



Stantec Consulting Services Inc.  
725 East Fireweed Lane Suite 200, Anchorage AK 99503-224

December 7, 2021

Stantec Project Number: 185705364

Anastasia Duarte, REHS/RS  
Environmental Representative  
Speedway LLC  
18336 Aurora Avenue North, Suite 105, #65028  
Shoreline, Washington 981330-9996

RE: ***2022 Corrective Action Work Plan***

***Speedway Store 5313 (formerly Tesoro 2 Go Mart 111)***  
3679 College Road, Fairbanks, Alaska  
ADEC Facility ID #11112; ADEC Hazard #24247; ADEC File #100.26.026

Dear Ms. Duarte:

This letter presents the proposed work plan tasks for the 2022 (calendar year) Corrective Action Plan (CAP) pertaining to the investigation and remediation of contamination at the above referenced site. This 2022 CAP will be presented at the annual work session with the Alaska Department of Environmental Conservation (ADEC), Speedway LLC and Stantec Consulting Services Inc. (Stantec). The work session is scheduled for December 7, 2021, and will be presented by Stantec to Pete Campbell, ADEC representative, in person or via Microsoft Teams app.

Attached to this letter are the project site plans and analytical test results for samples collected during the completion of the 2021 CAP tasks. The site plans, sampling test results and additional site documents for the subject site will be included in the presentation of the December 7 work session.

The following sections provide a summary of the work plan tasks that were completed under the current 2021 CAP and the proposed work plan tasks for the 2022 CAP.

***2021 Work Plan Tasks***

- *Task 1 – Groundwater Monitoring*  
This task was completed in accordance with the approved 2021 CAP.
- *Task 2 – Install a buried insulated water discharge line from recirculation well RM-2 to connect to water discharge line from RM-1.*

This task was partially completed as the exterior carrier pipe was installed (buried) but the interior insulated water discharge line has not been completed to date due to delay in receiving water line connection materials from suppliers. Stantec plans to complete the



installation in the month of December 2021 or January 2022 dependent on availability of parts. Upon completion of the water line installation, RM-2 will discharge a portion of its flow into the RM-1 well discharge line.

- Task 3 – O&M Groundwater Recirculation Wells RM-1 & RM-2

This task was completed in accordance with the approved 2021 CAP.

- Task 4 – O&M Chemical Oxidation (Chemox) Treatment System

This task was completed in accordance with the approved 2021 CAP.

***Proposed Work Plan Tasks for 2022***

- 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.



If you have any questions or need additional information concerning this 2022 Corrective Action Work Plan, please contact us at (907) 248-8883.

Regards,

**STANTEC CONSULTING SERVICES INC.**

A handwritten signature in black ink that reads "M. Zidek".

Michael A. Zidek, PMP  
Project Manager

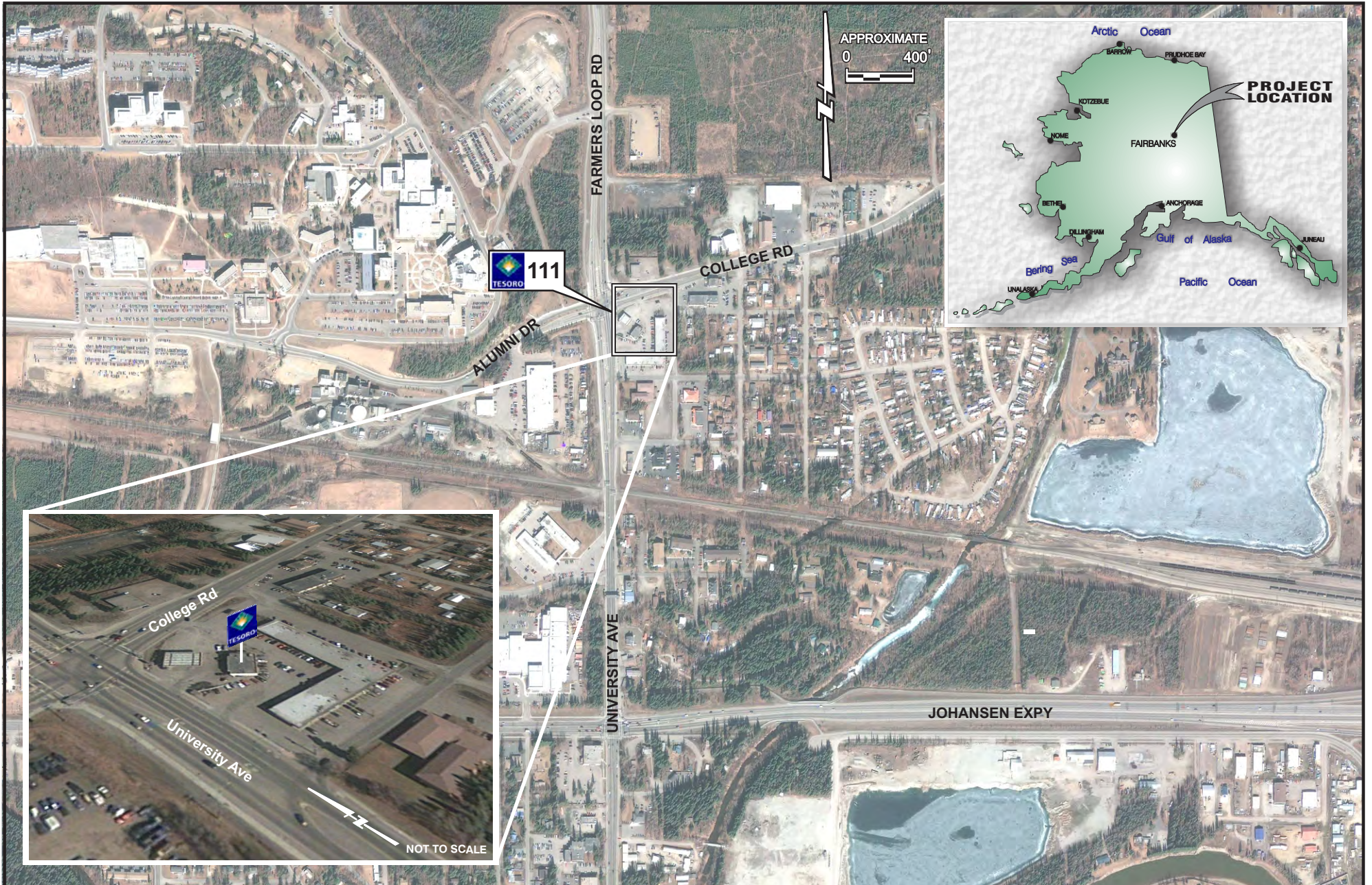
A handwritten signature in black ink that reads "Robert Gilfilian".

Robert (Bob) Gilfilian, P.E.  
Project Technical Lead

Attachments: Figure 1 – Location and Vicinity Map

Figure 2 – Site Plan

Figure 3 – Remediation System Layout  
Analytical Test Results (historical tables)



SPEEDWAY STORE 5315  
TESORO 2 GO MART #111  
MARCH 2021 MONITORING  
EVENT REPORT

LOCATION AND VICINITY MAP

FIGURE

1

185705364

MW 17-2	
Benzene	0.000952
Toluene	(0.005)
Ethylbenzene	0.0132
Xylenes	0.0264
GRO	0.309
DRO	<b>7.78</b>
Naphthalene	<b>(0.025)</b>
1,2,4-Trimethylbenzene	0.0131
1,3,5-Trimethylbenzene	0.00375
Sodium	83.9
GW Elev.	415.35'

RM-2	
Benzene	<b>0.0297</b>
Toluene	<b>0.0541</b>
Ethylbenzene	<b>0.352</b>
Xylenes	<b>0.74</b>
GRO	<b>4.16</b>
DRO	1.21
Naphthalene	<b>0.00271</b>
1,2,4-Trimethylbenzene	<b>0.143</b>
1,3,5-Trimethylbenzene	0.0552
Sodium	41.1
GW Elev.	NM

MW 17-1	
Benzene	0.000535
Toluene	(0.005)
Ethylbenzene	<b>0.0401</b>
Xylenes	0.178
GRO	<b>2.59</b>
DRO	<b>2.66</b>
Naphthalene	<b>0.00984</b>
1,2,4-Trimethylbenzene	<b>0.291</b>
1,3,5-Trimethylbenzene	<b>0.122</b>
Sodium	42.4
GW Elev.	415.86'

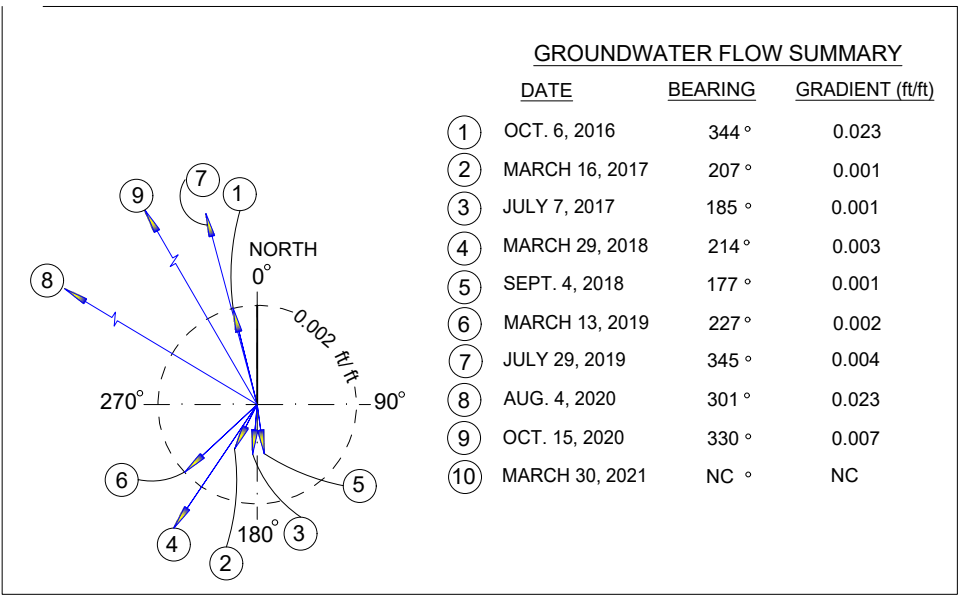
Duplicate MW 17-1	
Benzene	0.000425
Toluene	0.000704
Ethylbenzene	<b>0.0422</b>
Xylenes	<b>0.196</b>
GRO	<b>2.9</b>
DRO	<b>2.81</b>
Naphthalene	<b>0.0123</b>
1,2,4-Trimethylbenzene	<b>0.255</b>
1,3,5-Trimethylbenzene	<b>0.108</b>
Sodium	42.3
GW Elev.	415.86'

G-1	
Benzene	0.00141
Toluene	(0.001)
Ethylbenzene	(0.001)
Xylenes	(0.003)
GRO	0.0194
DRO	0.256
Naphthalene	0.00145
1,2,4-Trimethylbenzene	(0.001)
1,3,5-Trimethylbenzene	0.000111
Sodium	70.1
GW Elev.	415.54'

MW-16	
Benzene	(0.001)
Toluene	(0.001)
Ethylbenzene	(0.001)
Xylenes	0.000994
GRO	0.0233
DRO	0.97
Naphthalene	0.000122
1,2,4-Trimethylbenzene	(0.001)
1,3,5-Trimethylbenzene	0.000273
Sodium	36.1
GW Elev.	415.38'

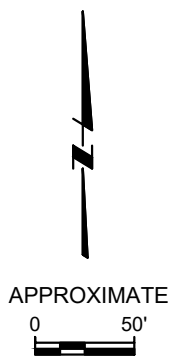
MW-13	
Benzene	0.00019
Toluene	(0.001)
Ethylbenzene	0.00361
Xylenes	0.00705
GRO	0.139
DRO	0.341
Naphthalene	0.000474
1,2,4-Trimethylbenzene	(0.001)
1,3,5-Trimethylbenzene	0.0057
Sodium	40.6
GW Elev.	415.41'

MW-12	
Benzene	0.000395
Toluene	0.000853
Ethylbenzene	<b>0.0221</b>
Xylenes	0.0676
GRO	<b>2.3</b>
DRO	1.26
Naphthalene	<b>0.0104</b>
1,2,4-Trimethylbenzene	<b>0.174</b>
1,3,5-Trimethylbenzene	0.0586
Sodium	57.9
GW Elev.	415.36'

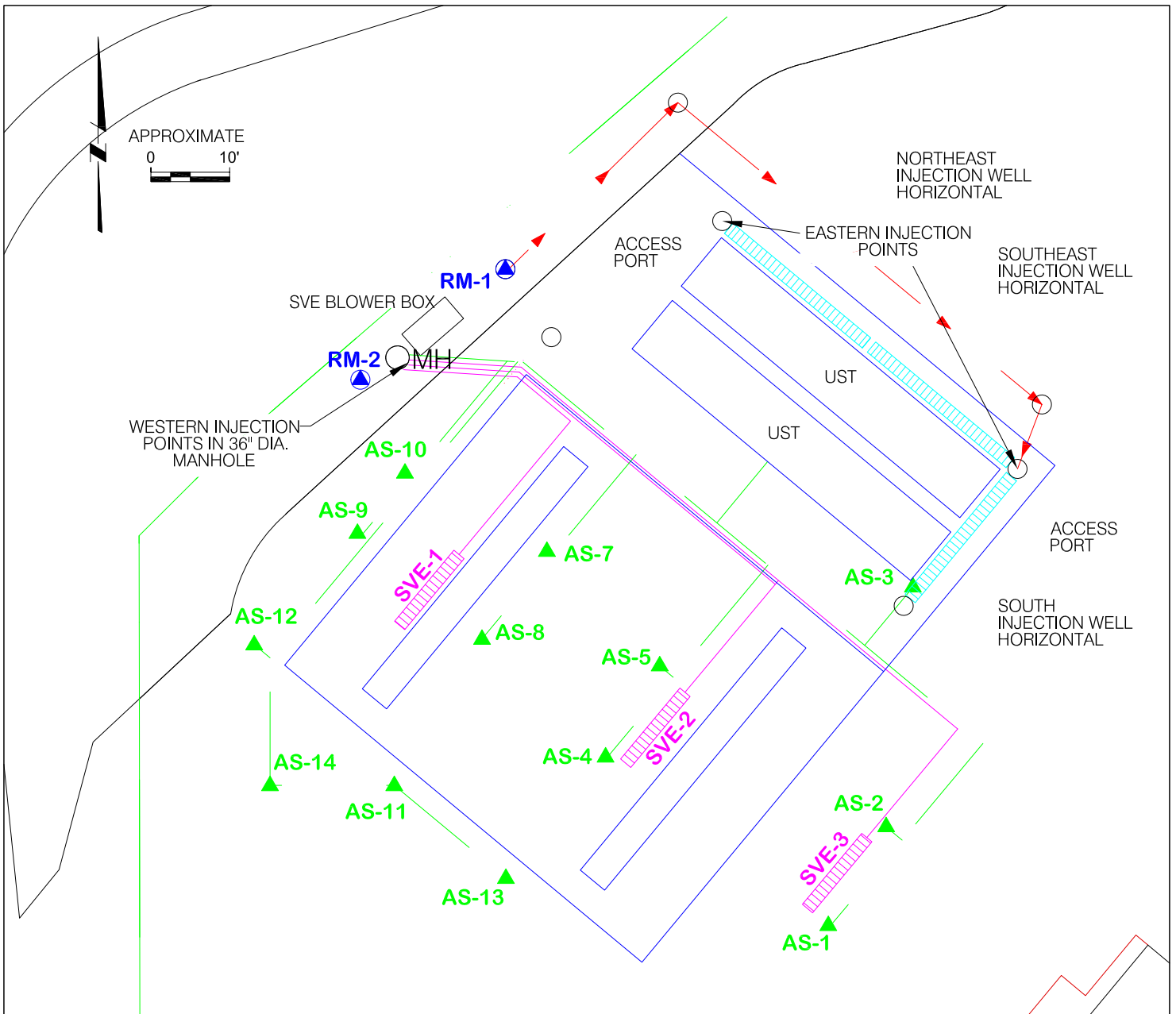


- LEGEND:**
- PROPERTY LINE
  - ▲ MONITORING WELL LOCATION
  - DRO DIESEL RANGE ORGANICS
  - ft/ft FEET PER FOOT
  - GRO GASOLINE RANGE ORGANICS
  - GW Elev. GROUNDWATER ELEVATION IN FEET
  - Italicized* ESTIMATED VALUE
  - NC NOT CALCULATED
  - NM NOT MEASURED
  - ( ) UNDETECTED ABOVE PRACTICAL QUANTITATIVE LIMIT SHOWN IN PARENTHESES

- NOTES:**
- RESULTS SHOWN ARE FOR WELLS SAMPLED ON MARCH 30, 2021.
  - RESULTS ARE IN MILLIGRAMS PER LITER.
  - RED TEXT INDICATES CONTAMINANT CONCENTRATIONS ABOVE CLEANUP LEVELS FOR THIS SITE.
  - RM-2 OPERATING DURING SAMPLING BUT WAS NOT GAUGED. RM-1 WAS OFFLINE.



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**LEGEND:**

- PROPERTY LINE
- RIGHT OF WAY
- MONITORING WELL
- ▲ AIR SPARGE (AS) WELL AND PIPING
- CIRCULATION LINE WITH DIRECTION OF FLOW
- 2" SOIL VAPOR EXTRACTION (SVE) LINE  
POLYVINYL CHLORIDE PIPING
- SVE HORIZONTAL  
(20 SLOT WELL SCREENING) PIPING
- HORIZONTAL INJECTION WELL PIPING
- UST      UNDERGROUND STORAGE TANK

**NOTES:**

- RM-1**    OUTFITTED WITH SUBMERSIBLE PUMP
- RM-2**    OUTFITTED WITH SUBMERSIBLE PUMP

TESORO  
#111



SPEEDWAY 5315  
TESORO 2 GO MART #111  
AUGUST 2020  
MONITORING EVENT REPORT

REMEDATION SYSTEM LAYOUT

FIGURE

3

185751325



Appendix D: Tables of Historical Monitoring Data

Monitoring Well MW-10

Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	GRO (mg/L)	DRO (mg/L)	Sodium mg/L	GW Elev (feet)
10-Mar-94	19	24	2.3	19	NT	NT	NM	418.07
09-Sep-94	15.2	18	0.9	14.9	NT	NT	NM	419.89
12-Dec-94	16.7	20	2.1	15.5	NT	NT	NM	418.1
15-Aug-97	8.3	14.4	1.16	9.35	77	NT	NM	415.92
27-May-99	6.88	13.4	1.35	7.17	64	12.8	NM	415.09
17-Apr-00	1.86	7.06	0.887	3.47	35	5.84	NM	413.89
26-Oct-00	1.88	7.2	0.914	5.53	39.7	9.04	NM	417.44
13-Dec-01	2.7	9.6	1.59	7.73	53.8	10.1	NM	413.14
01-May-02	0.0122	0.0074	0.0137	0.117	1.1	1.96	NM	414.55
19-Aug-02	1.92	3.55	0.664	3.512	27.5	15.9	NM	417.86
05-Nov-02	0.0456	0.00533	0.0368	0.1189	1.7	6.78	NM	417.06
19-Mar-03	0.477	0.313	0.319	1.404	8.8	12.9	NM	416.21
05-Aug-03	2.54	8.79	0.876	7.09	61.8	17.6	NM	418.43
08-Mar-04	0.198	0.912	U (0.025)	2.89	12.8	10.3	NM	414.92
15-Sep-04	0.0802	0.00234	0.0497	0.446	2.06	6.01	NM	416.64
15-Jul-05	0.416	3.37	0.513	3.63	25.6	14.9	NM	417.82
27-Jul-06	0.413	5.3	0.714	4.88	32.5	16.3	NM	417.06
02-Mar-07	0.203	2.33	0.545	3.9	32.8	8.8	NM	414.23
17-Oct-07	0.00324	0.00102	0.0105	0.0406	1.15	6.43	NM	416.47
05-Jun-08	0.23	2.9	1.18	8.14	38.4	10.2	NM	415.69
29-Sep-08	0.00139	0.00403	0.012	0.0777	1.18	3.67	NM	417.20
25-Feb-09	0.0778	2.7	1.18	8.89	43.4	30.3	NM	NM
21-Jul-09	0.014	1.77	1.26	12.2	47.3	11.8	NM	416.71
17-Mar-10	0.0027	1.50	1.20	9.5	92	16.2	NM	413.98
15-Sep-10	0.00635	0.0902	0.776	4.06	16.2	21.3	NM	416.60
22-Mar-11	0.00425	0.0195	0.678	3.15	16.0	17.4	NM	414.01
01-Sep-11	0.00673	0.0908	0.498	3	22.5	30.5	NM	417.49
13-Mar-12	U (0.010)	U (0.010)	0.118	0.679	4.2	10.3	NM	414.42
23-Jul-12	0.00226	0.0012	0.00161	U (0.0030)	0.32	2.57	NM	416.97
21-Feb-13	0.000877	0.00156	0.00702	0.166	2.69	4.55	NM	414.24
13-Aug-13	0.00245	0.00455	0.022	0.0755	1.59	10.3	NM	416.54*
19-Mar-14	0.000642	0.00404	0.015	0.119	1.98	7.82	NM	414.30
31-Jul-14	0.011	0.00240	0.047	1.20	5.0	10.0	NM	419.65
03-Mar-15	0.00067	U (0.0005)	0.0020	0.0063	0.23	3.2	NM	414.98
27-Jul-15	0.0012	0.0020	0.0037	0.011	0.65	4.0	NM	416.16
23-Feb-16	U (0.001)	U (0.001)	U (0.001)	U (0.001)	U (0.05)	2.7	NM	415.20
06-Oct-16	U (0.001)	U (0.001)	U (0.001)	U (0.001)	U (0.05)	2.3	NM	418.72
16-Mar-17	0.011	0.0027	0.16	0.489	3.7	6.7	NM	414.92
29-Mar-18	0.022	0.01	0.35	1.3	9.6	13	NM	414.6
07-Sep-18	0.027	0.0052	0.27	1.283	5.2	13	NM	418.69
13-Mar-19	0.016	U (0.002)	0.21	0.726	3.5	8	NM	415.23
29-Jul-19	U (0.15)	U (0.1)	0.2	0.82	5.6	13	NM	416.33
04-Aug-20	0.0577	0.142	0.6	1.89	4.2	1.9	60	419.74
15-Oct-20	0.00506	0.0387	0.0649	0.198	1.12	1.74	50.9	418.63
30-Mar-21	NM	NM	NM	NM	NM	NM	NM	NM
12-Oct-21	0.000209 J,Q	U (0.005)	0.00142 J	0.00200 J	0.280 B,J	2.43	96.5	417.98
<b>GCLs</b>	<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>NA</b>	<b>NA</b>

\* Event dates that sampling did not occur on have been removed from this chart.

Appendix D: Tables of Historical Monitoring Data

**Monitoring Well MW-11**

Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	GRO (mg/L)	DRO (mg/L)	Sodium mg/L	GW Elev (feet)
28-Sep-12	0.235	0.594	0.873	5.52	40.3	19.4	NM	416.27
21-Feb-13	0.0177	0.00707	1.61	7.2	41.1	5.72	NM	414.26
13-Aug-13	0.257	0.0152	0.600	1.15	5.45	7.79	NM	416.53
19-Mar-14	0.0933	0.0548	0.915	3.28	22.1	14.1	NM	414.33
31-Jul-14	0.088	0.032	0.510	2.0	10.0	7.0	NM	419.65
03-Mar-15	0.038	0.071	0.600	2.9	17.0	3.0	NM	414.99
27-Jul-15	0.460	0.160	1.50	6.6	34.0	13.0	NM	416.20
23-Feb-16	U (0.001)	U (0.001)	U (0.001)	0.0025	0.13	1.2	NM	415.22
06-Oct-16	U (0.001)	U (0.001)	0.0068	0.0025	0.20	0.77	NM	418.74
16-Mar-17	U (0.2)	0.48	0.89	3.99	14	6.2	NM	414.93
07-Jul-17	0.110	0.260	0.400	1.76	7.10	7.40	NM	416.97
29-Mar-18	U (0.15)	0.71	0.92	6.1	U (90)	8.0	NM	414.62
07-Sep-18	0.068	0.066	0.57	2.29	7.8	3.2	NM	418.71
13-Mar-19	0.1	0.3	0.85	5	19	9.9	NM	415.23
29-Jul-19	U (0.15)	0.16	0.67	4.96	15	9.8	NM	416.28
04-Aug-20	0.057	0.00403	0.434	1.75	5.63	3.51	NM	419.64
15-Oct-20	0.000929 J	0.00121	0.0106	0.081	0.386 J	1.06 J	48.2	418.6
30-Mar-21	NM	NM	NM	NM	NM	NM	NM	NM
12-Oct-21	0.00103	0.000688 J	0.492 Q	1.38	5.40	1.97	80.8	417.94
<b>GCLs</b>	<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>NA</b>	<b>NA</b>

**Monitoring Well MW-12**

Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	GRO (mg/L)	DRO (mg/L)	Sodium mg/L	GW Elev (feet)
28-Sep-12	0.00438	13.9	3.51	19.5	165	2.74	NM	416.30
21-Feb-13	0.012	7.69	2.69	12.8	71.1	3.66	NM	414.30
13-Aug-13	0.0334	7.30	1.00	6.21	22.6	6.05	NM	416.54
24-Sep-13	0.00913	1.65	0.344	1.72	8.35	7.11	NM	NM
19-Nov-13	0.0117	1.83	0.527	2.19	13.5	11.7	NM	415.65
19-Mar-14	0.0128	2.24	0.663	5.34	27.9	11.4	NM	414.40
31-Jul-14	U (0.0005)	0.01	0.003	0.015	0.18	0.5	NM	419.67
03-Mar-15	U (0.0005)	0.01	0.022	0.240	6.8	1.2	NM	416.05
27-Jul-15	0.00057	0.011	0.026	0.190	3.2	0.99	NM	416.21
23-Feb-16	U (0.001)	U (0.001)	U (0.001)	U (0.001)	U (0.05)	0.32	NM	415.28
06-Oct-16	U (0.001)	U (0.001)	U (0.001)	U (0.001)	U (0.05)	0.39	NM	418.79
16-Mar-17	U (0.02)	U (0.02)	0.3	0.52	3.8	1.5	NM	415.00
07-Jul-17	U (0.002)	U (0.04)	0.13	0.38	2.8	1.4	NM	417.04
29-Mar-18	U (0.003)	U (0.002)	U (0.003)	U (0.002)	2.0	0.58	NM	414.69
07-Sep-18	U (0.0004)	U (0.001)	0.019	0.063	1.1	0.56	NM	418.78
13-Mar-19	U (0.003)	U (0.002)	0.01	0.055	1.3	0.78	NM	415.30
30-Jul-19	U (0.003)	U (0.002)	U (0.003)	0.0039	0.26	0.47	NM	416.38
03-Aug-20	0.000353	0.0364	0.054	0.487	1.23	0.852	48.7	422.58
14-Oct-20	0.0192	0.000817 J	0.123	0.425	1.08	0.658 J	56.8	418.68
30-Mar-21	0.000395 J	0.000853 J	0.0221	0.0676	2.3	1.26	57.9	415.36
12-Oct-21	0.000217 J	0.00215	0.0722	0.500	1.93	0.989	77.5	418.00
<b>GCLs</b>	<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>NA</b>	<b>NA</b>

Appendix D: Tables of Historical Monitoring Data

Monitoring Well MW-13

Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	GRO (mg/L)	DRO (mg/L)	Sodium mg/L	GW Elev (feet)
28-Sep-12	U (0.0005)	0.0316	<b>0.0263</b>	<b>0.609</b>	<b>8.11</b>	0.738	NM	416.31
21-Feb-13	0.00130	U (0.0005)	0.0125	0.167	0.649	<b>1.90</b>	NM	414.31
13-Aug-13	U (0.0005)	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	0.839	NM	416.55
24-Sep-13	U (0.0005)	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	0.736	NM	NM
19-Nov-13	U (0.0005)	0.000751	U (0.0005)	0.00168	U (0.05)	0.478	NM	415.48
18-Mar-14	0.00067	0.000846	U (0.0005)	0.00208	0.0593	1.13	NM	414.42
31-Jul-14	U (0.0005)	U (0.001)	U (0.001)	U (0.001)	U (0.05)	U (0.42)	NM	419.67
03-Mar-15	<b>0.02</b>	U (0.0005)	<b>0.028</b>	0.130	0.820	0.62	NM	415.04
27-Jul-15	U (0.0005)	U (0.0005)	0.0014	0.0046	U (0.05)	0.58	NM	416.24
23-Feb-16	U (0.001)	U (0.001)	0.0096	0.073	1.0	<b>2.3</b>	NM	415.31
06-Oct-16	U (0.001)	U (0.001)	U (0.001)	0.0058	U (0.05)	0.65	NM	418.8
16-Mar-17	U (0.002)	U (0.002)	U (0.0053)	0.013	0.150	0.44	NM	415.02
07-Jul-17	U (0.002)	U (0.002)	U (0.003)	U (0.002)	U (1.0)	0.32	NM	417.06
29-Mar-18	U (0.003)	U (0.002)	U (0.003)	U (0.002)	U (1)	0.45	NM	414.70
07-Sep-18	U (0.0004)	U (0.001)	U (0.001)	U (0.002)	U (0.15)	0.43	NM	418.76
13-Mar-19	U (0.003)	U (0.002)	0.0072	0.0094	U (1.3)	0.36	NM	415.34
29-Jul-19	U (0.003)	U (0.002)	0.0085	0.0214	0.45	1.1	NM	416.37
03-Aug-20	0.000323	0.0351	<b>0.0439</b>	<b>0.454</b>	1.01	0.6	49.6	419.57
14-Oct-20	<b>0.018</b>	0.0108	<b>0.155</b>	<b>0.63</b>	1.86	1.3	140.0	418.67
30-Mar-21	0.00019 J	U (0.001)	0.00361	0.00705	0.139 B	0.341 J	40.6	415.41
12-Oct-21	U (0.001)	U (0.001)	0.000274 J	0.00769	0.0684 B,J	0.538 J	81.4	418.00
<b>GCLs</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>2.2</b>	<b>1.5</b>	NA	NA

Appendix D: Tables of Historical Monitoring Data

**Monitoring Well MW-16**

Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	GRO (mg/L)	DRO (mg/L)	Sodium mg/L	GW Elev (feet)
26-Feb-92	0.004	U	U	U	NT	NT	NM	418.29
04-Jun-92	0.003	U	U	0.007	NT	NT	NM	418.41
30-Nov-92	<b>0.51</b>	0.094	0.056	0.15	NT	NT	NM	416.6
24-Feb-93	<b>0.41</b>	0.033	0.036	0.084	NT	NT	NM	418.13
18-Aug-93	<b>0.099</b>	U	U	0.014	NT	NT	NM	420.26
23-Nov-93	<b>0.039</b>	U	U	0.004	NT	NT	NM	419.59
10-Mar-94	<b>0.005</b>	0.001	U	U	NT	NT	NM	418.28
01-Jun-94	<b>0.022</b>	U	0.003	0.003	NT	NT	NM	418.82
14-Dec-94	<b>0.012</b>	U	0.001	U	NT	NT	NM	418.22
20-Dec-95	<b>0.055</b>	U	U	0.003	NT	NT	NM	414.53
16-May-96	<b>0.007</b>	U	U	U	NT	NT	NM	415.78
09-Dec-96	<b>0.0071</b>	U	U	U	NT	NT	NM	415.43
20-Mar-97	<b>0.0056</b>	U	U	U	NT	NT	NM	414.4
18-Nov-97	0.00134	0.00101	U	0.00135	U	NT	NM	415.22
01-May-98	<b>0.00567</b>	0.00308	0.00193	0.00739	0.089	0.534	NM	414.38
14-Oct-98	U	U	U	0.00222	U	0.281	NM	416.59
27-May-99	0.00203	U	U	U	U	<b>2.64</b>	NM	415.29
05-Nov-99	U	U	U	U	U	<b>13</b>	NM	415.51
17-Apr-00	0.00305	U	U	U	U	<b>3.66</b>	NM	414.15
26-Oct-00	0.00186	0.00261	U	0.003	U	<b>3.98</b>	NM	417.47
30-May-01	0.0007	U	U	U	U	<b>6.65</b>	NM	413.63
13-Dec-01	<b>0.0480</b>	0.302	0.0109	0.0554	0.9	<b>5.29</b>	NM	413.23
19-Aug-02	U (0.0005)	U (0.002)	U (0.002)	0.00896	U (0.09)	U (0.5)	NM	417.85
05-Nov-02	0.000589	U (0.002)	U (0.002)	0.00234	U (0.09)	0.595	NM	417.07
19-Mar-03	0.000531	0.00653	U (0.002)	0.00469	U (0.09)	1.1	NM	416.23
08-Mar-04	U (0.0005)	0.0288	U (0.0005)	U (0.001)	0.072	<b>2.85</b>	NM	414.95
15-Sep-04	0.0006	0.0143	U (0.0005)	U (0.0015)	0.0521	1.36	NM	416.65
15-Jul-05	0.0007	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	1.06	NM	417.99
16-Feb-06	U (0.0005)	0.0225	U (0.0005)	U (0.0015)	0.0641	<b>2.09</b>	NM	414.58
27-Jul-06	0.000638	0.0108	U (0.0005)	U (0.0015)	U (0.05)	1.06	NM	417.08
02-Mar-07	U (0.0005)	0.00206	U (0.0005)	U (0.0015)	U (0.05)	<b>1.95</b>	NM	414.25
17-Oct-07	U (0.0025)	0.00318	U (0.0025)	U (0.0075)	U (0.25)	<b>6.53</b>	NM	416.62
05-Jun-08	U (0.0005)	0.0117	U (0.0005)	U (0.0015)	0.0761	<b>4.4</b>	NM	415.88*
29-Sep-08	U (0.0005)	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	<b>2.69</b>	NM	417.26
25-Feb-09	U (0.0005)	0.0135	U (0.0005)	U (0.0015)	0.0633	<b>3.44</b>	NM	414.49
21-Jul-09	U (0.0005)	U (0.001)	U (0.001)	U (0.003)	U (0.05)	0.564	NM	416.76
17-Mar-10	U (0.001)	U (0.001)	U (0.001)	U (0.002)	U (0.05)	0.586	NM	413.98
15-Sep-10	U (0.0005)	U (0.0005)	0.000796	0.00508	U (0.05)	<b>2.35</b>	NM	416.52
22-Mar-11	U (0.0005)	0.0852	U (0.0005)	U (0.0015)	0.221	<b>2.82</b>	NM	413.98
01-Sep-11	U (0.0005)	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	<b>2.38</b>	NM	417.42
13-Mar-12	U (0.0005)	0.0845	U (0.0005)	U (0.0015)	0.241	<b>4.18</b>	NM	414.39
23-Jul-12	U (0.0005)	U (0.0010)	U (0.0010)	U (0.0030)	U (0.05)	1.04	NM	417.64
21-Feb-13	U (0.0005)	0.066	U (0.0005)	U (0.0015)	0.182	1.38	NM	414.34
13-Aug-13	U (0.0005)	0.00143	U (0.0005)	U (0.0015)	U (0.05)	<b>3.61</b>	NM	416.56
18-Mar-14	U (0.0005)	0.0694	U (0.0005)	U (0.0015)	0.178	<b>3.17</b>	NM	414.51
31-Jul-14	U (0.0005)	U (0.001)	U (0.001)	U (0.001)	U (0.05)	<b>2.3</b>	NM	419.7
03-Mar-15	<b>0.015</b>	0.039	0.0073	0.130	0.740	1.3	NM	415.2
27-Jul-15	<b>0.0068</b>	0.0016	0.0057	0.071	0.420	0.81	NM	416.22
23-Feb-16	U (0.001)	U (0.001)	U (0.001)	0.0058	U (0.05)	0.40	NM	415.26

Appendix D: Tables of Historical Monitoring Data

Monitoring Well MW-16 (Continued)

Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	GRO (mg/L)	DRO (mg/L)	Sodium mg/L	GW Elev (feet)
16-Mar-17	U (0.002)	U (0.002)	U (0.003)	U (0.002)	U (0.05)	0.88	NM	414.98
07-Jul-17	U (0.002)	U (0.002)	U (0.003)	U (0.003)	U (1.0)	3.7	NM	417.02
13-Mar-19	U (0.003)	U (0.002)	U (0.003)	U (0.003)	U (1.3)	1.9	NM	415.27
30-Jul-19	U (0.003)	U (0.002)	U (0.003)	0.003	U (0.25)	0.39	NM	415.37
14-Oct-20	0.0144	0.000556 J	0.000399 J	0.0241	0.0468 J	0.918	49.60	418.63
30-Mar-21	U (0.001)	U (0.001)	U (0.001)	0.000994 J	0.0233 BJ	0.97	36.10	415.38
12-Oct-21	U (0.001)	U (0.001)	U (0.001)	0.000223 J	U (0.1)	1.57	43.5	418.00
<b>GCLs</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>2.2</b>	<b>1.5</b>	NA	NA

\* Event dates that sampling did not occur on have been removed from this chart.

Appendix D: Tables of Historical Monitoring Data

Monitoring Well G-1

Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	GRO (mg/L)	DRO (mg/L)	Sodium mg/L	GW Elev (feet)
20-Dec-95	1.54	1.26	0.56	2.53	NT	NT	NM	414.48
16-May-96	5.9	3.9	1.8	8.2	NT	NT	NM	415.71
09-Dec-96	2.1	2.1	0.73	3.1	NT	NT	NM	NM
20-Mar-97	2.1	2.5	0.81	4.3	NT	NT	NM	NM
01-May-98	4.83	6.67	2.18	10.13	60	5.03	NM	NM
14-Oct-98	5.04	3.81	1.8	7.47	43	4.37	NM	416.35
27-May-99	4.34	5.02	1.94	8.89	43	5.46	NM	415.3
05-Nov-99	2.59	1.74	1.01	3.89	23	3.16	NM	415.48
17-Apr-00	3.12	3.77	1.64	7.14	46	5.9	NM	414.06
30-May-01	1.59	0.158	0.727	1.87	17	2.61	NM	413.6
01-May-02	1.3	0.0371	0.683	1.51	8.6	1.84	NM	414.52
19-Aug-02	0.89	0.0588	0.774	1.465	13.5	1.41	NM	417.79
05-Nov-02	0.0616	U (0.002)	0.00845	0.0666	0.787	U (0.5)	NM	417.06
19-Mar-03	0.00765	U (0.002)	U (0.002)	0.00242	U (0.09)	0.509	NM	416.18**
05-Aug-03	0.11	0.00209	0.101	0.062	1.3	U (0.32)	NM	418.33
08-Mar-04	0.00979	U (0.0005)	U (0.0005)	U (0.001)	U (0.05)	U (0.37)	NM	414.92
15-Sep-04	0.00206	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	U (0.385)	NM	416.65
10-Jan-05	0.0327	U (0.0005)	0.000623	U (0.0015)	0.134	U (0.388)	NM	414.58
15-Jul-05	0.0626	U (0.0005)	0.0445	0.00354	0.426	U (0.391)	NM	417.94
16-Feb-06	0.00406	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	U (0.397)	NM	414.54
27-Jul-06	0.0222	0.000805	0.0104	0.00217	0.163	U (0.397)	NM	417.37
02-Mar-07	0.00159	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	U (0.424)	NM	414.59
17-Oct-07	U (0.0005)	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	U (0.403)	NM	416.88
05-Jun-08	0.00614	U (0.0005)	U (0.0005)	0.00379	0.082	0.877	NM	415.81*
29-Sep-08	U (0.0005)	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	U (0.435)	NM	417.21
25-Feb-09	U (0.0005)	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	U (0.417)	NM	414.48
21-Jul-09	0.00601	U (0.001)	U (0.001)	0.00363	0.0954	U (0.397)	NM	416.75
17-Mar-10	U (0.001)	U (0.001)	U (0.001)	U (0.002)	U (0.05)	U (0.431)	NM	414.03
15-Sep-10	U (0.0005)	U (0.0005)	0.00926	0.0619	0.15	U (0.385)	NM	416.56
22-Mar-11	U (0.0005)	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	0.657	NM	413.97
01-Sep-11	0.0029	0.000601	U (0.0005)	U (0.0015)	0.0719	U (0.410)	NM	417.44
13-Mar-12	U (0.0005)	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	U (0.446)	NM	414.37
23-Jul-12	0.0134	U (0.0010)	U (0.0010)	U (0.0030)	0.263	U (0.397)	NM	417.01
21-Feb-13	U (0.0005)	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	U (0.431)	NM	414.26
18-Mar-14	U (0.0005)	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	U (0.403)	NM	414.38
31-Jul-14	0.0026	U (0.001)	0.0022	U (0.001)	0.056	0.67	NM	419.66
03-Mar-15	U (0.0005)	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	U (0.45)	NM	415.09
27-Jul-15	U (0.00054)	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	0.25	NM	416.21
23-Feb-16	U (0.001)	U (0.001)	U (0.001)	U (0.001)	U (0.05)	U (0.11)	NM	415.25
06-Oct-16	U (0.001)	U (0.001)	U (0.001)	U (0.001)	U (0.05)	0.24	NM	418.73
16-Mar-17	0.0058	U (0.002)	U (0.003)	U (0.002)	U (0.05)	0.60	NM	414.96
29-Mar-18	0.0041	U (0.002)	U (0.003)	U (0.002)	U (1)	0.76	NM	414.63
07-Sep-18	0.0024	U (0.001)	U (0.001)	U (0.002)	U (0.15)	0.28	NM	418.62
12-Mar-19	U (0.003)	U (0.002)	U (0.003)	U (0.003)	9.4	0.33	NM	415.23
29-Jul-19	U (0.003)	U (0.002)	U (0.003)	U (0.003)	U (0.25)	0.30	NM	416.29
03-Aug-20	0.000817	U (0.001)	U (0.001)	U (0.003)	0.0109	U (0.800)	66.40	419.66
14-Oct-20	0.0134	0.000615	0.000186	0.000653	U (0.10)	0.362	76.4	418.84

Appendix D: Tables of Historical Monitoring Data

Monitoring Well G-1 (Continued)

Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	GRO (mg/L)	DRO (mg/L)	Sodium mg/L	GW Elev (feet)
30-Mar-21	0.00141	U (0.001)	U (0.001)	U (0.003)	0.0194 BJ	0.26	70.10	415.54
22-Jul-21	U (0.0200)	0.124	<b>0.608</b>	<b>3.43</b>	<b>10.2</b>	<b>2.78</b>	<b>52.8</b>	
12-Oct-21	0.00102	U (0.001)	U (0.001)	0.000267 J	0.0427	0.704 J	74.0	417.96
<b>GCLs</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>2.2</b>	<b>1.5</b>	NA	NA

**Appendix D: Tables of Historical Monitoring Data**

**Monitoring Well G-2**

<b>Date</b>	<b>Benzene (mg/L)</b>	<b>Toluene (mg/L)</b>	<b>Ethylbenzene (mg/L)</b>	<b>Xylenes (mg/L)</b>	<b>GRO (mg/L)</b>	<b>DRO (mg/L)</b>	<b>Sodium mg/L</b>	<b>GW Elev (feet)</b>
20-Dec-95	0.069	U	U	U	NT	NT	NM	414.49
16-May-96	0.2	U	U	U	NT	NT	NM	415.74
15-Aug-96	0.32	U	U	U	NT	NT	NM	416.57
09-Dec-96	0.14	U	U	U	NT	NT	NM	415.42
20-Mar-97	0.002	U	U	U	NT	NT	NM	414.4
15-Aug-97	0.0253	U	U	U	0.077	NT	NM	415.88
18-Nov-97	U	U	U	0.00169	U	NT	NM	415.2
01-May-98	0.00523	U	U	0.00139	U	0.221	NM	414.35
14-Oct-98	0.0318	U	U	0.00135	0.076	0.248	NM	416.55
27-May-99	U	0.00624	U	0.00326	U	0.345	NM	415.27
05-Nov-99	0.0514	U	U	U	0.13	U	NM	415.47
17-Apr-00	0.00749	U	U	U	U	U	NM	414.12
26-Oct-00	0.0051	0.0032	U	0.00759	U	U	NM	417.44
30-May-01	U	U	U	U	U	U	NM	413.58
13-Dec-01	U	U	U	U	U	U	NM	413.04
01-May-02	U	U	U	U	U	U	NM	414.52
19-Aug-02	0.000596	U (0.002)	U (0.002)	U (0.002)	U (0.09)	U (0.505)	NM	417.79
05-Nov-02	U (0.0005)	U (0.002)	U (0.002)	U (0.002)	U (0.09)	U (0.5)	NM	416.99
22-Jul-21	0.0763	0.145	0.728	2.27	8.01	2.14	52.3	
12-Oct-21	NT	NT	NT	NT	NT	NT	NM	NM
<b>GCLs</b>	<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>NA</b>	<b>NA</b>

\*Ground Water monitoring did not occur between November 5, 2002 and July 22, 2021.

**Monitoring Well G-3**

<b>Date</b>	<b>Benzene (mg/L)</b>	<b>Toluene (mg/L)</b>	<b>Ethylbenzene (mg/L)</b>	<b>Xylenes (mg/L)</b>	<b>GRO (mg/L)</b>	<b>DRO (mg/L)</b>	<b>Sodium mg/L</b>	<b>GW Elev (feet)</b>
01-Apr-99	U	0.001	U	U	U	U	NM	NT
27-May-99	U	U	U	U	U	0.413	NM	415.18
05-Nov-99	U	U	U	U	U	0.883	NM	415.41
17-Apr-00	U	U	U	U	U	U	NM	414.07
26-Oct-00	U	U	U	U	U	U	NM	418.18
30-May-01	0.00029	U	0.000718	0.001855	U	U	NM	413.49
13-Dec-01	0.00064	U	U	U	U	U	NM	413.07
19-Aug-02	U (0.0005)	U (0.002)	U (0.002)	0.00241	U (0.09)	U (0.505)	NM	417.74
05-Aug-03	Monitoring Well Destroyed							
<b>GCLs</b>	<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>NA</b>	<b>NA</b>

\*Ground Water monitoring has not occurred since August 19, 2002.



Appendix D: Tables of Historical Monitoring Data

**Monitoring Well G-4**

<b>Date</b>	<b>Benzene (mg/L)</b>	<b>Toluene (mg/L)</b>	<b>Ethylbenzene (mg/L)</b>	<b>Xylenes (mg/L)</b>	<b>GRO (mg/L)</b>	<b>DRO (mg/L)</b>	<b>Sodium mg/L</b>	<b>GW Elev (feet)</b>
01-Apr-99	U	U	U	U	U	U	NM	NM
27-May-99	U	U	U	U	U	U	NM	415.26
05-Nov-99	U	U	U	U	U	U	NM	415.48
17-Apr-00	U	U	U	U	U	U	NM	414.04
26-Oct-00	U	U	U	U	U	U	NM	418.25
30-May-01	U	U	U	0.001	U	U	NM	413.59
13-Dec-01	U	U	U	U	U	U	NM	413.19
19-Aug-02	0.000545	U (0.002)	U (0.002)	0.00366	U (0.09)	U (0.5)	NM	418.13
<b>GCLs</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>2.2</b>	<b>1.5</b>	NA	NA

\*Ground Water monitoring has not occurred since August 19, 2002.

Appendix D: Tables of Historical Monitoring Data

Monitoring Well G-5

Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	GRO (mg/L)	DRO (mg/L)	Sodium mg/L	GW Elev (feet)
30-May-01	12.4	11.5	2.1	9.9	107	6.47	NM	412.59
13-Dec-01	6.21	8.71	1.71	12.74	72.8	3.05	NM	413.22
01-May-02	11.9	7.7	1.95	15.1	83.4	6.75	NM	414.55
19-Aug-02	12.9	7.31	2	8.53	86.6	7.85	NM	417.8
05-Nov-02	5.7	4.37	1.38	6.7	41.9	7.17	NM	417.05
19-Mar-03	2.46	1.75	0.741	5.25	30	7.55	NM	416.19
05-Aug-03	5.07	2.99	0.943	6.41	47.5	5.78	NM	418.76
08-Mar-04	0.00254	0.00495	0.00104	0.0327	0.126	3.45	NM	414.93
15-Sep-04	0.00577	0.00126	0.000506	0.00467	0.061	1.84	NM	416.64
10-Jan-05	U (0.0005)	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	1.22	NM	414.80
15-Jul-05	U (0.0005)	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	1.19	NM	417.83
16-Feb-06	U (0.0005)	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	1.08	NM	414.48
27-Jul-06	U (0.0005)	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	0.865	NM	417.09
02-Mar-07	U (0.0005)	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	1.03	NM	414.24
17-Oct-07	0.000837	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	3.44	NM	416.22
05-Jun-08	U (0.0005)	U (0.0005)	0.00452	0.0316	0.112	1.1	NM	415.73
29-Sep-08	U (0.0005)	U (0.0005)	0.00458	0.0103	0.0794	1.66	NM	417.20
25-Feb-09	0.00068	0.00053	0.0579	0.174	2.53	1.3	NM	414.45
21-Jul-09	0.0018	U (0.0010)	U (0.001)	U (0.003)	U (0.05)	1.27	NM	416.73
17-Mar-10	0.013	0.0014	0.19	0.37	4.4	0.961	NM	413.98
15-Sep-10	0.0849	0.000886	0.00279	0.0149	0.287	1.10	NM	416.59
22-Mar-11	U (0.0005)	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	1.04	NM	413.96
01-Sep-11	0.00331	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	0.898	NM	417.44
23-Jul-12	0.00199	U (0.0010)	U (0.0010)	U (0.0030)	U (0.05)	0.57	NM	416.90
13-Aug-13	U (0.0005)	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	0.884	NM	416.50
18-Mar-14	0.025	0.00612	0.0739	0.161	2.44	0.778	NM	414.36
31-Jul-14	0.49	0.0064	0.071	0.21	2.2	1.40	NM	419.24
03-Mar-15	U (0.0005)	U (0.0005)	U (0.0005)	0.0015	U (0.05)	0.430	NM	414.58
27-Jul-15	0.92	0.57	0.59	1.1	10	1.40	NM	416.18
23-Feb-16	U (0.001)	U (0.001)	U (0.001)	U (0.001)	U (0.05)	0.21	NM	415.19
06-Oct-16	U (0.001)	U (0.001)	U (0.001)	U (0.001)	U (0.05)	0.95	NM	418.75
16-Mar-17	0.27	0.36	0.56	1.91	7.9	1.3	NM	414.93
29-Mar-18	0.38	0.3	0.72	2.27	14	1.6	NM	414.68
07-Sep-18	0.61	0.91	0.51	1.92	7.4	2.4	NM	418.68
13-Mar-19	0.11	0.011	0.39	1.05	5.8	1.2	NM	415.24
30-Jul-19	U (0.15)	U (0.1)	0.18	0.71	2.9	1.2	NM	416.31
04-Aug-20	0.114	0.000683	0.123	0.124	0.712	1.07	77	419.57
14-Oct-20	0.0016	0.00513	0.0148	0.079	0.251	2.16	56.7	418.67
12-Oct-21	0.00607	0.000300 J	0.0661	0.0928	0.909	1.42	65.0	419.21
<b>GCLs</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>2.2</b>	<b>1.5</b>	NA	NA

Appendix D: Tables of Historical Monitoring Data

Monitoring Well G-6

Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	GRO (mg/L)	DRO (mg/L)	Sodium mg/L	GW Elev (feet)
30-May-01	U	U	U	U	U	U	NM	413.54
13-Dec-01	U	U	U	U	U	U	NM	413.26
19-Aug-02	U (0.0005)	U (0.002)	U (0.002)	U (0.002)	U (0.09)	U (0.505)	NM	417.93
<b>GCLs</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>2.2</b>	<b>1.5</b>	NA	NA

\*Ground Water monitoring has not occurred since August 19, 2002.

Appendix D: Tables of Historical Monitoring Data

**Monitoring Well G-9**

<b>Date</b>	<b>Benzene (mg/L)</b>	<b>Toluene (mg/L)</b>	<b>Ethylbenzene (mg/L)</b>	<b>Xylenes (mg/L)</b>	<b>GRO (mg/L)</b>	<b>DRO (mg/L)</b>	<b>Sodium mg/L</b>	<b>GW Elev (feet)</b>
07-Nov-03	U (0.0005)	U (0.0005)	U (0.0005)	U (0.001)	U (0.08)	U (0.32)	NM	NM
08-Mar-04	U (0.0005)	U (0.0005)	U (0.0005)	U (0.001)	U (0.05)	U (0.37)	NM	414.96
15-Sep-04	U (0.0005)	U (0.0005)	U (0.0005)	U (0.0015)	U (0.05)	U (0.385)	NM	416.62
<b>GCLs</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>2.2</b>	<b>1.5</b>	NA	NA

\*Ground Water monitoring has not occurred since September 15, 2004.

Appendix D: Tables of Historical Monitoring Data

Remediation Well RM-1

Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	GRO (mg/L)	DRO (mg/L)	Sodium mg/L	GW Elev (feet)
10-Oct-12	0.0425	15.4	3.08	16.7	175	10.8	NM	416.29
21-Feb-13	0.0251	7.25	2.14	11.3	69.9	10.7	NM	414.27
13-Aug-13	0.0432	12.2	1.80	10.4	39.9	9.27	NM	416.55
24-Sep-13	0.0246	6.09	0.942	6.83	27.2	12.6	NM	NM
19-Nov-13	0.0213	2.83	0.593	5.09	14.7	17.5	NM	415.53
19-Mar-14	0.0268	0.201	0.568	2.55	11.9	13.2	NM	414.37
31-Jul-14	U (0.0005)	0.15	0.084	0.51	1.8	1.7	NM	419.58
03-Mar-15	0.055	0.68	0.096	1.6	8.4	1.5	NM	402.63
27-Jul-15	0.084	0.770	0.360	2.9	12.0	5.2	NM	
23-Feb-16	U (0.001)	0.93	0.2	1.80	9.8	1.3	NM	414.75
06-Oct-16	0.0067	0.33	U (0.001)	0.71	3.5	0.74	NM	417.91
07-Jul-17	0.0087	0.69	0.45	2.73	12	3.3	NM	417.04
06-Sep-17	0.0050	0.74	0.270	2.000	7.6	0.92	NM	NM
07-Sep-18	0.00072	0.23	0.2	2.06	4.7	1.2	NM	413.04
30-Jul-19	U (0.15)	0.4	0.23	1.55	6.1	1.1	NM	415.38
24-Oct-19	(0.003) U	0.038	0.15	1.49	4.3	1.4	NM	NM
04-Aug-20	0.000539	0.1	0.131	1.32	2.81	1.23	47.2	417
15-Oct-20	0.00261 J	0.137	0.246	1.89	4.26	2.31	52.3	NM
12-Oct-21	0.000358 J	0.000503 J	0.142	1.25	5.34	2.22	67.3	417.82
<b>GCLs</b>	<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>NA</b>	<b>NA</b>

Remediation Well RM-2

Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	GRO (mg/L)	DRO (mg/L)	Sodium mg/L	GW Elev (feet)
29-Aug-19	0.00179	0.00209	0.0157	0.0666	0.479	0.384 J	22.9	NM
24-Oct-19	0.0046	0.058	0.089	0.342	2.00	0.45	32.0	NM
04-Aug-20	U (0.001)	U (0.001)	0.000505	0.000565	0.0135	U (0.800)	24.2	NM
15-Oct-20	0.0226	0.413	0.274	1.24	3.98	1.49	48.7	NM
30-Mar-21	0.0297	0.0541	0.352	0.74	4.16	1.21	41.1	NM
12-Oct-21	0.000496 J	U (0.001)	0.0401	0.0617	0.645	0.650 J	35.4	417.79
<b>GCLs</b>	<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>NA</b>	<b>NA</b>

Monitoring Well MW 17-1

Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	GRO (mg/L)	DRO (mg/L)	Sodium mg/L	GW Elev (feet)
29-Mar-18	2.9	6.6	1.2	8.5	U (100)	6	NM	NM
07-Sep-18	0.18	26	3.3	18	80	4.8	NM	NM
14-Mar-19	3	7.4	1.7	7.4	47	3.3	NM	415.28
30-Jul-19	0.36	9.2	3.4	14.9	88	3.9	NM	416.35
04-Aug-20	0.126	22.5	3.47	13.8	61.1	2.78	56	419.63
15-Oct-20	0.0231 J	0.254 J	0.305	2.1	5.9	4.03	58.1	418.92
30-Mar-21	0.000535 J	U (0.001)	0.0401	0.178	2.59	2.66	42.4	415.86
12-Oct-21	1.61 Q	5.27 Q	0.891 Q	3.69	30.9	3.68	93.9	417.63
<b>GCLs</b>	<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>NA</b>	<b>NA</b>

Appendix D: Tables of Historical Monitoring Data

Monitoring Well MW 17-2

Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	GRO (mg/L)	DRO (mg/L)	Sodium mg/L	GW Elev (feet)
29-Mar-18	U (0.30)	2.7	U (0.30)	2.11	22	12	NM	NM
07-Sep-18	0.18	3.2	0.66	4.5	17	15	NM	NM
14-Mar-19	0.047	0.94	0.094	1.49	4.2	10	NM	415.28
29-Jul-19	U (0.15)	1.8	0.5	3.9	16	8.5	NM	416.35
04-Aug-20	0.0505	0.477	0.2	415	5.03	20.5	91.4	419.67
15-Oct-20	0.00395 J	0.0235	0.0508	0.218	0.601	8.25	69.3	418.62
30-Mar-21	0.000952 J	U (0.001)	0.0132	0.0264	0.309	7.78	83.9	415.35
12-Oct-21	0.00157 J	0.00590	0.00324 J	0.0107 J	0.0560 B,J	3.22	67.5	418.57
<b>GCLs</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>2.2</b>	<b>1.5</b>	NA	NA

Key:

\* - Elevation may be biased due to presence of ice plug.

B - The same analyte is found in the associated blank.

DRO - diesel range organics

E - The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial

GCLs - ground water cleanup levels

GRO - gasoline range organics

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

mg/L - milligram per liter

NA - not applicable

NT - not tested

NM - not measured

Q - Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values

U - Undetected above practical quantitation limit.

**Bold**, shade indicates concentration exceeds the GCL or, if not detected, the practical quantitation limit exceeds the GCL