 2.26	Temperature (C): 5.09	
ORP: -89.5	Purge Volume (gal): 3	
Notes:		

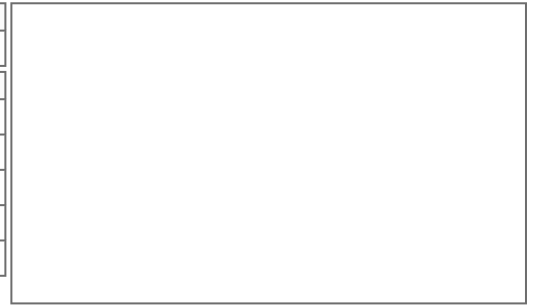
Speedway 5315 (TNS

Date: 05/17/2022, 10:53 AM

Name(s): Remi Malenfant

Site Name: 111)

Location ID	GPS Latitude (decimal)	GPS Longitude (decimal)
MW17-2	64.855557	-147.8124507
<b>Field Data</b>		
Sampler Names:	Sheen/Odor?: Light odor	
pH: 6.87	Specific Conductance: 1087	
DO: 4.01	Temperature (C): 4.15	
ORP: -68.6	Purge Volume (gal): 3.5	
Notes: Gray- brown, translucent		



**Speedway 5315 (TNS**
**Date: 05/17/2022, 10:08 AM**
**Name(s): Remi Malenfant**
**Site Name: 111)**

Location ID	GPS Latitude (decimal)	GPS Longitude (decimal)
MW-10		
<b>Field Data</b>		
Sampler Names: Remi, Geoff		Sheen/Odor?: Both, light Sheen
pH: 6.84		Specific Conductance: 1004
DO: 3.15		Temperature (C): 6.84
ORP: -36.6		Purge Volume (gal): 11
Notes: Transparent light Orange		

Speedway 5315 (TNS

Date: 05/17/2022, 10:20 AM

Name(s): Remi Malenfant

Site Name: 111)

Location ID	GPS Latitude (decimal)	GPS Longitude (decimal)
MW-11		
<b>Field Data</b>		
Sampler Names:	Sheen/Odor?: Odor	
pH: 6.9	Specific Conductance: 970	
DO: 3.15	Temperature (C): 3.31	
ORP: -79.1	Purge Volume (gal): 6	
Notes:		



Speedway 5315 (TNS

Date: 05/17/2022, 3:00 PM

Name(s): Remi Malenfant

Site Name: 111)

Location ID	GPS Latitude (decimal)	GPS Longitude (decimal)
MW-12		
<b>Field Data</b>		
Sampler Names: Geoff, Remi		Sheen/Odor?: No
pH: 6.74		Specific Conductance: 1094
DO: 12.2		Temperature (C): 4.55
ORP: 132.1		Purge Volume (gal): 7.2
Notes:		

**Speedway 5315 (TNS**
**Date: 05/17/2022**
**Name(s):** \_\_\_\_\_

**Site Name: 111)** \_\_\_\_\_

Location ID	GPS Latitude (decimal)	GPS Longitude (decimal)
MW-13		
<b>Field Data</b>		
Sampler Names:	Sheen/Odor?:	
pH:	Specific Conductance:	
DO:	Temperature (C):	
ORP:	Purge Volume (gal):	
Notes:		

Speedway 5315 (TNS  
 Site Name: 111)

Date: 05/18/2022, 8:10 AM

Name(s): Remi Malenfant

Location ID	GPS Latitude (decimal)	GPS Longitude (decimal)
MW-16		
<b>Field Data</b>		
Sampler Names: Geoff, Remi		Sheen/Odor?: No
pH: 6.69		Specific Conductance: 1098
DO: 7.61		Temperature (C): 4.85
ORP: 32		Purge Volume (gal): 13.5
Notes:		

Speedway 5315 (TNS

Date: 05/17/2022

Name(s): \_\_\_\_\_

Site Name: 111)

Location ID	GPS Latitude (decimal)	GPS Longitude (decimal)
RM-1		
<b>Field Data</b>		
Sampler Names:	Sheen/Odor?:	
pH:	Specific Conductance:	
DO:	Temperature (C):	
ORP:	Purge Volume (gal):	
Notes:		

Speedway 5315 (TNS

Date: 05/18/2022, 8:10 AM

Name(s): Remi Malenfant

Site Name: 111)

Location ID	GPS Latitude (decimal)	GPS Longitude (decimal)
RM-2		
<b>Field Data</b>		
Sampler Names:	Sheen/Odor?: Eggs	
pH: 6.82	Specific Conductance: 715	
DO: 1.84	Temperature (C): 11.52	
ORP: -84.3	Purge Volume (gal): None	
Notes: Pumped for two hours prior to sampling, iron in water		

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## **APPENDIX D**

### *Tables of Historical Monitoring Data*

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# Analytical Data Results Table

Speedway 5315 (TNS 111)  
 Speedway - Anne Duarte  
 3679 College Rd  
 Fairbanks, Alaska 99709

	Well Screen Interval	Ground Water Elevator.	Sodium	Naphthalene	Ethylbenzene	135-TMB	124-TMB	Xylenes	GRO	Benzene	DRO	Toluene
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				<u>0.0017</u>	<u>0.015</u>	<u>0.12</u>	<u>0.015</u>	<u>0.19</u>	<u>2.2</u>	<u>0.0046</u>	<u>1.5</u>	<u>1.1</u>
<b>G1</b>												
02/26/1992	--	--	--	--	--	--	--	--	--	--	--	--
06/04/1992	--	--	--	--	--	--	--	--	--	--	--	--
11/30/1992	--	--	--	--	--	--	--	--	--	--	--	--
02/24/1993	--	--	--	--	--	--	--	--	--	--	--	--
08/18/1993	--	--	--	--	--	--	--	--	--	--	--	--
11/23/1993	--	--	--	--	--	--	--	--	--	--	--	--
03/10/1994	--	--	--	--	--	--	--	--	--	--	--	--
06/01/1994	--	--	--	--	--	--	--	--	--	--	--	--
09/08/1994	--	--	--	--	--	--	--	--	--	--	--	--
09/09/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/12/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/14/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/20/1995	--	414.48	--	--	<u>0.56</u>	--	--	<u>2.53</u>	--	<u>1.54</u>	--	<u>1.26</u>
05/16/1996	--	415.71	--	--	<u>1.8</u>	--	--	<u>8.2</u>	--	<u>5.9</u>	--	<u>3.9</u>
08/15/1996	--	--	--	--	--	--	--	--	--	--	--	--
12/09/1996	--	--	--	--	<u>0.73</u>	--	--	<u>3.1</u>	--	<u>2.1</u>	--	<u>2.1</u>
03/20/1997	--	--	--	--	<u>0.81</u>	--	--	<u>4.3</u>	--	<u>2.1</u>	--	<u>2.5</u>
08/15/1997	--	--	--	--	--	--	--	--	--	--	--	--
11/18/1997	--	415.22	--	--	<u>1.89</u>	--	--	<u>8</u>	--	<u>4.91</u>	--	<u>4.21</u>
05/01/1998	--	--	--	--	<u>2.18</u>	--	--	<u>10.13</u>	<u>60</u>	<u>4.83</u>	<u>5.03</u>	<u>6.67</u>
10/14/1998	--	416.35	--	--	<u>1.8</u>	--	--	<u>7.47</u>	<u>43</u>	<u>5.04</u>	<u>4.37</u>	<u>3.81</u>
04/01/1999	--	--	--	--	--	--	--	--	--	--	--	--
05/27/1999	--	415.3	--	--	<u>1.94</u>	--	--	<u>8.89</u>	<u>43</u>	<u>4.34</u>	<u>5.46</u>	<u>5.02</u>
11/05/1999	--	415.48	--	--	<u>1.01</u>	--	--	<u>3.89</u>	<u>23</u>	<u>2.59</u>	<u>3.16</u>	<u>1.74</u>
04/17/2000	--	414.06	--	--	<u>1.64</u>	--	--	<u>7.14</u>	<u>46</u>	<u>3.12</u>	<u>5.9</u>	<u>3.77</u>
10/26/2000	--	417.48	--	--	<u>1.15</u>	--	--	<u>3.39</u>	<u>23</u>	<u>3.04</u>	<u>2.19</u>	0.596
05/30/2001	--	413.6	--	--	<u>0.727</u>	--	--	<u>1.87</u>	<u>17</u>	<u>1.59</u>	<u>2.61</u>	0.158
12/13/2001	--	--	--	--	--	--	--	--	--	--	--	--
05/01/2002	--	414.52	--	--	<u>0.683</u>	--	--	<u>1.51</u>	<u>8.6</u>	<u>1.3</u>	<u>1.84</u>	0.0371
08/19/2002	--	417.79	--	--	<u>0.774</u>	--	--	<u>1.465</u>	<u>13.5</u>	<u>0.89</u>	1.41	0.0588
11/05/2002	--	417.06	--	--	0.00845	--	--	0.0666	0.787	<u>0.0616</u>	U (0.5)	U (0.002)
03/19/2003	--	416.18	--	--	U (0.002)	--	--	0.00242	U (0.09)	<u>0.00765</u>	0.509	U (0.002)
08/05/2003	--	418.33	--	--	<u>0.101</u>	--	--	0.062	1.3	<u>0.11</u>	U (0.32)	0.00209
11/07/2003	--	--	--	--	--	--	--	--	--	--	--	--
03/08/2004	--	414.92	--	--	U (0.0005)	--	--	U (0.001)	U (0.05)	<u>0.00979</u>	U (0.37)	U (0.0005)
09/15/2004	--	416.65	--	--	U (0.0005)	--	--	U (0.0015)	U (0.05)	0.00206	U (0.385)	U (0.0005)
01/10/2005	--	414.58	--	--	0.000623	--	--	U (0.0015)	0.134	<u>0.0327</u>	U (0.388)	U (0.0005)
07/15/2005	--	417.94	--	--	<u>0.0445</u>	--	--	0.00354	0.426	<u>0.0626</u>	U (0.391)	U (0.0005)
02/16/2006	--	414.54	--	--	U (0.0005)	--	--	U (0.0015)	U (0.05)	0.00406	U (0.397)	U (0.0005)

## Analytical Data Results Table

Speedway 5315 (TNS 111)  
 Speedway - Anne Duarte  
 3679 College Rd  
 Fairbanks, Alaska 99709

		Well Screen Interval	Ground Water Elevator.	Sodium	Naphthalene	Ethylbenzene	135-TMB	124-TMB	Xylenes	GRO	Benzene	DRO	Toluene
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				<u>0.0017</u>	<u>0.015</u>	<u>0.12</u>	<u>0.015</u>	<u>0.19</u>	<u>2.2</u>	<u>0.0046</u>	<u>1.5</u>	<u>1.1</u>	
07/27/2006	--	417.37	—	—	0.0104	—	—	0.00217	0.163	<u>0.0222</u>	U (0.397)	—	0.000805
03/02/2007	--	414.59	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	0.00159	U (0.424)	—	U (0.0005)
10/17/2007	--	416.88	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	U (0.0005)	U (0.403)	—	U (0.0005)
06/05/2008	--	415.81	—	—	U (0.0005)	—	—	0.00379	0.082	<u>0.00614</u>	0.877	—	U (0.0005)
09/29/2008	--	417.21	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	U (0.0005)	U (0.435)	—	U (0.0005)
02/25/2009	--	414.48	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	U (0.0005)	U (0.417)	—	U (0.0005)
07/21/2009	--	416.75	—	—	U (0.001)	—	—	0.00363	0.0954	<u>0.00601</u>	U (0.397)	—	U (0.001)
03/17/2010	--	414.03	—	—	U (0.001)	—	—	U (0.002)	U (0.05)	U (0.001)	U (0.431)	—	U (0.001)
09/15/2010	--	416.56	—	—	0.00926	—	—	0.0619	0.15	U (0.0005)	U (0.385)	—	U (0.0005)
03/22/2011	--	413.97	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	U (0.0005)	0.657	—	U (0.0005)
09/01/2011	--	417.44	—	—	U (0.0005)	—	—	U (0.0015)	0.0719	0.0029	U (0.410)	—	0.000601
03/13/2012	--	414.37	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	U (0.0005)	U (0.446)	—	U (0.0005)
07/23/2012	--	417.01	—	—	U (0.0010)	—	—	U (0.0030)	0.263	<u>0.0134</u>	U (0.397)	—	U (0.0010)
09/28/2012	--	--	—	—	—	—	—	—	—	—	—	—	—
10/10/2012	--	--	—	—	—	—	—	—	—	—	—	—	—
02/21/2013	--	414.26	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	U (0.0005)	U (0.431)	—	U (0.0005)
08/13/2013	--	416.5	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	<u>0.00621</u>	U (0.413)	—	0.000688
09/24/2013	--	--	—	—	—	—	—	—	—	—	—	—	—
11/19/2013	--	--	—	—	—	—	—	—	—	—	—	—	—
03/18/2014	--	414.38	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	U (0.0005)	U (0.403)	—	U (0.0005)
03/19/2014	--	--	—	—	—	—	—	—	—	—	—	—	—
07/31/2014	--	419.66	—	—	0.0022	—	—	U (0.001)	0.056	0.0026	0.67	—	U (0.001)
03/03/2015	--	415.09	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	U (0.0005)	U (0.45)	—	U (0.0005)
07/27/2015	--	416.21	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	U (0.00054)	0.25	—	U (0.0005)
02/23/2016	--	415.25	—	—	U (0.001)	—	—	U (0.001)	U (0.05)	U (0.001)	U (0.11)	—	U (0.001)
10/06/2016	--	418.73	—	—	U (0.001)	—	—	U (0.001)	U (0.05)	U (0.001)	0.24	—	U (0.001)
03/16/2017	--	414.96	—	—	U (0.003)	—	—	U (0.002)	U (0.05)	<u>0.0058</u>	0.6	—	U (0.002)
07/07/2017	--	--	—	—	—	—	—	—	—	—	—	—	—
09/06/2017	--	--	—	—	—	—	—	—	—	—	—	—	—
03/29/2018	--	414.63	—	—	U (0.003)	—	—	U (0.002)	U (1)	0.0041	0.76	—	U (0.002)
09/07/2018	--	418.62	—	—	U (0.001)	—	—	U (0.002)	U (0.15)	0.0024	0.28	—	U (0.001)
03/12/2019	--	415.23	—	—	U (0.003)	—	—	U (0.003)	<u>9.4</u>	U (0.003)	0.33	—	U (0.002)
03/13/2019	--	--	—	—	—	—	—	—	—	—	—	—	—
03/14/2019	--	--	—	—	—	—	—	—	—	—	—	—	—
07/29/2019	--	416.29	—	—	U (0.003)	—	—	U (0.003)	U (0.25)	U (0.003)	0.3	—	U (0.002)
07/30/2019	--	--	—	—	—	—	—	—	—	—	—	—	—
08/29/2019	--	--	—	—	—	—	—	—	—	—	—	—	—
10/24/2019	--	--	—	—	—	—	—	—	—	—	—	—	—
08/03/2020	--	419.66	—	—	U (0.001)	—	—	U (0.003)	0.0109	0.000817	U (0.800)	—	U (0.001)
08/04/2020	--	--	—	—	—	—	—	—	—	—	—	—	—
10/14/2020	--	418.84	—	—	0.000186	—	—	0.000653	U (0.10)	<u>0.0134</u>	0.362	—	0.000615



## Analytical Data Results Table

Speedway 5315 (TNS 111)  
 Speedway - Anne Duarte  
 3679 College Rd  
 Fairbanks, Alaska 99709

	Well Screen Interval	Ground Water Elevation	Sodium	Naphthalene	Ethylbenzene	135-TMB	124-TMB	Xylenes	GRO	Benzene	DRO	Toluene
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				<u>0.0017</u>	<u>0.015</u>	<u>0.12</u>	<u>0.015</u>	<u>0.19</u>	<u>2.2</u>	<u>0.0046</u>	<u>1.5</u>	<u>1.1</u>
10/15/2020	--	--	--	--	--	--	--	--	--	--	--	--
03/30/2021	--	415.54	--	--	U (0.001)	--	--	U (0.003)	0.0194 BJ	0.00141	0.256	U (0.001)
07/22/2021	--	--	--	--	<u>0.608</u>	--	--	<u>3.43</u>	<u>10.2</u>	U (0.0200)	<u>2.78</u>	0.124
10/12/2021	--	417.96	--	--	U (0.001)	--	--	0.000267 J	0.0427	0.00102	0.704 J	U (0.001)
05/17/2022	--	418.0	78.1	<u>0.00173</u>	0.00293	0.00192	0.00106	0.00109	0.0829	0.00242	0.586	U(0.00100)
<b>G2</b>												
02/26/1992	--	--	--	--	--	--	--	--	--	--	--	--
06/04/1992	--	--	--	--	--	--	--	--	--	--	--	--
11/30/1992	--	--	--	--	--	--	--	--	--	--	--	--
02/24/1993	--	--	--	--	--	--	--	--	--	--	--	--
08/18/1993	--	--	--	--	--	--	--	--	--	--	--	--
11/23/1993	--	--	--	--	--	--	--	--	--	--	--	--
03/10/1994	--	--	--	--	--	--	--	--	--	--	--	--
06/01/1994	--	--	--	--	--	--	--	--	--	--	--	--
09/08/1994	--	--	--	--	--	--	--	--	--	--	--	--
09/09/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/12/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/14/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/20/1995	--	414.49	--	--	U	--	--	U	--	<u>0.069</u>	--	U
05/16/1996	--	415.74	--	--	U	--	--	U	--	<u>0.2</u>	--	U
08/15/1996	--	416.57	--	--	U	--	--	U	--	<u>0.32</u>	--	U
12/09/1996	--	415.42	--	--	U	--	--	U	--	<u>0.14</u>	--	U
03/20/1997	--	414.4	--	--	U	--	--	U	--	0.002	--	U
08/15/1997	--	415.88	--	--	U	--	--	U	0.077	<u>0.0253</u>	--	U
11/18/1997	--	415.2	--	--	U	--	--	0.00169	U	U	--	U
05/01/1998	--	414.35	--	--	U	--	--	0.00139	U	<u>0.00523</u>	0.221	U
10/14/1998	--	416.55	--	--	U	--	--	0.00135	0.076	<u>0.0318</u>	0.248	U
04/01/1999	--	--	--	--	--	--	--	--	--	--	--	--
05/27/1999	--	415.27	--	--	U	--	--	0.00326	U	U	0.345	0.00624
11/05/1999	--	415.47	--	--	U	--	--	U	0.13	<u>0.0514</u>	U	U
04/17/2000	--	414.12	--	--	U	--	--	U	U	<u>0.00749</u>	U	U
10/26/2000	--	417.44	--	--	U	--	--	0.00759	U	<u>0.0051</u>	U	0.0032
05/30/2001	--	413.58	--	--	U	--	--	U	U	U	U	U
12/13/2001	--	413.04	--	--	U	--	--	U	U	U	U	U
05/01/2002	--	414.52	--	--	U	--	--	U	U	U	U	U
08/19/2002	--	417.79	--	--	U (0.002)	--	--	U (0.002)	U (0.09)	0.000596	U (0.505)	U (0.002)
11/05/2002	--	416.99	--	--	U (0.002)	--	--	U (0.002)	U (0.09)	U (0.0005)	U (0.5)	U (0.002)
03/19/2003	--	--	--	--	--	--	--	--	--	--	--	--
08/05/2003	--	--	--	--	--	--	--	--	--	--	--	--
11/07/2003	--	--	--	--	--	--	--	--	--	--	--	--

## Analytical Data Results Table

Speedway 5315 (TNS 111)  
 Speedway - Anne Duarte  
 3679 College Rd  
 Fairbanks, Alaska 99709

	<i>Well Screen Interval</i>	<i>Ground Water Elevation</i>	<i>Sodium</i>	<i>Naphthalene</i>	<i>Ethylbenzene</i>	<i>135-TMB</i>	<i>124-TMB</i>	<i>Xylenes</i>	<i>GRO</i>	<i>Benzene</i>	<i>DRO</i>	<i>Toluene</i>
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				<u>0.0017</u>	<u>0.015</u>	<u>0.12</u>	<u>0.015</u>	<u>0.19</u>	<u>2.2</u>	<u>0.0046</u>	<u>1.5</u>	<u>1.1</u>
03/08/2004	--	--	--	--	--	--	--	--	--	--	--	--
09/15/2004	--	--	--	--	--	--	--	--	--	--	--	--
01/10/2005	--	--	--	--	--	--	--	--	--	--	--	--
07/15/2005	--	--	--	--	--	--	--	--	--	--	--	--
02/16/2006	--	--	--	--	--	--	--	--	--	--	--	--
07/27/2006	--	--	--	--	--	--	--	--	--	--	--	--
03/02/2007	--	--	--	--	--	--	--	--	--	--	--	--
10/17/2007	--	--	--	--	--	--	--	--	--	--	--	--
06/05/2008	--	--	--	--	--	--	--	--	--	--	--	--
09/29/2008	--	--	--	--	--	--	--	--	--	--	--	--
02/25/2009	--	--	--	--	--	--	--	--	--	--	--	--
07/21/2009	--	--	--	--	--	--	--	--	--	--	--	--
03/17/2010	--	--	--	--	--	--	--	--	--	--	--	--
09/15/2010	--	--	--	--	--	--	--	--	--	--	--	--
03/22/2011	--	--	--	--	--	--	--	--	--	--	--	--
09/01/2011	--	--	--	--	--	--	--	--	--	--	--	--
03/13/2012	--	--	--	--	--	--	--	--	--	--	--	--
07/23/2012	--	--	--	--	--	--	--	--	--	--	--	--
09/28/2012	--	--	--	--	--	--	--	--	--	--	--	--
10/10/2012	--	--	--	--	--	--	--	--	--	--	--	--
02/21/2013	--	--	--	--	--	--	--	--	--	--	--	--
08/13/2013	--	--	--	--	--	--	--	--	--	--	--	--
09/24/2013	--	--	--	--	--	--	--	--	--	--	--	--
11/19/2013	--	--	--	--	--	--	--	--	--	--	--	--
03/18/2014	--	--	--	--	--	--	--	--	--	--	--	--
03/19/2014	--	--	--	--	--	--	--	--	--	--	--	--
07/31/2014	--	--	--	--	--	--	--	--	--	--	--	--
03/03/2015	--	--	--	--	--	--	--	--	--	--	--	--
07/27/2015	--	--	--	--	--	--	--	--	--	--	--	--
02/23/2016	--	--	--	--	--	--	--	--	--	--	--	--
10/06/2016	--	--	--	--	--	--	--	--	--	--	--	--
03/16/2017	--	--	--	--	--	--	--	--	--	--	--	--
07/07/2017	--	--	--	--	--	--	--	--	--	--	--	--
09/06/2017	--	--	--	--	--	--	--	--	--	--	--	--
03/29/2018	--	--	--	--	--	--	--	--	--	--	--	--
09/07/2018	--	--	--	--	--	--	--	--	--	--	--	--
03/12/2019	--	--	--	--	--	--	--	--	--	--	--	--
03/13/2019	--	--	--	--	--	--	--	--	--	--	--	--
03/14/2019	--	--	--	--	--	--	--	--	--	--	--	--
07/29/2019	--	--	--	--	--	--	--	--	--	--	--	--
07/30/2019	--	--	--	--	--	--	--	--	--	--	--	--

## Analytical Data Results Table

Speedway 5315 (TNS 111)  
 Speedway - Anne Duarte  
 3679 College Rd  
 Fairbanks, Alaska 99709

	Well Screen Interval	Ground Water Elevation	Sodium	Naphthalene	Ethylbenzene	135-TMB	124-TMB	Xylenes	GRO	Benzene	DRO	Toluene
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				0.0017	0.015	0.12	0.015	0.19	2.2	0.0046	1.5	1.1
08/29/2019	--	--	--	--	--	--	--	--	--	--	--	--
10/24/2019	--	--	--	--	--	--	--	--	--	--	--	--
08/03/2020	--	--	--	--	--	--	--	--	--	--	--	--
08/04/2020	--	--	--	--	--	--	--	--	--	--	--	--
10/14/2020	--	--	--	--	--	--	--	--	--	--	--	--
10/15/2020	--	--	--	--	--	--	--	--	--	--	--	--
03/30/2021	--	--	--	--	--	--	--	--	--	--	--	--
07/22/2021	--	--	--	0.728	--	--	2.27	8.01	0.0763	2.14	0.145	--
10/12/2021	--	--	--	--	--	--	--	--	--	--	--	--
05/17/2022	--	--	--	--	--	--	--	--	--	--	--	--
<b>G5</b>												
02/26/1992	--	--	--	--	--	--	--	--	--	--	--	--
06/04/1992	--	--	--	--	--	--	--	--	--	--	--	--
11/30/1992	--	--	--	--	--	--	--	--	--	--	--	--
02/24/1993	--	--	--	--	--	--	--	--	--	--	--	--
08/18/1993	--	--	--	--	--	--	--	--	--	--	--	--
11/23/1993	--	--	--	--	--	--	--	--	--	--	--	--
03/10/1994	--	--	--	--	--	--	--	--	--	--	--	--
06/01/1994	--	--	--	--	--	--	--	--	--	--	--	--
09/08/1994	--	--	--	--	--	--	--	--	--	--	--	--
09/09/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/12/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/14/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/20/1995	--	--	--	--	--	--	--	--	--	--	--	--
05/16/1996	--	--	--	--	--	--	--	--	--	--	--	--
08/15/1996	--	--	--	--	--	--	--	--	--	--	--	--
12/09/1996	--	--	--	--	--	--	--	--	--	--	--	--
03/20/1997	--	--	--	--	--	--	--	--	--	--	--	--
08/15/1997	--	--	--	--	--	--	--	--	--	--	--	--
11/18/1997	--	--	--	--	--	--	--	--	--	--	--	--
05/01/1998	--	--	--	--	--	--	--	--	--	--	--	--
10/14/1998	--	--	--	--	--	--	--	--	--	--	--	--
04/01/1999	--	--	--	--	--	--	--	--	--	--	--	--
05/27/1999	--	--	--	--	--	--	--	--	--	--	--	--
11/05/1999	--	--	--	--	--	--	--	--	--	--	--	--
04/17/2000	--	--	--	--	--	--	--	--	--	--	--	--
10/26/2000	--	--	--	--	--	--	--	--	--	--	--	--
05/30/2001	--	412.59	--	--	2.1	--	--	9.9	107	12.4	6.47	11.5
12/13/2001	--	413.22	--	--	1.71	--	--	12.74	72.8	6.21	3.05	8.71
05/01/2002	--	414.55	--	--	1.95	--	--	15.1	83.4	11.9	6.75	7.7

# Analytical Data Results Table

Speedway 5315 (TNS 111)  
 Speedway - Anne Duarte  
 3679 College Rd  
 Fairbanks, Alaska 99709

	Well Screen Interval	Ground Water Elevati.	Sodium	Naphthalene	Ethylbenzene	135-TMB	124-TMB	Xylenes	GRO	Benzene	DRO	Toluene
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				<u>0.0017</u>	<u>0.015</u>	<u>0.12</u>	<u>0.015</u>	<u>0.19</u>	<u>2.2</u>	<u>0.0046</u>	<u>1.5</u>	<u>1.1</u>
08/19/2002	--	417.8	—	—	—	—	—	<u>8.53</u>	<u>86.6</u>	<u>12.9</u>	<u>7.85</u>	<u>7.31</u>
11/05/2002	--	417.05	—	—	—	—	—	<u>6.7</u>	<u>41.9</u>	<u>5.7</u>	<u>7.17</u>	<u>4.37</u>
03/19/2003	--	416.19	—	—	—	—	—	<u>5.25</u>	<u>30</u>	<u>2.46</u>	<u>7.55</u>	<u>1.75</u>
08/05/2003	--	418.76	—	—	—	—	—	<u>6.41</u>	<u>47.5</u>	<u>5.07</u>	<u>5.78</u>	<u>2.99</u>
11/07/2003	--	--	—	—	—	—	—	—	—	—	—	—
03/08/2004	--	414.93	—	—	0.00104	—	—	0.0327	0.126	0.00254	<u>3.45</u>	0.00495
09/15/2004	--	416.64	—	—	0.000506	—	—	0.00467	0.061	<u>0.00577</u>	<u>1.84</u>	0.00126
01/10/2005	--	414.8	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	U (0.0005)	1.22	U (0.0005)
07/15/2005	--	417.83	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	U (0.0005)	1.19	U (0.0005)
02/16/2006	--	414.48	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	U (0.0005)	1.08	U (0.0005)
07/27/2006	--	417.09	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	U (0.0005)	0.865	U (0.0005)
03/02/2007	--	414.24	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	U (0.0005)	1.03	U (0.0005)
10/17/2007	--	416.22	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	0.000837	<u>3.44</u>	U (0.0005)
06/05/2008	--	415.73	—	—	0.00452	—	—	0.0316	0.112	U (0.0005)	1.1	U (0.0005)
09/29/2008	--	417.2	—	—	0.00458	—	—	0.0103	0.0794	U (0.0005)	<u>1.66</u>	U (0.0005)
02/25/2009	--	414.45	—	—	<u>0.0579</u>	—	—	0.174	<u>2.53</u>	0.00068	1.3	0.00053
07/21/2009	--	416.73	—	—	U (0.001)	—	—	U (0.003)	U (0.05)	0.0018	1.27	U (0.0010)
03/17/2010	--	413.98	—	—	<u>0.19</u>	—	—	<u>0.37</u>	<u>4.4</u>	<u>0.013</u>	0.961	0.0014
09/15/2010	--	416.59	—	—	0.00279	—	—	0.0149	0.287	<u>0.0849</u>	1.1	0.000886
03/22/2011	--	413.96	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	U (0.0005)	1.04	U (0.0005)
09/01/2011	--	417.44	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	0.00331	0.898	U (0.0005)
03/13/2012	--	414.37	—	—	<u>0.113</u>	—	—	<u>0.23</u>	<u>3.63</u>	<u>0.0307</u>	1.02	0.00346
07/23/2012	--	416.9	—	—	U (0.0010)	—	—	U (0.0030)	U (0.05)	0.00199	0.571	U (0.0010)
09/28/2012	--	--	—	—	—	—	—	—	—	—	—	—
10/10/2012	--	--	—	—	—	—	—	—	—	—	—	—
02/21/2013	--	--	—	—	—	—	—	—	—	—	—	—
08/13/2013	--	416.5	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	U (0.0005)	0.884	U (0.0005)
09/24/2013	--	--	—	—	—	—	—	—	—	—	—	—
11/19/2013	--	--	—	—	—	—	—	—	—	—	—	—
03/18/2014	--	414.36	—	—	<u>0.0739</u>	—	—	0.161	<u>2.44</u>	<u>0.025</u>	0.778	0.00612
03/19/2014	--	--	—	—	—	—	—	—	—	—	—	—
07/31/2014	--	419.24	—	—	<u>0.071</u>	—	—	<u>0.21</u>	2.2	<u>0.49</u>	1.4	0.0064
03/03/2015	--	414.58	—	—	U (0.0005)	—	—	0.0015	U (0.05)	U (0.0005)	0.43	U (0.0005)
07/27/2015	--	416.18	—	—	<u>0.59</u>	—	—	<u>1.1</u>	<u>10</u>	<u>0.92</u>	1.4	0.57
02/23/2016	--	415.19	—	—	U (0.001)	—	—	U (0.001)	U (0.05)	U (0.001)	0.21	U (0.001)
10/06/2016	--	418.75	—	—	U (0.001)	—	—	U (0.001)	U (0.05)	U (0.001)	0.95	U (0.001)
03/16/2017	--	414.93	—	—	<u>0.56</u>	—	—	<u>1.91</u>	<u>7.9</u>	<u>0.27</u>	1.3	0.36
07/07/2017	--	416.96	—	—	—	—	—	—	—	—	—	—
09/06/2017	--	--	—	—	—	—	—	—	—	—	—	—
03/29/2018	--	414.68	—	—	<u>0.72</u>	—	—	<u>2.27</u>	<u>14</u>	<u>0.38</u>	<u>1.6</u>	0.3
09/07/2018	--	418.68	—	—	<u>0.51</u>	—	—	<u>1.92</u>	<u>7.4</u>	<u>0.61</u>	<u>2.4</u>	0.91

## Analytical Data Results Table

Speedway 5315 (TNS 111)  
 Speedway - Anne Duarte  
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	<i>Well Screen Interval</i>	<i>Ground Water Elevation</i>	<i>Sodium</i>	<i>Naphthalene</i>	<i>Ethylbenzene</i>	<i>135-TMB</i>	<i>124-TMB</i>	<i>Xylenes</i>	<i>GRO</i>	<i>Benzene</i>	<i>DRO</i>	<i>Toluene</i>
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				<u>0.0017</u>	<u>0.015</u>	<u>0.12</u>	<u>0.015</u>	<u>0.19</u>	<u>2.2</u>	<u>0.0046</u>	<u>1.5</u>	<u>1.1</u>
03/12/2019	--	--	--	--	--	--	--	--	--	--	--	--
03/13/2019	--	415.24	--	--	<u>0.39</u>	--	--	<u>1.05</u>	<u>5.8</u>	<u>0.11</u>	1.2	0.011
03/14/2019	--	--	--	--	--	--	--	--	--	--	--	--
07/29/2019	--	--	--	--	--	--	--	--	--	--	--	--
07/30/2019	--	416.31	--	--	<u>0.18</u>	--	--	<u>0.71</u>	<u>2.9</u>	U (0.15)	1.2	U (0.1)
08/29/2019	--	--	--	--	--	--	--	--	--	--	--	--
10/24/2019	--	--	--	--	--	--	--	--	--	--	--	--
08/03/2020	--	--	--	--	--	--	--	--	--	--	--	--
08/04/2020	--	419.57	--	--	<u>0.123</u>	--	--	0.124	0.712	<u>0.114</u>	1.07	0.000683
10/14/2020	--	418.67	--	--	0.0148	--	--	0.079	0.251	0.0016	<u>2.16</u>	0.00513
10/15/2020	--	--	--	--	--	--	--	--	--	--	--	--
03/30/2021	--	--	--	--	--	--	--	--	--	--	--	--
07/22/2021	--	--	--	--	--	--	--	--	--	--	--	--
10/12/2021	--	419.21	--	--	<u>0.0661</u>	--	--	0.0928	0.909	<u>0.00607</u>	1.42	0.000300 J
05/17/2022	--	417.95	66.8	<u>0.0397</u>	<u>0.315</u>	0.00399	<u>0.0681</u>	<u>0.258</u>	1.45	<u>0.0462</u>	1.46	0.178
<b>MW17-1</b>												
02/26/1992	--	--	--	--	--	--	--	--	--	--	--	--
06/04/1992	--	--	--	--	--	--	--	--	--	--	--	--
11/30/1992	--	--	--	--	--	--	--	--	--	--	--	--
02/24/1993	--	--	--	--	--	--	--	--	--	--	--	--
08/18/1993	--	--	--	--	--	--	--	--	--	--	--	--
11/23/1993	--	--	--	--	--	--	--	--	--	--	--	--
03/10/1994	--	--	--	--	--	--	--	--	--	--	--	--
06/01/1994	--	--	--	--	--	--	--	--	--	--	--	--
09/08/1994	--	--	--	--	--	--	--	--	--	--	--	--
09/09/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/12/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/14/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/20/1995	--	--	--	--	--	--	--	--	--	--	--	--
05/16/1996	--	--	--	--	--	--	--	--	--	--	--	--
08/15/1996	--	--	--	--	--	--	--	--	--	--	--	--
12/09/1996	--	--	--	--	--	--	--	--	--	--	--	--
03/20/1997	--	--	--	--	--	--	--	--	--	--	--	--
08/15/1997	--	--	--	--	--	--	--	--	--	--	--	--
11/18/1997	--	--	--	--	--	--	--	--	--	--	--	--
05/01/1998	--	--	--	--	--	--	--	--	--	--	--	--
10/14/1998	--	--	--	--	--	--	--	--	--	--	--	--
04/01/1999	--	--	--	--	--	--	--	--	--	--	--	--
05/27/1999	--	--	--	--	--	--	--	--	--	--	--	--
11/05/1999	--	--	--	--	--	--	--	--	--	--	--	--

## Analytical Data Results Table

Speedway 5315 (TNS 111)  
 Speedway - Anne Duarte  
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	<i>Well Screen Interval</i>	<i>Ground Water Elevation</i>	<i>Sodium</i>	<i>Naphthalene</i>	<i>Ethylbenzene</i>	<i>135-TMB</i>	<i>124-TMB</i>	<i>Xylenes</i>	<i>GRO</i>	<i>Benzene</i>	<i>DRO</i>	<i>Toluene</i>
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				0.0017	0.015	0.12	0.015	0.19	2.2	0.0046	1.5	1.1
04/17/2000	--	--	--	--	--	--	--	--	--	--	--	--
10/26/2000	--	--	--	--	--	--	--	--	--	--	--	--
05/30/2001	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2001	--	--	--	--	--	--	--	--	--	--	--	--
05/01/2002	--	--	--	--	--	--	--	--	--	--	--	--
08/19/2002	--	--	--	--	--	--	--	--	--	--	--	--
11/05/2002	--	--	--	--	--	--	--	--	--	--	--	--
03/19/2003	--	--	--	--	--	--	--	--	--	--	--	--
08/05/2003	--	--	--	--	--	--	--	--	--	--	--	--
11/07/2003	--	--	--	--	--	--	--	--	--	--	--	--
03/08/2004	--	--	--	--	--	--	--	--	--	--	--	--
09/15/2004	--	--	--	--	--	--	--	--	--	--	--	--
01/10/2005	--	--	--	--	--	--	--	--	--	--	--	--
07/15/2005	--	--	--	--	--	--	--	--	--	--	--	--
02/16/2006	--	--	--	--	--	--	--	--	--	--	--	--
07/27/2006	--	--	--	--	--	--	--	--	--	--	--	--
03/02/2007	--	--	--	--	--	--	--	--	--	--	--	--
10/17/2007	--	--	--	--	--	--	--	--	--	--	--	--
06/05/2008	--	--	--	--	--	--	--	--	--	--	--	--
09/29/2008	--	--	--	--	--	--	--	--	--	--	--	--
02/25/2009	--	--	--	--	--	--	--	--	--	--	--	--
07/21/2009	--	--	--	--	--	--	--	--	--	--	--	--
03/17/2010	--	--	--	--	--	--	--	--	--	--	--	--
09/15/2010	--	--	--	--	--	--	--	--	--	--	--	--
03/22/2011	--	--	--	--	--	--	--	--	--	--	--	--
09/01/2011	--	--	--	--	--	--	--	--	--	--	--	--
03/13/2012	--	--	--	--	--	--	--	--	--	--	--	--
07/23/2012	--	--	--	--	--	--	--	--	--	--	--	--
09/28/2012	--	--	--	--	--	--	--	--	--	--	--	--
10/10/2012	--	--	--	--	--	--	--	--	--	--	--	--
02/21/2013	--	--	--	--	--	--	--	--	--	--	--	--
08/13/2013	--	--	--	--	--	--	--	--	--	--	--	--
09/24/2013	--	--	--	--	--	--	--	--	--	--	--	--
11/19/2013	--	--	--	--	--	--	--	--	--	--	--	--
03/18/2014	--	--	--	--	--	--	--	--	--	--	--	--
03/19/2014	--	--	--	--	--	--	--	--	--	--	--	--
07/31/2014	--	--	--	--	--	--	--	--	--	--	--	--
03/03/2015	--	--	--	--	--	--	--	--	--	--	--	--
07/27/2015	--	--	--	--	--	--	--	--	--	--	--	--
02/23/2016	--	--	--	--	--	--	--	--	--	--	--	--
10/06/2016	--	--	--	--	--	--	--	--	--	--	--	--

## Analytical Data Results Table

Speedway 5315 (TNS 111)  
 Speedway - Anne Duarte  
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	Well Screen Interval	Ground Water Elevati.	Sodium	Naphthalene	Ethylbenzene	135-TMB	124-TMB	Xylenes	GRO	Benzene	DRO	Toluene
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				<u>0.0017</u>	<u>0.015</u>	<u>0.12</u>	<u>0.015</u>	<u>0.19</u>	<u>2.2</u>	<u>0.0046</u>	<u>1.5</u>	<u>1.1</u>
03/16/2017	--	--	--	--	--	--	--	--	--	--	--	--
07/07/2017	--	--	--	--	--	--	--	--	--	--	--	--
09/06/2017	--	--	--	--	--	--	--	--	--	--	--	--
03/29/2018	--	--	--	--	<u>1.2</u>	--	--	<u>8.5</u>	U (100)	<u>2.9</u>	<u>6</u>	<u>6.6</u>
09/07/2018	--	--	--	--	<u>3.3</u>	--	--	<u>18</u>	<u>80</u>	<u>0.18</u>	<u>4.8</u>	<u>26</u>
03/12/2019	--	--	--	--	--	--	--	--	--	--	--	--
03/13/2019	--	--	--	--	--	--	--	--	--	--	--	--
03/14/2019	--	415.28	--	--	<u>1.7</u>	--	--	<u>7.4</u>	<u>47</u>	<u>3</u>	<u>3.3</u>	<u>7.4</u>
07/29/2019	--	--	--	--	--	--	--	--	--	--	--	--
07/30/2019	--	416.35	--	--	<u>3.4</u>	--	--	<u>14.9</u>	<u>88</u>	<u>0.36</u>	<u>3.9</u>	<u>9.2</u>
08/29/2019	--	--	--	--	--	--	--	--	--	--	--	--
10/24/2019	--	--	--	--	--	--	--	--	--	--	--	--
08/03/2020	--	--	--	--	--	--	--	--	--	--	--	--
08/04/2020	--	419.63	--	--	<u>3.47</u>	--	--	<u>13.8</u>	<u>61.1</u>	<u>0.126</u>	<u>2.78</u>	<u>22.5</u>
10/14/2020	--	--	--	--	--	--	--	--	--	--	--	--
10/15/2020	--	418.92	--	--	<u>0.305</u>	--	--	<u>2.1</u>	<u>5.9</u>	0.0231 J	<u>4.03</u>	0.254 J
03/30/2021	--	415.86	--	--	<u>0.0401</u>	--	--	0.178	<u>2.59</u>	0.000535 J	<u>2.66</u>	U (0.001)
07/22/2021	--	--	--	--	--	--	--	--	--	--	--	--
10/12/2021	--	417.63	--	--	1.03 E	--	--	<u>3.69</u>	<u>30.9</u>	1.61 Q	<u>3.68</u>	5.27 Q
05/17/2022	--	417.95	60.3	<u>0.241</u>	<u>3.03</u>	<u>0.315</u>	<u>1.53</u>	<u>9.48</u>	<u>30.8</u>	<u>0.582</u>	<u>7.43</u>	<u>1.63</u>
<b>MW17-2</b>												
02/26/1992	--	--	--	--	--	--	--	--	--	--	--	--
06/04/1992	--	--	--	--	--	--	--	--	--	--	--	--
11/30/1992	--	--	--	--	--	--	--	--	--	--	--	--
02/24/1993	--	--	--	--	--	--	--	--	--	--	--	--
08/18/1993	--	--	--	--	--	--	--	--	--	--	--	--
11/23/1993	--	--	--	--	--	--	--	--	--	--	--	--
03/10/1994	--	--	--	--	--	--	--	--	--	--	--	--
06/01/1994	--	--	--	--	--	--	--	--	--	--	--	--
09/08/1994	--	--	--	--	--	--	--	--	--	--	--	--
09/09/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/12/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/14/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/20/1995	--	--	--	--	--	--	--	--	--	--	--	--
05/16/1996	--	--	--	--	--	--	--	--	--	--	--	--
08/15/1996	--	--	--	--	--	--	--	--	--	--	--	--
12/09/1996	--	--	--	--	--	--	--	--	--	--	--	--
03/20/1997	--	--	--	--	--	--	--	--	--	--	--	--
08/15/1997	--	--	--	--	--	--	--	--	--	--	--	--
11/18/1997	--	--	--	--	--	--	--	--	--	--	--	--

## Analytical Data Results Table

Speedway 5315 (TNS 111)  
 Speedway - Anne Duarte  
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Unit	Well Screen Interval	Ground Water Elevation	Sodium	Naphthalene	Ethylbenzene	135-TMB	124-TMB	Xylenes	GRO	Benzene	DRO	Toluene
	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				0.0017	0.015	0.12	0.015	0.19	2.2	0.0046	1.5	1.1
05/01/1998	--	--	--	--	--	--	--	--	--	--	--	--
10/14/1998	--	--	--	--	--	--	--	--	--	--	--	--
04/01/1999	--	--	--	--	--	--	--	--	--	--	--	--
05/27/1999	--	--	--	--	--	--	--	--	--	--	--	--
11/05/1999	--	--	--	--	--	--	--	--	--	--	--	--
04/17/2000	--	--	--	--	--	--	--	--	--	--	--	--
10/26/2000	--	--	--	--	--	--	--	--	--	--	--	--
05/30/2001	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2001	--	--	--	--	--	--	--	--	--	--	--	--
05/01/2002	--	--	--	--	--	--	--	--	--	--	--	--
08/19/2002	--	--	--	--	--	--	--	--	--	--	--	--
11/05/2002	--	--	--	--	--	--	--	--	--	--	--	--
03/19/2003	--	--	--	--	--	--	--	--	--	--	--	--
08/05/2003	--	--	--	--	--	--	--	--	--	--	--	--
11/07/2003	--	--	--	--	--	--	--	--	--	--	--	--
03/08/2004	--	--	--	--	--	--	--	--	--	--	--	--
09/15/2004	--	--	--	--	--	--	--	--	--	--	--	--
01/10/2005	--	--	--	--	--	--	--	--	--	--	--	--
07/15/2005	--	--	--	--	--	--	--	--	--	--	--	--
02/16/2006	--	--	--	--	--	--	--	--	--	--	--	--
07/27/2006	--	--	--	--	--	--	--	--	--	--	--	--
03/02/2007	--	--	--	--	--	--	--	--	--	--	--	--
10/17/2007	--	--	--	--	--	--	--	--	--	--	--	--
06/05/2008	--	--	--	--	--	--	--	--	--	--	--	--
09/29/2008	--	--	--	--	--	--	--	--	--	--	--	--
02/25/2009	--	--	--	--	--	--	--	--	--	--	--	--
07/21/2009	--	--	--	--	--	--	--	--	--	--	--	--
03/17/2010	--	--	--	--	--	--	--	--	--	--	--	--
09/15/2010	--	--	--	--	--	--	--	--	--	--	--	--
03/22/2011	--	--	--	--	--	--	--	--	--	--	--	--
09/01/2011	--	--	--	--	--	--	--	--	--	--	--	--
03/13/2012	--	--	--	--	--	--	--	--	--	--	--	--
07/23/2012	--	--	--	--	--	--	--	--	--	--	--	--
09/28/2012	--	--	--	--	--	--	--	--	--	--	--	--
10/10/2012	--	--	--	--	--	--	--	--	--	--	--	--
02/21/2013	--	--	--	--	--	--	--	--	--	--	--	--
08/13/2013	--	--	--	--	--	--	--	--	--	--	--	--
09/24/2013	--	--	--	--	--	--	--	--	--	--	--	--
11/19/2013	--	--	--	--	--	--	--	--	--	--	--	--
03/18/2014	--	--	--	--	--	--	--	--	--	--	--	--
03/19/2014	--	--	--	--	--	--	--	--	--	--	--	--



## Analytical Data Results Table

Speedway 5315 (TNS 111)  
 Speedway - Anne Duarte  
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	Well Screen Interval	Ground Water Elevation	Sodium	Naphthalene	Ethylbenzene	135-TMB	124-TMB	Xylenes	GRO	Benzene	DRO	Toluene
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				<u>0.0017</u>	<u>0.015</u>	<u>0.12</u>	<u>0.015</u>	<u>0.19</u>	<u>2.2</u>	<u>0.0046</u>	<u>1.5</u>	<u>1.1</u>
07/31/2014	--	--	--	--	--	--	--	--	--	--	--	--
03/03/2015	--	--	--	--	--	--	--	--	--	--	--	--
07/27/2015	--	--	--	--	--	--	--	--	--	--	--	--
02/23/2016	--	--	--	--	--	--	--	--	--	--	--	--
10/06/2016	--	--	--	--	--	--	--	--	--	--	--	--
03/16/2017	--	--	--	--	--	--	--	--	--	--	--	--
07/07/2017	--	--	--	--	--	--	--	--	--	--	--	--
09/06/2017	--	--	--	--	--	--	--	--	--	--	--	--
03/29/2018	--	--	--	U (0.30)	--	--	--	<u>2.11</u>	<u>22</u>	U (0.30)	<u>12</u>	<u>2.7</u>
09/07/2018	--	--	--	<u>0.66</u>	--	--	--	<u>4.5</u>	<u>17</u>	<u>0.18</u>	<u>15</u>	<u>3.2</u>
03/12/2019	--	--	--	--	--	--	--	--	--	--	--	--
03/13/2019	--	--	--	--	--	--	--	--	--	--	--	--
03/14/2019	--	415.28	--	<u>0.094</u>	--	--	--	<u>1.49</u>	<u>4.2</u>	<u>0.047</u>	<u>10</u>	0.94
07/29/2019	--	416.35	--	<u>0.5</u>	--	--	--	<u>3.9</u>	<u>16</u>	U (0.15)	<u>8.5</u>	<u>1.8</u>
07/30/2019	--	--	--	--	--	--	--	--	--	--	--	--
08/29/2019	--	--	--	--	--	--	--	--	--	--	--	--
10/24/2019	--	--	--	--	--	--	--	--	--	--	--	--
08/03/2020	--	--	--	--	--	--	--	--	--	--	--	--
08/04/2020	--	419.67	--	<u>0.236</u>	--	--	--	<u>415</u>	<u>5.03</u>	<u>0.0505</u>	<u>20.5</u>	0.477
10/14/2020	--	--	--	--	--	--	--	--	--	--	--	--
10/15/2020	--	418.62	--	<u>0.0508</u>	--	--	--	<u>0.218</u>	0.601	0.00395 J	<u>8.25</u>	0.0235
03/30/2021	--	415.35	--	0.0132	--	--	--	0.0264	0.309	0.000952 J	<u>7.78</u>	U (0.001)
07/22/2021	--	--	--	--	--	--	--	--	--	--	--	--
10/12/2021	--	418.57	--	0.00324 J	--	--	--	0.0107 J	0.0560 B,J	0.00157 J	<u>3.22</u>	0.0059
05/17/2022	--	418.02	70.9	<u>0.0269</u>	<u>0.618</u>	0.0679	<u>0.241</u>	<u>1.5</u>	<u>4.5</u>	0.00325	<u>7.44</u>	0.00417
<b>MW-10</b>												
02/26/1992	--	--	--	--	--	--	--	--	--	--	--	--
06/04/1992	--	--	--	--	--	--	--	--	--	--	--	--
11/30/1992	--	--	--	--	--	--	--	--	--	--	--	--
02/24/1993	--	--	--	--	--	--	--	--	--	--	--	--
08/18/1993	--	--	--	--	--	--	--	--	--	--	--	--
11/23/1993	--	--	--	--	--	--	--	--	--	--	--	--
03/10/1994	--	418.07	--	<u>2.3</u>	--	--	--	<u>19</u>	--	<u>19</u>	--	<u>24</u>
06/01/1994	--	--	--	--	--	--	--	--	--	--	--	--
09/08/1994	--	--	--	--	--	--	--	--	--	--	--	--
09/09/1994	--	419.89	--	<u>0.9</u>	--	--	--	<u>14.9</u>	--	<u>15.2</u>	--	<u>18</u>
12/12/1994	--	418.1	--	<u>2.1</u>	--	--	--	<u>15.5</u>	--	<u>16.7</u>	--	<u>20</u>
12/14/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/20/1995	--	--	--	--	--	--	--	--	--	--	--	--
05/16/1996	--	--	--	--	--	--	--	--	--	--	--	--

## Analytical Data Results Table

Speedway 5315 (TNS 111)  
 Speedway - Anne Duarte  
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	Well Screen Interval	Ground Water Elevation	Sodium	Naphthalene	Ethylbenzene	135-TMB	124-TMB	Xylenes	GRO	Benzene	DRO	Toluene
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				<u>0.0017</u>	<u>0.015</u>	<u>0.12</u>	<u>0.015</u>	<u>0.19</u>	<u>2.2</u>	<u>0.0046</u>	<u>1.5</u>	<u>1.1</u>
08/15/1996	--	--	--	--	--	--	--	--	--	--	--	--
12/09/1996	--	--	--	--	--	--	--	--	--	--	--	--
03/20/1997	--	--	--	--	--	--	--	--	--	--	--	--
08/15/1997	--	415.92	--	--	<u>1.16</u>	--	--	<u>9.35</u>	<u>77</u>	<u>8.3</u>	--	<u>14.4</u>
11/18/1997	--	--	--	--	--	--	--	--	--	--	--	--
05/01/1998	--	--	--	--	--	--	--	--	--	--	--	--
10/14/1998	--	--	--	--	--	--	--	--	--	--	--	--
04/01/1999	--	--	--	--	--	--	--	--	--	--	--	--
05/27/1999	--	415.09	--	--	<u>1.35</u>	--	--	<u>7.17</u>	<u>64</u>	<u>6.88</u>	<u>12.8</u>	<u>13.4</u>
11/05/1999	--	--	--	--	--	--	--	--	--	--	--	--
04/17/2000	--	413.89	--	--	<u>0.887</u>	--	--	<u>3.47</u>	<u>35</u>	<u>1.86</u>	<u>5.84</u>	<u>7.06</u>
10/26/2000	--	417.44	--	--	<u>0.914</u>	--	--	<u>5.53</u>	<u>39.7</u>	<u>1.88</u>	<u>9.04</u>	<u>7.2</u>
05/30/2001	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2001	--	413.14	--	--	<u>1.59</u>	--	--	<u>7.73</u>	<u>53.8</u>	<u>2.7</u>	<u>10.1</u>	<u>9.6</u>
05/01/2002	--	414.55	--	--	0.0137	--	--	0.117	1.1	<u>0.0122</u>	<u>1.96</u>	0.0074
08/19/2002	--	417.86	--	--	<u>0.664</u>	--	--	<u>3.512</u>	<u>27.5</u>	<u>1.92</u>	<u>15.9</u>	<u>3.55</u>
11/05/2002	--	417.06	--	--	<u>0.0368</u>	--	--	0.1189	1.7	<u>0.0456</u>	<u>6.78</u>	0.00533
03/19/2003	--	416.21	--	--	<u>0.319</u>	--	--	<u>1.404</u>	<u>8.8</u>	<u>0.477</u>	<u>12.9</u>	0.313
08/05/2003	--	418.43	--	--	<u>0.876</u>	--	--	<u>7.09</u>	<u>61.8</u>	<u>2.54</u>	<u>17.6</u>	<u>8.79</u>
11/07/2003	--	--	--	--	--	--	--	--	--	--	--	--
03/08/2004	--	414.92	--	--	U (0.025)	--	--	<u>2.89</u>	<u>12.8</u>	<u>0.198</u>	<u>10.3</u>	0.912
09/15/2004	--	416.64	--	--	<u>0.0497</u>	--	--	<u>0.446</u>	2.06	<u>0.0802</u>	<u>6.01</u>	0.00234
01/10/2005	--	414.8	--	--	--	--	--	--	--	--	--	--
07/15/2005	--	417.82	--	--	<u>0.513</u>	--	--	<u>3.63</u>	<u>25.6</u>	<u>0.416</u>	<u>14.9</u>	<u>3.37</u>
02/16/2006	--	--	--	--	--	--	--	--	--	--	--	--
07/27/2006	--	417.06	--	--	<u>0.714</u>	--	--	<u>4.88</u>	<u>32.5</u>	<u>0.413</u>	<u>16.3</u>	<u>5.3</u>
03/02/2007	--	414.23	--	--	<u>0.545</u>	--	--	<u>3.9</u>	<u>32.8</u>	<u>0.203</u>	<u>8.8</u>	<u>2.33</u>
10/17/2007	--	416.47	--	--	0.0105	--	--	0.0406	1.15	0.00324	<u>6.43</u>	0.00102
06/05/2008	--	415.69	--	--	<u>1.18</u>	--	--	<u>8.14</u>	<u>38.4</u>	<u>0.23</u>	<u>10.2</u>	<u>2.9</u>
09/29/2008	--	417.2	--	--	0.012	--	--	0.0777	1.18	0.00139	<u>3.67</u>	0.00403
02/25/2009	--	--	--	--	<u>1.18</u>	--	--	<u>8.89</u>	<u>43.4</u>	<u>0.0778</u>	<u>30.3</u>	<u>2.7</u>
07/21/2009	--	416.71	--	--	<u>1.26</u>	--	--	<u>12.2</u>	<u>47.3</u>	<u>0.014</u>	<u>11.8</u>	<u>1.77</u>
03/17/2010	--	413.98	--	--	<u>1.2</u>	--	--	<u>9.5</u>	<u>92</u>	0.0027	<u>16.2</u>	<u>1.5</u>
09/15/2010	--	416.6	--	--	<u>0.776</u>	--	--	<u>4.06</u>	<u>16.2</u>	<u>0.00635</u>	<u>21.3</u>	0.0902
03/22/2011	--	414.01	--	--	<u>0.678</u>	--	--	<u>3.15</u>	<u>16</u>	0.00425	<u>17.4</u>	0.0195
09/01/2011	--	417.49	--	--	<u>0.498</u>	--	--	<u>3</u>	<u>22.5</u>	<u>0.00673</u>	<u>30.5</u>	0.0908
03/13/2012	--	414.42	--	--	<u>0.118</u>	--	--	<u>0.679</u>	<u>4.24</u>	U (0.010)	<u>10.3</u>	U (0.010)
07/23/2012	--	416.97	--	--	0.00161	--	--	U (0.0030)	0.32	0.00226	<u>2.57</u>	0.0012
09/28/2012	--	--	--	--	--	--	--	--	--	--	--	--
10/10/2012	--	--	--	--	--	--	--	--	--	--	--	--
02/21/2013	--	414.24	--	--	0.00702	--	--	0.166	<u>2.69</u>	0.000877	<u>4.55</u>	0.00156

## Analytical Data Results Table

Speedway 5315 (TNS 111)  
 Speedway - Anne Duarte  
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	Well Screen Interval	Ground Water Elevator.	Sodium	Naphthalene	Ethylbenzene	135-TMB	124-TMB	Xylenes	GRO	Benzene	DRO	Toluene
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				<u>0.0017</u>	<u>0.015</u>	<u>0.12</u>	<u>0.015</u>	<u>0.19</u>	<u>2.2</u>	<u>0.0046</u>	<u>1.5</u>	<u>1.1</u>
08/13/2013	--	416.54	--	--	<u>0.0216</u>	--	--	0.0755	1.59	0.00245	<u>10.3</u>	0.00455
09/24/2013	--	--	--	--	--	--	--	--	--	--	--	--
11/19/2013	--	--	--	--	--	--	--	--	--	--	--	--
03/18/2014	--	--	--	--	--	--	--	--	--	--	--	--
03/19/2014	--	414.3	--	--	0.0145	--	--	0.119	1.98	0.000642	<u>7.82</u>	0.00404
07/31/2014	--	419.65	--	--	<u>0.047</u>	--	--	<u>1.2</u>	<u>5</u>	<u>0.011</u>	<u>10</u>	0.0024
03/03/2015	--	414.98	--	--	0.002	--	--	0.0063	0.23	0.00067	<u>3.2</u>	U (0.0005)
07/27/2015	--	416.16	--	--	0.0037	--	--	0.011	0.65	0.0012	<u>4</u>	0.002
02/23/2016	--	415.2	--	--	U (0.001)	--	--	U (0.001)	U (0.05)	U (0.001)	<u>2.7</u>	U (0.001)
10/06/2016	--	418.72	--	--	U (0.001)	--	--	U (0.001)	U (0.05)	U (0.001)	<u>2.3</u>	U (0.001)
03/16/2017	--	414.92	--	--	<u>0.16</u>	--	--	<u>0.489</u>	<u>3.7</u>	<u>0.011</u>	<u>6.7</u>	0.0027
07/07/2017	--	--	--	--	--	--	--	--	--	--	--	--
09/06/2017	--	--	--	--	--	--	--	--	--	--	--	--
03/29/2018	--	414.6	--	--	<u>0.35</u>	--	--	<u>1.3</u>	<u>9.6</u>	<u>0.022</u>	<u>13</u>	0.01
09/07/2018	--	418.69	--	--	<u>0.27</u>	--	--	<u>1.283</u>	<u>5.2</u>	<u>0.027</u>	<u>13</u>	0.0052
03/12/2019	--	--	--	--	--	--	--	--	--	--	--	--
03/13/2019	--	415.23	--	--	<u>0.21</u>	--	--	<u>0.726</u>	<u>3.5</u>	<u>0.016</u>	<u>8</u>	U (0.002)
03/14/2019	--	--	--	--	--	--	--	--	--	--	--	--
07/29/2019	--	416.33	--	--	<u>0.2</u>	--	--	<u>0.82</u>	<u>5.6</u>	U (0.15)	<u>13</u>	U (0.1)
07/30/2019	--	--	--	--	--	--	--	--	--	--	--	--
08/29/2019	--	--	--	--	--	--	--	--	--	--	--	--
10/24/2019	--	--	--	--	--	--	--	--	--	--	--	--
08/03/2020	--	--	--	--	--	--	--	--	--	--	--	--
08/04/2020	--	419.74	--	--	<u>0.597</u>	--	--	<u>1.89</u>	<u>4.2</u>	<u>0.0577</u>	<u>1.9</u>	0.142
10/14/2020	--	--	--	--	--	--	--	--	--	--	--	--
10/15/2020	--	418.63	--	--	<u>0.0649</u>	--	--	<u>0.198</u>	1.12	<u>0.00506</u>	<u>1.74</u>	0.0387
03/30/2021	--	--	--	--	--	--	--	--	--	--	--	--
07/22/2021	--	--	--	--	--	--	--	--	--	--	--	--
10/12/2021	--	417.98	--	--	0.00142 J	--	--	0.00214 J	0.280 B,J	0.000209 J,Q	<u>2.43</u>	U (0.005)
05/17/2022	--	418.01	68.8	<u>0.00286</u>	<u>0.0318</u>	0.0185	<u>0.0694</u>	0.0913	0.858	0.00147	<u>3.65</u>	0.003
<b>MW-11</b>												
02/26/1992	--	--	--	--	--	--	--	--	--	--	--	--
06/04/1992	--	--	--	--	--	--	--	--	--	--	--	--
11/30/1992	--	--	--	--	--	--	--	--	--	--	--	--
02/24/1993	--	--	--	--	--	--	--	--	--	--	--	--
08/18/1993	--	--	--	--	--	--	--	--	--	--	--	--
11/23/1993	--	--	--	--	--	--	--	--	--	--	--	--
03/10/1994	--	--	--	--	--	--	--	--	--	--	--	--
06/01/1994	--	--	--	--	--	--	--	--	--	--	--	--
09/08/1994	--	--	--	--	--	--	--	--	--	--	--	--

## Analytical Data Results Table

Speedway 5315 (TNS 111)  
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	<i>Well Screen Interval</i>	<i>Ground Water Elevation</i>	<i>Sodium</i>	<i>Naphthalene</i>	<i>Ethylbenzene</i>	<i>135-TMB</i>	<i>124-TMB</i>	<i>Xylenes</i>	<i>GRO</i>	<i>Benzene</i>	<i>DRO</i>	<i>Toluene</i>
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				0.0017	0.015	0.12	0.015	0.19	2.2	0.0046	1.5	1.1
09/09/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/12/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/14/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/20/1995	--	--	--	--	--	--	--	--	--	--	--	--
05/16/1996	--	--	--	--	--	--	--	--	--	--	--	--
08/15/1996	--	--	--	--	--	--	--	--	--	--	--	--
12/09/1996	--	--	--	--	--	--	--	--	--	--	--	--
03/20/1997	--	--	--	--	--	--	--	--	--	--	--	--
08/15/1997	--	--	--	--	--	--	--	--	--	--	--	--
11/18/1997	--	--	--	--	--	--	--	--	--	--	--	--
05/01/1998	--	--	--	--	--	--	--	--	--	--	--	--
10/14/1998	--	--	--	--	--	--	--	--	--	--	--	--
04/01/1999	--	--	--	--	--	--	--	--	--	--	--	--
05/27/1999	--	--	--	--	--	--	--	--	--	--	--	--
11/05/1999	--	--	--	--	--	--	--	--	--	--	--	--
04/17/2000	--	--	--	--	--	--	--	--	--	--	--	--
10/26/2000	--	--	--	--	--	--	--	--	--	--	--	--
05/30/2001	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2001	--	--	--	--	--	--	--	--	--	--	--	--
05/01/2002	--	--	--	--	--	--	--	--	--	--	--	--
08/19/2002	--	--	--	--	--	--	--	--	--	--	--	--
11/05/2002	--	--	--	--	--	--	--	--	--	--	--	--
03/19/2003	--	--	--	--	--	--	--	--	--	--	--	--
08/05/2003	--	--	--	--	--	--	--	--	--	--	--	--
11/07/2003	--	--	--	--	--	--	--	--	--	--	--	--
03/08/2004	--	--	--	--	--	--	--	--	--	--	--	--
09/15/2004	--	--	--	--	--	--	--	--	--	--	--	--
01/10/2005	--	--	--	--	--	--	--	--	--	--	--	--
07/15/2005	--	--	--	--	--	--	--	--	--	--	--	--
02/16/2006	--	--	--	--	--	--	--	--	--	--	--	--
07/27/2006	--	--	--	--	--	--	--	--	--	--	--	--
03/02/2007	--	--	--	--	--	--	--	--	--	--	--	--
10/17/2007	--	--	--	--	--	--	--	--	--	--	--	--
06/05/2008	--	--	--	--	--	--	--	--	--	--	--	--
09/29/2008	--	--	--	--	--	--	--	--	--	--	--	--
02/25/2009	--	--	--	--	--	--	--	--	--	--	--	--
07/21/2009	--	--	--	--	--	--	--	--	--	--	--	--
03/17/2010	--	--	--	--	--	--	--	--	--	--	--	--
09/15/2010	--	--	--	--	--	--	--	--	--	--	--	--
03/22/2011	--	--	--	--	--	--	--	--	--	--	--	--
09/01/2011	--	--	--	--	--	--	--	--	--	--	--	--

## Analytical Data Results Table

Speedway 5315 (TNS 111)  
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	Well Screen Interval	Ground Water Elevatio.	Sodium	Naphthalene	Ethylbenzene	135-TMB	124-TMB	Xylenes	GRO	Benzene	DRO	Toluene
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				<u>0.0017</u>	<u>0.015</u>	<u>0.12</u>	<u>0.015</u>	<u>0.19</u>	<u>2.2</u>	<u>0.0046</u>	<u>1.5</u>	<u>1.1</u>
03/13/2012	--	--										
07/23/2012	--	--										
09/28/2012	--	416.27			<u>0.873</u>			<u>5.52</u>	<u>40.3</u>	<u>0.235</u>	<u>19.4</u>	0.594
10/10/2012	--	--										
02/21/2013	--	414.26			<u>1.61</u>			<u>7.2</u>	<u>41.1</u>	<u>0.0177</u>	<u>5.72</u>	0.00707
08/13/2013	--	416.53			<u>0.6</u>			<u>1.15</u>	<u>5.45</u>	<u>0.257</u>	<u>7.79</u>	0.0152
09/24/2013	--	--										
11/19/2013	--	--										
03/18/2014	--	--										
03/19/2014	--	414.33			<u>0.915</u>			<u>3.28</u>	<u>22.1</u>	<u>0.0933</u>	<u>14.1</u>	0.0548
07/31/2014	--	419.65			<u>0.51</u>			<u>2</u>	<u>10</u>	<u>0.088</u>	<u>7</u>	0.032
03/03/2015	--	414.99			<u>0.6</u>			<u>2.9</u>	<u>17</u>	<u>0.038</u>	<u>3</u>	0.071
07/27/2015	--	416.2			<u>1.5</u>			<u>6.6</u>	<u>34</u>	<u>0.46</u>	<u>13</u>	0.16
02/23/2016	--	415.22			U (0.001)			0.0025	0.13	U (0.001)	1.2	U (0.001)
10/06/2016	--	418.74			0.0068			0.0025	0.2	U (0.001)	0.77	U (0.001)
03/16/2017	--	414.93			<u>0.89</u>			<u>3.99</u>	<u>14</u>	U (0.2)	<u>6.2</u>	0.48
07/07/2017	--	416.97			<u>0.4</u>			<u>1.76</u>	<u>7.1</u>	<u>0.11</u>	<u>7.4</u>	0.26
09/06/2017	--	--										
03/29/2018	--	414.62			<u>0.92</u>			<u>6.1</u>	U (90)	U (0.15)	<u>8</u>	0.71
09/07/2018	--	418.71			<u>0.57</u>			<u>2.29</u>	<u>7.8</u>	<u>0.068</u>	<u>3.2</u>	0.066
03/12/2019	--	--										
03/13/2019	--	415.23			<u>0.85</u>			<u>5</u>	<u>19</u>	<u>0.1</u>	<u>9.9</u>	0.3
03/14/2019	--	--										
07/29/2019	--	416.28			<u>0.67</u>			<u>4.96</u>	<u>15</u>	U (0.15)	<u>9.8</u>	0.16
07/30/2019	--	--										
08/29/2019	--	--										
10/24/2019	--	--										
08/03/2020	--	--										
08/04/2020	--	419.64			<u>0.434</u>			<u>1.75</u>	<u>5.63</u>	<u>0.057</u>	<u>3.51</u>	0.00403
10/14/2020	--	--										
10/15/2020	--	418.6			0.0106			0.081	0.386 J	0.000929 J	1.06 J	0.00121
03/30/2021	--	--										
07/22/2021	--	--										
10/12/2021	--	417.94			0.492 Q			<u>1.38</u>	<u>5.4</u>	0.00103	<u>1.97</u>	0.000688 J
05/17/2022	--	418.05	72.1	<u>0.161</u>	<u>1.29</u>	<u>0.126</u>	<u>0.531</u>	<u>2.19</u>	<u>6.62</u>	<u>0.00712</u>	<u>3.7</u>	0.00793
<b>MW-12</b>												
02/26/1992	--	--										
06/04/1992	--	--										
11/30/1992	--	--										
02/24/1993	--	--										

## Analytical Data Results Table

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	<i>Well Screen Interval</i>	<i>Ground Water Elevation</i>	<i>Sodium</i>	<i>Naphthalene</i>	<i>Ethylbenzene</i>	<i>135-TMB</i>	<i>124-TMB</i>	<i>Xylenes</i>	<i>GRO</i>	<i>Benzene</i>	<i>DRO</i>	<i>Toluene</i>
<b>Unit</b>	<b>ft</b>	<b>ft</b>	<b>ppm</b>	<b>ppm</b>	<b>ppm</b>	<b>ppm</b>	<b>ppm</b>	<b>ppm</b>	<b>ppm</b>	<b>ppm</b>	<b>ppm</b>	<b>ppm</b>
<b>GW Human Health Cleanup</b>				0.0017	0.015	0.12	0.015	0.19	2.2	0.0046	1.5	1.1
08/18/1993	--	--	--	--	--	--	--	--	--	--	--	--
11/23/1993	--	--	--	--	--	--	--	--	--	--	--	--
03/10/1994	--	--	--	--	--	--	--	--	--	--	--	--
06/01/1994	--	--	--	--	--	--	--	--	--	--	--	--
09/08/1994	--	--	--	--	--	--	--	--	--	--	--	--
09/09/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/12/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/14/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/20/1995	--	--	--	--	--	--	--	--	--	--	--	--
05/16/1996	--	--	--	--	--	--	--	--	--	--	--	--
08/15/1996	--	--	--	--	--	--	--	--	--	--	--	--
12/09/1996	--	--	--	--	--	--	--	--	--	--	--	--
03/20/1997	--	--	--	--	--	--	--	--	--	--	--	--
08/15/1997	--	--	--	--	--	--	--	--	--	--	--	--
11/18/1997	--	--	--	--	--	--	--	--	--	--	--	--
05/01/1998	--	--	--	--	--	--	--	--	--	--	--	--
10/14/1998	--	--	--	--	--	--	--	--	--	--	--	--
04/01/1999	--	--	--	--	--	--	--	--	--	--	--	--
05/27/1999	--	--	--	--	--	--	--	--	--	--	--	--
11/05/1999	--	--	--	--	--	--	--	--	--	--	--	--
04/17/2000	--	--	--	--	--	--	--	--	--	--	--	--
10/26/2000	--	--	--	--	--	--	--	--	--	--	--	--
05/30/2001	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2001	--	--	--	--	--	--	--	--	--	--	--	--
05/01/2002	--	--	--	--	--	--	--	--	--	--	--	--
08/19/2002	--	--	--	--	--	--	--	--	--	--	--	--
11/05/2002	--	--	--	--	--	--	--	--	--	--	--	--
03/19/2003	--	--	--	--	--	--	--	--	--	--	--	--
08/05/2003	--	--	--	--	--	--	--	--	--	--	--	--
11/07/2003	--	--	--	--	--	--	--	--	--	--	--	--
03/08/2004	--	--	--	--	--	--	--	--	--	--	--	--
09/15/2004	--	--	--	--	--	--	--	--	--	--	--	--
01/10/2005	--	--	--	--	--	--	--	--	--	--	--	--
07/15/2005	--	--	--	--	--	--	--	--	--	--	--	--
02/16/2006	--	--	--	--	--	--	--	--	--	--	--	--
07/27/2006	--	--	--	--	--	--	--	--	--	--	--	--
03/02/2007	--	--	--	--	--	--	--	--	--	--	--	--
10/17/2007	--	--	--	--	--	--	--	--	--	--	--	--
06/05/2008	--	--	--	--	--	--	--	--	--	--	--	--
09/29/2008	--	--	--	--	--	--	--	--	--	--	--	--
02/25/2009	--	--	--	--	--	--	--	--	--	--	--	--

## Analytical Data Results Table

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	Well Screen Interval	Ground Water Elevatioi.	Sodium	Naphthalene	Ethylbenzene	135-TMB	124-TMB	Xylenes	GRO	Benzene	DRO	Toluene
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				<u>0.0017</u>	<u>0.015</u>	<u>0.12</u>	<u>0.015</u>	<u>0.19</u>	<u>2.2</u>	<u>0.0046</u>	<u>1.5</u>	<u>1.1</u>
07/21/2009	--	--	--	--	--	--	--	--	--	--	--	--
03/17/2010	--	--	--	--	--	--	--	--	--	--	--	--
09/15/2010	--	--	--	--	--	--	--	--	--	--	--	--
03/22/2011	--	--	--	--	--	--	--	--	--	--	--	--
09/01/2011	--	--	--	--	--	--	--	--	--	--	--	--
03/13/2012	--	--	--	--	--	--	--	--	--	--	--	--
07/23/2012	--	--	--	--	--	--	--	--	--	--	--	--
09/28/2012	--	416.3	--	<u>3.51</u>	--	--	--	<u>19.5</u>	<u>165</u>	0.00438	<u>2.74</u>	<u>13.9</u>
10/10/2012	--	--	--	--	--	--	--	--	--	--	--	--
02/21/2013	--	414.3	--	<u>2.69</u>	--	--	--	<u>12.8</u>	<u>71.1</u>	<u>0.012</u>	<u>3.66</u>	<u>7.69</u>
08/13/2013	--	416.54	--	<u>1</u>	--	--	--	<u>6.21</u>	<u>22.6</u>	<u>0.0334</u>	<u>6.05</u>	<u>7.3</u>
09/24/2013	--	--	--	<u>0.344</u>	--	--	--	<u>1.72</u>	<u>8.35</u>	<u>0.00913</u>	<u>7.11</u>	<u>1.65</u>
11/19/2013	--	415.65	--	<u>0.527</u>	--	--	--	<u>2.19</u>	<u>13.5</u>	<u>0.0117</u>	<u>11.7</u>	<u>1.83</u>
03/18/2014	--	--	--	--	--	--	--	--	--	--	--	--
03/19/2014	--	414.4	--	<u>0.663</u>	--	--	--	<u>5.34</u>	<u>27.9</u>	<u>0.0128</u>	<u>11.4</u>	<u>2.24</u>
07/31/2014	--	419.67	--	0.0027	--	--	0.015	0.18	U (0.0005)	0.5	0.0063	--
03/03/2015	--	416.05	--	<u>0.022</u>	--	--	--	<u>0.24</u>	<u>6.8</u>	U (0.0005)	1.2	0.01
07/27/2015	--	416.21	--	<u>0.026</u>	--	--	0.19	<u>3.2</u>	0.00057	0.99	0.011	--
02/23/2016	--	415.28	--	U (0.001)	U (0.001)	--	U (0.001)	U (0.05)	U (0.001)	0.32	U (0.001)	U (0.001)
10/06/2016	--	418.79	--	U (0.001)	U (0.001)	--	U (0.001)	U (0.05)	U (0.001)	0.39	U (0.001)	U (0.001)
03/16/2017	--	415.0	--	<u>0.3</u>	--	--	--	<u>0.52</u>	<u>3.8</u>	U (0.02)	1.5	U (0.02)
07/07/2017	--	417.04	--	<u>0.13</u>	--	--	--	<u>0.38</u>	<u>2.8</u>	U (0.002)	1.4	U (0.04)
09/06/2017	--	--	--	--	--	--	--	--	--	--	--	--
03/29/2018	--	414.69	--	U (0.003)	U (0.003)	--	U (0.002)	2	U (0.003)	0.58	U (0.002)	U (0.002)
09/07/2018	--	418.78	--	<u>0.019</u>	--	--	0.063	1.1	U (0.0004)	0.56	U (0.001)	U (0.001)
03/12/2019	--	--	--	--	--	--	--	--	--	--	--	--
03/13/2019	--	415.3	--	0.01	--	--	0.055	1.3	U (0.003)	0.78	U (0.002)	U (0.002)
03/14/2019	--	--	--	--	--	--	--	--	--	--	--	--
07/29/2019	--	--	--	--	--	--	--	--	--	--	--	--
07/30/2019	--	416.38	--	U (0.003)	U (0.003)	--	0.0039	0.26	U (0.003)	0.47	U (0.002)	U (0.002)
08/29/2019	--	--	--	--	--	--	--	--	--	--	--	--
10/24/2019	--	--	--	--	--	--	--	--	--	--	--	--
08/03/2020	--	422.58	--	<u>0.0538</u>	--	--	--	<u>0.487</u>	1.23	0.000353	0.852	0.0364
08/04/2020	--	--	--	--	--	--	--	--	--	--	--	--
10/14/2020	--	418.68	--	<u>0.123</u>	--	--	--	<u>0.425</u>	1.08	<u>0.0192</u>	0.658 J	0.000817 J
10/15/2020	--	--	--	--	--	--	--	--	--	--	--	--
03/30/2021	--	415.36	--	<u>0.0221</u>	--	--	0.0676	<u>2.3</u>	0.000395 J	1.26	0.000853 J	0.000853 J
07/22/2021	--	--	--	--	--	--	--	--	--	--	--	--
10/12/2021	--	418.0	--	<u>0.0722</u>	--	--	--	<u>0.5</u>	1.93	0.000217 J	0.989	0.00215
05/17/2022	--	418.03	66.9	0.000545	<u>0.0184</u>	0.025	<u>0.116</u>	0.094	0.547	0.000342	0.745	0.000613

## Analytical Data Results Table

Speedway 5315 (TNS 111)  
 Speedway - Anne Duarte  
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 Fairbanks, Alaska 99709

	<i>Well Screen Interval</i>	<i>Ground Water Elevator.</i>	<i>Sodium</i>	<i>Naphthalene</i>	<i>Ethylbenzene</i>	<i>135-TMB</i>	<i>124-TMB</i>	<i>Xylenes</i>	<i>GRO</i>	<i>Benzene</i>	<i>DRO</i>	<i>Toluene</i>
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				0.0017	0.015	0.12	0.015	0.19	2.2	0.0046	1.5	1.1
<b>MW-13</b>												
02/26/1992	--	--	--	--	--	--	--	--	--	--	--	--
06/04/1992	--	--	--	--	--	--	--	--	--	--	--	--
11/30/1992	--	--	--	--	--	--	--	--	--	--	--	--
02/24/1993	--	--	--	--	--	--	--	--	--	--	--	--
08/18/1993	--	--	--	--	--	--	--	--	--	--	--	--
11/23/1993	--	--	--	--	--	--	--	--	--	--	--	--
03/10/1994	--	--	--	--	--	--	--	--	--	--	--	--
06/01/1994	--	--	--	--	--	--	--	--	--	--	--	--
09/08/1994	--	--	--	--	--	--	--	--	--	--	--	--
09/09/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/12/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/14/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/20/1995	--	--	--	--	--	--	--	--	--	--	--	--
05/16/1996	--	--	--	--	--	--	--	--	--	--	--	--
08/15/1996	--	--	--	--	--	--	--	--	--	--	--	--
12/09/1996	--	--	--	--	--	--	--	--	--	--	--	--
03/20/1997	--	--	--	--	--	--	--	--	--	--	--	--
08/15/1997	--	--	--	--	--	--	--	--	--	--	--	--
11/18/1997	--	--	--	--	--	--	--	--	--	--	--	--
05/01/1998	--	--	--	--	--	--	--	--	--	--	--	--
10/14/1998	--	--	--	--	--	--	--	--	--	--	--	--
04/01/1999	--	--	--	--	--	--	--	--	--	--	--	--
05/27/1999	--	--	--	--	--	--	--	--	--	--	--	--
11/05/1999	--	--	--	--	--	--	--	--	--	--	--	--
04/17/2000	--	--	--	--	--	--	--	--	--	--	--	--
10/26/2000	--	--	--	--	--	--	--	--	--	--	--	--
05/30/2001	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2001	--	--	--	--	--	--	--	--	--	--	--	--
05/01/2002	--	--	--	--	--	--	--	--	--	--	--	--
08/19/2002	--	--	--	--	--	--	--	--	--	--	--	--
11/05/2002	--	--	--	--	--	--	--	--	--	--	--	--
03/19/2003	--	--	--	--	--	--	--	--	--	--	--	--
08/05/2003	--	--	--	--	--	--	--	--	--	--	--	--
11/07/2003	--	--	--	--	--	--	--	--	--	--	--	--
03/08/2004	--	--	--	--	--	--	--	--	--	--	--	--
09/15/2004	--	--	--	--	--	--	--	--	--	--	--	--
01/10/2005	--	--	--	--	--	--	--	--	--	--	--	--
07/15/2005	--	--	--	--	--	--	--	--	--	--	--	--
02/16/2006	--	--	--	--	--	--	--	--	--	--	--	--



## Analytical Data Results Table

Speedway 5315 (TNS 111)  
 Speedway - Anne Duarte  
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	Well Screen Interval	Ground Water Elevatioi.	Sodium	Naphthalene	Ethylbenzene	135-TMB	124-TMB	Xylenes	GRO	Benzene	DRO	Toluene
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				<u>0.0017</u>	<u>0.015</u>	<u>0.12</u>	<u>0.015</u>	<u>0.19</u>	<u>2.2</u>	<u>0.0046</u>	<u>1.5</u>	<u>1.1</u>
07/27/2006	--	--	--	--	--	--	--	--	--	--	--	--
03/02/2007	--	--	--	--	--	--	--	--	--	--	--	--
10/17/2007	--	--	--	--	--	--	--	--	--	--	--	--
06/05/2008	--	--	--	--	--	--	--	--	--	--	--	--
09/29/2008	--	--	--	--	--	--	--	--	--	--	--	--
02/25/2009	--	--	--	--	--	--	--	--	--	--	--	--
07/21/2009	--	--	--	--	--	--	--	--	--	--	--	--
03/17/2010	--	--	--	--	--	--	--	--	--	--	--	--
09/15/2010	--	--	--	--	--	--	--	--	--	--	--	--
03/22/2011	--	--	--	--	--	--	--	--	--	--	--	--
09/01/2011	--	--	--	--	--	--	--	--	--	--	--	--
03/13/2012	--	--	--	--	--	--	--	--	--	--	--	--
07/23/2012	--	--	--	--	--	--	--	--	--	--	--	--
09/28/2012	--	416.31	--	<u>0.0263</u>	--	--	<u>0.609</u>	<u>8.11</u>	U (0.0005)	0.738	0.0316	--
10/10/2012	--	--	--	--	--	--	--	--	--	--	--	--
02/21/2013	--	414.31	--	0.0125	--	--	0.167	0.649	0.0013	<u>1.9</u>	U (0.0005)	--
08/13/2013	--	416.55	--	U (0.0005)	--	--	U (0.0015)	U (0.05)	U (0.0005)	0.839	U (0.0005)	--
09/24/2013	--	--	--	U (0.0005)	--	--	U (0.0015)	U (0.05)	U (0.0005)	0.736	U (0.0005)	--
11/19/2013	--	415.48	--	U (0.0005)	--	--	0.00168	U (0.05)	U (0.0005)	0.478	0.000751	--
03/18/2014	--	414.42	--	U (0.0005)	--	--	0.00208	0.0593	0.000671	1.13	0.000846	--
03/19/2014	--	--	--	--	--	--	--	--	--	--	--	--
07/31/2014	--	419.67	--	U (0.001)	--	--	U (0.001)	U (0.05)	U (0.0005)	U (0.42)	U (0.001)	--
03/03/2015	--	415.04	--	<u>0.028</u>	--	--	0.13	0.82	<u>0.02</u>	0.62	U (0.0005)	--
07/27/2015	--	416.24	--	0.0014	--	--	0.0046	U (0.05)	U (0.0005)	0.58	U (0.0005)	--
02/23/2016	--	415.31	--	0.0096	--	--	0.073	1	U (0.001)	<u>2.3</u>	U (0.001)	--
10/06/2016	--	418.8	--	U (0.001)	--	--	0.0058	U (0.05)	U (0.001)	0.65	U (0.001)	--
03/16/2017	--	415.02	--	U (0.0053)	--	--	0.013	0.15	U (0.002)	0.44	U (0.002)	--
07/07/2017	--	417.06	--	U (0.003)	--	--	U (0.002)	U (1.0)	U (0.002)	0.32	U (0.002)	--
09/06/2017	--	--	--	--	--	--	--	--	--	--	--	--
03/29/2018	--	414.7	--	U (0.003)	--	--	U (0.002)	U (1)	U (0.003)	0.45	U (0.002)	--
09/07/2018	--	418.76	--	U (0.001)	--	--	U (0.002)	U (0.15)	U (0.0004)	0.43	U (0.001)	--
03/12/2019	--	--	--	--	--	--	--	--	--	--	--	--
03/13/2019	--	415.34	--	0.0072	--	--	0.0094	U (1.3)	U (0.003)	0.36	U (0.002)	--
03/14/2019	--	--	--	--	--	--	--	--	--	--	--	--
07/29/2019	--	416.37	--	0.0085	--	--	0.0214	0.45	U (0.003)	1.1	U (0.002)	--
07/30/2019	--	--	--	--	--	--	--	--	--	--	--	--
08/29/2019	--	--	--	--	--	--	--	--	--	--	--	--
10/24/2019	--	--	--	--	--	--	--	--	--	--	--	--
08/03/2020	--	419.57	--	<u>0.0439</u>	--	--	<u>0.454</u>	1.01	0.000323	0.554	0.0351	--
08/04/2020	--	--	--	--	--	--	--	--	--	--	--	--
10/14/2020	--	418.67	--	<u>0.155</u>	--	--	<u>0.63</u>	1.86	<u>0.018</u>	1.3	0.0108	--

## Analytical Data Results Table

Speedway 5315 (TNS 111)  
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	Well Screen Interval	Ground Water Elevation	Sodium	Naphthalene	Ethylbenzene	135-TMB	124-TMB	Xylenes	GRO	Benzene	DRO	Toluene
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				<u>0.0017</u>	<u>0.015</u>	<u>0.12</u>	<u>0.015</u>	<u>0.19</u>	<u>2.2</u>	<u>0.0046</u>	<u>1.5</u>	<u>1.1</u>
10/15/2020	--	--	--	--	--	--	--	--	--	--	--	--
03/30/2021	--	415.41	--	--	0.00361	--	--	0.00705	0.139 B	0.00019 J	0.341 J	U (0.001)
07/22/2021	--	--	--	--	--	--	--	--	--	--	--	--
10/12/2021	--	418.0	--	--	0.000274 J	--	--	0.00769	0.0684 B,J	U (0.001)	0.538 J	U (0.001)
05/17/2022	--	--	--	--	--	--	--	--	--	--	--	--
<b>MW-16</b>												
02/26/1992	--	418.29	--	--	U	--	--	U	--	0.004	--	U
06/04/1992	--	418.41	--	--	U	--	--	0.007	--	0.003	--	U
11/30/1992	--	416.6	--	--	<u>0.056</u>	--	--	0.15	--	<u>0.51</u>	--	0.094
02/24/1993	--	418.13	--	--	<u>0.036</u>	--	--	0.084	--	<u>0.41</u>	--	0.033
08/18/1993	--	420.26	--	--	U	--	--	0.014	--	<u>0.099</u>	--	U
11/23/1993	--	419.59	--	--	U	--	--	0.004	--	<u>0.039</u>	--	U
03/10/1994	--	418.28	--	--	U	--	--	U	--	<u>0.005</u>	--	0.001
06/01/1994	--	418.82	--	--	0.003	--	--	0.003	--	<u>0.022</u>	--	U
09/08/1994	--	420.22	--	--	U	--	--	U	--	U	--	U
09/09/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/12/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/14/1994	--	418.22	--	--	0.001	--	--	U	--	<u>0.012</u>	--	U
12/20/1995	--	414.53	--	--	U	--	--	0.003	--	<u>0.055</u>	--	U
05/16/1996	--	415.78	--	--	U	--	--	U	--	<u>0.007</u>	--	U
08/15/1996	--	416.58	--	--	U	--	--	U	--	U	--	U
12/09/1996	--	415.43	--	--	U	--	--	U	--	<u>0.0071</u>	--	U
03/20/1997	--	414.4	--	--	U	--	--	U	--	<u>0.0056</u>	--	U
08/15/1997	--	--	--	--	--	--	--	--	--	--	--	--
11/18/1997	--	415.22	--	--	U	--	--	0.00135	U	0.00134	--	0.00101
05/01/1998	--	414.38	--	--	0.00193	--	--	0.00739	0.089	<u>0.00567</u>	0.534	0.00308
10/14/1998	--	416.59	--	--	U	--	--	0.00222	U	U	0.281	U
04/01/1999	--	--	--	--	--	--	--	--	--	--	--	--
05/27/1999	--	415.29	--	--	U	--	--	U	U	0.00203	<u>2.64</u>	U
11/05/1999	--	415.51	--	--	U	--	--	U	U	U	<u>13</u>	U
04/17/2000	--	414.15	--	--	U	--	--	U	U	0.00305	<u>3.66</u>	U
10/26/2000	--	417.47	--	--	U	--	--	0.003	U	0.00186	<u>3.98</u>	0.00261
05/30/2001	--	413.63	--	--	U	--	--	U	U	0.0007	<u>6.65</u>	U
12/13/2001	--	413.23	--	--	0.0109	--	--	0.0554	0.9	<u>0.048</u>	<u>5.29</u>	0.302
05/01/2002	--	--	--	--	--	--	--	--	--	--	--	--
08/19/2002	--	417.85	--	--	U (0.002)	--	--	0.00896	U (0.09)	U (0.0005)	U (0.5)	U (0.002)
11/05/2002	--	417.07	--	--	U (0.002)	--	--	0.00234	U (0.09)	0.000589	0.595	U (0.002)
03/19/2003	--	416.23	--	--	U (0.002)	--	--	0.00469	U (0.09)	0.000531	1.1	0.00653
08/05/2003	--	--	--	--	--	--	--	--	--	--	--	--
11/07/2003	--	--	--	--	--	--	--	--	--	--	--	--

# Analytical Data Results Table

Speedway 5315 (TNS 111)  
 Speedway - Anne Duarte  
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	Well Screen Interval	Ground Water Elevation	Sodium	Naphthalene	Ethylbenzene	135-TMB	124-TMB	Xylenes	GRO	Benzene	DRO	Toluene
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				<u>0.0017</u>	<u>0.015</u>	<u>0.12</u>	<u>0.015</u>	<u>0.19</u>	<u>2.2</u>	<u>0.0046</u>	<u>1.5</u>	<u>1.1</u>
03/08/2004	--	414.95	—	—	U (0.0005)	—	—	U (0.001)	0.072	U (0.0005)	<u>2.85</u>	0.0288
09/15/2004	--	416.65	—	—	U (0.0005)	—	—	U (0.0015)	0.0521	0.0006	1.36	0.0143
01/10/2005	--	414.7	—	—	U (0.0005)	—	—	0.00221	0.175	0.000648	1.24	0.0886
07/15/2005	--	417.99	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	0.0007	1.06	U (0.0005)
02/16/2006	--	414.58	—	—	U (0.0005)	—	—	U (0.0015)	0.0641	U (0.0005)	<u>2.09</u>	0.0225
07/27/2006	--	417.08	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	0.000638	1.06	0.0108
03/02/2007	--	414.25	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	U (0.0005)	<u>1.95</u>	0.00206
10/17/2007	--	416.62	—	—	U (0.0025)	—	—	U (0.0075)	U (0.25)	U (0.0025)	<u>6.53</u>	0.00318
06/05/2008	--	415.88	—	—	U (0.0005)	—	—	U (0.0015)	0.0761	U (0.0005)	<u>4.4</u>	0.0117
09/29/2008	--	417.26	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	U (0.0005)	<u>2.69</u>	U (0.0005)
02/25/2009	--	414.49	—	—	U (0.0005)	—	—	U (0.0015)	0.0633	U (0.0005)	<u>3.44</u>	0.0135
07/21/2009	--	416.76	—	—	U (0.001)	—	—	U (0.003)	U (0.05)	U (0.0005)	0.564	U (0.001)
03/17/2010	--	413.98	—	—	U (0.001)	—	—	U (0.002)	U (0.05)	U (0.001)	0.586	U (0.001)
09/15/2010	--	416.52	—	—	0.000796	—	—	0.00508	U (0.05)	U (0.0005)	<u>2.35</u>	U (0.0005)
03/22/2011	--	413.98	—	—	U (0.0005)	—	—	U (0.0015)	0.221	U (0.0005)	<u>2.82</u>	0.0852
09/01/2011	--	417.42	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	U (0.0005)	<u>2.38</u>	U (0.0005)
03/13/2012	--	414.39	—	—	U (0.0005)	—	—	U (0.0015)	0.241	U (0.0005)	<u>4.18</u>	0.0845
07/23/2012	--	417.64	—	—	U (0.0010)	—	—	U (0.0030)	U (0.05)	U (0.0005)	1.04	U (0.0010)
09/28/2012	--	--	—	—	—	—	—	—	—	—	—	—
10/10/2012	--	--	—	—	—	—	—	—	—	—	—	—
02/21/2013	--	414.34	—	—	U (0.0005)	—	—	U (0.0015)	0.182	U (0.0005)	1.38	0.066
08/13/2013	--	416.56	—	—	U (0.0005)	—	—	U (0.0015)	U (0.05)	U (0.0005)	<u>3.61</u>	0.00143
09/24/2013	--	--	—	—	—	—	—	—	—	—	—	—
11/19/2013	--	--	—	—	—	—	—	—	—	—	—	—
03/18/2014	--	414.51	—	—	U (0.0005)	—	—	U (0.0015)	0.178	U (0.0005)	<u>3.17</u>	0.0694
03/19/2014	--	--	—	—	—	—	—	—	—	—	—	—
07/31/2014	--	419.7	—	—	U (0.001)	—	—	U (0.001)	U (0.05)	U (0.0005)	<u>2.3</u>	U (0.001)
03/03/2015	--	415.2	—	—	0.0073	—	—	0.13	0.74	<u>0.015</u>	1.3	0.039
07/27/2015	--	416.22	—	—	0.0057	—	—	0.071	0.42	<u>0.0068</u>	0.81	0.0016
02/23/2016	--	415.26	—	—	U (0.001)	—	—	0.0058	U (0.05)	U (0.001)	0.4	U (0.001)
10/06/2016	--	418.77	—	—	U (0.001)	—	—	0.0024	U (0.05)	U (0.001)	0.35	U (0.001)
03/16/2017	--	414.98	—	—	U (0.003)	—	—	U (0.002)	U (0.05)	U (0.002)	0.88	U (0.002)
07/07/2017	--	417.02	—	—	U (0.003)	—	—	U (0.003)	U (1.0)	U (0.002)	<u>3.7</u>	U (0.002)
09/06/2017	--	--	—	—	—	—	—	—	—	—	—	—
03/29/2018	--	--	—	—	—	—	—	—	—	—	—	—
09/07/2018	--	418.73	—	—	U (0.001)	—	—	U (0.002)	U (0.15)	U (0.0004)	0.34	U (0.001)
03/12/2019	--	--	—	—	—	—	—	—	—	—	—	—
03/13/2019	--	415.27	—	—	U (0.003)	—	—	U (0.003)	U (1.3)	U (0.003)	<u>1.9</u>	U (0.002)
03/14/2019	--	--	—	—	—	—	—	—	—	—	—	—
07/29/2019	--	--	—	—	—	—	—	—	—	—	—	—
07/30/2019	--	415.37	—	—	U (0.003)	—	—	0.003	U (0.25)	U (0.003)	0.39	U (0.002)

## Analytical Data Results Table

Speedway 5315 (TNS 111)  
 Speedway - Anne Duarte  
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	<i>Well Screen Interval</i>	<i>Ground Water Elevation</i>	<i>Sodium</i>	<i>Naphthalene</i>	<i>Ethylbenzene</i>	<i>135-TMB</i>	<i>124-TMB</i>	<i>Xylenes</i>	<i>GRO</i>	<i>Benzene</i>	<i>DRO</i>	<i>Toluene</i>
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				<u>0.0017</u>	<u>0.015</u>	<u>0.12</u>	<u>0.015</u>	<u>0.19</u>	<u>2.2</u>	<u>0.0046</u>	<u>1.5</u>	<u>1.1</u>
08/29/2019	--	--	--	--	--	--	--	--	--	--	--	--
10/24/2019	--	--	--	--	--	--	--	--	--	--	--	--
08/03/2020	--	--	--	--	--	--	--	--	--	--	--	--
08/04/2020	--	--	--	--	--	--	--	--	--	--	--	--
10/14/2020	--	418.63	--	0.000399 J	--	--	0.0241	0.0468 J	<u>0.0144</u>	0.918	0.000556 J	--
10/15/2020	--	--	--	--	--	--	--	--	--	--	--	--
03/30/2021	--	415.38	--	U (0.001)	--	--	0.000994 J	0.0233 BJ	U (0.001)	0.97	U (0.001)	--
07/22/2021	--	--	--	--	--	--	--	--	--	--	--	--
10/12/2021	--	418.0	--	U (0.001)	--	--	0.000223 J	U (0.1)	U (0.001)	<u>1.57</u>	U (0.001)	--
05/17/2022	--	418.08	40.4	U(0.000250)	U(0.00100)	0.000128	0.000654	0.000339	0.0297	U(0.00100)	0.967	U(0.00100)
<b>RM-1</b>												
02/26/1992	--	--	--	--	--	--	--	--	--	--	--	--
06/04/1992	--	--	--	--	--	--	--	--	--	--	--	--
11/30/1992	--	--	--	--	--	--	--	--	--	--	--	--
02/24/1993	--	--	--	--	--	--	--	--	--	--	--	--
08/18/1993	--	--	--	--	--	--	--	--	--	--	--	--
11/23/1993	--	--	--	--	--	--	--	--	--	--	--	--
03/10/1994	--	--	--	--	--	--	--	--	--	--	--	--
06/01/1994	--	--	--	--	--	--	--	--	--	--	--	--
09/08/1994	--	--	--	--	--	--	--	--	--	--	--	--
09/09/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/12/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/14/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/20/1995	--	--	--	--	--	--	--	--	--	--	--	--
05/16/1996	--	--	--	--	--	--	--	--	--	--	--	--
08/15/1996	--	--	--	--	--	--	--	--	--	--	--	--
12/09/1996	--	--	--	--	--	--	--	--	--	--	--	--
03/20/1997	--	--	--	--	--	--	--	--	--	--	--	--
08/15/1997	--	--	--	--	--	--	--	--	--	--	--	--
11/18/1997	--	--	--	--	--	--	--	--	--	--	--	--
05/01/1998	--	--	--	--	--	--	--	--	--	--	--	--
10/14/1998	--	--	--	--	--	--	--	--	--	--	--	--
04/01/1999	--	--	--	--	--	--	--	--	--	--	--	--
05/27/1999	--	--	--	--	--	--	--	--	--	--	--	--
11/05/1999	--	--	--	--	--	--	--	--	--	--	--	--
04/17/2000	--	--	--	--	--	--	--	--	--	--	--	--
10/26/2000	--	--	--	--	--	--	--	--	--	--	--	--
05/30/2001	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2001	--	--	--	--	--	--	--	--	--	--	--	--
05/01/2002	--	--	--	--	--	--	--	--	--	--	--	--

## Analytical Data Results Table

Speedway 5315 (TNS 111)  
 Speedway - Anne Duarte  
 3679 College Rd  
 Fairbanks, Alaska 99709

	Well Screen Interval	Ground Water Elevatioi.	Sodium	Naphthalene	Ethylbenzene	135-TMB	124-TMB	Xylenes	GRO	Benzene	DRO	Toluene
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				<u>0.0017</u>	<u>0.015</u>	<u>0.12</u>	<u>0.015</u>	<u>0.19</u>	<u>2.2</u>	<u>0.0046</u>	<u>1.5</u>	<u>1.1</u>
08/19/2002	--	--	--	--	--	--	--	--	--	--	--	--
11/05/2002	--	--	--	--	--	--	--	--	--	--	--	--
03/19/2003	--	--	--	--	--	--	--	--	--	--	--	--
08/05/2003	--	--	--	--	--	--	--	--	--	--	--	--
11/07/2003	--	--	--	--	--	--	--	--	--	--	--	--
03/08/2004	--	--	--	--	--	--	--	--	--	--	--	--
09/15/2004	--	--	--	--	--	--	--	--	--	--	--	--
01/10/2005	--	--	--	--	--	--	--	--	--	--	--	--
07/15/2005	--	--	--	--	--	--	--	--	--	--	--	--
02/16/2006	--	--	--	--	--	--	--	--	--	--	--	--
07/27/2006	--	--	--	--	--	--	--	--	--	--	--	--
03/02/2007	--	--	--	--	--	--	--	--	--	--	--	--
10/17/2007	--	--	--	--	--	--	--	--	--	--	--	--
06/05/2008	--	--	--	--	--	--	--	--	--	--	--	--
09/29/2008	--	--	--	--	--	--	--	--	--	--	--	--
02/25/2009	--	--	--	--	--	--	--	--	--	--	--	--
07/21/2009	--	--	--	--	--	--	--	--	--	--	--	--
03/17/2010	--	--	--	--	--	--	--	--	--	--	--	--
09/15/2010	--	--	--	--	--	--	--	--	--	--	--	--
03/22/2011	--	--	--	--	--	--	--	--	--	--	--	--
09/01/2011	--	--	--	--	--	--	--	--	--	--	--	--
03/13/2012	--	--	--	--	--	--	--	--	--	--	--	--
07/23/2012	--	--	--	--	--	--	--	--	--	--	--	--
09/28/2012	--	--	--	--	--	--	--	--	--	--	--	--
10/10/2012	--	416.29	--	--	<u>0.084</u>	--	--	<u>1.8</u>	<u>7.6</u>	<u>0.0425</u>	1.4	<u>6.09</u>
02/21/2013	--	414.27	--	--	<u>0.942</u>	--	--	<u>0.51</u>	<u>9.8</u>	0.000539	0.92	<u>15.4</u>
08/13/2013	--	416.55	--	--	<u>3.08</u>	--	--	<u>6.83</u>	1.8	0.00072	1.3	0.0922
09/24/2013	--	--	--	--	<u>0.131</u>	--	--	<u>16.7</u>	<u>27.2</u>	<u>0.0067</u>	<u>1.7</u>	0.23
11/19/2013	--	415.53	--	--	<u>0.2</u>	--	--	<u>1.32</u>	<u>175</u>	<u>0.055</u>	<u>12.6</u>	0.33
03/18/2014	--	--	--	--	--	--	--	--	--	--	--	--
03/19/2014	--	414.37	--	--	U (0.001)	--	--	<u>2.06</u>	<u>2.81</u>	<u>0.0213</u>	<u>10.8</u>	0.68
07/31/2014	--	419.58	--	--	<u>0.096</u>	--	--	<u>0.71</u>	<u>4.7</u>	<u>0.0251</u>	1.23	<u>2.83</u>
03/03/2015	--	402.63	--	--	<u>0.593</u>	--	--	<u>1.6</u>	<u>3.5</u>	0.00261 J	1.2	<u>7.25</u>
07/27/2015	--	--	--	--	<u>2.14</u>	--	--	<u>5.09</u>	<u>8.4</u>	U (0.15)	0.74	0.137
02/23/2016	--	414.75	--	--	<u>0.246</u>	--	--	<u>11.3</u>	<u>14.7</u>	<u>0.0087</u>	1.5	0.4
10/06/2016	--	417.91	--	--	<u>0.23</u>	--	--	<u>1.89</u>	<u>69.9</u>	<u>0.084</u>	<u>17.5</u>	0.69
03/16/2017	--	--	--	--	--	--	--	--	--	--	--	--
07/07/2017	--	417.04	--	--	<u>0.45</u>	--	--	<u>1.55</u>	<u>4.26</u>	<u>0.0268</u>	<u>10.7</u>	0.77
09/06/2017	--	--	--	--	<u>0.36</u>	--	--	<u>2.73</u>	<u>6.1</u>	<u>0.0432</u>	<u>2.31</u>	0.201
03/29/2018	--	--	--	--	--	--	--	--	--	--	--	--
09/07/2018	--	413.04	--	--	<u>0.568</u>	--	--	<u>2.9</u>	<u>12</u>	0.000358 J	1.1	<u>12.2</u>

## Analytical Data Results Table

Speedway 5315 (TNS 111)  
 Speedway - Anne Duarte  
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	Well Screen Interval	Ground Water Elevation	Sodium	Naphthalene	Ethylbenzene	135-TMB	124-TMB	Xylenes	GRO	Benzene	DRO	Toluene
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				<u>0.0017</u>	<u>0.015</u>	<u>0.12</u>	<u>0.015</u>	<u>0.19</u>	<u>2.2</u>	<u>0.0046</u>	<u>1.5</u>	<u>1.1</u>
03/12/2019	--	--	--	--	--	--	--	--	--	--	--	--
03/13/2019	--	415.16	--	--	--	--	--	--	--	--	--	--
03/14/2019	--	--	--	--	--	--	--	--	--	--	--	--
07/29/2019	--	--	--	--	--	--	--	--	--	--	--	--
07/30/2019	--	415.38	--	--	<u>1.8</u>	--	--	<u>2.55</u>	<u>12</u>	(0.003) U	<u>3.3</u>	0.000503 J
08/29/2019	--	--	--	--	--	--	--	--	--	--	--	--
10/24/2019	--	--	--	--	<u>0.142</u>	--	--	<u>10.4</u>	<u>11.9</u>	<u>0.005</u>	<u>5.2</u>	0.038
08/03/2020	--	--	--	--	--	--	--	--	--	--	--	--
08/04/2020	--	417.0	--	--	<u>0.15</u>	--	--	<u>1.25</u>	<u>39.9</u>	U (0.001)	<u>13.2</u>	0.74
10/14/2020	--	--	--	--	--	--	--	--	--	--	--	--
10/15/2020	--	--	--	--	<u>0.27</u>	--	--	<u>1.49</u>	<u>5.34</u>	U (0.0005)	<u>9.27</u>	0.93
03/30/2021	--	--	--	--	--	--	--	--	--	--	--	--
07/22/2021	--	--	--	--	--	--	--	--	--	--	--	--
10/12/2021	--	417.82	--	--	<u>0.2</u>	--	--	<u>2</u>	<u>4.3</u>	<u>0.0246</u>	<u>2.22</u>	0.15
05/17/2022	--	418.08	--	--	--	--	--	--	--	--	--	--
<b>RM-2</b>												
02/26/1992	--	--	--	--	--	--	--	--	--	--	--	--
06/04/1992	--	--	--	--	--	--	--	--	--	--	--	--
11/30/1992	--	--	--	--	--	--	--	--	--	--	--	--
02/24/1993	--	--	--	--	--	--	--	--	--	--	--	--
08/18/1993	--	--	--	--	--	--	--	--	--	--	--	--
11/23/1993	--	--	--	--	--	--	--	--	--	--	--	--
03/10/1994	--	--	--	--	--	--	--	--	--	--	--	--
06/01/1994	--	--	--	--	--	--	--	--	--	--	--	--
09/08/1994	--	--	--	--	--	--	--	--	--	--	--	--
09/09/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/12/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/14/1994	--	--	--	--	--	--	--	--	--	--	--	--
12/20/1995	--	--	--	--	--	--	--	--	--	--	--	--
05/16/1996	--	--	--	--	--	--	--	--	--	--	--	--
08/15/1996	--	--	--	--	--	--	--	--	--	--	--	--
12/09/1996	--	--	--	--	--	--	--	--	--	--	--	--
03/20/1997	--	--	--	--	--	--	--	--	--	--	--	--
08/15/1997	--	--	--	--	--	--	--	--	--	--	--	--
11/18/1997	--	--	--	--	--	--	--	--	--	--	--	--
05/01/1998	--	--	--	--	--	--	--	--	--	--	--	--
10/14/1998	--	--	--	--	--	--	--	--	--	--	--	--
04/01/1999	--	--	--	--	--	--	--	--	--	--	--	--
05/27/1999	--	--	--	--	--	--	--	--	--	--	--	--
11/05/1999	--	--	--	--	--	--	--	--	--	--	--	--

## Analytical Data Results Table

Speedway 5315 (TNS 111)  
 Speedway - Anne Duarte  
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	<i>Well Screen Interval</i>	<i>Ground Water Elevation</i>	<i>Sodium</i>	<i>Naphthalene</i>	<i>Ethylbenzene</i>	<i>135-TMB</i>	<i>124-TMB</i>	<i>Xylenes</i>	<i>GRO</i>	<i>Benzene</i>	<i>DRO</i>	<i>Toluene</i>
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				0.0017	0.015	0.12	0.015	0.19	2.2	0.0046	1.5	1.1
04/17/2000	--	--	--	--	--	--	--	--	--	--	--	--
10/26/2000	--	--	--	--	--	--	--	--	--	--	--	--
05/30/2001	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2001	--	--	--	--	--	--	--	--	--	--	--	--
05/01/2002	--	--	--	--	--	--	--	--	--	--	--	--
08/19/2002	--	--	--	--	--	--	--	--	--	--	--	--
11/05/2002	--	--	--	--	--	--	--	--	--	--	--	--
03/19/2003	--	--	--	--	--	--	--	--	--	--	--	--
08/05/2003	--	--	--	--	--	--	--	--	--	--	--	--
11/07/2003	--	--	--	--	--	--	--	--	--	--	--	--
03/08/2004	--	--	--	--	--	--	--	--	--	--	--	--
09/15/2004	--	--	--	--	--	--	--	--	--	--	--	--
01/10/2005	--	--	--	--	--	--	--	--	--	--	--	--
07/15/2005	--	--	--	--	--	--	--	--	--	--	--	--
02/16/2006	--	--	--	--	--	--	--	--	--	--	--	--
07/27/2006	--	--	--	--	--	--	--	--	--	--	--	--
03/02/2007	--	--	--	--	--	--	--	--	--	--	--	--
10/17/2007	--	--	--	--	--	--	--	--	--	--	--	--
06/05/2008	--	--	--	--	--	--	--	--	--	--	--	--
09/29/2008	--	--	--	--	--	--	--	--	--	--	--	--
02/25/2009	--	--	--	--	--	--	--	--	--	--	--	--
07/21/2009	--	--	--	--	--	--	--	--	--	--	--	--
03/17/2010	--	--	--	--	--	--	--	--	--	--	--	--
09/15/2010	--	--	--	--	--	--	--	--	--	--	--	--
03/22/2011	--	--	--	--	--	--	--	--	--	--	--	--
09/01/2011	--	--	--	--	--	--	--	--	--	--	--	--
03/13/2012	--	--	--	--	--	--	--	--	--	--	--	--
07/23/2012	--	--	--	--	--	--	--	--	--	--	--	--
09/28/2012	--	--	--	--	--	--	--	--	--	--	--	--
10/10/2012	--	--	--	--	--	--	--	--	--	--	--	--
02/21/2013	--	--	--	--	--	--	--	--	--	--	--	--
08/13/2013	--	--	--	--	--	--	--	--	--	--	--	--
09/24/2013	--	--	--	--	--	--	--	--	--	--	--	--
11/19/2013	--	--	--	--	--	--	--	--	--	--	--	--
03/18/2014	--	--	--	--	--	--	--	--	--	--	--	--
03/19/2014	--	--	--	--	--	--	--	--	--	--	--	--
07/31/2014	--	--	--	--	--	--	--	--	--	--	--	--
03/03/2015	--	--	--	--	--	--	--	--	--	--	--	--
07/27/2015	--	--	--	--	--	--	--	--	--	--	--	--
02/23/2016	--	--	--	--	--	--	--	--	--	--	--	--
10/06/2016	--	--	--	--	--	--	--	--	--	--	--	--

## Analytical Data Results Table

Speedway 5315 (TNS 111)  
 Speedway - Anne Duarte  
 3679 College Rd  
 Fairbanks, Alaska 99709

Unit	Well Screen Interval	Ground Water Elevation	Sodium	Naphthalene	Ethylbenzene	135-TMB	124-TMB	Xylenes	GRO	Benzene	DRO	Toluene
	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>				<u>0.0017</u>	<u>0.015</u>	<u>0.12</u>	<u>0.015</u>	<u>0.19</u>	<u>2.2</u>	<u>0.0046</u>	<u>1.5</u>	<u>1.1</u>
03/16/2017	--	--	--	--	--	--	--	--	--	--	--	--
07/07/2017	--	--	--	--	--	--	--	--	--	--	--	--
09/06/2017	--	--	--	--	--	--	--	--	--	--	--	--
03/29/2018	--	--	--	--	--	--	--	--	--	--	--	--
09/07/2018	--	--	--	--	--	--	--	--	--	--	--	--
03/12/2019	--	--	--	--	--	--	--	--	--	--	--	--
03/13/2019	--	--	--	--	--	--	--	--	--	--	--	--
03/14/2019	--	--	--	--	--	--	--	--	--	--	--	--
07/29/2019	--	--	--	--	--	--	--	--	--	--	--	--
07/30/2019	--	--	--	--	--	--	--	--	--	--	--	--
08/29/2019	--	--	--	<u>0.0157</u>	--	--	0.0666	0.479	0.00179	0.384 J	0.00209	
10/24/2019	--	--	--	<u>0.089</u>	--	--	<u>0.342</u>	2	0.0046	0.45	0.058	
08/03/2020	--	--	--	--	--	--	--	--	--	--	--	
08/04/2020	--	--	--	0.000505	--	--	0.000565	0.0135	U (0.001)	U (0.800)	U (0.001)	
10/14/2020	--	--	--	--	--	--	--	--	--	--	--	
10/15/2020	--	--	--	<u>0.274</u>	--	--	<u>1.24</u>	<u>3.98</u>	<u>0.0226</u>	1.49	0.413	
03/30/2021	--	--	--	<u>0.352</u>	--	--	<u>0.74</u>	<u>4.16</u>	<u>0.0297</u>	1.21	0.0541	
07/22/2021	--	--	--	--	--	--	--	--	--	--	--	
10/12/2021	--	417.79	--	<u>0.0401</u>	--	--	0.0617	0.645	0.000496 J	0.650 J	U (0.001)	
05/17/2022	--	418.05	25.8	0.000327	0.0049	0.000547	0.00149	0.00183	0.133	0.000133	U(0.840)	U(0.00100)



---

## **APPENDIX E**

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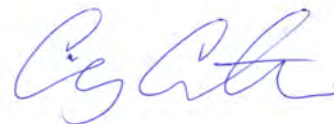
### *Laboratory Analytical Report and ADEC Laboratory Data Review Checklist*

---

## Stantec - Anchorage, AK

Sample Delivery Group: L1496084  
Samples Received: 05/19/2022  
Project Number:  
Description: Speedway 5310 in North Pole, AK  
Site: 0005310  
Report To: Ms. Leslie Petre  
725 E Fireweed Lane  
Suite 200  
Anchorage, AK 99503

Entire Report Reviewed By:



Craig Cothron  
Project Manager

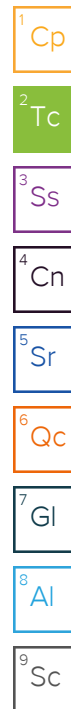
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory 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

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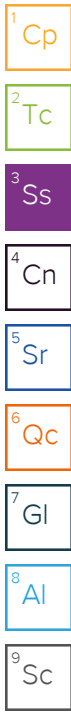


# SAMPLE SUMMARY

## MW-10 L1496084-01 GW

Collected by: RM  
 Collected date/time: 05/17/22 10:08  
 Received date/time: 05/19/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1868706	1	05/26/22 17:38	05/26/22 21:44	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1869171	5	05/25/22 13:11	05/25/22 13:11	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1869041	5	05/25/22 16:17	05/25/22 16:17	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1866864	1.05	05/25/22 02:20	05/25/22 18:38	AEG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1867707	1	05/23/22 21:57	05/24/22 17:11	AGW	Mt. Juliet, TN



## MW-11 L1496084-02 GW

Collected by: RM  
 Collected date/time: 05/17/22 10:21  
 Received date/time: 05/19/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1868706	1	05/26/22 17:38	05/26/22 21:47	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1869171	5	05/25/22 13:33	05/25/22 13:33	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1869041	20	05/25/22 16:36	05/25/22 16:36	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1866864	1.05	05/25/22 02:20	05/25/22 18:58	AEG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1867707	1	05/23/22 21:57	05/24/22 18:31	AGW	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1867707	10	05/23/22 21:57	05/26/22 21:46	JNJ	Mt. Juliet, TN

## MW-12 L1496084-03 GW

Collected by: RM  
 Collected date/time: 05/17/22 15:17  
 Received date/time: 05/19/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1868706	1	05/26/22 17:38	05/26/22 21:49	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1869171	1	05/25/22 07:19	05/25/22 07:19	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1869041	1	05/25/22 12:07	05/25/22 12:07	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1866864	1	05/25/22 02:20	05/25/22 19:19	AEG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1867707	1	05/23/22 21:57	05/24/22 17:31	AGW	Mt. Juliet, TN

## MW-16 L1496084-04 GW

Collected by: RM  
 Collected date/time: 05/17/22 13:06  
 Received date/time: 05/19/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1868706	1	05/26/22 17:38	05/26/22 21:52	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1869171	1	05/25/22 07:41	05/25/22 07:41	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1869041	1	05/25/22 12:26	05/25/22 12:26	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1866864	1.11	05/25/22 02:20	05/25/22 19:39	AEG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1867707	1	05/23/22 21:57	05/24/22 17:51	AGW	Mt. Juliet, TN

## G-1 L1496084-05 GW

Collected by: RM  
 Collected date/time: 05/17/22 14:21  
 Received date/time: 05/19/22 09:30

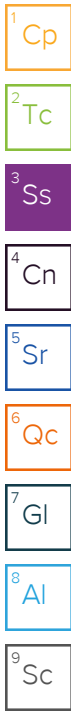
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1868706	1	05/26/22 17:38	05/26/22 22:01	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1869171	1	05/25/22 08:27	05/25/22 08:27	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1869041	1	05/25/22 12:46	05/25/22 12:46	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1866864	1.05	05/25/22 02:20	05/25/22 19:59	AEG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1867707	1	05/23/22 21:57	05/24/22 18:51	AGW	Mt. Juliet, TN

# SAMPLE SUMMARY

## G-5 L1496084-06 GW

Collected by: RM  
 Collected date/time: 05/17/22 09:20  
 Received date/time: 05/19/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1868706	1	05/26/22 17:38	05/26/22 22:04	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1869171	1	05/25/22 08:49	05/25/22 08:49	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1869041	1	05/25/22 13:05	05/25/22 13:05	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1870317	10	05/26/22 16:53	05/26/22 16:53	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1866864	1.05	05/25/22 02:20	05/25/22 20:20	AEG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1867708	1	05/24/22 08:47	05/24/22 21:53	AMG	Mt. Juliet, TN



## MW-17-1 L1496084-07 GW

Collected by: RM  
 Collected date/time: 05/17/22 14:39  
 Received date/time: 05/19/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1868675	1	05/25/22 20:09	05/26/22 13:14	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1869171	5	05/25/22 13:54	05/25/22 13:54	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1869041	100	05/25/22 16:56	05/25/22 16:56	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1866856	1	05/23/22 01:12	05/23/22 21:05	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1867708	1	05/24/22 08:47	05/24/22 22:11	AMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1867708	10	05/24/22 08:47	05/26/22 01:31	JNJ	Mt. Juliet, TN

## MW-17-2 L1496084-08 GW

Collected by: RM  
 Collected date/time: 05/17/22 10:53  
 Received date/time: 05/19/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1868675	1	05/25/22 20:09	05/26/22 13:22	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1869171	1	05/25/22 09:10	05/25/22 09:10	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1869041	5	05/25/22 17:15	05/25/22 17:15	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1866856	1	05/23/22 01:12	05/24/22 02:29	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1867708	1	05/24/22 08:47	05/24/22 22:29	AMG	Mt. Juliet, TN

## RW-2 L1496084-09 GW

Collected by: RM  
 Collected date/time: 05/17/22 13:31  
 Received date/time: 05/19/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1868675	1	05/25/22 20:09	05/26/22 13:24	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1869171	1	05/25/22 09:32	05/25/22 09:32	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1869041	1	05/25/22 13:24	05/25/22 13:24	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1869848	1.05	05/26/22 07:57	05/26/22 18:37	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1867708	1	05/24/22 08:47	05/24/22 22:47	AMG	Mt. Juliet, TN

## DUPLICATE 1 L1496084-10 GW

Collected by: RM  
 Collected date/time: 05/17/22 10:53  
 Received date/time: 05/19/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1868675	1	05/25/22 20:09	05/26/22 13:27	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1869171	1	05/25/22 09:53	05/25/22 09:53	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1870043	25	05/27/22 12:10	05/27/22 12:10	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1869848	1.05	05/26/22 07:57	05/26/22 18:57	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1867708	1	05/24/22 08:47	05/24/22 23:04	AMG	Mt. Juliet, TN

# SAMPLE SUMMARY

DUPLICATE 2 L1496084-11 GW

Collected by: RM  
 Collected date/time: 05/17/22 13:31  
 Received date/time: 05/19/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1868675	1	05/25/22 20:09	05/26/22 13:30	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1869171	1	05/25/22 10:15	05/25/22 10:15	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1869041	1	05/25/22 14:03	05/25/22 14:03	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1870317	1	05/26/22 15:55	05/26/22 15:55	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1869848	1	05/26/22 07:57	05/26/22 19:18	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1867708	1	05/24/22 08:47	05/24/22 23:22	AMG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

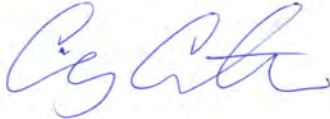
7 Gl

8 Al

9 Sc

# 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.



Craig Cothron  
Project Manager

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

## Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	68.8		0.504	3.00	1	05/26/2022 21:44	<a href="#">WG1868706</a>

## Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	0.858	<u>B</u>	0.143	0.500	5	05/25/2022 13:11	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(FID)	87.3			50.0-150		05/25/2022 13:11	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(PID)	107			79.0-125		05/25/2022 13:11	<a href="#">WG1869171</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.00147	<u>J</u>	0.000471	0.00500	5	05/25/2022 16:17	<a href="#">WG1869041</a>
n-Butylbenzene	U		0.000785	0.00500	5	05/25/2022 16:17	<a href="#">WG1869041</a>
sec-Butylbenzene	U		0.000625	0.00500	5	05/25/2022 16:17	<a href="#">WG1869041</a>
tert-Butylbenzene	U		0.000635	0.00500	5	05/25/2022 16:17	<a href="#">WG1869041</a>
Ethylbenzene	0.0318		0.000685	0.00500	5	05/25/2022 16:17	<a href="#">WG1869041</a>
Isopropylbenzene	0.00301	<u>J</u>	0.000525	0.00500	5	05/25/2022 16:17	<a href="#">WG1869041</a>
Naphthalene	0.0205	<u>C3 J</u>	0.00500	0.0250	5	05/25/2022 16:17	<a href="#">WG1869041</a>
Toluene	0.00300	<u>J</u>	0.00139	0.00500	5	05/25/2022 16:17	<a href="#">WG1869041</a>
1,2,4-Trimethylbenzene	0.0694		0.00161	0.00500	5	05/25/2022 16:17	<a href="#">WG1869041</a>
1,3,5-Trimethylbenzene	0.0185		0.000520	0.00500	5	05/25/2022 16:17	<a href="#">WG1869041</a>
Total Xylenes	0.0913		0.000870	0.0150	5	05/25/2022 16:17	<a href="#">WG1869041</a>
(S) Toluene-d8	103			80.0-120		05/25/2022 16:17	<a href="#">WG1869041</a>
(S) 4-Bromofluorobenzene	92.1			77.0-126		05/25/2022 16:17	<a href="#">WG1869041</a>
(S) 1,2-Dichloroethane-d4	91.3			70.0-130		05/25/2022 16:17	<a href="#">WG1869041</a>

## Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	3.65		0.240	0.840	1.05	05/25/2022 18:38	<a href="#">WG1866864</a>
(S) o-Terphenyl	77.4			50.0-150		05/25/2022 18:38	<a href="#">WG1866864</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	05/24/2022 17:11	<a href="#">WG1867707</a>
Acenaphthene	0.0000498	<u>J</u>	0.0000190	0.0000500	1	05/24/2022 17:11	<a href="#">WG1867707</a>
Acenaphthylene	U		0.0000171	0.0000500	1	05/24/2022 17:11	<a href="#">WG1867707</a>
Benzo(a)anthracene	U		0.0000203	0.0000500	1	05/24/2022 17:11	<a href="#">WG1867707</a>
Benzo(a)pyrene	U		0.0000184	0.0000500	1	05/24/2022 17:11	<a href="#">WG1867707</a>
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	05/24/2022 17:11	<a href="#">WG1867707</a>
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	1	05/24/2022 17:11	<a href="#">WG1867707</a>
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	05/24/2022 17:11	<a href="#">WG1867707</a>
Chrysene	U		0.0000179	0.0000500	1	05/24/2022 17:11	<a href="#">WG1867707</a>
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	05/24/2022 17:11	<a href="#">WG1867707</a>
Fluoranthene	U		0.0000270	0.000100	1	05/24/2022 17:11	<a href="#">WG1867707</a>
Fluorene	0.000218		0.0000169	0.0000500	1	05/24/2022 17:11	<a href="#">WG1867707</a>
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	05/24/2022 17:11	<a href="#">WG1867707</a>
Naphthalene	0.00286		0.0000917	0.000250	1	05/24/2022 17:11	<a href="#">WG1867707</a>
Phenanthrene	U		0.0000180	0.0000500	1	05/24/2022 17:11	<a href="#">WG1867707</a>
Pyrene	U		0.0000169	0.0000500	1	05/24/2022 17:11	<a href="#">WG1867707</a>
1-Methylnaphthalene	0.00120		0.0000687	0.000250	1	05/24/2022 17:11	<a href="#">WG1867707</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Methylnaphthalene	0.000325		0.0000674	0.000250	1	05/24/2022 17:11	<a href="#">WG1867707</a>
(S) Nitrobenzene-d5	74.5			31.0-160		05/24/2022 17:11	<a href="#">WG1867707</a>
(S) 2-Fluorobiphenyl	101			48.0-148		05/24/2022 17:11	<a href="#">WG1867707</a>
(S) p-Terphenyl-d14	107			37.0-146		05/24/2022 17:11	<a href="#">WG1867707</a>

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

## Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	72.1		0.504	3.00	1	05/26/2022 21:47	<a href="#">WG1868706</a>

## Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	6.62		0.143	0.500	5	05/25/2022 13:33	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(FID)	89.5			50.0-150		05/25/2022 13:33	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(PID)	106			79.0-125		05/25/2022 13:33	<a href="#">WG1869171</a>

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

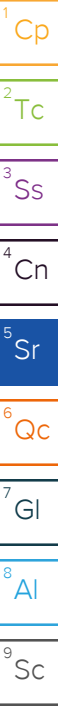
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.00712	J	0.00188	0.0200	20	05/25/2022 16:36	<a href="#">WG1869041</a>
n-Butylbenzene	U		0.00314	0.0200	20	05/25/2022 16:36	<a href="#">WG1869041</a>
sec-Butylbenzene	U		0.00250	0.0200	20	05/25/2022 16:36	<a href="#">WG1869041</a>
tert-Butylbenzene	U		0.00254	0.0200	20	05/25/2022 16:36	<a href="#">WG1869041</a>
Ethylbenzene	1.29		0.00274	0.0200	20	05/25/2022 16:36	<a href="#">WG1869041</a>
Isopropylbenzene	0.0386		0.00210	0.0200	20	05/25/2022 16:36	<a href="#">WG1869041</a>
Naphthalene	0.151	C3	0.0200	0.100	20	05/25/2022 16:36	<a href="#">WG1869041</a>
Toluene	0.00793	J	0.00556	0.0200	20	05/25/2022 16:36	<a href="#">WG1869041</a>
1,2,4-Trimethylbenzene	0.531		0.00644	0.0200	20	05/25/2022 16:36	<a href="#">WG1869041</a>
1,3,5-Trimethylbenzene	0.126		0.00208	0.0200	20	05/25/2022 16:36	<a href="#">WG1869041</a>
Total Xylenes	2.19		0.00348	0.0600	20	05/25/2022 16:36	<a href="#">WG1869041</a>
(S) Toluene-d8	101			80.0-120		05/25/2022 16:36	<a href="#">WG1869041</a>
(S) 4-Bromofluorobenzene	91.1			77.0-126		05/25/2022 16:36	<a href="#">WG1869041</a>
(S) 1,2-Dichloroethane-d4	92.8			70.0-130		05/25/2022 16:36	<a href="#">WG1869041</a>

## Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	3.70		0.240	0.840	1.05	05/25/2022 18:58	<a href="#">WG1866864</a>
(S) o-Terphenyl	73.2			50.0-150		05/25/2022 18:58	<a href="#">WG1866864</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	05/24/2022 18:31	<a href="#">WG1867707</a>
Acenaphthene	0.000346		0.0000190	0.0000500	1	05/24/2022 18:31	<a href="#">WG1867707</a>
Acenaphthylene	U		0.0000171	0.0000500	1	05/24/2022 18:31	<a href="#">WG1867707</a>
Benzo(a)anthracene	U		0.0000203	0.0000500	1	05/24/2022 18:31	<a href="#">WG1867707</a>
Benzo(a)pyrene	U		0.0000184	0.0000500	1	05/24/2022 18:31	<a href="#">WG1867707</a>
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	05/24/2022 18:31	<a href="#">WG1867707</a>
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	1	05/24/2022 18:31	<a href="#">WG1867707</a>
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	05/24/2022 18:31	<a href="#">WG1867707</a>
Chrysene	U		0.0000179	0.0000500	1	05/24/2022 18:31	<a href="#">WG1867707</a>
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	05/24/2022 18:31	<a href="#">WG1867707</a>
Fluoranthene	U		0.0000270	0.000100	1	05/24/2022 18:31	<a href="#">WG1867707</a>
Fluorene	0.000645		0.0000169	0.0000500	1	05/24/2022 18:31	<a href="#">WG1867707</a>
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	05/24/2022 18:31	<a href="#">WG1867707</a>
Naphthalene	0.161		0.000917	0.00250	10	05/26/2022 21:46	<a href="#">WG1867707</a>
Phenanthrene	0.0000563		0.0000180	0.0000500	1	05/24/2022 18:31	<a href="#">WG1867707</a>
Pyrene	U		0.0000169	0.0000500	1	05/24/2022 18:31	<a href="#">WG1867707</a>
1-Methylnaphthalene	0.0363		0.0000687	0.000250	1	05/24/2022 18:31	<a href="#">WG1867707</a>



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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Methylnaphthalene	0.0232		0.0000674	0.000250	1	05/24/2022 18:31	<a href="#">WG1867707</a>
(S) Nitrobenzene-d5	96.0			31.0-160		05/24/2022 18:31	<a href="#">WG1867707</a>
(S) Nitrobenzene-d5	91.5			31.0-160		05/26/2022 21:46	<a href="#">WG1867707</a>
(S) 2-Fluorobiphenyl	95.5			48.0-148		05/26/2022 21:46	<a href="#">WG1867707</a>
(S) 2-Fluorobiphenyl	97.5			48.0-148		05/24/2022 18:31	<a href="#">WG1867707</a>
(S) p-Terphenyl-d14	112			37.0-146		05/24/2022 18:31	<a href="#">WG1867707</a>
(S) p-Terphenyl-d14	115			37.0-146		05/26/2022 21:46	<a href="#">WG1867707</a>

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

## Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	66.9		0.504	3.00	1	05/26/2022 21:49	<a href="#">WG1868706</a>

## Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	0.547		0.0287	0.100	1	05/25/2022 07:19	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(FID)	85.6			50.0-150		05/25/2022 07:19	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(PID)	105			79.0-125		05/25/2022 07:19	<a href="#">WG1869171</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.000342	<u>J</u>	0.0000941	0.00100	1	05/25/2022 12:07	<a href="#">WG1869041</a>
n-Butylbenzene	U		0.000157	0.00100	1	05/25/2022 12:07	<a href="#">WG1869041</a>
sec-Butylbenzene	U		0.000125	0.00100	1	05/25/2022 12:07	<a href="#">WG1869041</a>
tert-Butylbenzene	U		0.000127	0.00100	1	05/25/2022 12:07	<a href="#">WG1869041</a>
Ethylbenzene	0.0184		0.000137	0.00100	1	05/25/2022 12:07	<a href="#">WG1869041</a>
Isopropylbenzene	0.00356		0.000105	0.00100	1	05/25/2022 12:07	<a href="#">WG1869041</a>
Naphthalene	0.00781	<u>C3</u>	0.00100	0.00500	1	05/25/2022 12:07	<a href="#">WG1869041</a>
Toluene	0.000613	<u>J</u>	0.000278	0.00100	1	05/25/2022 12:07	<a href="#">WG1869041</a>
1,2,4-Trimethylbenzene	0.116		0.000322	0.00100	1	05/25/2022 12:07	<a href="#">WG1869041</a>
1,3,5-Trimethylbenzene	0.0250		0.000104	0.00100	1	05/25/2022 12:07	<a href="#">WG1869041</a>
Total Xylenes	0.0940		0.000174	0.00300	1	05/25/2022 12:07	<a href="#">WG1869041</a>
(S) Toluene-d8	98.1			80.0-120		05/25/2022 12:07	<a href="#">WG1869041</a>
(S) 4-Bromofluorobenzene	91.3			77.0-126		05/25/2022 12:07	<a href="#">WG1869041</a>
(S) 1,2-Dichloroethane-d4	93.8			70.0-130		05/25/2022 12:07	<a href="#">WG1869041</a>

## Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	0.745	<u>J</u>	0.229	0.800	1	05/25/2022 19:19	<a href="#">WG1866864</a>
(S) o-Terphenyl	58.7			50.0-150		05/25/2022 19:19	<a href="#">WG1866864</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	05/24/2022 17:31	<a href="#">WG1867707</a>
Acenaphthene	U		0.0000190	0.0000500	1	05/24/2022 17:31	<a href="#">WG1867707</a>
Acenaphthylene	U		0.0000171	0.0000500	1	05/24/2022 17:31	<a href="#">WG1867707</a>
Benzo(a)anthracene	U		0.0000203	0.0000500	1	05/24/2022 17:31	<a href="#">WG1867707</a>
Benzo(a)pyrene	U		0.0000184	0.0000500	1	05/24/2022 17:31	<a href="#">WG1867707</a>
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	05/24/2022 17:31	<a href="#">WG1867707</a>
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	1	05/24/2022 17:31	<a href="#">WG1867707</a>
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	05/24/2022 17:31	<a href="#">WG1867707</a>
Chrysene	U		0.0000179	0.0000500	1	05/24/2022 17:31	<a href="#">WG1867707</a>
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	05/24/2022 17:31	<a href="#">WG1867707</a>
Fluoranthene	U		0.0000270	0.000100	1	05/24/2022 17:31	<a href="#">WG1867707</a>
Fluorene	0.0000745		0.0000169	0.0000500	1	05/24/2022 17:31	<a href="#">WG1867707</a>
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	05/24/2022 17:31	<a href="#">WG1867707</a>
Naphthalene	0.000545		0.0000917	0.000250	1	05/24/2022 17:31	<a href="#">WG1867707</a>
Phenanthrene	U		0.0000180	0.0000500	1	05/24/2022 17:31	<a href="#">WG1867707</a>
Pyrene	U		0.0000169	0.0000500	1	05/24/2022 17:31	<a href="#">WG1867707</a>
1-Methylnaphthalene	0.00173		0.0000687	0.000250	1	05/24/2022 17:31	<a href="#">WG1867707</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Methylnaphthalene	U		0.0000674	0.000250	1	05/24/2022 17:31	<a href="#">WG1867707</a>
(S) Nitrobenzene-d5	95.0			31.0-160		05/24/2022 17:31	<a href="#">WG1867707</a>
(S) 2-Fluorobiphenyl	94.0			48.0-148		05/24/2022 17:31	<a href="#">WG1867707</a>
(S) p-Terphenyl-d14	109			37.0-146		05/24/2022 17:31	<a href="#">WG1867707</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	40.4		0.504	3.00	1	05/26/2022 21:52	<a href="#">WG1868706</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	0.0297	<u>B J</u>	0.0287	0.100	1	05/25/2022 07:41	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(FID)	84.4			50.0-150		05/25/2022 07:41	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(PID)	105			79.0-125		05/25/2022 07:41	<a href="#">WG1869171</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	05/25/2022 12:26	<a href="#">WG1869041</a>
n-Butylbenzene	U		0.000157	0.00100	1	05/25/2022 12:26	<a href="#">WG1869041</a>
sec-Butylbenzene	U		0.000125	0.00100	1	05/25/2022 12:26	<a href="#">WG1869041</a>
tert-Butylbenzene	U		0.000127	0.00100	1	05/25/2022 12:26	<a href="#">WG1869041</a>
Ethylbenzene	U		0.000137	0.00100	1	05/25/2022 12:26	<a href="#">WG1869041</a>
Isopropylbenzene	U		0.000105	0.00100	1	05/25/2022 12:26	<a href="#">WG1869041</a>
Naphthalene	0.00279	<u>C3 J</u>	0.00100	0.00500	1	05/25/2022 12:26	<a href="#">WG1869041</a>
Toluene	U		0.000278	0.00100	1	05/25/2022 12:26	<a href="#">WG1869041</a>
1,2,4-Trimethylbenzene	0.000654	<u>J</u>	0.000322	0.00100	1	05/25/2022 12:26	<a href="#">WG1869041</a>
1,3,5-Trimethylbenzene	0.000128	<u>J</u>	0.000104	0.00100	1	05/25/2022 12:26	<a href="#">WG1869041</a>
Total Xylenes	0.000339	<u>J</u>	0.000174	0.00300	1	05/25/2022 12:26	<a href="#">WG1869041</a>
(S) Toluene-d8	103			80.0-120		05/25/2022 12:26	<a href="#">WG1869041</a>
(S) 4-Bromofluorobenzene	92.2			77.0-126		05/25/2022 12:26	<a href="#">WG1869041</a>
(S) 1,2-Dichloroethane-d4	94.0			70.0-130		05/25/2022 12:26	<a href="#">WG1869041</a>

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	0.967		0.254	0.888	1.11	05/25/2022 19:39	<a href="#">WG1866864</a>
(S) o-Terphenyl	73.5			50.0-150		05/25/2022 19:39	<a href="#">WG1866864</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	05/24/2022 17:51	<a href="#">WG1867707</a>
Acenaphthene	U		0.0000190	0.0000500	1	05/24/2022 17:51	<a href="#">WG1867707</a>
Acenaphthylene	U		0.0000171	0.0000500	1	05/24/2022 17:51	<a href="#">WG1867707</a>
Benzo(a)anthracene	U		0.0000203	0.0000500	1	05/24/2022 17:51	<a href="#">WG1867707</a>
Benzo(a)pyrene	U		0.0000184	0.0000500	1	05/24/2022 17:51	<a href="#">WG1867707</a>
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	05/24/2022 17:51	<a href="#">WG1867707</a>
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	1	05/24/2022 17:51	<a href="#">WG1867707</a>
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	05/24/2022 17:51	<a href="#">WG1867707</a>
Chrysene	U		0.0000179	0.0000500	1	05/24/2022 17:51	<a href="#">WG1867707</a>
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	05/24/2022 17:51	<a href="#">WG1867707</a>
Fluoranthene	U		0.0000270	0.000100	1	05/24/2022 17:51	<a href="#">WG1867707</a>
Fluorene	U		0.0000169	0.0000500	1	05/24/2022 17:51	<a href="#">WG1867707</a>
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	05/24/2022 17:51	<a href="#">WG1867707</a>
Naphthalene	U		0.0000917	0.000250	1	05/24/2022 17:51	<a href="#">WG1867707</a>
Phenanthrene	U		0.0000180	0.0000500	1	05/24/2022 17:51	<a href="#">WG1867707</a>
Pyrene	0.0000243	<u>J</u>	0.0000169	0.0000500	1	05/24/2022 17:51	<a href="#">WG1867707</a>
1-Methylnaphthalene	U		0.0000687	0.000250	1	05/24/2022 17:51	<a href="#">WG1867707</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Methylnaphthalene	U		0.0000674	0.000250	1	05/24/2022 17:51	<a href="#">WG1867707</a>
(S) Nitrobenzene-d5	80.5			31.0-160		05/24/2022 17:51	<a href="#">WG1867707</a>
(S) 2-Fluorobiphenyl	99.0			48.0-148		05/24/2022 17:51	<a href="#">WG1867707</a>
(S) p-Terphenyl-d14	106			37.0-146		05/24/2022 17:51	<a href="#">WG1867707</a>

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

## Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	78.1		0.504	3.00	1	05/26/2022 22:01	<a href="#">WG1868706</a>

## Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	0.0829	<u>B J</u>	0.0287	0.100	1	05/25/2022 08:27	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(FID)	86.3			50.0-150		05/25/2022 08:27	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(PID)	106			79.0-125		05/25/2022 08:27	<a href="#">WG1869171</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.00242		0.0000941	0.00100	1	05/25/2022 12:46	<a href="#">WG1869041</a>
n-Butylbenzene	U		0.000157	0.00100	1	05/25/2022 12:46	<a href="#">WG1869041</a>
sec-Butylbenzene	0.00160		0.000125	0.00100	1	05/25/2022 12:46	<a href="#">WG1869041</a>
tert-Butylbenzene	U		0.000127	0.00100	1	05/25/2022 12:46	<a href="#">WG1869041</a>
Ethylbenzene	0.00293		0.000137	0.00100	1	05/25/2022 12:46	<a href="#">WG1869041</a>
Isopropylbenzene	0.00258		0.000105	0.00100	1	05/25/2022 12:46	<a href="#">WG1869041</a>
Naphthalene	0.00453	<u>C3 J</u>	0.00100	0.00500	1	05/25/2022 12:46	<a href="#">WG1869041</a>
Toluene	U		0.000278	0.00100	1	05/25/2022 12:46	<a href="#">WG1869041</a>
1,2,4-Trimethylbenzene	0.00106		0.000322	0.00100	1	05/25/2022 12:46	<a href="#">WG1869041</a>
1,3,5-Trimethylbenzene	0.00192		0.000104	0.00100	1	05/25/2022 12:46	<a href="#">WG1869041</a>
Total Xylenes	0.00109	<u>J</u>	0.000174	0.00300	1	05/25/2022 12:46	<a href="#">WG1869041</a>
(S) Toluene-d8	103			80.0-120		05/25/2022 12:46	<a href="#">WG1869041</a>
(S) 4-Bromofluorobenzene	93.6			77.0-126		05/25/2022 12:46	<a href="#">WG1869041</a>
(S) 1,2-Dichloroethane-d4	94.1			70.0-130		05/25/2022 12:46	<a href="#">WG1869041</a>

## Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	0.586	<u>J</u>	0.240	0.840	1.05	05/25/2022 19:59	<a href="#">WG1866864</a>
(S) o-Terphenyl	69.8			50.0-150		05/25/2022 19:59	<a href="#">WG1866864</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	05/24/2022 18:51	<a href="#">WG1867707</a>
Acenaphthene	U		0.0000190	0.0000500	1	05/24/2022 18:51	<a href="#">WG1867707</a>
Acenaphthylene	U		0.0000171	0.0000500	1	05/24/2022 18:51	<a href="#">WG1867707</a>
Benzo(a)anthracene	U		0.0000203	0.0000500	1	05/24/2022 18:51	<a href="#">WG1867707</a>
Benzo(a)pyrene	U		0.0000184	0.0000500	1	05/24/2022 18:51	<a href="#">WG1867707</a>
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	05/24/2022 18:51	<a href="#">WG1867707</a>
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	1	05/24/2022 18:51	<a href="#">WG1867707</a>
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	05/24/2022 18:51	<a href="#">WG1867707</a>
Chrysene	U		0.0000179	0.0000500	1	05/24/2022 18:51	<a href="#">WG1867707</a>
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	05/24/2022 18:51	<a href="#">WG1867707</a>
Fluoranthene	U		0.0000270	0.000100	1	05/24/2022 18:51	<a href="#">WG1867707</a>
Fluorene	U		0.0000169	0.0000500	1	05/24/2022 18:51	<a href="#">WG1867707</a>
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	05/24/2022 18:51	<a href="#">WG1867707</a>
Naphthalene	0.00173		0.0000917	0.000250	1	05/24/2022 18:51	<a href="#">WG1867707</a>
Phenanthrene	U		0.0000180	0.0000500	1	05/24/2022 18:51	<a href="#">WG1867707</a>
Pyrene	U		0.0000169	0.0000500	1	05/24/2022 18:51	<a href="#">WG1867707</a>
1-Methylnaphthalene	0.000148	<u>J</u>	0.0000687	0.000250	1	05/24/2022 18:51	<a href="#">WG1867707</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Methylnaphthalene	U		0.0000674	0.000250	1	05/24/2022 18:51	<a href="#">WG1867707</a>
(S) Nitrobenzene-d5	87.0			31.0-160		05/24/2022 18:51	<a href="#">WG1867707</a>
(S) 2-Fluorobiphenyl	101			48.0-148		05/24/2022 18:51	<a href="#">WG1867707</a>
(S) p-Terphenyl-d14	112			37.0-146		05/24/2022 18:51	<a href="#">WG1867707</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	66.8		0.504	3.00	1	05/26/2022 22:04	<a href="#">WG1868706</a>

## Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	1.45		0.0287	0.100	1	05/25/2022 08:49	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(FID)	86.7			50.0-150		05/25/2022 08:49	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(PID)	104			79.0-125		05/25/2022 08:49	<a href="#">WG1869171</a>

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

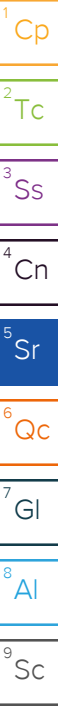
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.0462		0.0000941	0.00100	1	05/25/2022 13:05	<a href="#">WG1869041</a>
n-Butylbenzene	U		0.000157	0.00100	1	05/25/2022 13:05	<a href="#">WG1869041</a>
sec-Butylbenzene	0.00535		0.000125	0.00100	1	05/25/2022 13:05	<a href="#">WG1869041</a>
tert-Butylbenzene	U		0.000127	0.00100	1	05/25/2022 13:05	<a href="#">WG1869041</a>
Ethylbenzene	0.315		0.00137	0.0100	10	05/26/2022 16:53	<a href="#">WG1870317</a>
Isopropylbenzene	0.0270		0.000105	0.00100	1	05/25/2022 13:05	<a href="#">WG1869041</a>
Naphthalene	0.0328	<u>C3</u>	0.00100	0.00500	1	05/25/2022 13:05	<a href="#">WG1869041</a>
Toluene	0.178		0.000278	0.00100	1	05/25/2022 13:05	<a href="#">WG1869041</a>
1,2,4-Trimethylbenzene	0.0681		0.000322	0.00100	1	05/25/2022 13:05	<a href="#">WG1869041</a>
1,3,5-Trimethylbenzene	0.00399		0.000104	0.00100	1	05/25/2022 13:05	<a href="#">WG1869041</a>
Total Xylenes	0.258		0.000174	0.00300	1	05/25/2022 13:05	<a href="#">WG1869041</a>
(S) Toluene-d8	91.2			80.0-120		05/25/2022 13:05	<a href="#">WG1869041</a>
(S) Toluene-d8	98.6			80.0-120		05/26/2022 16:53	<a href="#">WG1870317</a>
(S) 4-Bromofluorobenzene	82.1			77.0-126		05/25/2022 13:05	<a href="#">WG1869041</a>
(S) 4-Bromofluorobenzene	97.4			77.0-126		05/26/2022 16:53	<a href="#">WG1870317</a>
(S) 1,2-Dichloroethane-d4	93.9			70.0-130		05/25/2022 13:05	<a href="#">WG1869041</a>
(S) 1,2-Dichloroethane-d4	94.0			70.0-130		05/26/2022 16:53	<a href="#">WG1870317</a>

## Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	1.46		0.240	0.840	1.05	05/25/2022 20:20	<a href="#">WG1866864</a>
(S) o-Terphenyl	74.8			50.0-150		05/25/2022 20:20	<a href="#">WG1866864</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	05/24/2022 21:53	<a href="#">WG1867708</a>
Acenaphthene	0.000191		0.0000190	0.0000500	1	05/24/2022 21:53	<a href="#">WG1867708</a>
Acenaphthylene	U		0.0000171	0.0000500	1	05/24/2022 21:53	<a href="#">WG1867708</a>
Benzo(a)anthracene	U		0.0000203	0.0000500	1	05/24/2022 21:53	<a href="#">WG1867708</a>
Benzo(a)pyrene	U	<u>J4</u>	0.0000184	0.0000500	1	05/24/2022 21:53	<a href="#">WG1867708</a>
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	05/24/2022 21:53	<a href="#">WG1867708</a>
Benzo(g,h,i)perylene	U	<u>J4</u>	0.0000184	0.0000500	1	05/24/2022 21:53	<a href="#">WG1867708</a>
Benzo(k)fluoranthene	U	<u>J4</u>	0.0000202	0.0000500	1	05/24/2022 21:53	<a href="#">WG1867708</a>
Chrysene	U		0.0000179	0.0000500	1	05/24/2022 21:53	<a href="#">WG1867708</a>
Dibenz(a,h)anthracene	U	<u>J4</u>	0.0000160	0.0000500	1	05/24/2022 21:53	<a href="#">WG1867708</a>
Fluoranthene	U		0.0000270	0.000100	1	05/24/2022 21:53	<a href="#">WG1867708</a>
Fluorene	0.000618		0.0000169	0.0000500	1	05/24/2022 21:53	<a href="#">WG1867708</a>
Indeno(1,2,3-cd)pyrene	U	<u>J4</u>	0.0000158	0.0000500	1	05/24/2022 21:53	<a href="#">WG1867708</a>
Naphthalene	0.0397		0.0000917	0.000250	1	05/24/2022 21:53	<a href="#">WG1867708</a>



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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Phenanthrene	0.000141		0.0000180	0.0000500	1	05/24/2022 21:53	<a href="#">WG1867708</a>
Pyrene	U		0.0000169	0.0000500	1	05/24/2022 21:53	<a href="#">WG1867708</a>
1-Methylnaphthalene	0.00837		0.0000687	0.000250	1	05/24/2022 21:53	<a href="#">WG1867708</a>
2-Methylnaphthalene	0.000789		0.0000674	0.000250	1	05/24/2022 21:53	<a href="#">WG1867708</a>
<i>(S)</i> Nitrobenzene-d5	95.8			31.0-160		05/24/2022 21:53	<a href="#">WG1867708</a>
<i>(S)</i> 2-Fluorobiphenyl	101			48.0-148		05/24/2022 21:53	<a href="#">WG1867708</a>
<i>(S)</i> p-Terphenyl-d14	112			37.0-146		05/24/2022 21:53	<a href="#">WG1867708</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	60.3		0.504	3.00	1	05/26/2022 13:14	<a href="#">WG1868675</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	30.8		0.143	0.500	5	05/25/2022 13:54	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(FID)	90.1			50.0-150		05/25/2022 13:54	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(PID)	105			79.0-125		05/25/2022 13:54	<a href="#">WG1869171</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.582		0.00941	0.100	100	05/25/2022 16:56	<a href="#">WG1869041</a>
n-Butylbenzene	U		0.0157	0.100	100	05/25/2022 16:56	<a href="#">WG1869041</a>
sec-Butylbenzene	U		0.0125	0.100	100	05/25/2022 16:56	<a href="#">WG1869041</a>
tert-Butylbenzene	U		0.0127	0.100	100	05/25/2022 16:56	<a href="#">WG1869041</a>
Ethylbenzene	3.03		0.0137	0.100	100	05/25/2022 16:56	<a href="#">WG1869041</a>
Isopropylbenzene	0.129		0.0105	0.100	100	05/25/2022 16:56	<a href="#">WG1869041</a>
Naphthalene	0.377	C3 J	0.100	0.500	100	05/25/2022 16:56	<a href="#">WG1869041</a>
Toluene	1.63		0.0278	0.100	100	05/25/2022 16:56	<a href="#">WG1869041</a>
1,2,4-Trimethylbenzene	1.53		0.0322	0.100	100	05/25/2022 16:56	<a href="#">WG1869041</a>
1,3,5-Trimethylbenzene	0.315		0.0104	0.100	100	05/25/2022 16:56	<a href="#">WG1869041</a>
Total Xylenes	9.48		0.0174	0.300	100	05/25/2022 16:56	<a href="#">WG1869041</a>
(S) Toluene-d8	102			80.0-120		05/25/2022 16:56	<a href="#">WG1869041</a>
(S) 4-Bromofluorobenzene	93.1			77.0-126		05/25/2022 16:56	<a href="#">WG1869041</a>
(S) 1,2-Dichloroethane-d4	93.0			70.0-130		05/25/2022 16:56	<a href="#">WG1869041</a>

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	7.43		0.229	0.800	1	05/23/2022 21:05	<a href="#">WG1866856</a>
(S) o-Terphenyl	77.3			50.0-150		05/23/2022 21:05	<a href="#">WG1866856</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	05/24/2022 22:11	<a href="#">WG1867708</a>
Acenaphthene	0.000297		0.0000190	0.0000500	1	05/24/2022 22:11	<a href="#">WG1867708</a>
Acenaphthylene	U		0.0000171	0.0000500	1	05/24/2022 22:11	<a href="#">WG1867708</a>
Benzo(a)anthracene	U		0.0000203	0.0000500	1	05/24/2022 22:11	<a href="#">WG1867708</a>
Benzo(a)pyrene	U	J4	0.0000184	0.0000500	1	05/24/2022 22:11	<a href="#">WG1867708</a>
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	05/24/2022 22:11	<a href="#">WG1867708</a>
Benzo(g,h,i)perylene	U	J4	0.0000184	0.0000500	1	05/24/2022 22:11	<a href="#">WG1867708</a>
Benzo(k)fluoranthene	U	J4	0.0000202	0.0000500	1	05/24/2022 22:11	<a href="#">WG1867708</a>
Chrysene	U		0.0000179	0.0000500	1	05/24/2022 22:11	<a href="#">WG1867708</a>
Dibenz(a,h)anthracene	U	J4	0.0000160	0.0000500	1	05/24/2022 22:11	<a href="#">WG1867708</a>
Fluoranthene	U		0.0000270	0.000100	1	05/24/2022 22:11	<a href="#">WG1867708</a>
Fluorene	0.000988		0.0000169	0.0000500	1	05/24/2022 22:11	<a href="#">WG1867708</a>
Indeno(1,2,3-cd)pyrene	U	J4	0.0000158	0.0000500	1	05/24/2022 22:11	<a href="#">WG1867708</a>
Naphthalene	0.241		0.000917	0.00250	10	05/26/2022 01:31	<a href="#">WG1867708</a>
Phenanthrene	0.000451		0.0000180	0.0000500	1	05/24/2022 22:11	<a href="#">WG1867708</a>
Pyrene	0.0000221	J	0.0000169	0.0000500	1	05/24/2022 22:11	<a href="#">WG1867708</a>
1-Methylnaphthalene	0.0235		0.0000687	0.000250	1	05/24/2022 22:11	<a href="#">WG1867708</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Methylnaphthalene	0.0273		0.0000674	0.000250	1	05/24/2022 22:11	<a href="#">WG1867708</a>
(S) Nitrobenzene-d5	108			31.0-160		05/24/2022 22:11	<a href="#">WG1867708</a>
(S) Nitrobenzene-d5	125			31.0-160		05/26/2022 01:31	<a href="#">WG1867708</a>
(S) 2-Fluorobiphenyl	82.1			48.0-148		05/24/2022 22:11	<a href="#">WG1867708</a>
(S) 2-Fluorobiphenyl	118			48.0-148		05/26/2022 01:31	<a href="#">WG1867708</a>
(S) p-Terphenyl-d14	90.0			37.0-146		05/24/2022 22:11	<a href="#">WG1867708</a>
(S) p-Terphenyl-d14	107			37.0-146		05/26/2022 01:31	<a href="#">WG1867708</a>

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

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	70.5		0.504	3.00	1	05/26/2022 13:22	<a href="#">WG1868675</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	4.35		0.0287	0.100	1	05/25/2022 09:10	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(FID)	85.3			50.0-150		05/25/2022 09:10	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(PID)	105			79.0-125		05/25/2022 09:10	<a href="#">WG1869171</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.00228	J	0.000471	0.00500	5	05/25/2022 17:15	<a href="#">WG1869041</a>
n-Butylbenzene	U		0.000785	0.00500	5	05/25/2022 17:15	<a href="#">WG1869041</a>
sec-Butylbenzene	U		0.000625	0.00500	5	05/25/2022 17:15	<a href="#">WG1869041</a>
tert-Butylbenzene	U		0.000635	0.00500	5	05/25/2022 17:15	<a href="#">WG1869041</a>
Ethylbenzene	0.603		0.000685	0.00500	5	05/25/2022 17:15	<a href="#">WG1869041</a>
Isopropylbenzene	0.0133		0.000525	0.00500	5	05/25/2022 17:15	<a href="#">WG1869041</a>
Naphthalene	0.0487	C3	0.00500	0.0250	5	05/25/2022 17:15	<a href="#">WG1869041</a>
Toluene	0.00417	J	0.00139	0.00500	5	05/25/2022 17:15	<a href="#">WG1869041</a>
1,2,4-Trimethylbenzene	0.241		0.00161	0.00500	5	05/25/2022 17:15	<a href="#">WG1869041</a>
1,3,5-Trimethylbenzene	0.0581		0.000520	0.00500	5	05/25/2022 17:15	<a href="#">WG1869041</a>
Total Xylenes	1.44		0.000870	0.0150	5	05/25/2022 17:15	<a href="#">WG1869041</a>
(S) Toluene-d8	100			80.0-120		05/25/2022 17:15	<a href="#">WG1869041</a>
(S) 4-Bromofluorobenzene	88.9			77.0-126		05/25/2022 17:15	<a href="#">WG1869041</a>
(S) 1,2-Dichloroethane-d4	92.4			70.0-130		05/25/2022 17:15	<a href="#">WG1869041</a>

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	5.41		0.229	0.800	1	05/24/2022 02:29	<a href="#">WG1866856</a>
(S) o-Terphenyl	74.4			50.0-150		05/24/2022 02:29	<a href="#">WG1866856</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	05/24/2022 22:29	<a href="#">WG1867708</a>
Acenaphthene	U		0.0000190	0.0000500	1	05/24/2022 22:29	<a href="#">WG1867708</a>
Acenaphthylene	U		0.0000171	0.0000500	1	05/24/2022 22:29	<a href="#">WG1867708</a>
Benzo(a)anthracene	U		0.0000203	0.0000500	1	05/24/2022 22:29	<a href="#">WG1867708</a>
Benzo(a)pyrene	U	J4	0.0000184	0.0000500	1	05/24/2022 22:29	<a href="#">WG1867708</a>
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	05/24/2022 22:29	<a href="#">WG1867708</a>
Benzo(g,h,i)perylene	U	J4	0.0000184	0.0000500	1	05/24/2022 22:29	<a href="#">WG1867708</a>
Benzo(k)fluoranthene	U	J4	0.0000202	0.0000500	1	05/24/2022 22:29	<a href="#">WG1867708</a>
Chrysene	U		0.0000179	0.0000500	1	05/24/2022 22:29	<a href="#">WG1867708</a>
Dibenz(a,h)anthracene	U	J4	0.0000160	0.0000500	1	05/24/2022 22:29	<a href="#">WG1867708</a>
Fluoranthene	U		0.0000270	0.000100	1	05/24/2022 22:29	<a href="#">WG1867708</a>
Fluorene	0.0000539		0.0000169	0.0000500	1	05/24/2022 22:29	<a href="#">WG1867708</a>
Indeno(1,2,3-cd)pyrene	U	J4	0.0000158	0.0000500	1	05/24/2022 22:29	<a href="#">WG1867708</a>
Naphthalene	0.0182		0.0000917	0.000250	1	05/24/2022 22:29	<a href="#">WG1867708</a>
Phenanthrene	U		0.0000180	0.0000500	1	05/24/2022 22:29	<a href="#">WG1867708</a>
Pyrene	U		0.0000169	0.0000500	1	05/24/2022 22:29	<a href="#">WG1867708</a>
1-Methylnaphthalene	0.00178		0.0000687	0.000250	1	05/24/2022 22:29	<a href="#">WG1867708</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Methylnaphthalene	0.000715		0.0000674	0.000250	1	05/24/2022 22:29	<a href="#">WG1867708</a>
(S) Nitrobenzene-d5	51.9			31.0-160		05/24/2022 22:29	<a href="#">WG1867708</a>
(S) 2-Fluorobiphenyl	29.1	<u>J2</u>		48.0-148		05/24/2022 22:29	<a href="#">WG1867708</a>
(S) p-Terphenyl-d14	25.6	<u>J2</u>		37.0-146		05/24/2022 22:29	<a href="#">WG1867708</a>

Sample Narrative:

L1496084-08 WG1867708: Surrogate failure due to matrix interference

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

## Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	25.5		0.504	3.00	1	05/26/2022 13:24	<a href="#">WG1868675</a>

## Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	0.127	<u>B</u>	0.0287	0.100	1	05/25/2022 09:32	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(FID)	83.4			50.0-150		05/25/2022 09:32	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(PID)	106			79.0-125		05/25/2022 09:32	<a href="#">WG1869171</a>

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

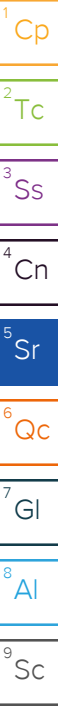
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.000133	<u>J</u>	0.0000941	0.00100	1	05/25/2022 13:24	<a href="#">WG1869041</a>
n-Butylbenzene	U		0.000157	0.00100	1	05/25/2022 13:24	<a href="#">WG1869041</a>
sec-Butylbenzene	0.00131		0.000125	0.00100	1	05/25/2022 13:24	<a href="#">WG1869041</a>
tert-Butylbenzene	U		0.000127	0.00100	1	05/25/2022 13:24	<a href="#">WG1869041</a>
Ethylbenzene	0.00490		0.000137	0.00100	1	05/25/2022 13:24	<a href="#">WG1869041</a>
Isopropylbenzene	0.00225		0.000105	0.00100	1	05/25/2022 13:24	<a href="#">WG1869041</a>
Naphthalene	0.0135	<u>C3</u>	0.00100	0.00500	1	05/25/2022 13:24	<a href="#">WG1869041</a>
Toluene	U		0.000278	0.00100	1	05/25/2022 13:24	<a href="#">WG1869041</a>
1,2,4-Trimethylbenzene	0.00149		0.000322	0.00100	1	05/25/2022 13:24	<a href="#">WG1869041</a>
1,3,5-Trimethylbenzene	0.000356	<u>J</u>	0.000104	0.00100	1	05/25/2022 13:24	<a href="#">WG1869041</a>
Total Xylenes	0.00183	<u>J</u>	0.000174	0.00300	1	05/25/2022 13:24	<a href="#">WG1869041</a>
(S) Toluene-d8	104			80.0-120		05/25/2022 13:24	<a href="#">WG1869041</a>
(S) 4-Bromofluorobenzene	93.6			77.0-126		05/25/2022 13:24	<a href="#">WG1869041</a>
(S) 1,2-Dichloroethane-d4	94.2			70.0-130		05/25/2022 13:24	<a href="#">WG1869041</a>

## Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	U		0.240	0.840	1.05	05/26/2022 18:37	<a href="#">WG1869848</a>
(S) o-Terphenyl	70.1			50.0-150		05/26/2022 18:37	<a href="#">WG1869848</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	05/24/2022 22:47	<a href="#">WG1867708</a>
Acenaphthene	U		0.0000190	0.0000500	1	05/24/2022 22:47	<a href="#">WG1867708</a>
Acenaphthylene	U		0.0000171	0.0000500	1	05/24/2022 22:47	<a href="#">WG1867708</a>
Benzo(a)anthracene	U		0.0000203	0.0000500	1	05/24/2022 22:47	<a href="#">WG1867708</a>
Benzo(a)pyrene	U	<u>J4</u>	0.0000184	0.0000500	1	05/24/2022 22:47	<a href="#">WG1867708</a>
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	05/24/2022 22:47	<a href="#">WG1867708</a>
Benzo(g,h,i)perylene	U	<u>J4</u>	0.0000184	0.0000500	1	05/24/2022 22:47	<a href="#">WG1867708</a>
Benzo(k)fluoranthene	U	<u>J4</u>	0.0000202	0.0000500	1	05/24/2022 22:47	<a href="#">WG1867708</a>
Chrysene	U		0.0000179	0.0000500	1	05/24/2022 22:47	<a href="#">WG1867708</a>
Dibenz(a,h)anthracene	U	<u>J4</u>	0.0000160	0.0000500	1	05/24/2022 22:47	<a href="#">WG1867708</a>
Fluoranthene	U		0.0000270	0.000100	1	05/24/2022 22:47	<a href="#">WG1867708</a>
Fluorene	U		0.0000169	0.0000500	1	05/24/2022 22:47	<a href="#">WG1867708</a>
Indeno(1,2,3-cd)pyrene	U	<u>J4</u>	0.0000158	0.0000500	1	05/24/2022 22:47	<a href="#">WG1867708</a>
Naphthalene	U		0.0000917	0.000250	1	05/24/2022 22:47	<a href="#">WG1867708</a>
Phenanthrene	U		0.0000180	0.0000500	1	05/24/2022 22:47	<a href="#">WG1867708</a>
Pyrene	U		0.0000169	0.0000500	1	05/24/2022 22:47	<a href="#">WG1867708</a>
1-Methylnaphthalene	U		0.0000687	0.000250	1	05/24/2022 22:47	<a href="#">WG1867708</a>





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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Methylnaphthalene	U		0.0000674	0.000250	1	05/24/2022 22:47	<a href="#">WG1867708</a>
(S) Nitrobenzene-d5	81.1			31.0-160		05/24/2022 22:47	<a href="#">WG1867708</a>
(S) 2-Fluorobiphenyl	101			48.0-148		05/24/2022 22:47	<a href="#">WG1867708</a>
(S) p-Terphenyl-d14	117			37.0-146		05/24/2022 22:47	<a href="#">WG1867708</a>

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

DUPLICATE 1

SAMPLE RESULTS - 10

Collected date/time: 05/17/22 10:53

L1496084

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	70.9		0.504	3.00	1	05/26/2022 13:27	<a href="#">WG1868675</a>

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	4.50		0.0287	0.100	1	05/25/2022 09:53	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(FID)	87.9			50.0-150		05/25/2022 09:53	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(PID)	105			79.0-125		05/25/2022 09:53	<a href="#">WG1869171</a>

3 Ss

4 Cn

5 Sr

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.00325	J	0.00235	0.0250	25	05/27/2022 12:10	<a href="#">WG1870043</a>
n-Butylbenzene	U		0.00393	0.0250	25	05/27/2022 12:10	<a href="#">WG1870043</a>
sec-Butylbenzene	U		0.00313	0.0250	25	05/27/2022 12:10	<a href="#">WG1870043</a>
tert-Butylbenzene	U		0.00318	0.0250	25	05/27/2022 12:10	<a href="#">WG1870043</a>
Ethylbenzene	0.618		0.00343	0.0250	25	05/27/2022 12:10	<a href="#">WG1870043</a>
Isopropylbenzene	0.0146	J	0.00263	0.0250	25	05/27/2022 12:10	<a href="#">WG1870043</a>
Naphthalene	0.0747	J	0.0250	0.125	25	05/27/2022 12:10	<a href="#">WG1870043</a>
Toluene	U		0.00695	0.0250	25	05/27/2022 12:10	<a href="#">WG1870043</a>
1,2,4-Trimethylbenzene	0.191		0.00805	0.0250	25	05/27/2022 12:10	<a href="#">WG1870043</a>
1,3,5-Trimethylbenzene	0.0679		0.00260	0.0250	25	05/27/2022 12:10	<a href="#">WG1870043</a>
Total Xylenes	1.50		0.00435	0.0750	25	05/27/2022 12:10	<a href="#">WG1870043</a>
(S) Toluene-d8	105			80.0-120		05/27/2022 12:10	<a href="#">WG1870043</a>
(S) 4-Bromofluorobenzene	108			77.0-126		05/27/2022 12:10	<a href="#">WG1870043</a>
(S) 1,2-Dichloroethane-d4	96.6			70.0-130		05/27/2022 12:10	<a href="#">WG1870043</a>

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	7.44		0.240	0.840	1.05	05/26/2022 18:57	<a href="#">WG1869848</a>
(S) o-Terphenyl	91.8			50.0-150		05/26/2022 18:57	<a href="#">WG1869848</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	05/24/2022 23:04	<a href="#">WG1867708</a>
Acenaphthene	U		0.0000190	0.0000500	1	05/24/2022 23:04	<a href="#">WG1867708</a>
Acenaphthylene	U		0.0000171	0.0000500	1	05/24/2022 23:04	<a href="#">WG1867708</a>
Benzo(a)anthracene	U		0.0000203	0.0000500	1	05/24/2022 23:04	<a href="#">WG1867708</a>
Benzo(a)pyrene	U	J4	0.0000184	0.0000500	1	05/24/2022 23:04	<a href="#">WG1867708</a>
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	05/24/2022 23:04	<a href="#">WG1867708</a>
Benzo(g,h,i)perylene	U	J4	0.0000184	0.0000500	1	05/24/2022 23:04	<a href="#">WG1867708</a>
Benzo(k)fluoranthene	U	J4	0.0000202	0.0000500	1	05/24/2022 23:04	<a href="#">WG1867708</a>
Chrysene	U		0.0000179	0.0000500	1	05/24/2022 23:04	<a href="#">WG1867708</a>
Dibenz(a,h)anthracene	U	J4	0.0000160	0.0000500	1	05/24/2022 23:04	<a href="#">WG1867708</a>
Fluoranthene	U		0.0000270	0.000100	1	05/24/2022 23:04	<a href="#">WG1867708</a>
Fluorene	0.000101		0.0000169	0.0000500	1	05/24/2022 23:04	<a href="#">WG1867708</a>
Indeno(1,2,3-cd)pyrene	U	J4	0.0000158	0.0000500	1	05/24/2022 23:04	<a href="#">WG1867708</a>
Naphthalene	0.0269		0.0000917	0.000250	1	05/24/2022 23:04	<a href="#">WG1867708</a>
Phenanthrene	U		0.0000180	0.0000500	1	05/24/2022 23:04	<a href="#">WG1867708</a>
Pyrene	U		0.0000169	0.0000500	1	05/24/2022 23:04	<a href="#">WG1867708</a>
1-Methylnaphthalene	0.00315		0.0000687	0.000250	1	05/24/2022 23:04	<a href="#">WG1867708</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Methylnaphthalene	0.00162		0.0000674	0.000250	1	05/24/2022 23:04	<a href="#">WG1867708</a>
(S) Nitrobenzene-d5	60.5			31.0-160		05/24/2022 23:04	<a href="#">WG1867708</a>
(S) 2-Fluorobiphenyl	42.9	<a href="#">J2</a>		48.0-148		05/24/2022 23:04	<a href="#">WG1867708</a>
(S) p-Terphenyl-d14	43.2			37.0-146		05/24/2022 23:04	<a href="#">WG1867708</a>

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

DUPLICATE 2

SAMPLE RESULTS - 11

Collected date/time: 05/17/22 13:31

L1496084

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	25.8		0.504	3.00	1	05/26/2022 13:30	<a href="#">WG1868675</a>

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

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	0.133	<u>B</u>	0.0287	0.100	1	05/25/2022 10:15	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(FID)	87.4			50.0-150		05/25/2022 10:15	<a href="#">WG1869171</a>
(S) a,a,a-Trifluorotoluene(PID)	106			79.0-125		05/25/2022 10:15	<a href="#">WG1869171</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	05/25/2022 14:03	<a href="#">WG1869041</a>
n-Butylbenzene	0.000658	<u>J</u>	0.000157	0.00100	1	05/25/2022 14:03	<a href="#">WG1869041</a>
sec-Butylbenzene	0.00120		0.000125	0.00100	1	05/25/2022 14:03	<a href="#">WG1869041</a>
tert-Butylbenzene	U		0.000127	0.00100	1	05/25/2022 14:03	<a href="#">WG1869041</a>
Ethylbenzene	0.00432		0.000137	0.00100	1	05/26/2022 15:55	<a href="#">WG1870317</a>
Isopropylbenzene	0.00213		0.000105	0.00100	1	05/25/2022 14:03	<a href="#">WG1869041</a>
Naphthalene	0.0196	<u>C3</u>	0.00100	0.00500	1	05/25/2022 14:03	<a href="#">WG1869041</a>
Toluene	U		0.000278	0.00100	1	05/25/2022 14:03	<a href="#">WG1869041</a>
1,2,4-Trimethylbenzene	0.00103		0.000322	0.00100	1	05/26/2022 15:55	<a href="#">WG1870317</a>
1,3,5-Trimethylbenzene	0.000547	<u>J</u>	0.000104	0.00100	1	05/25/2022 14:03	<a href="#">WG1869041</a>
Total Xylenes	0.00122	<u>J</u>	0.000174	0.00300	1	05/26/2022 15:55	<a href="#">WG1870317</a>
(S) Toluene-d8	103			80.0-120		05/25/2022 14:03	<a href="#">WG1869041</a>
(S) Toluene-d8	102			80.0-120		05/26/2022 15:55	<a href="#">WG1870317</a>
(S) 4-Bromofluorobenzene	93.8			77.0-126		05/25/2022 14:03	<a href="#">WG1869041</a>
(S) 4-Bromofluorobenzene	93.6			77.0-126		05/26/2022 15:55	<a href="#">WG1870317</a>
(S) 1,2-Dichloroethane-d4	92.9			70.0-130		05/25/2022 14:03	<a href="#">WG1869041</a>
(S) 1,2-Dichloroethane-d4	96.3			70.0-130		05/26/2022 15:55	<a href="#">WG1870317</a>

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	U		0.229	0.800	1	05/26/2022 19:18	<a href="#">WG1869848</a>
(S) o-Terphenyl	71.8			50.0-150		05/26/2022 19:18	<a href="#">WG1869848</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	05/24/2022 23:22	<a href="#">WG1867708</a>
Acenaphthene	U		0.0000190	0.0000500	1	05/24/2022 23:22	<a href="#">WG1867708</a>
Acenaphthylene	U		0.0000171	0.0000500	1	05/24/2022 23:22	<a href="#">WG1867708</a>
Benzo(a)anthracene	U		0.0000203	0.0000500	1	05/24/2022 23:22	<a href="#">WG1867708</a>
Benzo(a)pyrene	U	<u>J4</u>	0.0000184	0.0000500	1	05/24/2022 23:22	<a href="#">WG1867708</a>
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	05/24/2022 23:22	<a href="#">WG1867708</a>
Benzo(g,h,i)perylene	U	<u>J4</u>	0.0000184	0.0000500	1	05/24/2022 23:22	<a href="#">WG1867708</a>
Benzo(k)fluoranthene	U	<u>J4</u>	0.0000202	0.0000500	1	05/24/2022 23:22	<a href="#">WG1867708</a>
Chrysene	U		0.0000179	0.0000500	1	05/24/2022 23:22	<a href="#">WG1867708</a>
Dibenz(a,h)anthracene	U	<u>J4</u>	0.0000160	0.0000500	1	05/24/2022 23:22	<a href="#">WG1867708</a>
Fluoranthene	U		0.0000270	0.000100	1	05/24/2022 23:22	<a href="#">WG1867708</a>
Fluorene	0.0000199	<u>J</u>	0.0000169	0.0000500	1	05/24/2022 23:22	<a href="#">WG1867708</a>
Indeno(1,2,3-cd)pyrene	U	<u>J4</u>	0.0000158	0.0000500	1	05/24/2022 23:22	<a href="#">WG1867708</a>
Naphthalene	0.000327		0.0000917	0.000250	1	05/24/2022 23:22	<a href="#">WG1867708</a>

DUPLICATE 2

SAMPLE RESULTS - 11

Collected date/time: 05/17/22 13:31

L1496084

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Phenanthrene	U		0.0000180	0.0000500	1	05/24/2022 23:22	<a href="#">WG1867708</a>
Pyrene	U		0.0000169	0.0000500	1	05/24/2022 23:22	<a href="#">WG1867708</a>
1-Methylnaphthalene	0.000497		0.0000687	0.000250	1	05/24/2022 23:22	<a href="#">WG1867708</a>
2-Methylnaphthalene	U		0.0000674	0.000250	1	05/24/2022 23:22	<a href="#">WG1867708</a>
<i>(S)</i> Nitrobenzene-d5	79.5			31.0-160		05/24/2022 23:22	<a href="#">WG1867708</a>
<i>(S)</i> 2-Fluorobiphenyl	95.3			48.0-148		05/24/2022 23:22	<a href="#">WG1867708</a>
<i>(S)</i> p-Terphenyl-d14	110			37.0-146		05/24/2022 23:22	<a href="#">WG1867708</a>

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

Method Blank (MB)

(MB) R3796436-1 05/26/22 12:51

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Sodium	U		0.504	3.00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R3796436-2 05/26/22 12:53

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Sodium	10.0	10.3	103	80.0-120	

L1496887-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1496887-02 05/26/22 12:56 • (MS) R3796436-4 05/26/22 13:01 • (MSD) R3796436-5 05/26/22 13:04

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Sodium	10.0	6.15	16.1	16.1	100	99.8	1	75.0-125			0.144	20

7 Gl

8 Al

L1496887-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1496887-03 05/26/22 13:06 • (MS) R3796436-6 05/26/22 13:09 • (MSD) R3796436-7 05/26/22 13:11

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Sodium	10.0	15.1	24.8	25.2	96.7	101	1	75.0-125			1.63	20

9 Sc

Method Blank (MB)

(MB) R3796707-1 05/26/22 21:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Sodium	U		0.504	3.00

1 Cp

2 Tc

3 Ss

Laboratory Control Sample (LCS)

(LCS) R3796707-2 05/26/22 21:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sodium	10.0	10.3	103	80.0-120	

4 Cn

5 Sr

L1496391-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1496391-05 05/26/22 21:32 • (MS) R3796707-4 05/26/22 21:38 • (MSD) R3796707-5 05/26/22 21:41

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sodium	10.0	18.0	27.6	27.9	96.1	99.6	1	75.0-125			1.25	20

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3795977-2 05/25/22 05:50

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPHGAK C6 to C10	0.0376	↓	0.0287	0.100
(S) a,a,a-Trifluorotoluene(FID)	88.0			60.0-120
(S) a,a,a-Trifluorotoluene(PID)	105			79.0-125

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

(LCS) R3795977-1 05/25/22 04:58 • (LCSD) R3795977-3 05/25/22 14:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	5.00	4.34	3.94	86.8	78.8	60.0-120			9.66	20
(S) a,a,a-Trifluorotoluene(FID)				95.4	102	60.0-120				
(S) a,a,a-Trifluorotoluene(PID)				122	123	79.0-125				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3796243-2 05/25/22 11:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL 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
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	106			80.0-120
(S) 4-Bromofluorobenzene	91.0			77.0-126
(S) 1,2-Dichloroethane-d4	95.4			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3796243-1 05/25/22 10:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00497	99.4	70.0-123	
n-Butylbenzene	0.00500	0.00559	112	73.0-125	
sec-Butylbenzene	0.00500	0.00524	105	75.0-125	
tert-Butylbenzene	0.00500	0.00504	101	76.0-124	
Ethylbenzene	0.00500	0.00488	97.6	79.0-123	
Isopropylbenzene	0.00500	0.00468	93.6	76.0-127	
Naphthalene	0.00500	0.00317	63.4	54.0-135	
Toluene	0.00500	0.00494	98.8	79.0-120	
1,2,4-Trimethylbenzene	0.00500	0.00524	105	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00473	94.6	76.0-122	
Xylenes, Total	0.0150	0.0141	94.0	79.0-123	
(S) Toluene-d8			102	80.0-120	
(S) 4-Bromofluorobenzene			93.9	77.0-126	
(S) 1,2-Dichloroethane-d4			96.4	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3797148-3 05/27/22 11:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL 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
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	118			80.0-120
(S) 4-Bromofluorobenzene	118			77.0-126
(S) 1,2-Dichloroethane-d4	98.9			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

(LCS) R3797148-1 05/27/22 09:58 • (LCSD) R3797148-2 05/27/22 10:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00590	0.00595	118	119	70.0-123			0.844	20
n-Butylbenzene	0.00500	0.00440	0.00449	88.0	89.8	73.0-125			2.02	20
sec-Butylbenzene	0.00500	0.00485	0.00486	97.0	97.2	75.0-125			0.206	20
tert-Butylbenzene	0.00500	0.00509	0.00528	102	106	76.0-124			3.66	20
Ethylbenzene	0.00500	0.00518	0.00527	104	105	79.0-123			1.72	20
Isopropylbenzene	0.00500	0.00526	0.00526	105	105	76.0-127			0.000	20
Naphthalene	0.00500	0.00452	0.00438	90.4	87.6	54.0-135			3.15	20
Toluene	0.00500	0.00569	0.00588	114	118	79.0-120			3.28	20
1,2,4-Trimethylbenzene	0.00500	0.00462	0.00466	92.4	93.2	76.0-121			0.862	20
1,3,5-Trimethylbenzene	0.00500	0.00512	0.00533	102	107	76.0-122			4.02	20
Xylenes, Total	0.0150	0.0163	0.0163	109	109	79.0-123			0.000	20
(S) Toluene-d8				104	103	80.0-120				
(S) 4-Bromofluorobenzene				99.9	100	77.0-126				
(S) 1,2-Dichloroethane-d4				95.4	94.0	70.0-130				

Method Blank (MB)

(MB) R3796794-2 05/26/22 13:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ethylbenzene	U		0.000137	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
Xylenes, Total	U		0.000174	0.00300
<i>(S) Toluene-d8</i>	106			80.0-120
<i>(S) 4-Bromofluorobenzene</i>	94.4			77.0-126
<i>(S) 1,2-Dichloroethane-d4</i>	94.3			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3796794-1 05/26/22 12:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00460	92.0	79.0-123	
1,2,4-Trimethylbenzene	0.00500	0.00495	99.0	76.0-121	
Xylenes, Total	0.0150	0.0132	88.0	79.0-123	
<i>(S) Toluene-d8</i>			101	80.0-120	
<i>(S) 4-Bromofluorobenzene</i>			92.3	77.0-126	
<i>(S) 1,2-Dichloroethane-d4</i>			94.9	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3795206-1 05/23/22 11:36

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
AK102 DRO C10-C25	U		0.229	0.800
(S) o-Terphenyl	74.9			60.0-120

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

(LCS) R3795206-2 05/23/22 11:56 • (LCSD) R3795206-3 05/23/22 12:16

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
AK102 DRO C10-C25	6.00	5.30	5.18	88.3	86.3	75.0-125			2.29	20
(S) o-Terphenyl				99.8	99.6	60.0-120				

L1492169-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1492169-01 05/23/22 13:17 • (MS) R3795206-6 05/23/22 13:38 • (MSD) R3795206-7 05/23/22 13:59

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
AK102 DRO C10-C25	6.32	U	5.58	5.16	88.3	81.6	1.05	75.0-125			7.82	20
(S) o-Terphenyl					98.7	96.1		50.0-150				

Sample Narrative:

OS: Dilution due to sample volume.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3796308-1 05/25/22 13:14

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
AK102 DRO C10-C25	U		0.229	0.800
<i>(S) o-Terphenyl</i>	66.0			60.0-120

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

(LCS) R3796308-2 05/25/22 13:34 • (LCSD) R3796308-3 05/25/22 13:54

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
AK102 DRO C10-C25	6.00	5.66	4.70	94.3	78.3	75.0-125			18.5	20
<i>(S) o-Terphenyl</i>				100	57.2	60.0-120		J2		

L1493354-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1493354-04 05/25/22 15:15 • (MS) R3796308-4 05/25/22 15:36 • (MSD) R3796308-5 05/25/22 15:56

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
AK102 DRO C10-C25	6.66	0.370	6.29	6.29	88.9	88.9	1.11	75.0-125			0.000	20
<i>(S) o-Terphenyl</i>					63.7	62.3		50.0-150				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3796850-1 05/26/22 17:36

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
AK102 DRO C10-C25	U		0.229	0.800
<i>(S) o-Terphenyl</i>	87.0			60.0-120

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

(LCS) R3796850-2 05/26/22 17:57 • (LCSD) R3796850-3 05/26/22 18:17

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
AK102 DRO C10-C25	6.00	6.51	6.08	109	101	75.0-125			6.83	20
<i>(S) o-Terphenyl</i>				103	97.0	60.0-120				

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

Method Blank (MB)

(MB) R3795546-2 05/24/22 11:52

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Anthracene	U		0.0000190	0.0000500
Acenaphthene	U		0.0000190	0.0000500
Acenaphthylene	U		0.0000171	0.0000500
Benzo(a)anthracene	U		0.0000203	0.0000500
Benzo(a)pyrene	U		0.0000184	0.0000500
Benzo(b)fluoranthene	U		0.0000168	0.0000500
Benzo(g,h,i)perylene	U		0.0000184	0.0000500
Benzo(k)fluoranthene	U		0.0000202	0.0000500
Chrysene	U		0.0000179	0.0000500
Dibenz(a,h)anthracene	U		0.0000160	0.0000500
Fluoranthene	U		0.0000270	0.000100
Fluorene	U		0.0000169	0.0000500
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500
Naphthalene	U		0.0000917	0.000250
Phenanthrene	U		0.0000180	0.0000500
Pyrene	U		0.0000169	0.0000500
1-Methylnaphthalene	U		0.0000687	0.000250
2-Methylnaphthalene	U		0.0000674	0.000250
(S) Nitrobenzene-d5	95.5			31.0-160
(S) 2-Fluorobiphenyl	117			48.0-148
(S) p-Terphenyl-d14	134			37.0-146

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3795546-1 05/24/22 11:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.00200	0.00186	93.0	67.0-150	
Acenaphthene	0.00200	0.00192	96.0	65.0-138	
Acenaphthylene	0.00200	0.00192	96.0	66.0-140	
Benzo(a)anthracene	0.00200	0.00180	90.0	61.0-140	
Benzo(a)pyrene	0.00200	0.00179	89.5	60.0-143	
Benzo(b)fluoranthene	0.00200	0.00187	93.5	58.0-141	
Benzo(g,h,i)perylene	0.00200	0.00175	87.5	52.0-153	
Benzo(k)fluoranthene	0.00200	0.00177	88.5	58.0-148	
Chrysene	0.00200	0.00189	94.5	64.0-144	
Dibenz(a,h)anthracene	0.00200	0.00171	85.5	52.0-155	
Fluoranthene	0.00200	0.00192	96.0	69.0-153	
Fluorene	0.00200	0.00195	97.5	64.0-136	

Laboratory Control Sample (LCS)

(LCS) R3795546-1 05/24/22 11:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Indeno(1,2,3-cd)pyrene	0.00200	0.00166	83.0	54.0-153	
Naphthalene	0.00200	0.00194	97.0	61.0-137	
Phenanthrene	0.00200	0.00192	96.0	62.0-137	
Pyrene	0.00200	0.00192	96.0	60.0-142	
1-Methylnaphthalene	0.00200	0.00201	100	66.0-142	
2-Methylnaphthalene	0.00200	0.00186	93.0	62.0-136	
<i>(S) Nitrobenzene-d5</i>			80.5	31.0-160	
<i>(S) 2-Fluorobiphenyl</i>			96.5	48.0-148	
<i>(S) p-Terphenyl-d14</i>			108	37.0-146	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3795556-3 05/24/22 14:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Anthracene	U		0.0000190	0.0000500
Acenaphthene	U		0.0000190	0.0000500
Acenaphthylene	U		0.0000171	0.0000500
Benzo(a)anthracene	U		0.0000203	0.0000500
Benzo(a)pyrene	U		0.0000184	0.0000500
Benzo(b)fluoranthene	U		0.0000168	0.0000500
Benzo(g,h,i)perylene	U		0.0000184	0.0000500
Benzo(k)fluoranthene	U		0.0000202	0.0000500
Chrysene	U		0.0000179	0.0000500
Dibenz(a,h)anthracene	U		0.0000160	0.0000500
Fluoranthene	U		0.0000270	0.000100
Fluorene	U		0.0000169	0.0000500
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500
Naphthalene	U		0.0000917	0.000250
Phenanthrene	U		0.0000180	0.0000500
Pyrene	U		0.0000169	0.0000500
1-Methylnaphthalene	U		0.0000687	0.000250
2-Methylnaphthalene	U		0.0000674	0.000250
<i>(S) Nitrobenzene-d5</i>	88.5			31.0-160
<i>(S) 2-Fluorobiphenyl</i>	104			48.0-148
<i>(S) p-Terphenyl-d14</i>	112			37.0-146

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

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

(LCS) R3795556-1 05/24/22 13:49 • (LCSD) R3795556-2 05/24/22 14:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	0.00200	0.00202	0.00211	101	105	67.0-150			4.36	20
Acenaphthene	0.00200	0.00204	0.00211	102	105	65.0-138			3.37	20
Acenaphthylene	0.00200	0.00216	0.00223	108	111	66.0-140			3.19	20
Benzo(a)anthracene	0.00200	0.00150	0.00173	75.0	86.5	61.0-140			14.2	20
Benzo(a)pyrene	0.00200	0.00106	0.00122	53.0	61.0	60.0-143	J4		14.0	20
Benzo(b)fluoranthene	0.00200	0.00116	0.00136	58.0	68.0	58.0-141			15.9	20
Benzo(g,h,i)perylene	0.00200	0.000851	0.000997	42.5	49.8	52.0-153	J4	J4	15.8	20
Benzo(k)fluoranthene	0.00200	0.000995	0.00115	49.7	57.5	58.0-148	J4	J4	14.5	20
Chrysene	0.00200	0.00144	0.00167	72.0	83.5	64.0-144			14.8	20
Dibenz(a,h)anthracene	0.00200	0.000798	0.000933	39.9	46.6	52.0-155	J4	J4	15.6	20
Fluoranthene	0.00200	0.00191	0.00208	95.5	104	69.0-153			8.52	20
Fluorene	0.00200	0.00210	0.00217	105	108	64.0-136			3.28	20

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

(LCS) R3795556-1 05/24/22 13:49 • (LCSD) R3795556-2 05/24/22 14:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Indeno(1,2,3-cd)pyrene	0.00200	0.000844	0.000988	42.2	49.4	54.0-153	J4	J4	15.7	20
Naphthalene	0.00200	0.00210	0.00214	105	107	61.0-137			1.89	20
Phenanthrene	0.00200	0.00201	0.00212	100	106	62.0-137			5.33	20
Pyrene	0.00200	0.00192	0.00207	96.0	104	60.0-142			7.52	20
1-Methylnaphthalene	0.00200	0.00211	0.00221	105	111	66.0-142			4.63	20
2-Methylnaphthalene	0.00200	0.00203	0.00210	102	105	62.0-136			3.39	20
(S) Nitrobenzene-d5				93.0	82.0	31.0-160				
(S) 2-Fluorobiphenyl				101	103	48.0-148				
(S) p-Terphenyl-d14				80.5	90.0	37.0-146				

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

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

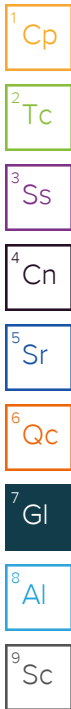
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

### Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J4	The associated batch QC was outside the established quality control range for accuracy.



# ACCREDITATIONS & LOCATIONS

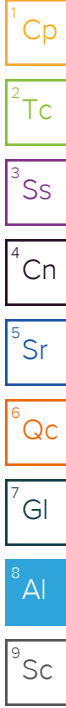
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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 <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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


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



Company Name/Address:  
**Stantec - Anchorage, AK - Speedway**  
 725 E Fireweed Lane  
 Suite 200  
 Anchorage, AK 99503

Billing Information:  
 Accounts Payable  
 PO Box 1510  
 Springfield, OH 45501

Pres Chk	Analysis / Container / Preservative									
X	X	X	X	✓						

Chain of Custody Page \_\_\_ of \_\_\_  
  
 PEOPLE ADVANCING SCIENCE  
 MT JULIET, TN

Report to:  
**Ms. Leslie Petre**

Email To: [craig.cothron@pacelabs.com](mailto:craig.cothron@pacelabs.com)

Project Description:  
**Speedway 5315 TNS 111**

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

Please Circle:  
 PT MT CT ET

Phone: **907-266-1108**

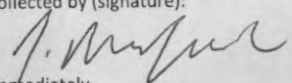
Client Project #

Lab Project #  
**STAAAKSSA-5315**

Collected by (print):  
**Remis Malenfant**

Site/Facility ID #  
**0005315**

P.O. #  
**185705774**

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

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

Quote #  
 Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
-----------	-----------	----------	-------	------	------	--------------

AK101 40ml/Amb HCl	AK102 100ml Amb HCl	NAICP 250mlHDPE-HNO3	PAHSIMLVID 40ml/Amb-NoPres-WT	V8260C 40ml/Amb-HCl
X	X	X	X	X

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

SDG # **1496084**  
**H216**

Acctnum: **STAAAKSSA**  
 Template: **T175450**  
 Prelogin: **P916289**  
 PM: **034 - Craig Cothron**  
 PB: **4/6/22**

Shipped Via: **FedEX 2nd Day**

Remarks | Sample # (lab only)

MW-10	G	GW		5/17	1008	11	X	X	X	X	X								
MW-11		GW		5/17	1021	11	X	X	X	X	X								Extra PAH - 03
MW-12		GW		5/17	1517	11	X	X	X	X	X								- 02
<del>MW-13</del>		GW		5/17		11	X	X	X	X	X								NS
MW-16		GW		5/17	1306	11	X	X	X	X	X								- 04
G-1		GW		5/17	1421	11	X	X	X	X	X								- 05
G-5		GW		5/17	0920	11	X	X	X	X	X								- 06
MW-17-1		GW		5/17	1439	11	X	X	X	X	X								- 07
MW-17-2		GW		5/17	1053	11	X	X	X	X	X								- 08
<del>RW-1</del>		GW		5/17		11	X	X	X	X	X								NS

\* Matrix:  
 SS - Spoil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

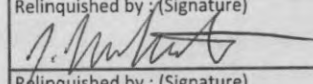
Remarks:  
**MW-11: one PAH container chipped on rim, extra included. RW-1 and MW-13 not collected**

Samples returned via: \_\_\_ UPS \_\_\_ FedEx \_\_\_ Courier  
 Tracking #

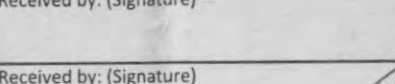
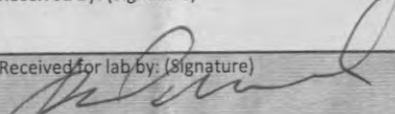
pH \_\_\_ Temp \_\_\_  
 Flow \_\_\_ Other \_\_\_

Sample Receipt Checklist

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

Relinquished by: (Signature)  
  
 Relinquished by: (Signature)  
 Relinquished by: (Signature)

Date: **5/17**  
 Time: **1700**

Received by: (Signature)  
  
 Received by: (Signature)  
 Received for lab by: (Signature)  


Trip Blank Received: **2** Yes/No  
 MeOH TBR  
 Temp: **54** °C  
 Bottles Received: **132**  
 Date: **5/19/22** Time: **0930**

If preservation required by Login: Date/Time  
 Hold: Condition: **NCF 10X**

Company Name/Address:  
**Stantec - Anchorage, AK - Speedway**  
 725 E Fireweed Lane  
 Suite 200  
 Anchorage, AK 99503

Billing Information:  
 Accounts Payable  
 PO Box 1510  
 Springfield, OH 45501

Pres Chk	Analysis / Container / Preservative									
X	X	X	X	X						

Chain of Custody Page     of    



**MT JULIET, TN**

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

Report to:  
**Ms. Leslie Petre**

Email To: [craig.cothron@pacelabs.com](mailto:craig.cothron@pacelabs.com)

Project Description:  
**Speedway 5315 TNS 111**

City/State Collected: **Fairbanks / AK**

Please Circle:  
 PT MT CT ET

Phone: **907-266-1108**

Client Project #

Lab Project #  
**STAAAKSSA-5315**

Collected by (print):  
**Remi Malenfant**

Site/Facility ID #  
**0005315**

P.O. #  
**185705774**

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

**Rush?** (Lab MUST Be Notified)  
 \_\_\_ Same Day \_\_\_ Five Day  
 \_\_\_ Next Day \_\_\_ 5 Day (Rad Only)  
 \_\_\_ Two Day \_\_\_ 10 Day (Rad Only)  
 \_\_\_ Three Day

Quote #  
 Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
-----------	-----------	----------	-------	------	------	--------------

AK101 40mlAmb HCl	AK102 100ml Amb HCl	NAICP 250mlHDPE-HNO3	PAHSIMLVID 40mlAmb-NoPres-WT	V8260C 40mlAmb-HCl						
-------------------	---------------------	----------------------	------------------------------	--------------------	--	--	--	--	--	--

RW-2	a	GW		5/17	1331	11	X	X	X	X	X									
DUPLICATE 1	G	GW		5/17	1053	11	X	X	X	X	X									
DUPLICATE 2	G	GW		5/17	1331	11	X	X	X	X	X									

SDG # **149084**  
 Table #  
 Acctnum: **STAAAKSSA**  
 Template: **T175450**  
 Prelogin: **P916289**  
 PM: **034 - Craig Cothron**  
 PB: **CS 4/6/22**  
 Shipped Via: **FedEX 2nd Day**

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

Remarks:  
 pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_  
 Samples returned via:  
 \_\_\_ UPS \_\_\_ FedEx \_\_\_ Courier \_\_\_\_\_  
 Tracking # \_\_\_\_\_

Sample Receipt Checklist	
COC Seal Present/Intact:	NP <input checked="" type="checkbox"/> N <input type="checkbox"/>
COC Signed/Accurate:	<input checked="" type="checkbox"/> N <input type="checkbox"/>
Bottles arrive intact:	<input checked="" type="checkbox"/> N <input type="checkbox"/>
Correct bottles used:	<input checked="" type="checkbox"/> N <input type="checkbox"/>
Sufficient volume sent:	<input checked="" type="checkbox"/> N <input type="checkbox"/>
<i>If Applicable</i>	
VOA Zero Headspace:	<input checked="" type="checkbox"/> N <input type="checkbox"/>
Preservation Correct/Checked:	<input checked="" type="checkbox"/> N <input type="checkbox"/>
RAD Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> N <input type="checkbox"/>

Relinquished by: (Signature)

Date: **5/17**

Time: **1700**

Received by: (Signature)

Trip Blank Received: **2** Yes/No  
 HCl / MeOH  
 TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: **5.7** °C Bottles Received: **132**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: **5/19/22** Time: **0930**

Hold: Condition: **NCF (OK)**

## Laboratory Data Review Checklist

Completed By:

Jeremiah Malenfant

Title:

Geologist-In-Training

Date:

6/14/2022

Consultant Firm:

Stantec Consulting Services Inc.

Laboratory Name:

Pace Analytical

Laboratory Report Number:

L1496084

Laboratory Report Date:

5/19/2022

CS Site Name:

Speedway Store #5315 (Former TNS 111)

ADEC File Number:

100.26.026

Hazard Identification Number:

24247

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

1. Laboratory

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

Yes  No  N/A  Comments:

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  No  N/A  Comments:

b. Correct analyses requested?

Yes  No  N/A  Comments:

3. Laboratory Sample Receipt Documentation

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

Yes  No  N/A  Comments:

5.4 °C

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

Yes  No  N/A  Comments:



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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  No  N/A  Comments:

One extra vial included for method 8270D due to a chipped rim on one VOA vial.

e. Data quality or usability affected?

Comments:

No.

4. Case Narrative

a. Present and understandable?

Yes  No  N/A  Comments:

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

Yes  No  N/A  Comments:

Case narrative documents no errors or discrepancies “unless qualified or notated within report”

c. Were all corrective actions documented?

Yes  No  N/A  Comments:

Dilutions noted in body of report.

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

Comments:

No effect on data quality/usability.

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5. Samples Results

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

Yes  No  N/A  Comments:

b. All applicable holding times met?

Yes  No  N/A  Comments:

PAHs extracted at 7 days

c. All soils reported on a dry weight basis?

Yes  No  N/A  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  No  N/A  Comments:

e. Data quality or usability affected?

No.

6. QC Samples

a. Method Blank

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

Yes  No  N/A  Comments:

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

Yes  No  N/A  Comments:

Method blank for GRO by AK101 detected at 0.0376 mg/L; above MDL but below RDL.

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

Comments:

MW-10, MW-16, G-1, RW-2, DUP2

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

Yes  No  N/A  Comments:

v. Data quality or usability affected?

Comments:

No; All affected samples well below GCLs.

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

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

Yes  No  N/A  Comments:

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

Yes  No  N/A  Comments:

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

Yes  No  N/A  Comments:

Benzo(a)pyrene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene had recoveries below limits.

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

Yes  No  N/A  Comments:

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

Comments:

MW-10, MW-11

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; none of the affected analytes are typically reported.

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:

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

Yes  No  N/A  Comments:

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- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes  No  N/A  Comments:

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

Comments:

No affected samples.

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

Yes  No  N/A  Comments:

No affected samples.

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

Comments:

No.

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

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

Yes  No  N/A  Comments:

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.

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iv. Data quality or usability affected?

Comments:

No affected samples.

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:

No trip blanks included.

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:

No trip blanks included.

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

Yes  No  N/A  Comments:

No trip blanks included.

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

Comments:

No affected samples.

v. Data quality or usability affected?

Comments:

No.

f. Field Duplicate

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

Yes  No  N/A  Comments:

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ii. Submitted blind to lab?

Yes  No  N/A  Comments:

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

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

Where  $R_1$  = Sample Concentration  
 $R_2$  = Field Duplicate Concentration

Yes  No  N/A  Comments:

Benzene, DRO, and naphthalene in DUP1 and xylenes, 1,2,4-TMB, and 1,3,5-TMB in DUP2 exceeded precision tolerance.

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

Comments:

No; All affected analytes in DUP2, as well as benzene in DUP1 are well below the GCL, and DRO and naphthalene in DUP1 well above the GCL.

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

Yes  No  N/A  Comments:

All disposable equipment.

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

Yes  No  N/A  Comments:

All disposable equipment.

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

Comments:

None.

iii. Data quality or usability affected?

Comments:

No.

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

a. Defined and appropriate?

Yes  No  N/A

Comments: