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COLDWATER ROAD LANDFILL - MID 005 356 860 POST-CLOSURE GROUNDWATER MONITORING REPORT



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1. INTRODUCTION

On behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust, Ramboll Americas Engineering Solutions, Inc. (Ramboll) has prepared this report to present the results of the semiannual groundwater sampling event conducted in June 2024 in accordance with the recently updated and approved 2024 Post-Closure Care Plan (PCCP) (**Figure 1**).

2. SAMPLING AND ANALYSIS

During this event groundwater samples were collected from six monitoring wells screened in perched zone (B-7, B-9, B-18A, B-19AR, B-24R, and B-28) and six monitoring wells screened in the drift unit (B-20D, B-21D, B-22D, B-23DR, B-27D, and OBG MW-16D). Samples were collected during the weeks of June 3, 2023, and June 10, 2024.

The groundwater samples were analyzed for specific conductivity (Method 120.1), chloride (Method 300.0), cyanide (CN, Method 335.4), sulfate (Method 300.0), phenols (Method 420.1), total organic carbon (TOC, Method 5310C), total organic halides (TOX, Method 9020B), volatile organic compounds (VOCs, Method 8260C), dissolved metals (chromium [Cr], copper [Cu], nickel [Ni], zinc [Zn], iron [Fe], manganese [Mn]), and total sodium ([Na], Method 200.8).

The event also included field measurements for pH, specific conductivity, dissolved oxygen, oxidation reduction potential, temperature, and turbidity. Groundwater samples from the perched zone were collected using a peristaltic pump (B-7, B-9, B-18A, B-19AR, B-24R, and B-28) or Whale pump. The wells were purged "dry", allowed to recharge, and the samples were collected as soon as sufficient water was present to obtain the necessary sample volume. This was done in accordance with Ramboll procedures and the site-specific Field Method Guide (**Appendix A**) because low-flow sampling techniques resulted in greater than 0.3 ft of drawdown in each of the perched zone wells sampled during this event. Monitoring well B-28 sample was collected during purging after more than three well volumes were purged.

Groundwater samples from the drift unit were collected using a bladder pump and low-flow sampling techniques. Samples to be analyzed for dissolved metals were field filtered. Groundwater sampling logs are included in **Appendix B**.

Well gauging was conducted on June 3, 2024, and sampling occurred between June 4, 2024, and June 10, 2024. The results are presented in three separate tables: **Table 1** - Depth to Groundwater Levels in Monitoring Wells; **Table 2** - Post-Closure Monitoring - Historical Analytical Results (Physical Parameters, TOC, TOX, and Metals); and **Table 3** - Post-Closure Monitoring - Analytical Results (Volatile Organics). Laboratory analytical reports are included in **Appendix C**.

In accordance with the 2024 PCCP, the monitoring wells were re-surveyed by a licensed land surveyor on May 20, 2024. The new top of casing elevations were utilized in the construction of the groundwater contour maps. The top of casing elevations generally increased, ranging from 0.01 feet at monitoring well B-20D to 0.13 feet at B-28. Monitoring wells B-7 and B-9 had a decrease in top of casing evaluation of 0.04 feet and B-18A had a decrease of 0.14 feet.

A Site location map (**Figure 1**) and monitoring well location (*i.e.*, Site layout) map (**Figure 2**) are also included. A groundwater elevation contour map was prepared for the perched zone (**Figure 3**) and a potentiometric surface contour map was prepared for the deeper drift unit (**Figure 4**). Additional site monitoring wells (not part of the landfill monitoring program) were used to aid in the creation of the contour maps. When reviewing the groundwater elevation contour map for the perched zone please keep in mind that groundwater in the perched zone includes discontinuous perched saturated zones within an otherwise clayey matrix.

Based on these contours, the groundwater flow direction in the perched zone appears to continue to be predominantly toward the northwest but turning toward the west in the westward extension

of the Site. The perched zone static water elevations were generally higher compared to the previous gauging event (November 2023), yet consistent with historical data.

The drift unit static water elevations were consistent with historical data and the previous gauging event (November 2023). Groundwater in the drift unit flows in a southerly direction.

Review of the analytical data presented in the attached tables indicates analytical results similar to previous sampling events, a summary of the data is provided below:

- Chromium concentrations were not detected above the reporting limit of 5 µg/l, except in monitoring well B-19AR at a concentration of 7 µg/l. The results were within the range of the historical results, which ranged from below the reporting limit to 37 µg/l at B-9 (8/31/1995).
- Copper concentrations were not detected above the reporting limit of 5 µg/l, except in monitoring well B-19AR at a concentration of 9 µg/l. The results were within the range of the historical results, which ranged from below the reporting limit to 203 µg/l at OBG MW-16D (6/25/2009).
- Nickel concentrations were not detected above the reporting limit of 5 µg/l. The results were within the range of the historical results, which ranged from below the reporting limit to 370 µg/l at B-22D (6/21/1995).
- Zinc concentrations ranged from below the reporting limit of 5 µg/l in monitoring wells B-9, B-20D, MW-DUP-06102024 (B-20D), B-21D, B-22D, B-23DR, B-27D, B-28D, and OBG MW-16D to 10 µg/l in monitoring wells B-18A and B-19AR. The results were within the range of the historical results, which ranged from below the reporting limit to 150 µg/l at B-18A (6/21/1995).
- Iron concentrations ranged from below the reporting limit of 20 µg/l in wells B-9 and B-24R to 2,010 µg/l in monitoring well OBG-MW-16D. The results were within the range of historical results, which ranged from below the reporting limit to 10,600 µg/l at B-24R (6/7/2005).
- Manganese concentrations ranged from below the reporting limit of 5 µg/l in monitoring well B-7 to 85 µg/l in monitoring well B-28. The results were within the range of historical results, which ranged from below the reporting limit to 1,900 µg/l at B-9 (6/5/2007).
- Sodium concentrations ranged from 11,000 µg/l in monitoring well OBG MW-16D to 67,400 µg/l in monitoring well B-24R. The results were within the range of the historical results, which ranged from 7,280 µg/l in monitoring well OBG MW-16D (6/25/2014) to 114,000 µg/l at B-19AR (12/9/2004).
- TOC concentrations ranged from below the reporting limit 1.0 mg/l in monitoring well B-18A, B-21D, B-23DR, and B-27D to 4.3 mg/l in monitoring well B-7. The results were within the range of the historical results, which ranged from below the reporting limit to 71 mg/l at B-9 (11/13/1996).
- TOX concentrations ranged from below the reporting limit of 10 µg/l in monitoring well B-20D, MW-DUP-06102024 (B-20D), B-22D, B-23DR, B-27D, B-28, OBG MW-16D to 14.8µg/l in monitoring well B-9. Four samples (B-18A, B-19AR, B-21D, and B-24R) had an estimated value less than the reporting limit, but greater than the method detection limit and were qualified with a "J" value. The results were within the range of the historical results, which ranged from below the reporting limit to 230 µg/l at B-7 (11/30/2016).

- pH concentrations ranged from 6.76 in monitoring well B-9 to 7.46 in monitoring wells B-22D. The results were within the range of the historical results, which ranged from 4.60 in monitoring well B-7 (11/5/1998) to 9.73 in monitoring well B-18A (12/8/2005).
- Specific conductivity ranged from 645 $\mu\text{s}/\text{cm}$ in monitoring well B-27D to 2,025 $\mu\text{s}/\text{cm}$ in monitoring well B-9. The results were within the range of the historical results, which ranged from 405 $\mu\text{s}/\text{cm}$ in monitoring well OBG MW-16D (11/5/1999) to 3,290 $\mu\text{s}/\text{cm}$ in monitoring well B-9 (11/20/2008).
- Chloride concentrations ranged from below the reporting limit of 10 mg/l in monitoring wells B-20D, MW-DUP-06102024 (B-20D), B-21D, B-22D, B-27D, and OBG MW-16D to 98.8 mg/l in monitoring well B-19AR. The results were within the range of the historical results, which ranged from below the reporting limit to 163 mg/l at B-24R (12/23/1998).
- Sulfate concentrations ranged from 18.9 mg/l in monitoring well B-27D to 709 mg/l in monitoring well B-9. The results were within the range of the historical results, which ranged from 14 mg/l in monitoring well B-27D (6/11/2021) to 1,350 mg/l in monitoring well B-9 (12/9/2004).
- Cyanide was not detected above the reporting limit of 0.004 mg/l in the monitoring wells sampled during the June 2024 sampling event, which is consistent with historical results of being non-detect.
- Phenols were not detected above the reporting limit of 0.02 mg/l in the monitoring wells sampled during the June 2024 sampling event, which is consistent with historical results of being non-detect.
- VOC concentrations were not detected above the respective reporting limits in the monitoring wells sampled during the June 2024 sampling event, which is consistent with historical results of being non-detect or having one or two parameters slightly above the reporting limit.

During this sampling event there were confirmed spikes (*i.e.*, current concentration exceeds the mean plus one standard deviation) for two constituents (chromium and copper) in monitoring well B-19AR, which required further evaluation of the well and the data for the associated leak detection vault and sump closest to B-19AR (*i.e.*, Vault A and Sump A) in accordance with Section 5.7.2 of the 2024 PCCP. The analytical tables for Vault A and Sump A data are contained in **Appendix D**.

A summary of the further evaluation indicated:

- The spikes could be attributed to the concentrations in the well historically being non-detect, which would cause slight detections to become spikes. Chromium (7 $\mu\text{g}/\text{l}$) and copper (9 $\mu\text{g}/\text{l}$) concentrations were slightly higher than historical results that have generally been non-detects; however, metals have also been detected in the past, and the recent concentrations were below the all-time high for chromium (14 $\mu\text{g}/\text{l}$) and copper (108 $\mu\text{g}/\text{l}$) in B-19AR.
- There does not appear to be a correlation between B-19AR concentrations and concentrations in Vault A. In Vault A, chromium (below the method detection limit 5 $\mu\text{g}/\text{l}$) and copper (below the method detection limit 5 $\mu\text{g}/\text{l}$) were not detected. In Sump A, chromium was detected at a concentration of 237 $\mu\text{g}/\text{l}$ and copper was detected at a concentration of 310 $\mu\text{g}/\text{l}$. Presumably,

a release from the landfill from Cell A (as represented by the Sump A concentrations) would first be detected in Vault A prior to being detected in groundwater adjacent to the landfill, and the Vault A results do not provide an indication of a release from the landfill.

- There does not appear to be a correlation between B-19AR concentrations and concentration in adjacent monitoring wells B-18A and B-24R. In B-18A and B-24R, chromium (below the method detection limit 5 µg/l) and copper (below the method detection limit 5 µg/l) were not detected.
- pH decreased in monitoring well B-19AR (7.07) and in Vault A (6.86) during the most recent sampling event. The pH concentrations were below the pH result from Sump-A of 8.04, and no increasing trend was observed in B-19AR, or Vault A. pH remains generally stable and within historical ranges.
- Specific conductivity decreased in monitoring well B-19AR (1,166 µs/cm) and in Vault A (1,389 µs/cm) during the most recent sampling event. The specific conductivity results were below the result from Sump-A of 1,681 µs/cm, and no increasing trend was observed in B-19AR, or Vault A. Specific conductivity remains generally stable and within historical ranges.
- B-19AR was first purged dry with a Whale pump, and then allowed to recover (approximately 49 hours) prior to sample collection. The spikes of chromium and copper could also be attributed to metals (*i.e.*, sediment) entrainment due to the high turbidity from the well purging activities. The turbidity was 101 nephelometric turbidity units (NTUs) prior to the collection of the metals sample and was 17 NTUs in the field-filtered water placed into the sample bottle.

The confirmed spikes of chromium and copper in B-19AR were not confirmed by or correlated with the concentrations of metals, pH, or specific conductivity in the closest associated leak detection vault and monitoring wells (B-18A and B-24R) and is not attributable to a release from the landfill.

3. SUMMARY

The data verification indicates that the overall usability of the groundwater monitoring data is acceptable for the intended use without further qualification or rejection of the data. Details of the data verification results for the groundwater monitoring data are included in **Appendix E**.

The relative percent difference (RPD) for the duplicate sample results for B-20D and MW-DUP-06102024 (B-20D) were within acceptable limits.

There were no exceedances of the Shewhart control limits during this sampling event. The Shewhart control charts are included as **Appendix F**.

There were significant negative (decreasing) trends for specific conductivity in monitoring wells B-20D and B-23DR, and significant positive (increasing) trends for pH in monitoring wells B-24R and B-28 this monitoring event. In addition to the confirmed spikes in monitoring well B-19AR discussed above, there was a confirmed spike at monitoring well B-28 for specific conductivity. There were no other confirmed spikes at B-28 during this sampling event; therefore, further evaluation of the spike was not required, per the 2024 PCCP. The trends were calculated using regression analysis over the last four sampling events per the 2024 PCCP.

The trends and spikes do not suggest there was a release from the landfill because concentrations of other metals/parameters were consistent with previous results and do not support that a release has occurred, including data from the landfill sumps and vaults. The trends will continue to be evaluated during future sampling events. No other trends or spikes were observed during this monitoring event, and trends and spikes will continue to be monitored during future sampling events.

The recent spikes and Shewhart control limit exceedances have been due to background data sets for metals that are largely based on non-detects resulting in very low background means and standard deviations. As proposed in the August 2023 Semiannual Groundwater Monitoring Report, Ramboll is proposing for EGLE's consideration that if there is a spike or Shewhart exceedance with a concentration of 10 µg/l or less for chromium, copper, nickel, and zinc, then further evaluation or resampling will not be required, and the exceedance will be reported and evaluated within the semiannual report. Ten (10) µg/l is recommended as a trigger for resampling for chromium, copper, nickel, and zinc because of the very low standard deviations from baseline results. A concentration of 10 µg/l would not diminish the ability to detect a leak from the landfill and would still provide adequate monitoring of the integrity of the landfill. Significant spikes and Shewhart control exceedances would still be detected and evaluated. Increasing the trigger concentration for resampling would help reduce the number of "false positive" out-of-control outcomes.

The next sampling event (annual event) is currently scheduled for November 2024. If you have any questions, please feel free to contact Clifford Yantz at (313) 333-0211.

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

On Behalf of RACER Trust



Clifford S. Yantz
Managing Hydrogeologist – Ramboll Americas Engineering Solutions, Inc.
Agent for RACER Trust

Date: August 30, 2024

cc: file

TABLES



TABLE 1
RACER Trust - Coldwater Road
Depth to Groundwater Levels in Monitoring Wells

June 3, 2024

Well ID	Top of Casing Elevation (ft)*	Depth to Water (ft)	Static Water Elevation (ft)
<i>Landfill Monitoring Wells</i>			
B-7	813.67	16.50	797.17
B-9	807.37	3.00	804.37
B-18A	810.99	20.44	790.55
B-19A	812.66	8.38	804.28
B-19AR	811.78	38.05	773.73
B-20D	815.13	68.77	746.36
B-21D	821.01	79.21	741.80
B-22D	822.16	83.39	738.77
B-23DR	812.09	80.01	732.08
B-24R	816.09	12.38	803.71
B-27D	812.62	74.67	737.95
B-28	816.33	4.18	812.15
OBG MW-16D	807.42	56.62	750.80
<i>former WWTP Monitoring Wells</i>			
OBG MW-1	811.56	4.90	806.66
OBG MW-2	813.77	7.35	806.42
OBG MW-3	810.09	4.20	805.89
OBG MW-4	812.66	5.60	807.06
OBG MW-5	816.04	7.38	808.66
OBG MW-6	815.75	11.45	804.30
OBG MW-7	813.47	7.35	806.12
OBG MW-8	817.50	9.60	807.90
OBG MW-9	809.97	3.70	806.27
OBG MW-10	811.54	--	--
<i>Additional Site Monitoring Wells</i>			
OBG MW-11	801.94	4.62	797.32
OBG MW-12D	797.13	46.15	750.98
OBG MW-12S	796.88	7.84	789.04
OBG MW-13	801.81	5.19	796.62
OBG MW-14	810.98	6.15	804.83
OBG MW-15D	810.68	78.70	731.98
OBG MW-17D	800.09	49.20	750.89
OBG MW-17S	800.51	10.62	789.89
OBG MW-18D	800.17	49.10	751.07
OBG MW-18S	799.32	12.72	786.60
OBG MW-19D	795.37	47.60	747.77
OBG MW-20	783.93	27.20	756.73
OBG MW-21	797.49	4.82	792.67
OBG MW-22	794.11	3.71	790.40
OBG MW-23 (D)	776.76	27.12	749.64
OBG MW-24	781.50	5.35	776.15
OBG MW-25R	786.61	5.50	781.11
OBG MW-26R	772.38	4.19	768.19
OBG MW-27R (D)	772.46	22.58	749.88
OBG MW-28	800.35	11.60	788.75
OBG MW-29 (D)	773.28	24.01	749.27
<i>Piezometers</i>			
PZ-3R	788.37	8.65	779.72
<i>Peregrine Site Wells</i>			
MW-19-13	807.85	2.40	805.45
MW-20-13	810.81	4.78	806.03
MW-15-10	808.15	75.98	732.17
MW-16-10	798.64	66.36	732.28
PFW-1	809.51	76.92	732.59

Notes

Casing elevations were provided by Norwy & Hale Surveyors and are in feet relative to National Geodetic Vertical Datum.

-- No data.

R - Indicates a replacement well location.

Monitoring wells OBG MW-25, PZ-2, and PZ-3 were abandon on July 7, 2020 as part of the onsite berm construction. OBG MW-25 and PZ-3 were replaced in December 2022.

Monitoring wells OBG MW-26, and OBG MW-27 were abandon and replaced in October 2023.

TABLE 2
RACER Trust - Coldwater Road
Post-Closure Monitoring - Historical Analytical Results
Physical Parameters, TOC, TOX, Metals, Chloride, Cyanide, Phenols, and Sulfate

Monitoring Well	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)						Inorganics (mg/L)				
		TOC (mg/L)	TOX (µg/L)	pH	SpC	Temp	Cr	Cu	Ni	Zn	Fe	Mn	Na	Chloride	Cyanide	Phenols	Sulfate
		EGLR Residential Drinking Water Criteria & RBSLs					100 (A)	1,000 (E)	100 (A)	2,400							
B-2D	6/21/1995	5.3	<10	9.01	434	15.0	<20	<20	<30	<20	--	--	--	--	--	--	--
	8/31/1995	6.3	130	8.27	479	14.4	<20	<20	<40	<20	--	--	--	--	--	--	--
	2/9/1996	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/19/1996	5.2	<100	7.52	580	12.4	<20	<20	<20	<20	--	--	--	--	--	--	--
	8/21/1996	7.4	<5	7.69	641	13.9	<20	<20	<20	50	--	--	--	--	--	--	--
	11/13/1996	11.0	<5	7.26	769	7.6	<20	<20	<20	30	--	--	--	--	--	--	--
	5/6/1997	26.0	<100	6.30	1500	7.0	10	<10	28	30	--	--	--	--	--	--	--
	11/6/1997	15.0	<100	6.90	660	9.0	<10	<10	39	<10	280	577	--	12	<0.005	<0.020	79
	5/4/1998	29.0	12	6.68	549	12.4	<10	<10	<5	<10	--	--	--	--	--	--	--
	11/5/1998	52.0	18	4.70	498	8.6	<10	<10	<5	10	<10	17	33,600	--	--	--	--
	12/23/1998	--	--	--	--	--	--	--	--	--	--	--	--	13	<0.005	<0.020	40
	4/26/1999	52.0	<100	8.50	523	14.5	<10	<10	<5	<10	--	--	--	--	--	--	--
	11/5/1999	6.4	<100	7.40	405	12.8	<10	<10	<5	40	70	21	35,100	4	<0.005	<0.020	42
	4/26/2000	5.4	<100	7.96	770	17.4	<10	<10	<5	<10	--	--	--	--	--	--	--
	12/8/2000	5.5	<10	6.68	610	9.7	<10	<10	9	<10	40	--	22,900	7	<0.005	<0.020	81
	5/15/2001	5.5	<100	7.79	890	13.2	<10	<10	<5	<10	--	--	--	--	--	--	--
	10/18/2001	4.1	<100	7.43	1830	9.4	<10	<10	<5	<10	230	--	12,900	2	<0.005	<0.020	32
	10/18/2001	3.6	<100	7.39	1780	7.8	<10	<10	<5	<10	210	--	12,700	1	<0.005	<0.020	32
	5/16/2002	4.0	<100	7.19	1000	11.6	<10	<10	<5	<10	--	--	--	--	--	--	--
	11/7/2002	2.6	<30	7.38	490	9.5	<5	<5	<5	<5	140	8	11,900	2	<0.005	<0.020	32
11/7/2002	2.7	<30	--	--	--	<5	<5	<5	<5	140	6	11,200	2	<0.005	<0.020	30	
6/3/2003	4.4	<30	6.91	530	12.9	<5	<5	<5	<5	--	--	--	--	--	--	--	
11/13/2003	2.8	<30	7.97	630	7.7	<5	<5	<5	<5	110	7	--	2	<0.005	<0.010	31	
6/30/2004	4.2	<30	6.28	570	15.8	<5	<5	<5	7	--	--	--	--	--	--	--	
12/10/2004	2.0	<30	6.83	550	10.2	<5	<5	<5	10	760	145	10,700	2	<0.005	<0.010	35	
6/8/2005	2.0	<30	7.95	620	11.5	<5	<5	<5	<5	660	199	10,900	<5	<0.005	<0.010	34	
12/8/2005	3.0	<30	6.89	642	10.2	9	<4	<5	<10	140	120	13,300	--	--	--	--	
6/28/2006	6.3	<30	7.41	671	12.2	<5	<4	<5	8	110	70	15,000	2	<0.005	<0.010	50	
6/28/2006	5.1	<30	7.41	682	12.2	<5	<4	<5	8	120	70	15,200	3	<0.005	<0.010	50	
11/30/2006	5.1	43.3	7.21	677	8.4	<5	<4	<5	18	--	--	--	--	--	--	--	
6/8/2007	2.4	69.1	6.78	644	14.1	8	2	1	6	110	104	14,800	4	<0.005	<0.010	44	
11/14/2007	5.2	<30	7.06	783	14.9	1	1	4	9	--	--	--	--	--	--	--	
6/25/2008	5.7	<60	6.90	920	18.4	<5	1	5	7	350	32	26,100	10	<0.005	<0.010	98	
11/20/2008	4.5	<30	6.84	806	9.1	<5	<1	<5	<5	--	--	--	--	--	--	--	
6/25/2009	5.6	<30	6.95	924	23.7	<5	203	<5	113	22	77	29,700	10	<0.005	<0.010	104	
11/16/2009	4.0	<30	7.17	835	10.2	<5	<4	<5	6	--	--	--	--	--	--	--	
6/16/2010	5.0	<30	7.09	841	13.9	<5	<4	<5	<5	40	83	19,000	7	<0.005	<0.020	75	
11/10/2010	4.0	<30	7.17	779	11.3	11	<4	<5	<5	--	--	--	--	--	--	--	
6/21/2011	2.9	<30	6.99	742	19.3	9	<4	<5	<5	250	55	16,900	6	<0.005	<0.010	57	
6/21/2011	--	--	--	--	--	<5	--	--	--	--	--	--	--	--	--	--	
11/15/2011	3.0	16	7.05	751	11.3	<5	<4	<5	<5	--	--	--	--	--	--	--	
6/27/2012	2.2	16	7.00	714	12.7	<5	<4	<5	<5	<20	25	17,300	<5	<0.005	<0.02	43	
12/6/2012	2.6	<40	7.47	714	10.2	<5	<4	<5	<5	--	--	--	--	--	--	--	
6/6/2013	1.6	<10	6.78	742	12.5	<5	<4	<5	26	990	31	24,400	<5	<0.005	<0.02	68	
11/6/2013	2.6	<10	7.34	726	11.8	<5	<4	<5	<5	--	--	--	--	--	--	--	
6/25/2014	2.6	<30	7.27	717	12.8	<5	<5	11	7	<20	26	7,280	<5	<0.005	<0.02	48	
6/24/2015	2.2	<30	7.12	621	12.4	<5	<5	<5	<5	<20	11	15,100	<5	<0.005	<0.02	41	
6/27/2016	2.6	55	6.42	730	17.2	<5	<5	<5	<5	40	<5	16,100	<5	<0.005	<0.02	50	
6/22/2017	2.3	<30	7.09	691	12.5	<5	<5	<5	<5	20	7	15,500	<5	<0.005	<0.02	44	
6/13/2018	2.1	<60	6.85	679	14.1	<5	<5	<5	5	2,640	162	13,400	<5	<0.005	<0.02	40	
OBG MW-16D	11/7/2018	3.3	<150	7.60	657	9.7	<5	<5	<5	<5	2,870	47	18,400	<5	<0.005	<0.02	32
	6/4/2019	5.0	<150	7.91	501	12.4	<5	<5	<5	6	340	53	15,800	<10	<0.004	<0.02	32
	6/18/2020	2.7	<40	7.70	590	13.2	<5	<5	<5	<5	1,090	62	11,500	<10	<0.004	<0.02	30
	6/10/2021	3.3	<10	7.47	636	13.5	<5	<5	<5	<5	1,940	61	12,400	<10	<0.004	<0.02	28
	6/10/2022	4.0	<10	7.45	641	12.2	<5	<5	<5	<5	2,050	58	10,800	<10	<0.004	<0.02	30
	6/12/2023	1.8	6.10 J	7.37	653	12.2	<5	<5	<5	<5	2,320	62	10,100	<10	<0.004	<0.02	29
	6/10/2024	1.6	<10	7.45	650	12.1	<5	<5	<5	<5	2,010	59	11,000	<10	<0.004	<0.02	34.4

See notes on page 13.

TABLE 2
RACER Trust - Coldwater Road
Post-Closure Monitoring - Historical Analytical Results
Physical Parameters, TOC, TOX, Metals, Chloride, Cyanide, Phenols, and Sulfate

Monitoring Well	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)							Inorganics (mg/L)			
		TOC (mg/L)	TOX (µg/L)	pH	SpC	Temp	Cr	Cu	Ni	Zn	Fe	Mn	Na	Chloride	Cyanide	Phenols	Sulfate
		EGLE Residential Drinking Water Criteria & RBSLs					100 (A)	1,000 (E)	100 (A)	2,400							
B-7	6/21/1995	8.7	23	7.48	1509	13.8	<20	<20	<30	<20	--	--	--	--	--	--	--
	8/31/1995	--	--	--	--	--	<20	<20	<40	<20	--	--	--	--	--	--	--
	2/9/1996	14.0	120	--	--	--	<20	<20	<40	22	--	--	--	--	--	--	--
	6/19/1996	20.0	<100	6.91	1,508	13.2	<20	<20	<20	20	--	--	--	--	--	--	--
	8/21/1996	55.0	26	7.59	1,567	17.1	<20	<20	<20	60	--	--	--	--	--	--	--
	11/13/1996	27.0	<5	7.95	1,960	7.2	<20	<20	<20	50	--	--	--	--	--	--	--
	5/6/1997	16.0	<100	7.20	780	11.0	<10	10	14	10	--	--	--	--	--	--	--
	11/6/1997	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/4/1998	6.0	<5	6.61	1,270	10.7	<10	<10	<5	20	--	--	--	--	--	--	--
	11/5/1998	4.0	<10	4.60	1,240	11.2	<10	<10	8	30	10	424	31,000	--	--	--	--
12/23/1998	--	--	--	--	--	--	--	--	--	--	--	--	58	<0.005	<0.020	161	
4/26/1999	3.9	<100	7.50	1,413	14.2	<10	<10	10	<10	--	--	--	--	--	--	--	
11/5/1999	5.1	<100	6.50	1,230	14.2	<10	<10	8	30	260	313	41,800	64	<0.005	<0.020	301	
4/26/2000	4.8	<100	7.58	1,450	10.2	<10	<10	<5	<10	--	--	--	--	--	--	--	
4/26/2000	5.9	<100	NS	NS	NS	<10	<10	6	10	--	--	--	--	--	--	--	
12/8/2000	4.2	<10	7.05	1,180	9.5	<10	<10	20	10	50	--	58,900	79	<0.005	<0.020	227	
5/16/2001	5.0	<100	7.30	1,330	13.0	<10	<10	7	<10	--	--	--	--	--	--	--	
10/18/2001	5.3	<100	7.19	1,210	12.5	<10	<10	5	<10	330	--	60,800	81	<0.005	NA	205	
5/16/2002	3.9	<100	7.19	1,850	11.9	<10	<10	<5	10	--	--	--	--	--	--	--	
11/7/2002	NR	NR	7.35	1,120	10.3	<5	<5	5	5	250	<5	65,500	NA	NA	NA	NA	
6/4/2003	3.3	<30	6.90	1,460	12.6	<5	<5	<5	<5	--	--	--	--	--	--	--	
11/13/2003	3.9	<30	6.90	1,590	9.6	<5	<5	<5	5	190	<5	--	85	<0.005	<0.010	279	
6/30/2004	4.3	43	7.13	1,353	16.0	<5	<5	9	7	--	--	--	--	--	--	--	
12/9/2004	4.0	<30	5.32	1,290	10.8	<5	<5	7	14	180	74	71,200	78	<0.005	<0.010	251	
6/8/2005	7.0	86	7.36	1,121	10.9	5	<5	9	13	170	31	81,900	80	<0.005	<0.010	254	
12/7/2005	7.5	<30	8.70	1,430	12.2	10	<4	6	20	150	50	85,300	--	--	--	--	
6/29/2006	4.3	<30	7.19	1,470	11.7	5	<4	9	18	190	150	76,900	73	<0.005	<0.010	270	
11/29/2006	4.4	<30	6.88	1,380	15.3	<5	<4	9	11	--	--	--	--	--	--	--	
6/7/2007	3.9	23.7	6.87	1,400	13.4	11	27	5	14	130	42	87,300	72	<0.005	<0.010	208	
11/14/2007	3.5	<30	6.85	1,350	13.4	14	6	16	20	--	--	--	--	--	--	--	
6/25/2008	3.8	72.9	6.90	1,410	20.7	<5	3	6	<5	350	10	94,800	68	<0.005	<0.010	222	
11/17/2008	4.6	20.5	6.80	1,258	5.5	<5	3	5	17	--	--	--	--	--	--	--	
6/24/2009	4.5	<30	6.90	1,184	20.0	<5	3	<5	14	67	36	84,500	40	<0.005	<0.010	154	
11/17/2009	8.0	25.3	7.31	1,090	10.3	<5	<4	<5	<5	--	--	--	--	--	--	--	
6/17/2010	5.0	<30	7.04	1,290	16.3	<5	<4	<5	<5	<20	47	86,000	61	<0.005	<0.020	160	
11/8/2010	8.0	103	7.16	997	13.9	17	<4	<5	<5	--	--	--	--	--	--	--	
6/22/2011	4.3	25	7.25	910	13.7	10	<4	5	6	220	6	55,200	26	<0.005	<0.010	88	
6/22/2011	--	--	--	--	--	<5	--	--	--	--	--	--	--	--	--	--	
11/16/2011	5.0	28	7.04	974	12.8	<5	6	8	11	--	--	--	--	--	--	--	
6/27/2012	3.7	97	6.77	1,082	15.0	<5	<4	<5	<5	<20	58	64,900	40	<0.005	<0.02	134	
12/6/2012	7.9	<40	7.12	825	8.7	<5	4	<5	9	--	--	--	--	--	--	--	
6/5/2013	4.5	6	7.24	921	14.0	<5	<4	<5	24	30	13	27,500	32	<0.005	<0.02	106	
11/4/2013	8.7	16	7.10	733	11.6	14	6	<5	<5	--	--	--	--	--	--	--	
6/25/2014	--	--	7.10	--	13.3	--	--	--	--	--	--	--	--	--	--	--	
11/18/2014	6.5	28	7.31	896	4.8	<5	6	6	6	--	--	--	--	--	--	--	
6/24/2015	4.2	<30	6.98	1,019	16.3	<5	<5	<5	<5	<20	69	58,900	36	<0.005	<0.02	122	
11/18/2015	3.7	16	7.06	1,231	14.7	<5	<5	7	7	--	--	--	--	--	--	--	
6/23/2016	3.9	77	7.14	852	15.1	<5	<5	<5	<5	30	41	41,700	22	<0.005	<0.02	82	
11/30/2016	5.3	230	7.21	880	13.3	<5	<5	<5	<5	--	--	--	--	--	--	--	
6/21/2017	3.9	12	6.78	1,092	11.0	<5	<5	<5	<5	40	37	51,700	41	<0.005	<0.02	155	
11/7/2017	6.5	39	6.94	841	10.8	<5	5	<5	<5	--	--	--	--	--	--	--	
6/12/2018	4.2	<60	6.95	932	11.0	<5	<5	<5	10	230	26	39,800	27	<0.005	<0.02	116	
11/7/2018	6.5	170	7.25	952	11.4	<5	<5	<5	<5	--	--	--	--	--	--	--	
5/30/2019	6.0	<150	7.35	737	10.7	<5	<5	<5	7	40	<5	32,400	20	<0.004	<0.02	110	
11/21/2019	5.4	<40	7.44	910	12.5	<5	<5	<5	5	--	--	--	--	--	--	--	
6/18/2020	5.6	<40	7.33	728	15.3	<5	<5	<5	<5	130	41	35,400	27	<0.004	<0.02	145	
11/5/2020	6.2	21.0	6.92	1,126	13.5	<5	<5	<5	<5	--	--	--	--	--	--	--	
6/11/2021	6.3	15.0	7.08	1,057	18.8	<5	<5	<5	6	90	6	43,700	27	<0.004	<0.02	167	
11/5/2021	6.6	21.2	7.15	927	13.0	<5	<5	<5	<5	--	--	--	--	--	--	--	
6/8/2022	7.9	13.5	7.00	1,070	14.97	<5	<5	<5	8	20	9	49,000	33	<0.004	<0.02	171	
11/2/2022	6.4	32.9	6.97	1,073	12.97	<5	6	<5	11	--	--	--	34	--	--	--	
6/9/2023	4.4	18.0	7.04	965	15.16	<5	<5	<5	<5	<20	23	40,700	28	<0.004	<0.02	160	
11/8/2023	5.4	24.7	7.14	1,010	8.29	<5	<5	<5	<5	--	--	--	--	--	--	--	
6/6/2024	4.3	11.5	7.07	1,015	16.21	<5	<5	<5	7	20	<5	41,700	27.2	<0.004	<0.02	159	

See notes on page 13.

TABLE 2
RACER Trust - Coldwater Road
Post-Closure Monitoring - Historical Analytical Results
Physical Parameters, TOC, TOX, Metals, Chloride, Cyanide, Phenols, and Sulfate

Monitoring Well	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)							Inorganics (mg/L)			
		TOC (mg/L)	TOX (µg/L)	pH	SpC	Temp	Cr	Cu	Ni	Zn	Fe	Mn	Na	Chloride	Cyanide	Phenols	Sulfate
		EGLE Residential Drinking Water Criteria & RBSLs					100 (A)	1,000 (E)	100 (A)	2,400							
B-9	6/21/1995	3.5	34	7.68	2,400	14.6	<20	<20	<30	<20	--	--	--	--	--	--	--
	8/31/1995	3.9	<10	7.72	1,829	14.8	37	43	<40	<20	--	--	--	--	--	--	--
	2/9/1996	3.1	<10	7.34	2,860	8.0	<20	<20	<40	<20	--	--	--	--	--	--	--
	6/19/1996	2.1	<100	6.81	2,550	11.5	<20	<20	<20	<20	--	--	--	--	--	--	--
	8/21/1996	2.3	<5	8.04	2,310	16.4	<20	<20	<20	70	--	--	--	--	--	--	--
	11/13/1996	71.0	<5	6.79	3,280	9.2	<20	<20	<20	40	--	--	--	--	--	--	--
	5/6/1997	3.0	<100	6.80	2,600	10.0	<10	<10	51	20	--	--	--	--	--	--	--
	11/6/1997	2.0	<100	6.50	2,800	11.0	<10	<10	183	40	650	741	--	141	<0.005	<0.020	1,178
	5/4/1998	3.0	<5	6.58	2,400	14.5	10	10	18	40	--	--	--	--	--	--	--
	11/5/1998	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	--
	12/23/1998	--	--	--	--	--	--	--	--	--	--	--	--	NS	NS	NS	NS
	4/26/1999	4.0	<100	7.69	1,860	12.2	<10	<10	19	20	--	--	--	--	--	--	--
	11/5/1999	2.5	<100	6.75	2,340	15.4	<10	<10	20	30	610	1280	47,100	128	<0.005	<0.020	1,222
	4/26/2000	5.5	<100	7.56	2,780	9.5	<10	<10	12	30	--	--	--	--	--	--	--
	12/8/2000	5.0	<10	7.56	2,400	7.8	<10	<10	46	<10	50	--	69,500	142	<0.005	<0.020	1,246
	5/16/2001	4.8	<100	7.41	1,070	12.6	<10	<10	7	10	--	--	--	--	--	--	--
	10/17/2001	4.0	<100	7.54	2,130	10.8	<10	<10	8	20	940	--	66,000	122	<0.005	NA	1,150
	5/16/2002	1.9	<100	7.19	2,470	11.6	<10	<10	7	10	--	--	--	--	--	--	--
	11/7/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/4/2003	2.2	57	6.78	2,690	10.7	<5	<5	15	13	--	--	--	--	--	--	--
	11/13/2003	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/30/2004	3.8	NS	6.91	2,379	12.7	<5	8	19	28	--	--	--	--	--	--	--
	12/9/2004	3.0	<30	5.88	2,480	11.4	<5	<5	11	19	570	248	55,900	149	<0.005	<0.010	1,350
	6/8/2005	4.0	<30	7.09	2,116	10.3	6	6	12	17	480	701	58,300	128	<0.005	<0.010	1,160
	12/7/2005	5.0	<30	8.58	2,830	11.9	11	5	12	40	320	410	58,500	--	--	--	--
6/29/2006	1.9	<30	6.82	2,820	12.4	6	6	13	19	390	330	63,600	125	<0.005	<0.010	1,150	
11/30/2006	2.7	36.7	7.15	2,830	12.5	<5	6	<5	14	--	--	--	--	--	--	--	
6/5/2007	2.1	<30	6.70	2,770	11.0	12	6	24	21	320	1,900	67,300	112	<0.005	<0.010	1,120	
11/16/2007	2.0	27.4	6.67	3,000	9.4	2	6	24	18	--	--	--	--	--	--	--	
7/2/2008	1.8	36.4	6.44	3,060	19.7	<5	4	13	19	780	812	64,200	133	<0.005	<0.010	1,280	
11/20/2008	2.2	15.9	6.35	3,290	8.1	<5	<1	13	<5	--	--	--	--	--	--	--	
11/20/2008	2.0	127	6.35	3,280	8.1	<5	<1	13	<5	--	--	--	--	--	--	--	
6/25/2009	1.6	<30	6.67	2,700	19.8	<5	<1	<5	<5	59	173	65,300	107	<0.005	<0.010	1,120	
11/16/2009	3.0	84.1	6.71	3,030	12.7	<5	<4	16	8	--	--	--	--	--	--	--	
6/15/2010	3.0	27.5	6.69	3,030	13.0	<5	<4	7	6	460	475	70,700	117	<0.005	<0.020	1,230	
11/11/2010	3.0	37.5	6.37	2,910	12.9	19	4	7	15	--	--	--	--	--	--	--	
6/22/2011	1.9	<30	6.70	2,600	14.0	17	6	21	12	780	661	63,300	99	<0.005	<0.010	972	
6/22/2011	--	--	--	--	--	<5	--	--	--	--	--	--	--	--	--	--	
11/16/2011	2.0	50	7.18	3,060	12.9	<5	<4	7	<5	--	--	--	--	--	--	--	
6/26/2012	2.0	21	6.53	2,770	14.0	<5	<4	8	<5	60	433	73,700	101	<0.005	<0.02	1,110	
12/5/2012	2.3	19	6.80	3,210	12.0	<5	8	17	23	--	--	--	--	--	--	--	
6/5/2013	2.1	15	7.07	2,660	12.5	<5	<4	6	25	40	173	66,400	106	<0.005	<0.02	1,150	
11/6/2013	2.2	NS	6.36	2,730	13.0	10	8	47	8	--	--	--	--	--	--	--	
6/25/2014	1.9	25	6.82	2,650	11.5	<5	<5	18	8	<20	159	27,100	108	<0.005	<0.02	1,070	
11/19/2014	2.1	29	6.77	2,670	8.12	<5	6	14	12	--	--	--	--	--	--	--	
6/24/2015	2.0	17	6.38	2,480	11.8	<5	<5	<5	<5	<20	89	62,400	87	<0.005	<0.02	1,040	
11/18/2015	2.0	<30	6.68	2,670	13.5	<5	<5	7	<5	--	--	--	--	--	--	--	
6/24/2016	1.9	150	6.68	2,190	12.9	<5	<5	10	<5	20	95	52,800	71	<0.005	<0.02	776	
11/29/2016	1.9	13	6.77	2,780	13.9	<5	<5	8	9	--	--	--	--	--	--	--	
6/20/2017	1.8	12	6.75	2,250	11.5	<5	<5	5	<5	17	172	54,600	74	<0.005	<0.02	770	
11/7/2017	2.1	<30	6.57	2,540	13.1	<5	<5	8	11	--	--	--	--	--	--	--	
6/12/2018	1.9	<60	5.78	2,420	11.6	<5	<5	6	8	20	89	55,500	85	<0.005	<0.02	931	
11/6/2018	4.9	<150	6.74	3,010	13.6	<5	<5	7	<5	--	--	--	--	--	--	--	
6/3/2019	4.3	<150	6.89	2,200	10.7	<5	<5	<5	7	70	12	52,200	69	<0.004	<0.02	838	
11/21/2019	3.2	77	7.05	2,620	12.8	<5	<5	6	9	--	--	--	--	--	--	--	
6/17/2020	4.3	45	7.13	2,260	13.1	<5	<5	<5	13	160	31	52,200	76	<0.004	<0.02	929	
11/5/2020	7.3	14.6	6.72	2,800	13.8	<5	<5	7	6	--	--	--	--	--	--	--	
6/11/2021	5.4	<10	6.85	2,168	14.7	<5	<5	<5	<5	50	124	50,700	62	<0.004	<0.02	731	
11/4/2021	4.8	5.68 J	6.80	2,135	13.9	<5	<5	<5	<5	--	--	--	--	--	--	--	
6/8/2022	7.0	7.40 J	6.74	1,830	14.25	<5	<5	<5	14	70	180	45,900	46	<0.004	<0.02	562	
11/2/2022	4.6	36.6	6.59	2,150	15.03	<5	15	6	14	--	--	--	62	--	--	--	
6/9/2023	1.8	54.1	6.71	2,290	12.68	<5	6	5	13	20	107	58,200	71	<0.004	<0.02	841	
11/8/2023	1.9	16.7	6.66	2,630	9.89	<5	<5	6	<5	--	--	--	--	--	--	--	
6/6/2024	1.2	14.8	6.76	2,025	14.64	<5	<5	<5	<5	<20	56	55,300	54.6	<0.004	<0.02	709	

See notes on page 13.



TABLE 2
RACER Trust - Coldwater Road
Post-Closure Monitoring - Historical Analytical Results
Physical Parameters, TOC, TOX, Metals, Chloride, Cyanide, Phenols, and Sulfate

Monitoring Well	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)					Inorganics (mg/L)						
		TOC (mg/L)	TOX (µg/L)	pH	SpC	Temp	Cr	Cu	Ni	Zn	Fe	Mn	Na	Chloride	Cyanide	Phenols	Sulfate	
		EGLE Residential Drinking Water Criteria & RBSLs					100 (A)	1,000 (E)	100 (A)	2,400								
B-18A	6/21/1995	2.7	<10	7.54	1,048	13.3	<20	<20	<30	150	--	--	--	--	--	--	--	
	8/31/1995	3.0	<10	7.91	989	13.2	<20	<20	<40	<20	--	--	--	--	--	--	--	
	2/9/1996	2.3	<10	7.42	1,021	9.3	<20	<20	<40	<20	--	--	--	--	--	--	--	
	6/19/1996	1.4	<100	7.04	944	13.2	<20	<20	<20	<20	--	--	--	--	--	--	--	
	8/21/1996	2.4	<5	7.49	1,041	12.8	<20	<20	<20	60	--	--	--	--	--	--	--	
	11/13/1996	19.0	<5	7.22	1,331	6.4	<20	<20	<20	70	--	--	--	--	--	--	--	
	5/6/1997	2.0	<100	6.50	900	10.0	<10	<10	13	10	--	--	--	--	--	--	--	
	11/6/1997	4.0	<100	6.40	1,100	10.0	<10	<10	62	10	380	62	--	12	<0.005	<0.020	130	
	5/4/1998	2.0	<5	6.72	862	11.8	<10	<10	<5	20	--	--	--	--	--	--	--	
	11/5/1998	1.0	<10	6.00	1,090	11.8	<10	<10	<5	10	240	128	46,000	--	--	--	--	
	12/23/1998	--	--	--	--	--	--	--	--	--	--	--	--	10	<0.005	<0.020	133	
	4/26/1999	2.1	<100	8.10	921	14.0	<10	<10	<5	20	--	--	--	--	--	--	--	
	11/5/1999	4.3	<100	7.10	832	14.0	<10	<10	<5	60	180	155	39,200	8	<0.005	<0.020	130	
	4/26/2000	2.4	<100	7.50	980	10.4	<10	<10	<5	30	--	--	--	--	--	--	--	
	Duplicate	12/8/2000	2.6	<10	6.96	990	9.9	<10	<10	15	<10	--	34,500	7	<0.005	<0.020	126	
		12/8/2000	2.6	<10	--	--	--	<10	<10	13	<10	40	--	35,100	7	<0.005	<0.020	112
5/16/2001		2.4	<100	7.91	1,160	12.9	<10	<10	<5	10	--	--	--	--	--	--		
10/17/2001		2.2	<100	7.09	1,020	12.2	<10	<10	<5	<10	350	--	35,400	7	<0.005	<0.020	132	
5/16/2002		1.5	<100	7.19	2,080	12.2	<10	<10	<5	10	--	--	--	--	--	--	--	
11/7/2002		1.9	<30	7.16	820	10.1	<5	<5	<5	<5	190	26	40,800	10	<0.005	<0.020	134	
6/4/2003		1.6	<30	6.92	790	13.1	<5	<5	<5	5	--	--	--	--	--	--	--	
Duplicate		11/13/2003	1.0	<30	7.68	1,180	7.1	<5	<5	<5	<5	160	<5	--	10	<0.005	<0.010	129
		11/13/2003	--	--	--	--	--	--	--	--	--	--	--	--	11	<0.005	<0.010	130
6/29/2004		1.2	<30	7.19	863	12.0	<5	<5	7	10	--	--	--	--	--	--	--	
12/9/2004		3.0	<30	6.19	960	10.5	<5	<5	9	12	900	363	37,900	14	<0.005	<0.010	127	
6/8/2005		2.0	<30	7.38	819	10.9	<5	<5	6	16	170	80	40,000	11	<0.005	<0.010	120	
12/8/2005		2.6	<30	9.73	1,120	10.1	11	<4	<5	10	390	170	47,000	--	--	--	--	
6/27/2006		1.2	<30	7.09	1,110	13.2	5	4	<5	46	170	50	48,200	13	<0.005	<0.010	125	
11/30/2006		1.4	119	7.18	1,100	11.5	5	<4	<5	9	--	--	--	--	--	--	--	
6/4/2007		1.0	19.9	7.01	1,070	13.2	9	3	3	14	110	22	51,800	15	<0.005	<0.010	114	
11/14/2007	<1	19	6.91	1,090	13.7	1	2	6	11	--	--	--	--	--	--	--		
6/25/2008	12.0	34.1	7.10	1,060	20.4	<5	2	<5	11	310	<5	54,800	15	<0.005	<0.010	110		
11/18/2008	<1	<30	6.58	1,088	2.9	<5	<1	<5	<5	--	--	--	--	--	--	--		
6/24/2009	<1	<30	7.25	1,060	26.2	<5	1	<5	15	<20	<5	53,100	16	<0.005	<0.010	111		
11/18/2009	2.0	<30	6.89	1,070	11.7	<5	<4	<5	45	--	--	--	--	--	--	--		
6/17/2010	1.0	<30	7.19	1,080	17.5	<5	<4	<5	8	<20	<5	45,500	15	<0.005	<0.020	109		
11/10/2010	2.0	28	6.91	1,065	9.5	12	<4	<5	<5	--	--	--	--	--	--	--		
Replicate	6/21/2011	1.2	<30	7.16	1,031	18.8	10	<4	5	12	240	<5	46,100	17	<0.005	<0.010	103	
	6/21/2011	--	--	--	--	--	<5	--	--	--	--	--	--	--	--	--	--	
11/15/2011	1.0	28	7.01	1,063	12.0	<5	<4	<5	<5	--	--	--	--	--	--	--		
Duplicate	6/27/2012	1.2	<40	6.99	1,057	14.4	<5	<4	<5	30	26	50,000	18	<0.005	<0.02	103		
	6/27/2012	1.2	<40	6.99	1,054	14.4	<5	<4	<5	5	40	27	46,500	18	<0.005	<0.02	101	
12/6/2012	1.5	<40	7.03	1,071	9.3	<5	<4	5	9	--	--	--	--	--	--	--		
6/5/2013	1.5	4.7	7.17	1,040	14.6	<5	<4	<5	31	20	12	43,900	19	<0.005	<0.02	110		
11/5/2013	1.4	<10	7.15	1,063	12.1	<5	<4	<5	11	--	--	--	--	--	--	--		
6/24/2014	1.5	<30	7.03	1,048	12.8	<5	<5	6	7	<20	20	20,500	18	<0.005	<0.02	107		
Duplicate	11/19/2014	1.4	16	7.10	1,073	6.27	<5	<4	5	7	--	--	--	--	--	--	--	
	11/19/2014	1.5	<60	7.10	1,072	6.27	<5	<4	5	7	--	--	--	--	--	--	--	
6/23/2015	1.3	<30	6.95	1,060	15.5	<5	<5	<5	<5	30	10	43,600	18	<0.005	<0.02	110		
11/18/2015	1.4	<30	7.03	1,065	12.2	<5	<5	<5	5	--	--	--	--	--	--	--		
6/23/2016	1.4	55	7.08	1,063	13.8	<5	<5	<5	<5	30	7	42,400	19	<0.005	<0.02	108		
11/30/2016	1.2	<30	7.10	1,059	11.4	<5	<5	<5	7	--	--	--	--	--	--	--		
6/20/2017	1.5	<30	6.97	1,075	12.7	<5	<5	<5	8	<20	27	36,300	18	<0.005	<0.02	118		
11/7/2017	1.2	<30	6.96	1,092	11.6	<5	<5	<5	<5	--	--	--	--	--	--	--		
6/12/2018	1.4	<60	6.90	1,074	12.4	<5	<5	<5	7	160	41	32,900	16	<0.005	<0.02	131		
11/7/2018	3.0	<150	6.85	1,106	11.7	<5	<5	<5	7	--	--	--	--	--	--	--		
Duplicate	6/3/2019	3.6	<150	7.36	1,050	11.2	<5	<5	<5	9	<20	15	34,900	18	<0.004	<0.02	127	
	6/3/2019	3.8	<150	7.36	1,056	11.2	<5	<5	<5	34	110	16	35,300	17	<0.004	<0.02	127	
11/20/2019	2.2	65	7.30	1,055	11.2	<5	<5	<5	8	--	--	--	--	--	--	--		
Duplicate	6/18/2020	3.2	44	7.18	725	13.2	<5	<5	<5	7	50	65	39,700	20	<0.004	<0.02	137	
	6/18/2020	3.9	<40	7.18	769	13.2	<5	<5	<5	6	50	68	40,800	20	<0.004	<0.02	138	
Duplicate	11/5/2020	4.3	9.42	7.09	1,084	13.2	<5	<5	<5	9	--	--	--	--	--	--	--	
	6/11/2021	3.7	8.78 J	7.07	1,080	16.0	<5	<5	<5	16	30	40	40,000	21	<0.004	<0.02	125	
	11/5/2021	2.5	<10	7.06	1,001	11.4	<5	<5	<5	11	--	--	--	--	--	--	--	
	6/8/2022	5.4	<10	6.91	1,090	13.66	<5	<5	<5	11	<20	39	35,200	22	<0.004	<0.02	124	
	11/2/2022	3.3	4.16 J	6.81	1,086	13.42	<5	43	<5	43	--	--	--	21 L	--	--	--	
	11/2/2022	3.2	11.2	6.81	1,006	13.42	<5	40	<5	45	--	--	--	20	--	--	--	
	12/22/2022	--	--	--	--	--	--	34	--	--	--	--	--	--	--	--	--	
	6/9/2023	1.3	4.82 J	6.97	1,100	14.65	<5	<5	8	12	<20	123	33,300	24	<0.004	0.04	129	
	11/8/2023	1.4	9.98 J	6.86	1,080	8.19	<5	<5	5	13	--	--	--	--	--	--	--	
	6/6/2024	<1.0	8.64 J	7.09	1,028	27.27	<5	<5	<5	10	60	60	33,500	28.6	<0.004	<0.02	106	

See notes on page 13.



TABLE 2
RACER Trust - Coldwater Road
Post-Closure Monitoring - Historical Analytical Results
Physical Parameters, TOC, TOX, Metals, Chloride, Cyanide, Phenols, and Sulfate

Monitoring Well	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)						Inorganics (mg/L)				
		TOC (mg/L)	TOX (µg/L)	pH	SpC	Temp	Cr	Cu	Ni	Zn	Fe	Mn	Na	Chloride	Cyanide	Phenols	Sulfate
		<i>EGL Residential Drinking Water Criteria & RBSLs</i>					100 (A)	1,000 (E)	100 (A)	2,400							
B-19A	6/21/1995	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--
	8/31/1995	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--
	2/9/1996	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--
	6/19/1996	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--
	8/21/1996	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--
	11/13/1996	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--
	5/6/1997	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--
	11/6/1997	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	WD	WD	WD	WD
	5/4/1998	3.0	<5	6.84	1,480	10.1	<10	<10	<5	30	--	--	--	--	--	--	--
	11/5/1998	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--
	12/23/1998	--	--	--	--	--	--	--	--	--	--	--	--	NS	NS	NS	NS
	4/26/1999	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--
	11/5/1999	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/26/2000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--
	12/8/2000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/16/2001	4.0	<100	7.14	1,050	11.8	<10	<10	<5	<10	--	--	--	--	--	--	--
	10/17/2001	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/16/2002	6.0	<100	7.19	1,740	10.6	<10	<10	<5	10	--	--	--	--	--	--	--
	11/7/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/4/2003	5.8	<30	6.92	1,350	12.9	<5	<5	<5	<5	--	--	--	--	--	--	--
	11/13/2003	3.4	<30	7.59	1,620	10.2	<5	<5	<5	<5	20	<5	--	148	<0.005	<0.010	229
6/29/2004	3.9	<30	7.17	1,316	14.7	<5	<5	<5	8	--	--	--	--	--	--	--	
12/9/2004	5.0	33	6.24	1,340	9.9	<5	<5	<5	9	240	11	111,000	116	<0.005	<0.010	233	
Duplicate	12/9/2004	5.0	<30	--	--	--	<5	<5	7	170	<5	114,000	116	<0.005	<0.010	233	
B-19AR	6/7/2005	3.0	<30	7.09	829	12.2	<5	<5	7	<5	1,320	228	15,700	52	<0.005	<0.010	130
Duplicate	12/8/2005	5.5	<30	--	1,390	--	10	<4	<5	20	160	<20	81,400	--	--	--	--
Re-sample	12/8/2005	5.3	<30	7.13	1,390	12.3	10	<4	<5	<10	150	<20	74,800	--	--	--	--
	2/14/2006	--	--	7.95	840	5.9	--	--	--	--	--	--	--	--	--	--	--
	6/29/2006	2.7	<30	7.58	860	12.0	<5	<4	12	21	240	210	22,400	51	<0.005	<0.010	153
	11/30/2006	6.2	33.7	7.18	1,300	11.4	5	<4	<5	--	--	--	--	--	--	--	--
	6/7/2007	2.0	<30	6.97	899	11.4	6	4	9	70	21	19,700	58	<0.005	<0.010	136	
	11/13/2007	1.5	<30	7.27	1,070	12.1	3	7	26	11	--	--	--	--	--	--	--
	6/25/2008	2.4	38.8	7.13	1,060	17.4	<5	3	<5	16	380	9	18,500	58	<0.005	<0.010	148
	11/18/2008	1.3	<30	7.00	1,052	8.0	<5	1	<5	14	--	--	--	--	--	--	--
	6/24/2009	1.0	<30	7.74	911	17.3	<5	2	<5	<5	36	<5	21,200	60	<0.005	<0.010	147
	11/19/2009	2.0	<30	7.41	994	10.4	<5	<4	<5	7	--	--	--	--	--	--	--
	6/15/2010	2.0	<30	7.57	992	16.1	<5	<4	<5	<5	<20	<5	19,800	59	<0.005	<0.020	154
	11/10/2010	2.0	<30	6.91	1,128	8.7	12	<4	<5	<5	--	--	--	--	--	--	--
Replicate	6/22/2011	1.5	<30	7.35	902	17.2	5	<4	5	<5	240	<5	22,400	64	<0.005	<0.010	140
	6/22/2011	--	--	--	--	--	<5	--	--	--	--	--	--	--	--	--	--
	11/16/2011	2.0	26	7.06	1,091	8.4	<5	<4	<5	5	--	--	--	--	--	--	--
	6/27/2012	1.5	<40	7.78	1,005	13.3	<5	<4	<5	<5	<20	<5	23,200	62	<0.005	<0.02	145
	12/6/2012	1.8	<40	7.36	1,129	10.2	<5	<4	5	6	--	--	--	--	--	--	--
	6/5/2013	1.5	39	8.16	777	13.0	<5	<4	<5	25	40	<5	27,700	72	<0.005	<0.02	136
	11/6/2013	1.6	3.6	7.33	1,104	11.6	<5	<4	10	<5	--	--	--	--	--	--	--
	6/23/2014	2.0	23	8.40	817	17.3	<5	<5	5	<5	<20	<5	11,900	74	<0.005	<0.02	136
	11/20/2014	2.1	190	7.37	1,038	6.16	<5	6	6	10	--	--	--	--	--	--	--
	6/23/2015	1.5	<30	6.77	1,165	20.2	<5	6	<5	26	30	50	28,700	72	<0.005	<0.02	132
	11/19/2015	1.4	17	6.90	1,170	10.6	<5	<5	7	7	--	--	--	--	--	--	--
	6/27/2016	1.5	71	8.13	712	18.8	<5	<5	<5	<5	40	<5	26,700	70	<0.005	<0.02	128
Re-sample	11/30/2016	1.8	12	7.39	1,104	11.2	14	14	20	39	--	--	--	--	--	--	--
	1/12/2017	--	--	7.34	--	11.1	<5	<5	6	11	--	--	--	--	--	--	--
	6/21/2017	2.0	30	7.29	1,064	12.1	<5	<5	<5	<5	<20	13	28,200	75	<0.005	<0.02	131
	11/7/2017	2.6	120	7.05	1,134	12.0	<5	<5	<5	<5	--	--	--	--	--	--	--
	6/12/2018	1.8	<60	8.63	688	12.5	<5	<5	<5	<5	30	<5	24,700	81	<0.005	<0.02	135
	11/7/2018	5.9	<150	7.35	1,176	11.1	6	5	11	15	--	--	--	--	--	--	--
	6/3/2019	6.5	<150	7.26	1,062	11.7	<5	<5	7	10	2,760	203	27,300	82	<0.004	<0.02	148
	11/21/2019	2.4	<40	7.36	1,121	11.1	7	6	12	23	--	--	--	--	--	--	--
	6/18/2020	3.1	<40	7.26	845	13.4	<5	<5	6	8	1,180	276	22,200	88	<0.004	<0.02	157
Re-sample	11/5/2020	6.6	19.4	7.02	1,172	13.0	8	108	11	42	--	--	--	--	--	--	--
	12/4/2020	--	--	--	--	--	<5	<5	6	13	--	--	--	--	--	--	--
	6/9/2021	4.0	5.8 J	7.28	1,194	18.1	<5	5	6	12	1,690	217	23,800	88	<0.004	<0.02	150
	11/4/2021	3.6	10.1	7.14	926	11.4	<5	<5	<5	7	--	--	--	--	--	--	--
	6/9/2022	4.5	5.22 J	7.04	1,180	15.21	<5	<5	<5	<5	40	56	19,900	90	<0.004	<0.02	151
	11/2/2022	3.1	12.5	6.82	1,126	13.81	<5	<5	<5	20	--	--	--	88	--	--	--
	6/12/2023	1.6	37.3	6.97	1,210	17.04	<5	7	<5	13	360	11	19,100	93	<0.004	<0.02	156
	11/8/2023	1.6	4.90 J	7.22	1,240	11.05	<5	<5	<5	5	--	--	--	--	--	--	--
Duplicate	11/8/2023	1.6	7.40 J	7.22	1,230	11.05	<5	<5	<5	5 J	--	--	--	--	--	--	--
	6/6/2024	1.1	8.26 J	7.07	1,166	22.79	7	9	<5	10	150	44	20,900	98.8	<0.004	<0.02	140

See notes on page 13.



TABLE 2
RACER Trust - Coldwater Road
Post-Closure Monitoring - Historical Analytical Results
Physical Parameters, TOC, TOX, Metals, Chloride, Cyanide, Phenols, and Sulfate

Monitoring Well	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)							Inorganics (mg/L)			
		TOC (mg/L)	TOX (µg/L)	pH	SpC	Temp	Cr	Cu	Ni	Zn	Fe	Mn	Na	Chloride	Cyanide	Phenols	Sulfate
		<i>EGLE Residential Drinking Water Criteria & RBSLs</i>							<i>100 (A)</i>	<i>1,000 (E)</i>	<i>100 (A)</i>	<i>2,400</i>					
B-20D	6/21/1995	2.8	<10	8.27	771	15.1	<20	<20	<30	<20	--	--	--	--	--	--	--
	8/31/1995	4.7	47	8.10	1,204	14.6	<20	20	<40	<20	--	--	--	--	--	--	--
	2/9/1996	21.0	38	7.12	801	9.1	32	28	54	120	--	--	--	--	--	--	--
	6/19/1996	2.4	<100	7.92	745	11.9	<20	<20	<20	<20	--	--	--	--	--	--	--
	8/21/1996	3.0	<5	7.97	750	13.1	<20	<20	<20	40	--	--	--	--	--	--	--
	11/13/1996	16.0	<5	7.69	1,075	6.7	<20	<20	<20	40	--	--	--	--	--	--	--
	5/6/1997	3.0	<100	6.80	640	10.0	<10	<10	15	10	--	--	--	--	--	--	--
	11/6/1997	5.0	<100	6.70	700	10.0	<10	20	41	<10	260	35	--	5	<0.005	<0.020	101
	5/4/1998	4.0	<5	6.77	579	12.2	<10	<10	<5	<10	--	--	--	--	--	--	--
	11/5/1998	3.0	11	6.47	667	13.5	<10	<10	<5	10	<10	18	31,000	--	--	--	--
Duplicate	11/5/1998	5.0	16	6.48	677	13.6	<10	<10	<5	10	170	8	30,300	--	--	--	--
	12/23/1998	--	--	--	--	--	--	--	--	--	--	--	--	3	<0.005	<0.020	92
Duplicate	12/23/1998	--	--	--	--	--	--	--	--	--	--	--	--	3	<0.005	<0.020	89
	4/26/1999	3.2	<100	8.40	506	13.0	<10	<10	<5	10	--	--	--	--	--	--	--
Duplicate	11/5/1999	5.3	<100	7.45	677	12.5	<10	<10	<5	60	130	60	31,400	33	<0.005	<0.020	105
	4/26/2000	3.2	<100	7.40	760	14.9	<10	<10	<5	<10	--	--	--	--	--	--	--
	12/8/2000	3.2	<10	7.45	780	4.7	<10	<10	15	<10	20	--	19,700	2	<0.005	<0.020	113
	5/15/2001	2.7	<100	6.99	590	13.0	<10	<10	<5	<10	--	--	--	--	--	--	--
	10/18/2001	2.5	<100	7.85	930	10.4	<10	<10	<5	<10	300	--	20,600	2	<0.005	<0.020	105
	5/16/2002	3.2	<100	7.21	780	11.9	<10	<10	<5	10	--	--	--	--	--	--	--
	11/7/2002	1.8	<30	7.59	610	8.7	<5	<5	<5	<5	250	74	20,900	3	<0.005	<0.020	115
	6/3/2003	2.5	<30	7.36	620	12.8	<5	<5	<5	<5	--	--	--	--	--	--	--
	11/13/2003	1.3	<30	7.97	630	7.7	<5	<5	5	<5	200	15	--	5	<0.005	<0.010	127
	6/29/2004	9.4	<30	7.48	666	13.1	<5	<5	11	<5	--	--	--	--	--	--	--
Duplicate	12/10/2004	2.0	<30	6.59	830	10.8	<5	<5	11	10	2,110	92	16,800	3	<0.005	<0.010	148
	6/7/2005	4.0	<30	7.30	707	11.9	7	<5	5	<5	2,140	66	16,500	<5	<0.005	<0.010	155
	12/8/2005	4.1	<30	4.84	957	11.1	11	<4	26	<10	120	120	20,600	--	--	--	--
	6/28/2006	1.7	<30	7.36	979	12.5	7	<4	<5	5	2,120	60	17,600	2	<0.005	<0.010	169
	11/30/2006	3.4	<30	7.49	980	12.5	6	<4	6	<5	--	--	--	--	--	--	--
	6/8/2007	3.4	30.9	6.72	929	13.4	10	22	19	124	610	160	25,500	4	<0.005	0.074	144
	11/13/2007	2.1	<30	7.19	932	13.5	3	1	13	9	--	--	--	--	--	--	--
	6/25/2008	<1	<60	7.01	946	15.5	<5	2	<5	7	2,400	55	19,500	4	<0.005	<0.010	164
	11/18/2008	1.0	36.1	6.89	1,006	12.6	<5	4	6	22	--	--	--	--	--	--	--
	6/24/2009	1.1	<30	7.17	1,000	19.4	<5	<1	<5	<5	1,720	56	21,000	3	<0.005	<0.010	180
Duplicate	6/24/2009	<1	<30	7.17	1,010	19.4	<5	<1	<5	<5	1,640	56	20,800	3	<0.005	<0.010	183
	11/18/2009	2.0	<30	7.02	1,030	12.1	<5	<4	<5	5	--	--	--	--	--	--	--
	6/16/2010	2.0	<30	7.30	1,020	15.1	<5	<4	<5	<5	1,930	49	19,000	2	<0.005	<0.020	177
	11/9/2010	3.0	<30	7.02	998	11.7	11	<4	<5	<5	--	--	--	--	--	--	--
	6/22/2011	1.6	<30	7.23	967	15.5	9	<4	<5	13	2,550	54	18,600	<5	<0.005	<0.010	164
	6/22/2011	--	--	--	--	--	<5	--	--	--	--	--	--	--	--	--	--
	11/16/2011	2.0	50	7.02	1,006	9.8	<5	<4	<5	5	--	--	--	--	--	--	--
	11/16/2011	2.0	26	7.02	1,002	9.8	<5	<4	<5	6	--	--	--	--	--	--	--
	6/25/2012	2.0	15	6.79	1,003	12.8	<5	<4	<5	<5	1,700	53	21,400	<5	<0.005	<0.02	183
	12/6/2012	1.8	<40	7.54	1,008	9.8	<5	<4	<5	7	--	--	--	--	--	--	--
Duplicate	6/5/2013	1.7	<10	7.00	1,000	11.5	<5	<4	<5	11	1,840	48	19,500	<5	<0.005	<0.02	201
	6/5/2013	1.9	<10	7.00	1,000	11.5	<5	<4	<5	<5	1,780	47	17,100	<5	<0.005	<0.02	200
	11/5/2013	1.7	NS	7.22	992	11.8	<5	<4	<5	39	--	--	--	--	--	--	--
	6/23/2014	1.9	<30	7.01	972	13.8	<5	<5	5	<5	1,360	47	8,620	<5	<0.005	<0.02	192
Duplicate	6/24/2015	1.8	<30	7.13	959	13.7	<5	<5	<5	<5	1,960	48	18,500	<10	<0.005	<0.02	178
	6/24/2015	1.7	<30	7.13	958	13.7	<5	<5	<5	<5	1,970	50	18,600	<10	<0.005	<0.02	178
	6/23/2016	1.7	68	7.01	945	17.4	<5	<5	<5	<5	1,880	65	18,500	<5	<0.005	<0.02	161
	6/22/2017	1.6	<30	7.11	926	12.4	<5	<5	<5	<5	2,080	48	18,700	<5	<0.005	<0.02	144
Duplicate	6/22/2017	1.6	<30	7.11	926	12.4	<5	<5	<5	<5	2,140	49	18,300	<5	<0.005	<0.02	146
	6/14/2018	1.5	<60	6.96	882	14.3	<5	<5	<5	5	2,440	67	18,100	<5	<0.005	<0.02	132
	6/14/2018	3.0	<60	6.96	892	14.3	<5	<5	<5	7	2,630	72	17,300	<5	<0.005	<0.02	130
	5/31/2019	3.0	<150	7.69	797	12.1	<5	<5	<5	<5	910	41	21,400	<10	<0.004	<0.02	119
Duplicate	6/18/2020	2.9	67	7.47	618	15.5	<5	<5	<5	<5	1,730	47	17,100	<10	<0.004	<0.02	132
	6/9/2021	3.5	15.5	7.42	870	13.9	<5	<5	<5	<5	2,100	51	17,000	<10	<0.004	<0.02	124
	6/10/2022	4.0	3.4 J	7.29	843	12.56	<5	<5	<5	20	1,980	48	15,900	<10	<0.004	<0.02	115
	6/10/2022	3.6	<10	7.29	845	12.56	<5	<5	<5	<5	1,910	47	15,800	<10	<0.004	<0.02	115
	6/13/2023	1.5	5.62 J	7.19	836	13.35	<5	<5	<5	<5	1,960	43	14,400	<10	<0.004	<0.02	107
	6/10/2024	1.1	<10.0	7.22	799	15.07	<5	<5	<5	<5	1,820	45	17,900	<10	<0.004	<0.02	103
	Duplicate 6/10/2024	1.2	<10.0	7.22	812	15.07	<5	<5	<5	<5	1,810	43	18,400	<10	<0.004	<0.02	102

See notes on page 13.



TABLE 2
RACER Trust - Coldwater Road
Post-Closure Monitoring - Historical Analytical Results
Physical Parameters, TOC, TOX, Metals, Chloride, Cyanide, Phenols, and Sulfate

Monitoring Well	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)					Inorganics (mg/L)					
		TOC (mg/L)	TOX (µg/L)	pH	SpC	Temp	Cr	Cu	Ni	Zn	Fe	Mn	Na	Chloride	Cyanide	Phenols	Sulfate
		EGLR Residential Drinking Water Criteria & RBSLs					100 (A)	1,000 (E)	100 (A)	2,400							
B-21D	6/21/1995	4.2	<10	8.27	870	14.5	<20	<20	<30	61	--	--	--	--	--	--	--
	8/31/1995	3.3	19	8.09	684	14.2	<20	21	<40	<20	--	--	--	--	--	--	--
	2/9/1996	4.1	<10	7.70	646	8.6	<20	<20	<40	<20	--	--	--	--	--	--	--
	6/19/1996	5.3	<100	7.58	577	14.1	<20	<20	<20	<20	--	--	--	--	--	--	--
	8/21/1996	2.5	<5	7.93	576	13.8	<20	<20	<20	50	--	--	--	--	--	--	--
	11/13/1996	17.0	<5	7.28	810	8.8	<20	<20	<20	40	--	--	--	--	--	--	--
	5/6/1997	2.0	<100	6.82	530	10.2	<10	<10	8	<10	--	--	--	--	--	--	--
	11/6/1997	3.0	<100	6.70	540	10.0	<10	<10	30	<10	240	27	--	2	<0.005	<0.020	33
	5/4/1998	16.0	<5	6.90	480	11.5	<10	<10	<5	20	--	--	--	--	--	--	--
	11/5/1998	5.0	<10	7.24	565	7.8	<10	<10	<5	10	240	43	26,700	--	--	--	--
	12/23/1998	--	--	--	--	--	--	--	--	--	--	--	--	2	<0.005	<0.020	15
	4/26/1999	11.0	<100	8.24	506	13.0	<10	<10	<5	10	--	--	--	--	--	--	--
11/5/1999	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
4/26/2000	2.5	<100	8.20	660	14.1	<10	<10	<5	<10	--	--	--	--	--	--	--	
12/8/2000	4.2	<10	8.44	680	7.1	<10	<10	11	<10	<10	--	29,600	2	<0.005	<0.020	36	
Duplicate	5/15/2001	1.9	<100	7.94	570	13.0	<10	<10	<5	10	--	--	--	--	--	--	--
	5/15/2001	1.9	<100	8.32	560	13.0	<10	<10	<5	10	--	--	--	--	--	--	--
	10/18/2001	3.4	<100	7.61	570	13.7	<10	<10	<5	<10	200	--	22,200	1	<0.005	<0.020	41
	5/16/2002	6.1	<100	7.19	630	11.7	<10	<10	<5	<10	--	--	--	--	--	--	--
	11/7/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/3/2003	5.8	<30	7.27	510	13.0	<5	<5	<5	6	--	--	--	--	--	--	--
	11/13/2003	1.0	<30	7.81	710	8.7	<5	<5	<5	9	100	<5	--	4	<0.005	<0.010	48
	6/30/2004	4.0	<30	6.77	570	14.8	<5	<5	<5	7	--	--	--	--	--	--	--
	12/10/2004	2.0	<30	6.40	600	9.9	<5	<5	<5	7	1,330	44	20,100	2	<0.005	<0.010	50
	6/8/2005	3.0	<30	7.70	560	14.2	<5	<5	12	6	1,350	72	21,000	<5	<0.005	<0.010	44
	12/8/2005	4.4	<30	5.49	741	11.4	8	<4	8	<10	1,070	60	21,500	--	--	--	--
	6/28/2006	1.5	<30	7.44	718	12.8	<5	6	5	13	430	60	23,500	2	<0.005	<0.010	53
11/30/2006	1.8	49.1	7.59	693	11.5	<5	<4	<5	<5	--	--	--	--	--	--	--	
6/8/2007	1.2	<30	6.30	709	13.2	10	2	5	7	1,200	49	21,500	4	<0.005	<0.010	60	
11/14/2007	<1	<30	7.26	738	14.5	2	1	5	8	--	--	--	--	--	--	--	
6/26/2008	1.8	16.8	7.07	738	16.9	<5	1	<5	<5	1,390	40	22,700	3	<0.005	<0.010	60	
11/19/2008	1.1	<30	6.93	739	11.0	<5	<1	5	<5	--	--	--	--	--	--	--	
6/25/2009	<1	<30	6.69	743	16.1	<5	<1	<5	<5	1,210	34	25,100	3	<0.005	<0.010	64	
11/19/2009	2.0	41.2	7.17	745	10.2	<5	<4	<5	6	--	--	--	--	--	--	--	
11/19/2009	2.0	<30	7.17	739	10.2	<5	<4	<5	<5	--	--	--	--	--	--	--	
6/17/2010	2.0	<30	7.40	736	13.2	<5	<4	<5	<5	980	34	23,700	3	<0.005	<0.020	58	
11/10/2010	1.0	<30	7.28	739	11.0	11	<4	<5	<5	--	--	--	--	--	--	--	
Replicate	6/22/2011	1.4	<30	7.41	718	19.5	10	<4	<5	<5	1,540	33	23,300	<5	<0.005	<0.010	61
	6/22/2011	--	--	--	--	--	7	--	--	--	--	--	--	--	--	--	--
11/16/2011	1.0	7.9	7.16	753	10.6	<5	<4	<5	<5	--	--	--	--	--	--	--	
6/26/2012	1.3	<40	7.26	745	19.5	<5	<4	<5	<5	640	42	25,800	<5	<0.005	<0.02	66	
12/6/2012	1.6	<40	7.57	754	9.1	<5	<4	<5	8	--	--	--	--	--	--	--	
6/5/2013	1.6	<10	7.16	742	13.5	<5	<4	<5	26	990	31	24,400	<5	<0.005	<0.02	68	
11/6/2013	1.5	<10	7.49	760	12.1	<5	<4	<5	14	--	--	--	--	--	--	--	
6/24/2014	1.5	<30	7.43	754	16.5	<5	<5	<5	<5	850	28	11,200	<5	<0.005	<0.02	77	
6/24/2015	1.4	<30	7.19	683	15.2	<5	<5	<5	<5	710	37	24,700	<10	<0.005	<0.02	81	
6/24/2016	1.4	59	6.94	790	15.2	<5	<5	<5	<5	1,290	35	22,600	<5	<0.005	<0.02	91	
6/21/2017	1.4	<30	7.21	790	13.0	<5	<5	<5	<5	1,210	36	25,000	<5	<0.005	<0.02	90	
6/14/2018	1.4	<60	7.02	786	14.4	<5	<5	5	11	4,310	123	22,700	<5	<0.005	<0.02	90	
5/30/2019	2.7	<150	7.70	658	11.9	<5	<5	<5	<5	270	30	25,600	<10	<0.004	<0.02	79	
6/17/2020	2.9	40	7.57	554	12.5	<5	<5	<5	<5	1,400	33	21,200	<10	<0.004	<0.02	108	
6/10/2021	3.3	<10	7.36	800	15.7	<5	<5	<5	<5	1,920	45	24,600	<10	<0.004	<0.02	90	
6/8/2022	4.1	<10	7.25	800	12.3	<5	<5	<5	<5	1,550	30	22,900	<10	<0.004	<0.02	97	
Duplicate	6/12/2023	1.4	6.88 J	7.23	793	13.8	<5	<5	<5	1,350	32	20,300 J	<10	<0.004	<0.02	89	
	6/12/2023	1.4	5.60 J	7.22	791	14.0	<5	<5	<5	1,360	32	13,900 J	<10	<0.004	<0.02	91	
	6/6/2024	<1.0	9.48 J	7.39	757	14.37	<5	<5	<5	1,310	32	25,700	<10.0	<0.004	<0.02	76.3	

See notes on page 13.

TABLE 2
RACER Trust - Coldwater Road
Post-Closure Monitoring - Historical Analytical Results
Physical Parameters, TOC, TOX, Metals, Chloride, Cyanide, Phenols, and Sulfate

Monitoring Well	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)							Inorganics (mg/L)				
		TOC (mg/L)	TOX (µg/L)	pH	SpC	Temp	Cr	Cu	Ni	Zn	Fe	Mn	Na	Chloride	Cyanide	Phenols	Sulfate	
		EGLR Residential Drinking Water Criteria & RBSLs					100 (A)	1,000 (E)	100 (A)	2,400								
B-22D	6/21/1995	2.6	<10	7.71	573	15.5	<20	<20	370	<20	--	--	--	--	--	--	--	
	8/31/1995	4.5	47	8.25	739	14.3	<20	<20	<40	47	--	--	--	--	--	--	--	
	2/9/1996	6.9	<10	NS	NS	NS	<20	<20	<40	80	--	--	--	--	--	--	--	
	6/19/1996	1.8	<100	7.51	600	13.4	<20	<20	<20	20	--	--	--	--	--	--	--	
	8/21/1996	1.7	<5	8.08		14.2	<20	<20	<20	50	--	--	--	--	--	--	--	
	11/13/1996	10.0	<5	7.22	817	7.7	<20	<20	<20	50	--	--	--	--	--	--	--	
	5/6/1997	2.0	<100	6.67	550	10.1	<10	<10	<5	<10	--	--	--	--	--	--	--	
	11/6/1997	7.0	<100	6.90	550	10.0	<10	<10	29	10	1,360	55	--	2	<0.005	<0.020	32	
	5/4/1998	5.0	<5	7.07	501	11.7	<10	<10	<5	<10	--	--	--	--	--	--	--	
	11/5/1998	6.0	<10	6.60	559	9.8	<10	<10	<5	10	1,180	47	23,800	--	--	--	--	
	12/23/1998	--	--	--	--	--	--	--	--	--	--	--	2	<0.005	<0.020	28	--	
	4/26/1999	18.0	<100	8.20	485	13.2	<10	<10	<5	10	--	--	--	--	--	--	--	
	11/5/1999	2.6	<100	7.30	474	13.6	<10	<10	<5	20	90	31	27,900	2	<0.005	<0.020	29	
	4/26/2000	2.5	<100	8.20	670	14.2	<10	<10	<5	<10	--	--	--	--	--	--	--	
	12/8/2000	2.5	<10	7.49	510	5.4	<10	<10	8	<10	<10	--	26,500	2	<0.005	<0.020	31	
	5/15/2001	6.7	<100	8.01	690	13.7	<10	<10	6	30	--	--	--	--	--	--	--	
	10/18/2001	1.7	<100	7.59	2,610	10.2	<10	<10	<5	<10	200	--	27,800	1	<0.005	<0.020	33	
	5/16/2002	3.2	<100	7.06	630	12.1	<10	<10	<5	<10	--	--	--	--	--	--	--	
	11/7/2002	1.5	<30	7.39	480	8.8	<5	<5	<5	<5	120	11	25,200	2	<0.005	<0.020	35	
	6/3/2003	2.3	<30	6.78	570	13.1	<5	<5	<5	<5	--	--	--	--	--	--	--	
	11/14/2003	1.6	<30	8.05	660	9.8	<5	<5	<5	9	6	<5	--	3	<0.005	<0.010	37	
	6/30/2004	1.7	<30	6.27	610	15.5	<5	<5	<5	6	--	--	--	--	--	--	--	
	12/10/2004	2.0	<30	6.95	600	10.3	<5	<5	<5	6	1,280	37	25,100	2	<0.005	<0.010	42	
	6/8/2005	2.0	<30	7.67	531	13.2	6	<5	<5	<5	1,370	38	23,700	<5	<0.005	<0.010	40	
12/8/2005	2.7	<30	5.75	702	11.7	10	<4	46	<10	2,200	250	25,400	--	--	--	--		
6/28/2006	<1	<30	7.48	682	13.0	<5	<4	<5	<5	1,290	30	25,800	2	<0.005	<0.010	42		
11/30/2006	2.2	<30	7.53	684	13.3	<5	<4	<5	7	--	--	--	--	--	--	--		
11/30/2006	5.3	<30	7.53	676	13.3	<5	<4	<5	<5	--	--	--	--	--	--	--		
6/8/2007	3.8	<30	6.59	680	14.3	7	2	1	5	1,180	32	28,100	3	<0.005	<0.010	46		
Duplicate	6/8/2007	3.1	21.1	6.59	669	14.3	9	2	1	4	4	1,210	31	28,400	4	<0.005	<0.010	47
11/14/2007	1.1	<30	7.30	710	14.2	2	2	3	6	--	--	--	--	--	--	--		
Duplicate	6/26/2008	1.7	22.6	7.09	694	19.3	<5	<1	<5	5	1,100	33	25,900	3	<0.005	<0.010	46	
6/26/2008	2.6	<30	7.09	710	19.3	<5	<1	<5	7	1,150	34	26,400	3	<0.005	<0.010	46		
11/19/2008	8.9	<30	6.93	699	8.2	<5	<1	8	8	--	--	--	--	--	--	--		
6/25/2009	1.1	<30	6.74	705	16.6	<5	<1	<5	<5	1,340	30	28,500	2	<0.005	<0.010	54		
11/18/2009	2.0	<30	7.15	710	11.4	<5	<4	<5	<5	--	--	--	--	--	--	--		
6/16/2010	2.0	<30	7.43	715	15.7	<5	<4	<5	<5	1,100	28	26,000	2	<0.005	<0.020	51		
11/11/2010	2.0	<30	7.31	704	10.3	11	<4	<5	<5	--	--	--	--	--	--	--		
Replicate	6/21/2011	1.3	<30	7.35	705	17.0	9	<4	<5	<5	1,460	30	27,300	<5	<0.005	<0.010	50	
6/21/2011	--	--	--	--	--	--	<5	--	--	--	--	--	--	--	--	--		
11/14/2011	2.0	76	7.39	714	10.1	<5	<4	<5	12	--	--	--	--	--	--	--		
6/25/2012	2.0	<40	6.45	714	12.7	<5	<4	<5	8	1,830	42	30,000	<5	<0.005	<0.02	51		
12/6/2012	1.6	<40	7.58	716	10.1	<5	<4	<5	9	--	--	--	--	--	--	--		
6/3/2013	1.6	46	6.81	701	15.6	<5	<4	<5	<5	1,000	27	28,100	<5	<0.005	<0.02	53		
11/6/2013	1.5	<10	7.52	713	11.4	<5	<4	<5	12	--	--	--	--	--	--	--		
6/24/2014	1.5	<30	7.46	707	14.7	<5	<5	<5	<5	850	26	12,700	<5	<0.005	<0.02	53		
6/23/2015	1.8	<30	7.46	710		<5	<5	<5	8	1,030	27	28,300	<10	<0.005	<0.02	55		
Duplicate	6/22/2016	2.4	100	7.19	716	13.0	<5	<5	<5	920	27	27,100	<5	<0.005	<0.02	54		
6/22/2016	2.4	29	7.19	716	13.0	<5	<5	<5	<5	950	28	27,300	<5	<0.005	<0.02	54		
6/21/2017	1.5	<30	7.21	718	13.4	<5	<5	<5	<5	970	30	29,000	<5	<0.005	<0.02	54		
6/13/2018	1.5	<60	7.02	707	14.6	<5	<5	<5	5	1,320	29	31,000	<5	<0.005	<0.02	54		
5/30/2019	3.1	<150	7.76	647	11.7	<5	<5	<5	13	320	27	28,500	<10	<0.004	<0.02	55		
6/17/2020	5.2	<40	7.61	535	15.2	<5	<5	<5	<5	1,560	36	26,700	<10	<0.004	<0.02	58		
6/10/2021	2.8	88.8	7.40	722	16.3	<5	<5	<5	5	1,310	27	28,700	<10	<0.004	<0.02	54		
6/8/2022	4.3	5.42 J	7.31	718	13.0	<5	<5	<5	<5	1,320	25	28,000	<10	<0.004	<0.02	59		
6/9/2023	1.4	5.64 J	7.37	701	15.6	<5	<5	<5	6	1,270	25	28,200	<10	<0.004	<0.02	56		
6/6/2024	1.0	<10.0	7.46	718	12.99	<5	<5	<5	<5	1,360	26	27,000	<10.0	<0.004	<0.02	59.9		

See notes on page 13.

TABLE 2
RACER Trust - Coldwater Road
Post-Closure Monitoring - Historical Analytical Results
Physical Parameters, TOC, TOX, Metals, Chloride, Cyanide, Phenols, and Sulfate

Monitoring Well	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)						Inorganics (mg/L)					
		TOC (mg/L)	TOX (µg/L)	pH	SpC	Temp	Cr	Cu	Ni	Zn	Fe	Mn	Na	Chloride	Cyanide	Phenols	Sulfate	
		EGLE Residential Drinking Water Criteria & RBSLs					100 (A)	1,000 (E)	100 (A)	2,400								
B-23D	6/21/1995	3.4	<10	7.27	680	15.1	<20	<20	<30	<20	--	--	--	--	--	--	--	
	8/31/1995	3.9	96	8.24	845	15.4	<20	<20	<40	<20	--	--	--	--	--	--	--	
	2/9/1996	3.8	34	7.54	751	11.3	<20	<20	<40	<20	--	--	--	--	--	--	--	
	6/19/1996	2.2	<100	8.25	632	14.2	<20	<20	<20	<20	--	--	--	--	--	--	--	
	8/21/1996	1.7	<5	8.94	691	14.6	<20	<20	<20	50	--	--	--	--	--	--	--	
	11/13/1996	40.0	<5	7.66	977	7.6	<20	<20	<20	40	--	--	--	--	--	--	--	
	5/6/1997	2.0	<100	6.80	610	11.0	<10	<10	9	<10	--	--	--	--	--	--	--	
	11/6/1997	3.0	<100	6.00	620	10.0	<10	<10	31	<10	160	15	--	2	<0.005	<0.020	25	
	5/4/1998	2.0	<5	6.38	558	12.2	<10	<10	<5	<10	--	--	--	--	--	--	--	
	11/5/1998	5.0	<10	6.50	639	9.8	<10	<10	<5	70	<10	<5	29,700	--	--	--	--	
	12/23/1998	--	--	--	--	--	--	--	--	--	--	--	--	2	<0.005	<0.020	21	
	Duplicate	4/26/1999	3.6	<100	8.10	552	13.3	<10	<10	<5	<10	--	--	--	--	--	--	--
	Duplicate	4/26/1999	3.0	<100	NS	NS	NS	<10	<10	<5	<10	--	--	--	--	--	--	--
	Duplicate	11/5/1999	3.4	<100	7.40	546	13.3	<10	<10	<5	<10	80	14	34,700	3	<0.005	<0.020	26
	Duplicate	11/5/1999	3.1	<100	NS	NS	NS	<10	<10	<5	<10	90	15	33,300	3	<0.005	<0.020	25
	Duplicate	4/26/2000	3.2	<100	7.90	800	13.7	<10	<10	<5	<10	--	--	--	--	--	--	--
	Duplicate	12/8/2000	2.0	<10	6.99	570	7.0	<10	<10	7	<10	60	--	35,400	2	<0.005	<0.020	22
	Duplicate	5/15/2001	3.2	<100	7.88	790	13.1	<10	<10	<5	10	--	--	--	--	--	--	--
Duplicate	10/17/2001	1.8	<100	7.46	600	11.3	<10	<10	<5	<10	170	--	32,800	2	<0.005	<0.020	23	
Duplicate	5/16/2002	5.4	<100	7.19	1200	11.2	<10	<10	<5	10	--	--	--	--	--	--	--	
Duplicate	11/7/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Duplicate	6/3/2003	3.9	<30	6.86	640	12.9	<5	<5	<5	<5	--	--	--	--	--	--	--	
Duplicate	6/3/2003	3.7	<30	--	--	--	<5	<5	<5	<5	--	--	--	--	--	--	--	
Duplicate	11/13/2003	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Duplicate	6/30/2004	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Duplicate	12/10/2004	2.0	<30	6.66	640	11.3	<5	<5	11	10	500	65	30,500	2	<0.005	<0.010	25	
B-23DR	6/7/2005	2.0	<30	7.34	594	12.2	<5	<5	<5	<5	2,520	49	20,600	25	<0.005	<0.010	60	
Duplicate	6/7/2005	2.0	<30	--	--	--	<5	<5	<5	<5	2,580	48	20,600	25	<0.005	<0.010	59	
Duplicate	12/8/2005	3.8	<30	6.22	700	6.1	7	<4	<5	<10	370	60	39,200	--	--	--	--	
Duplicate	6/27/2006	1.2	<30	7.12	760	13.4	5	<4	<5	5	2,280	50	20,500	26	<0.005	0.010	67	
Duplicate	11/30/2006	2.2	<30	7.56	568	11.8	<5	<4	<5	6	--	--	--	--	--	--	--	
Duplicate	6/8/2007	1.1	33.7	6.49	736	13.1	7	1	5	1,100	43	23,800	28	<0.005	<0.010	62		
Duplicate	11/16/2007	<1	<30	7.28	780	21.4	2	1	3	8	--	--	--	--	--	--	--	
Duplicate	6/26/2008	2.0	27.2	7.00	753	18.2	<5	1	<5	<5	1,850	44	23,700	22	<0.005	<0.010	54	
Duplicate	11/21/2008	<1	<30	6.74	763	6.0	<5	<1	<5	19	--	--	--	--	--	--	--	
Duplicate	6/25/2009	<1	<30	6.73	776	18.9	<5	<1	<5	<5	1,500	43	23,900	29	<0.005	<0.010	63	
Duplicate	11/18/2009	2.0	<30	7.22	756	11.9	<5	<4	<5	10	--	--	--	--	--	--	--	
Duplicate	6/16/2010	2.0	<30	7.36	747	18.2	<5	<4	<5	<5	950	35	23,200	20	<0.005	<0.020	45	
Duplicate	11/11/2010	2.0	21.5	7.28	743	12.8	11	<4	<5	<5	--	--	--	--	--	--	--	
Duplicate	11/11/2010	2.0	<30	7.28	742	12.8	11	<4	<5	<5	--	--	--	--	--	--	--	
Duplicate	6/21/2011	1.2	<30	7.33	721	18.0	8	<4	<5	<5	1,520	37	22,400	22	<0.005	<0.010	48	
Replicate	6/21/2011	--	--	--	--	--	<5	--	--	--	--	--	--	--	--	--	--	
Replicate	11/15/2011	1.0	49	7.19	721	13.1	<5	<4	<5	8	--	--	--	--	--	--	--	
Replicate	6/26/2012	1.0	<40	6.78	748	12.7	<5	<4	<5	<5	1,810	42	25,100	25	<0.005	<0.02	50	
Replicate	12/5/2012	1.6	<40	6.63	755	9.6	<5	<4	<5	7	--	--	--	--	--	--	--	
Replicate	6/3/2013	1.4	14	7.06	720	15.4	<5	<4	<5	<5	980	32	23,500	20	<0.005	<0.02	44	
Replicate	11/5/2013	1.4	4	7.32	746	12.6	<5	<4	<5	28	--	--	--	--	--	--	--	
Replicate	6/25/2014	3.0	<30	7.31	746	13.9	<5	<5	6	5	970	36	10,900	26	<0.005	0.025	51	
Replicate	6/24/2015	1.9	<30	7.16	747	14.9	<5	<5	<5	<5	1,370	39	24,300	22	<0.005	<0.02	47	
Replicate	6/22/2016	1.5	60	7.10	788	14.6	<5	<5	<5	<5	1,600	38	23,500	30	<0.005	<0.02	54	
Replicate	6/21/2017	1.5	<30	7.41	844	12.8	<5	<5	<5	<5	400	45	27,300	38	<0.005	<0.02	64	
Replicate	6/14/2018	1.3	<60	6.92	865	15.9	<5	<5	<5	<5	2,320	53	30,100	43	<0.005	<0.02	65	
Replicate	6/4/2019	2.6	<150	7.61	803	12.3	<5	<5	<5	<5	830	42	28,300	44	<0.004	<0.02	71	
Replicate	6/16/2020	2.7	<40	7.51	822	15.0	<5	<5	<5	<5	1,840	42	28,200	40	<0.004	<0.02	68	
Replicate	6/9/2021	3.5	3.84 J	7.45	842	14.9	<5	<5	<5	<5	1,860	42	28,100	34	<0.004	<0.02	62	
Replicate	6/9/2022	3.6	<10	7.12	828	13.5	<5	<5	<5	<5	1,870	41	25,600	34	<0.004	<0.02	64	
Replicate	6/8/2023	1.4	8.44 J	7.22	809	13.6	<5	6	<5	7	1,710	38	26,900	33	<0.004	<0.02	58	
Replicate	6/5/2024	<1.0	<10.0	7.28	802	13.69	<5	<5	<5	<5	1,790	45	26,200	33.4	<0.004	<0.02	62.2	

See notes on page 13.



TABLE 2
RACER Trust - Coldwater Road
Post-Closure Monitoring - Historical Analytical Results
Physical Parameters, TOC, TOX, Metals, Chloride, Cyanide, Phenols, and Sulfate

Monitoring Well	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)						Inorganics (mg/L)					
		TOC (mg/L)	TOX (µg/L)	pH	SpC	Temp	Cr	Cu	Ni	Zn	Fe	Mn	Na	Chloride	Cyanide	Phenols	Sulfate	
		EGLR Residential Drinking Water Criteria & RBSLs							100 (A)	1,000 (E)	100 (A)	2,400						
B-24	6/21/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	8/31/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	2/9/1996	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/19/1996	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	8/21/1996	5.6	<5	7.80	1,502	12.7	<20	<20	<20	90	--	--	--	--	--	--	--	
	11/13/1996	20.0	<5	7.09	2,030	7.8	<20	<20	<20	50	--	--	--	--	--	--	--	
	5/6/1997	5.0	<100	6.40	1,700	10.0	<10	<10	31	10	--	--	--	--	--	--	--	
	11/6/1997	--	--	--	--	--	--	--	--	--	--	--	--	NS	NS	NS	NS	
	5/4/1998	4.0	<5	6.52	1,410	11.6	<10	<10	8	20	--	--	--	--	--	--	--	
	11/5/1998	4.0	23	5.50	1,595	10.4	<10	<10	9	20	60	120	27,700	--	--	--	--	
	12/23/1998	--	--	--	--	--	--	--	--	--	--	--	--	163	<0.005	<0.020	205	
	4/26/1999	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	
	11/5/1999	NS	NS	7.20	1,152	13.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	4/26/2000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	
	12/8/2000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	5/15/2001	NS	NS	6.40	1,450	12.9	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	
	10/17/2001	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	5/16/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	
	11/7/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/3/2003	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	
11/13/2003	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
6/30/2004	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
12/9/2004	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
B-24R	6/7/2005	8.0	<30	7.27	857	10.6	8	<5	<5	<5	10,600	448	27,100	49	<0.005	<0.010	206	
	12/8/2005	6.6	<30	5.16	1,120	11.9	11	<4	<5	10	3,180	210	28,700	--	--	--	--	
	6/28/2006	4.7	<30	7.31	1,080	11.9	6	<4	<5	<5	3,760	210	27,700	48	<0.005	<0.010	182	
	11/30/2006	4.8	30	7.31	1,100	11.7	6	<4	<5	<5	--	--	--	--	--	--	--	
	6/4/2007	4.5	110	7.19	1,080	11.0	9	2	2	19	2,400	194	27,900	47	<0.005	<0.010	184	
	11/13/2007	4.1	30.1	7.13	1,130	14.0	3	1	5	7	--	--	--	--	--	--	--	
	6/26/2008	4.3	<30	6.99	1,130	19.0	<5	1	<5	8	3,490	175	39,600	46	<0.005	<0.010	189	
	11/18/2008	3.8	<30	6.76	1,125	5.3	<5	<1	<5	<5	--	--	--	--	--	--	--	
	6/24/2009	5.2	<30	6.62	1,120	17.4	<5	<1	<5	<5	4,000	155	38,400	48	<0.005	<0.010	201	
	11/18/2009	5.0	86.4	7.08	1,140	12.9	<5	<4	<5	<5	--	--	--	--	--	--	--	
	6/16/2010	4.0	22.7	7.02	1,150	16.3	<5	<4	<5	<5	1,880	222	39,500	46	<0.005	<0.020	196	
	11/9/2010	5.0	26.8	6.90	1,136	13.5	11	<4	<5	<5	--	--	--	--	--	--	--	
	6/21/2011	3.7	<30	7.11	1,136	17.5	10	<4	6	<5	1,130	255	51,700	45	<0.005	<0.010	206	
	Duplicate	6/21/2011	3.7	<30	7.11	1,137	17.5	8	<4	6	<5	1,070	255	52,000	45	<0.005	<0.010	206
	Replicate	6/21/2011	--	--	--	--	--	<5	--	--	--	--	--	--	--	--	--	--
	Dup. Replicate	6/21/2011	--	--	--	--	--	<5	--	--	--	--	--	--	--	--	--	--
	11/16/2011	4.0	24	7.69	1,141	11.1	<5	<4	<5	<5	--	--	--	--	--	--	--	
	6/26/2012	3.5	16	6.80	1,219	13.7	<5	<4	<5	<5	1,200	242	72,000	45	<0.005	<0.02	219	
	12/6/2012	4.2	48	6.98	1,204	10.2	<5	<4	<5	6	--	--	--	--	--	--	--	
	6/3/2013	4.0	4.8	7.19	1,127	11.4	<5	<4	<5	<5	110	130	38,600	45	<0.005	<0.02	227	
	11/5/2013	4.0	5.5	7.16	1,203	12.6	<5	<4	<5	<5	--	--	--	--	--	--	--	
	Duplicate	11/5/2013	4.0	<10	7.16	1,203	12.6	<5	<4	<5	<5	--	--	--	--	--	--	--
	6/24/2014	3.7	16	7.10	1,202	13.9	<5	8	8	9	60	238	24,300	45	<0.005	<0.02	243	
	Duplicate	6/24/2014	3.7	16	7.10	1,201	13.9	<5	<5	7	<5	8	231	25,000	46	<0.005	<0.02	240
	11/19/2014	3.9	21	6.98	1,290	5.44	<5	<4	11	<5	--	--	--	--	--	--	--	
	6/24/2015	3.5	<30	7.03	1,235	15.4	<5	<5	7	<5	<20	240	59,600	44	<0.005	<0.02	261	
	11/18/2015	3.6	19	7.03	1,234	12.9	<5	<5	5	<5	--	--	--	--	--	--	--	
	Duplicate	11/18/2015	3.5	18	7.03	1,233	12.9	<5	<5	6	7	--	--	--	--	--	--	
	6/23/2016	3.2	110	6.88	1,275	15.0	<5	<5	<5	<5	320	210	67,800	45	<0.005	<0.02	245	
	11/29/2016	3.4	12	7.19	1,220	10.7	<5	<5	<5	<5	--	--	--	--	--	--	--	
	6/20/2017	3.1	14	7.10	1,307	11.4	<5	<5	<5	<5	<20	74	74,400	48	<0.005	<0.02	246	
	11/7/2017	3.4	<30	7.09	1,231	11.3	<5	<5	<5	<5	--	--	--	--	--	--	--	
	6/12/2018	2.9	<60	7.07	1,280	11.4	<5	<5	<5	7	100	64	64,500	47	<0.005	<0.02	240	
	11/7/2018	3.7	<150	7.22	1,269	11.0	<5	<5	<5	<5	--	--	--	--	--	--	--	
	5/30/2019	4.7	<150	7.17	1,161	11.2	<5	<5	<5	13	540	108	70,100	46	<0.004	<0.02	249	
	11/21/2019	4.0	59	7.26	1,216	11.8	<5	<5	<5	7	--	--	--	--	--	--	--	
	6/17/2020	5.4	<40	7.38	1,125	14.9	<5	<5	<5	6	70	44	62,600	49	<0.004	<0.02	271	
	11/5/2020	5.2	18.5	7.07	1,257	14.4	<5	<5	<5	<5	--	--	--	--	--	--	--	
	Duplicate	11/5/2020	5.2	4.26	7.07	1,226	14.4	<5	<5	<5	--	--	--	--	--	--	--	
	6/10/2021	5.3	11.4	7.24	1,295	17.8	<5	<5	<5	7	170	54	67,600	49	<0.004	<0.02	258	
Duplicate	11/5/2021	4.0	9.72 J	7.21	1,008	11.9	<5	<5	<5	--	--	--	--	--	--	--		
11/5/2021	3.6	7.92 J	7.21	1,210	11.9	<5	<5	<5	6	--	--	--	--	--	--	--		
6/8/2022	7.3	17.7	7.09	1,320	12.89	<5	<5	<5	10	30	45	62,900	50	<0.004	<0.02	264		
11/2/2022	5.2	33.5	6.97	1,186	13.84	<5	<5	<5	10	--	--	--	46	--	--	--		
6/8/2023	2.7	12.8	7.04	1,370	19.47	<5	9	12	10	30	20	67,800	51	<0.004	<0.02	287		
11/8/2023	3.2	11.1	7.29	1,330	7.94	<5	<5	<5	6	--	--	--	--	--	--	--		
6/5/2024	2.7	3.54 J	7.35	1,316	18.36	<5	<5	<5	7	<20	58	67,400	48.5	<0.004	<0.02	294		

See notes on page 13.

TABLE 2
RACER Trust - Coldwater Road
Post-Closure Monitoring - Historical Analytical Results
Physical Parameters, TOC, TOX, Metals, Chloride, Cyanide, Phenols, and Sulfate

Monitoring Well	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)						Inorganics (mg/L)				
		TOC (mg/L)	TOX (µg/L)	pH	SpC	Temp	Cr	Cu	Ni	Zn	Fe	Mn	Na	Chloride	Cyanide	Phenols	Sulfate
		<i>EGLE Residential Drinking Water Criteria & RBSLs</i>					100 (A)	1,000 (E)	100 (A)	2,400							
B-27D	12/8/2005	3.7	<30	5.14	714	4.8	9	<4	6	<10	240	140	34,200	--	--	--	--
	6/27/2006	1.3	<30	7.11	644	13.5	6	<4	7	6	1,050	110	32,300	--	--	--	--
	11/30/2006	<1	<30	7.49	540	11.7	<5	<4	<5	6	--	--	--	--	--	--	--
	6/8/2007	4.0	25.7	6.58	628	14.6	9	2	3	36	1,520	58	36,300	4	<0.005	<0.010	23
	11/15/2007	1.9	<30	7.33	649	11.6	2	1	5	32	--	--	--	--	--	--	--
	6/26/2008	1.7	<30	7.05	659	16.3	<5	<1	<5	<5	300	59	33,900	2	<0.005	<0.010	23
	11/21/2008	1.3	<30	6.81	667	6.6	<5	<1	<5	<5	--	--	--	--	--	--	--
	6/25/2009	<1	<30	6.79	651	16.5	<5	1	<5	<5	2,030	52	37,200	2	<0.005	<0.010	20
	11/18/2009	2.0	<30	7.29	653	11.2	<5	<4	<5	<5	--	--	--	--	--	--	--
	6/15/2010	2.0	<30	7.41	646	15.7	<5	<4	<5	<5	1,250	36	32,200	2	<0.005	<0.020	19
Duplicate	6/15/2010	2.0	31.2	7.41	652	15.7	<5	<4	<5	<5	1,220	35	31,700	2	<0.005	<0.020	20
	11/9/2010	2.0	<30	7.18	651	13.3	10	<4	<5	<5	--	--	--	--	--	--	--
Replicate	6/21/2011	1.5	<30	7.47	640	15.6	9	<4	<5	<5	1,370	29	34,600	<5	<0.005	<0.010	19
	6/21/2011	--	--	--	--	--	<5	--	--	--	--	--	--	--	--	--	--
	11/15/2011	1.0	34	7.22	652	12.1	<5	<4	6	8	--	--	--	--	--	--	--
	6/26/2012	1.5	<40	7.17	653	13.0	<5	<4	<5	<5	1,450	28	34,200	<5	<0.005	<0.02	20
	12/5/2012	1.7	<40	6.79	654	11.0	<5	<4	<5	10	--	--	--	--	--	--	--
	6/3/2013	1.5	4.3	8.34	645	12.1	<5	<4	<5	<5	1,670	29	32,500	<5	<0.005	<0.02	21
	11/5/2013	1.8	<10	7.37	640	12.0	<5	<4	<5	28	--	--	--	--	--	--	--
	6/24/2014	1.9	<30	7.40	637	16.0	<5	<5	<5	<5	680	34	15,800	<5	<0.005	<0.02	18
	6/22/2015	1.8	<30	7.20	635	14.2	<5	<5	<5	<5	710	27	34,100	<5	<0.005	<0.02	18
	6/22/2016	1.6	30	7.20	640	14.1	<5	<5	<5	<5	930	20	33,200	<5	<0.005	<0.02	15
	6/20/2017	1.4	<30	7.40	642	14.7	<5	<5	<5	<5	1,220	43	35,600	<5	<0.005	<0.02	17
	6/12/2018	1.7	<60	7.16	667	12.6	<5	<5	<5	6	1,380	33	43,700	<5	<0.005	<0.02	16
	6/4/2019	3.5	<150	7.61	638	12.4	<5	<5	<5	<5	1,040	32	47,500	<5	<0.004	<0.02	15
	6/17/2020	3.4	<40	7.67	622	12.6	<5	<5	<5	<5	1,180	28	35,700	<10	<0.004	<0.02	17
	6/11/2021	2.8	8.52 J	7.51	660	13.5	<5	<5	<5	<5	1,300	28	39,400	<10	<0.004	<0.02	14
	6/11/2021	2.5	10.4	7.51	635	13.5	<5	<5	<5	<5	1,440	31	40,400	<10	<0.004	<0.02	14
	6/9/2022	3.9	<10	7.31	646	13.5	<5	<5	<5	<5	970	19	35,900	<10	<0.004	<0.02	17
	6/8/2023	1.4	3.82 J	7.36	638	12.7	<5	<5	<5	<5	950	27	39,100	<10	<0.004	<0.02	17
	6/5/2024	<1.0	<10.0	7.43	645	13.66	<5	<5	<5	<5	910	18	40,500	<10	<0.004	<0.02	18.9

See notes on page 13.



TABLE 2
RACER Trust - Coldwater Road
Post-Closure Monitoring - Historical Analytical Results
Physical Parameters, TOC, TOX, Metals, Chloride, Cyanide, Phenols, and Sulfate

Monitoring Well	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)						Inorganics (mg/L)					
		TOC (mg/L)	TOX (µg/L)	pH	SpC	Temp	Cr	Cu	Ni	Zn	Fe	Mn	Na	Chloride	Cyanide	Phenols	Sulfate	
		EGLR Residential Drinking Water Criteria & RBSLs						100 (A)	1,000 (E)	100 (A)	2,400							
Duplicate	11/21/2005	--	--	6.21	994	12.3	--	--	--	<5	--	--	--	--	--	--	--	
	11/21/2005	--	--	6.21	--	12.3	--	--	--	7	--	--	--	--	--	--	--	
Duplicate B-28	6/27/2006	3.0	<30	7.12	828	13.2	5	<4	<5	18	2,380	210	17,000	--	--	--	--	
	12/1/2006	2.4	<30	7.48	812	12.3	<5	<4	<5	5	--	--	--	--	--	--	--	
	12/1/2006	3.3	<30	7.48	810	12.3	<5	<4	<5	<5	--	--	--	--	--	--	--	
	6/5/2007	2.1	<30	6.84	845	10.6	9	2	3	6	1,690	160	25,100	12	<0.005	<0.010	87	
	11/15/2007	2.5	15	6.81	816	9.1	3	2	5	11	--	--	--	--	--	--	--	
	6/27/2008	1.8	<30	6.87	840	17.6	<5	1	<5	5	370	84	16,300	10	<0.005	<0.010	88	
	11/19/2008	1.1	<30	6.75	804	7.0	<5	<1	<5	<5	--	--	--	--	--	--	--	
	6/24/2009	1.1	<30	6.96	822	19.5	<5	<1	<5	<5	204	132	14,600	10	<0.005	<0.010	84	
	11/18/2009	2.0	<30	6.94	814	11.6	<5	<4	<5	20	--	--	--	--	--	--	--	
	6/16/2010	2.0	<30	7.02	841	17.6	<5	<4	<5	<5	790	173	19,100	12	<0.005	<0.020	78	
Replicate	11/10/2010	3.0	<30	7.05	813	13.3	18	<4	<5	<5	--	--	--	--	--	--	--	
	6/21/2011	1.5	<30	7.23	837	14.1	9	<4	5	<5	1,380	130	23,400	12	<0.005	<0.010	80	
	6/21/2011	--	--	--	--	--	<5	--	--	--	--	--	--	--	--	--	--	
	11/15/2011	2.0	160	7.17	823	12.5	<5	<4	<5	<5	--	--	--	--	--	--	--	
	6/26/2012	2.0	<40	6.45	849	13.0	<5	<4	<5	<5	1,960	84	29,800	12	<0.005	<0.02	80	
	Duplicate	12/6/2012	1.6	<40	7.25	823	11.4	<5	<4	<5	<5	--	--	--	--	--	--	--
		12/6/2012	1.7	<40	7.25	823	11.4	<5	<4	<5	<5	--	--	--	--	--	--	--
	Replicate	6/3/2013	1.5	10	6.88	834	13.1	<5	<4	5	<5	1,310	111	26,000	12	<0.005	<0.02	87
		11/5/2013	1.6	<10	7.26	842	12.9	<5	<4	<5	<5	--	--	--	--	--	--	--
		6/24/2014	1.5	<30	7.03	852	12.2	<5	9	<5	<5	1,490	53	15,400	12	<0.005	<0.02	89
7/28/2014		--	--	--	--	--	--	<5	--	--	--	--	--	--	--	--	--	
11/19/2014		1.6	<60	7.05	844	7.48	<5	<4	<5	<5	--	--	--	--	--	--	--	
6/22/2015		1.5	<30	7.04	860	13.4	<5	<5	<5	<5	3,330	53	37,100	11	<0.005	<0.02	92	
Duplicate	11/18/2015	1.6	<30	7.13	849	13.8	<5	<5	<5	6	--	--	--	--	--	--	--	
	6/24/2016	1.6	49	7.18	866	15.0	<5	<5	<5	<5	4,960	53	45,800	11	<0.005	<0.02	92	
	11/29/2016	1.5	<30	7.27	853	12.6	<5	<5	<5	<5	--	--	--	--	--	--	--	
	11/29/2016	1.5	16	7.27	860	12.6	<5	<5	<5	<5	--	--	--	--	--	--	--	
	6/20/2017	1.6	18	7.05	863	11.4	<5	<5	<5	<5	80	35	30,000	13	<0.005	<0.02	106	
	11/7/2017	1.6	<30	7.11	859	12.5	<5	<5	<5	<5	--	--	--	--	--	--	--	
	11/7/2017	1.5	<30	7.11	867	12.5	<5	<5	<5	<5	--	--	--	--	--	--	--	
	6/12/2018	1.6	<60	7.09	839	12.2	<5	<5	<5	<5	60	27	14,600	12	<0.005	<0.02	100	
	11/7/2018	1.5	<150	7.37	880	11.8	<5	<5	<5	<5	--	--	--	--	--	--	--	
	Duplicate	11/7/2018	1.6	<150	7.37	880	11.8	<5	<5	<5	<5	--	--	--	--	--	--	--
5/29/2019		3.4	<150	7.39	803	11.0	<5	<5	<5	<5	50	84	16,200	13	<0.004	<0.02	118	
Duplicate	11/21/2019	2.1	<40	7.34	839	12.2	<5	<5	<5	5	--	--	--	--	--	--	--	
	6/16/2020	2.8	41	7.38	862	14.4	<5	<5	<5	<5	110	74	14,200	13	<0.004	<0.02	142	
Re-sample	11/5/2020	3.8	<10	7.09	904	13.8	<5	<5	<5	<5	--	--	--	--	--	--	--	
	6/9/2021	3.6	8.14 J	7.12	936	15.1	<5	<5	<5	<5	280	82	14,900	11	<0.004	<0.02	161	
	11/5/2021	2.2	<10	7.26	674	12.2	<5	<5	<5	<5	--	--	--	--	--	--	--	
	6/7/2022	5.1	9.16 J	6.97	936	11.09	<5	<5	<5	<5	810	93	20,100	12	<0.004	<0.02	166	
	11/2/2022	3.1	6.34 J	6.90	936	15.15	<5	9	<5	6	--	--	--	11 L	--	--	--	
	12/21/2022	--	--	--	--	--	--	<5	--	--	--	--	--	--	--	--	--	
	6/8/2023	1.6	<10	7.05	949	16.41	<5	<5	8	8	30	85	19,300	11	<0.004	<0.02	172	
	11/8/2023	1.6	13.4	7.13	946	12.52	<5	<5	<5	<5	--	--	--	--	--	--	--	
	6/4/2024	1.1	<10	7.16	938	11.80	<5	<5	<5	<5	930	85	18,400	11.3	<0.004	<0.02	169	

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Physical Parameters, TOC, TOX, Metals, Chloride, Cyanide, Phenols, and Sulfate

Monitoring Well	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)							Inorganics (mg/L)			
		TOC (mg/L)	TOX (µg/L)	pH	SpC	Temp	Cr	Cu	Ni	Zn	Fe	Mn	Na	Chloride	Cyanide	Phenols	Sulfate
		<i>EGLE Residential Drinking Water Criteria & RBSLs</i>					100 (A)	1,000 (E)	100 (A)	2,400							
Equipment Blank	12/10/2004	<1	<30	--	--	--	<5	<5	<5	11	<20	13	810	<2	<0.005	<0.010	<2
	6/8/2005	<1	<30	--	--	--	<5	<5	<5	<5	<20	<5	120	<5	<0.005	<0.010	<5
	12/8/2005	<1	<30	--	5	--	<5	<4	<5	<10	<100	<20	<1000	--	--	--	--
	6/28/2006	<1	<30	--	12	--	<5	<4	<5	<5	<100	<20	<1000	<1	<0.005	<0.010	<1
	12/1/2006	<1	<30	--	26	--	<5	<4	<5	<5	--	--	--	<2	<0.005	<0.010	<2
	6/8/2007	<1	26	--	13	--	<5	1	1	13	<20	11	340	<2	<0.005	<0.010	<2
	11/15/2007	<1	<30	--	4	--	<5	1	1	9	--	--	--	--	--	--	--
	6/26/2008	<1	<30	--	3	--	<5	1	<5	<5	100	7	420	<2	<0.005	<0.010	<2
	11/19/2008	<1	<30	--	6	--	<5	1	<5	<5	--	--	--	--	--	--	--
	6/25/2009	<1	<30	--	24	--	<5	<1	<5	<5	110	<5	200	<2	<0.005	<0.010	<2
	11/19/2009	0.7	<30	--	5	--	<5	<4	<5	<5	--	--	--	--	--	--	--
	6/17/2010	0.4	<30	--	4	--	<5	<4	<5	<5	<20	<5	<200	<2	<0.005	<0.020	<2
	11/11/2010	1	<30	--	1.2	--	<5	<4	<5	<5	--	--	--	--	--	--	--
	6/22/2011	0.88	<30	--	3	--	<5	<4	<5	<5	<20	<5	460	<2	<0.005	<0.010	<2
	11/16/2011	<1	4.9	--	1,330	--	<5	<4	<5	<5	--	--	--	--	--	--	--
	6/27/2012	<1	<20	--	3	--	<5	<4	<5	13	50	<5	6,350	<2	<0.005	<0.02	<2
	12/6/2012	<1	<40	--	17.0	--	<5	<4	<5	<5	--	--	--	--	--	--	--
	6/6/2013	<1	<10	--	1,370	--	<5	<4	<5	<5	<20	<5	<500	<2	<0.005	<0.02	<2
	11/6/2013	<1	<10	--	2,350	--	<5	<4	<5	<5	--	--	--	--	--	--	--
	6/24/2014	<1	<30	--	1,930	--	<5	<5	<5	<5	<20	<5	<1000	<2.5	<0.005	<0.02	<2.5
	6/24/2015	<1	<30	--	4.09	--	<5	<5	<5	<5	<20	<5	140	<2	<0.005	<0.02	<2
	6/24/2016	<1	6.2	--	2,220	--	<5	<5	<5	<5	<20	<5	<500	<2.5	<0.005	<0.02	<2
	6/22/2017	<1	<30	--	5,780	--	<5	<5	<5	<5	<20	<5	<200	<5	<0.005	<0.02	<5
	11/7/2017	<1	<30	--	7.07	--	<5	<5	<5	<5	--	--	--	--	--	--	--
	6/14/2018	1.2	<60	--	28.8	--	<5	<5	<5	<5	<20	<5	<250	<2.5	<0.005	<0.02	<2.5
	6/3/2019	<1	<150	--	2.63	--	<5	<5	<5	<5	<20	<5	530	<2.5	<0.004	<0.02	<2.5
6/18/2020	<1	<40	--	3.31	--	<5	<5	<5	<5	<20	<5	<500	<2.5	<0.004	<0.02	<2.5	
6/11/2021	<1	<10	--	1,400.00	--	<5	<5	<5	<5	<20	<5	<500	<2.5	<0.004	<0.02	<2.5	
6/10/2022	<1	<10	--	<1	--	<5	<5	<5	<5	<20	<5	<2,500	<2.5	<0.004	<0.02	<2.5	
6/13/2023	<1	<10	--	1.5	--	<5	<5	<5	<5	<20	<5	<5,000	<2.5	<0.004	<0.02	<2.5	
6/13/2023	<1	<10	--	1.50	--	<5	<5	<5	<5	<20	<5	<5,000	<2.5	<0.004	<0.02	<2.5	
6/10/2024	<1.0	<10.0	--	1.67	--	<5	<5	<5	<5	<20	<5	<5,000	<10	<0.004	<0.02	<10	

- 1) < = Not detected.
- 2) NS = Not sampled, insufficient liquid encountered
- 3) NR = No Result, insufficient sample volume.
- 4) T = Temperature in degrees Celsius.
- 5) -- = Not analyzed.
- 6) Dup = Duplicate sample.
- 7) A = Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.
- 8) E = Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA)
- 9) J = Value is estimated.
- 10) L= Elevated reporting limit due to low sample amount
- 11) Monitoring wells B-19 and B-24 were replaced on March 15, 2005.



TABLE 3
RACER Trust - Coldwater Road
Landfill Leachate Sumps - Analytical Results
Volatile Organic Compounds (µg/L)

Parameter	B-7	B-9	B-18A	OBG MW-16D	B-19Ar	B-20D	MW-DUP-06102024 (B-20D)	B-21D
	6-Jun-24	6-Jun-24	6-Jun-24	10-Jun-24	6-Jun-24	10-Jun-24	10-Jun-24	6-Jun-24
Acetone	<50	<50	<50	<50	<50	<50	<50	<50
Acrylonitrile	<2	<2	<2	<2	<2	<2	<2	<2
2-Butanone	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<5	<5	<5	<5	<5	<5	<5	<5
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	<5	<5	<5	<5	<5	<5	<5	<5
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5
Dibromomethane	<5	<5	<5	<5	<5	<5	<5	<5
Dichlorodifluoromethane	<5	<5	<5	<5	<5	<5	<5	<5
Diethyl ether	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,4-Dichloro-2-butene	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
2-Hexanone	<50	<50	<50	<50	<50	<50	<50	<50
Hexachloroethane	<5	<5	<5	<5	<5	<5	<5	<5
p-Isopropyltoluene	<5	<5	<5	<5	<5	<5	<5	<5
Isopropylbenzene	<5	<5	<5	<5	<5	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5	<5	<5	<5	<5	<5
4-Methyl-2-pentanone	<50	<50	<50	<50	<50	<50	<50	<50
tert-Methyl butyl ether (MTBE)	<5	<5	<5	<5	<5	<5	<5	<5
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5
Napthalene	<5	<5	<5	<5	<5	<5	<5	<5
n-Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5
1,2,3-Trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1
Tetrahydrofuran	<90	<90	<90	<90	<90	<90	<90	<90
Toluene	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1
p,m-Xylene	<2	<2	<2	<2	<2	<2	<2	<2

Notes:
 Analysis in µg/L
 EPA Method 8260 used for analysis.
 Dup- Duplicate analysis

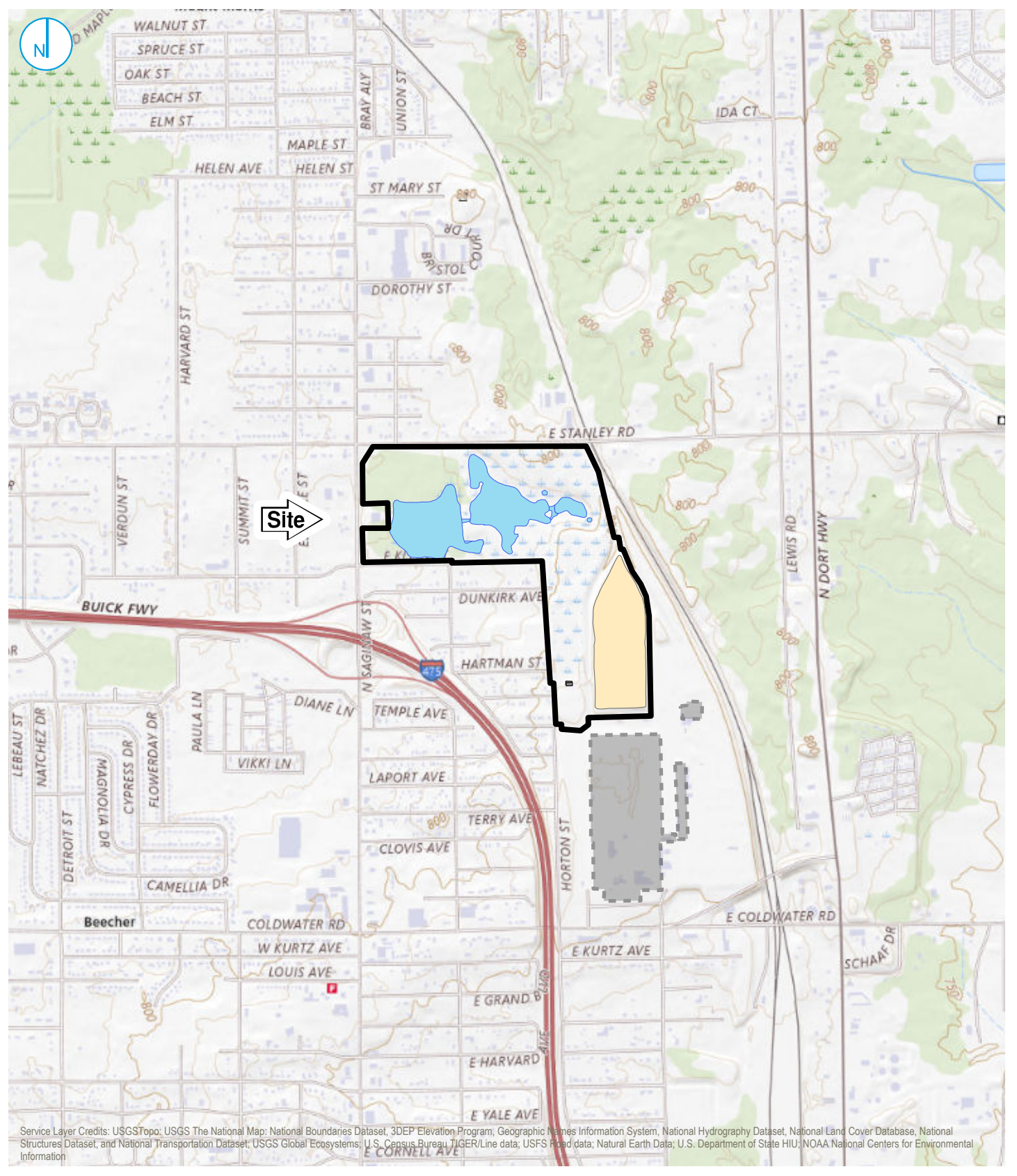


TABLE 3
RACER Trust - Coldwater Road
Landfill Leachate Sumps - Analytical Results
Volatile Organic Compounds (µg/L)

Parameter	B-22D	B-23Dr	B-24r	B-27D	B-28	Equipment Blank-06102024	Trip Blank-06062024	Trip Blank-06102024
	6-Jun-24	5-Jun-24	5-Jun-24	5-Jun-24	4-Jun-24	10-Jun-24	6-Jun-24	10-Jun-24
Acetone	<50	<50	<50	<50	<50	<50	<50	<50
Acrylonitrile	<2	<2	<2	<2	<2	<2	<2	<2
2-Butanone	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<5	<5	<5	<5	<5	<5	<5	<5
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	<5	<5	<5	<5	<5	<5	<5	<5
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5
Dibromomethane	<5	<5	<5	<5	<5	<5	<5	<5
Dichlorodifluoromethane	<5	<5	<5	<5	<5	<5	<5	<5
Diethyl ether	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,4-Dichloro-2-butene	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
2-Hexanone	<50	<50	<50	<50	<50	<50	<50	<50
Hexachloroethane	<5	<5	<5	<5	<5	<5	<5	<5
p-Isopropyltoluene	<5	<5	<5	<5	<5	<5	<5	<5
Isopropylbenzene	<5	<5	<5	<5	<5	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5	<5	<5	<5	<5	<5
4-Methyl-2-pentanone	<50	<50	<50	<50	<50	<50	<50	<50
tert-Methyl butyl ether (MTBE)	<5	<5	<5	<5	<5	<5	<5	<5
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5
Napthalene	<5	<5	<5	<5	<5	<5	<5	<5
n-Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5
1,2,3-Trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1
Tetrahydrofuran	<90	<90	<90	<90	<90	<90	<90	<90
Toluene	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1
p,m-Xylene	<2	<2	<2	<2	<2	<2	<2	<2

Notes:
 Analysis in µg/L
 EPA Method 8260 used for analysis.
 Dup- Duplicate analysis

FIGURES



Service Layer Credits: USGS Topo; USGS The National Map; National Boundaries Dataset; 3DEP Elevation Program; Geographic Names Information System; National Hydrography Dataset; National Land Cover Database; National Structures Dataset; and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road data; Natural Earth Data; U.S. Department of State HIU; NOAA National Centers for Environmental Information



- PROPERTY BOUNDARY
- LANDFILL
- FORMER BUILDING
- FORMER POWERHOUSE
- SITE BUILDINGS
- WETLANDS



SITE LOCATION

FIGURE 1

RACER TRUST
COLDWATER ROAD
FLINT, MICHIGAN

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY





- LANDFILL MONITORING WELL / PIEZOMETER
- LANDFILL MONITORING WELL / PIEZOMETER
- OTHER MONITORING WELL / PIEZOMETER
- LEACHATE COLLECTION SUMP
- ACCESS PORT FOR LEAK DETECTION VAULT
- PROPERTY BOUNDARY
- FORMER BUILDING



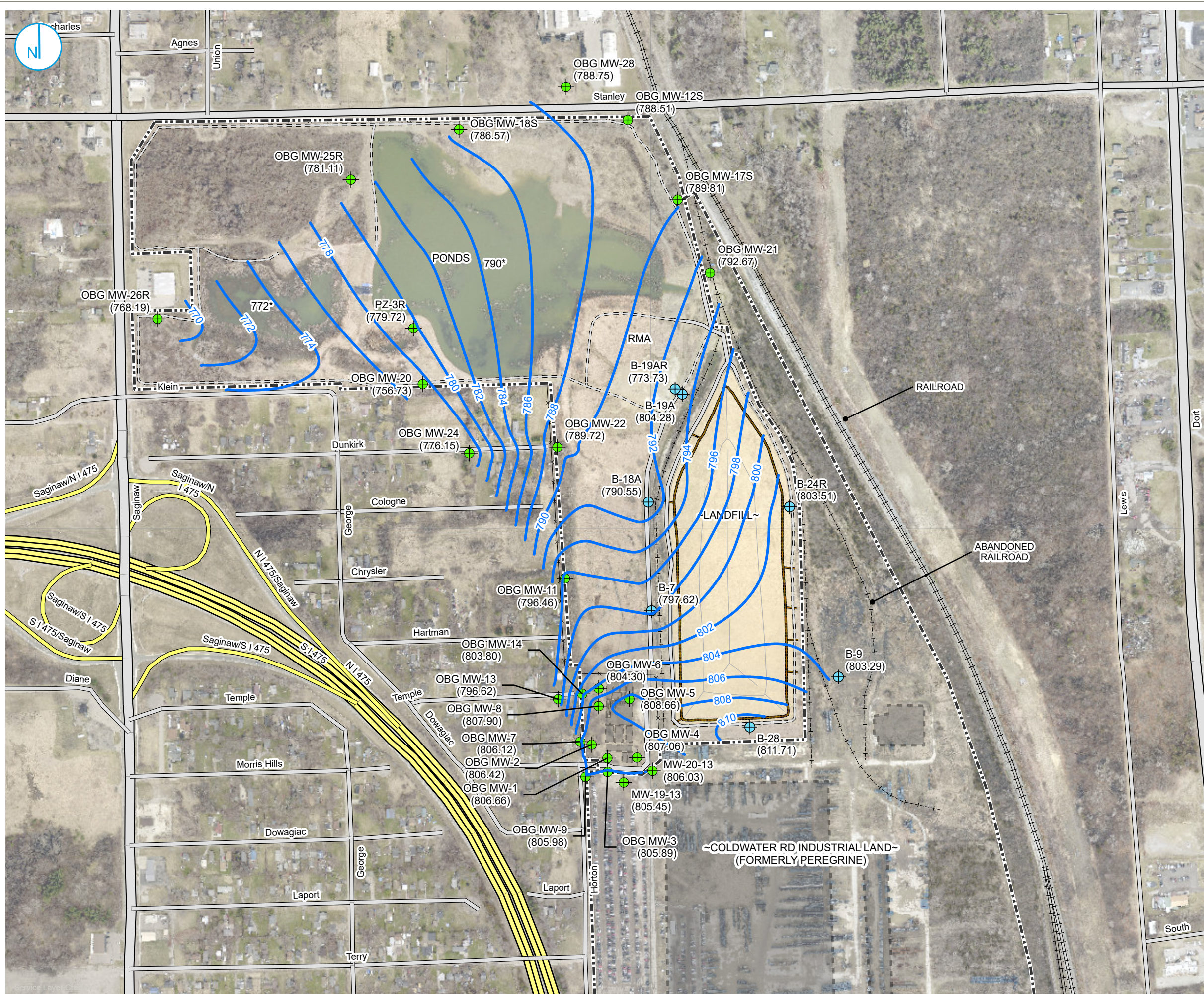
SITE LAYOUT

RACER TRUST
COLDWATER ROAD
FLINT, MICHIGAN

FIGURE 2

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY





- LANDFILL MONITORING WELL / PIEZOMETER
 - OTHER MONITORING WELL / PIEZOMETER
 - GROUNDWATER CONTOUR (JUNE 3, 2024)
 - PROPERTY BOUNDARY
 - FORMER BUILDING
- (800.93) GROUNDWATER ELEVATION

NOTES
 THE GROUNDWATER ELEVATION FOR MONITORING WELL B-19AR WAS NOT USED IN DEVELOPING THE GROUNDWATER POTENTIOMETRIC SURFACE DUE TO THE DEPTH OF THIS WELL AND VERTICAL GRADIENTS AT THE SITE.

THE GROUNDWATER ELEVATION FOR MONITORING WELL OBG MW-20 WAS NOT USED IN DEVELOPING THE GROUNDWATER POTENTIOMETRIC SURFACE DUE TO AN ANOMOUS READING.

THE ADDITIONAL SITE MONITORING WELLS WERE USED IN THE CREATION OF THE GROUNDWATER CONTOURS BUT ARE NOT PART OF THE LANDFILL MONITORING PROGRAM.

772* - TRIGGER ELEVATION FOR POND DEWATERING.



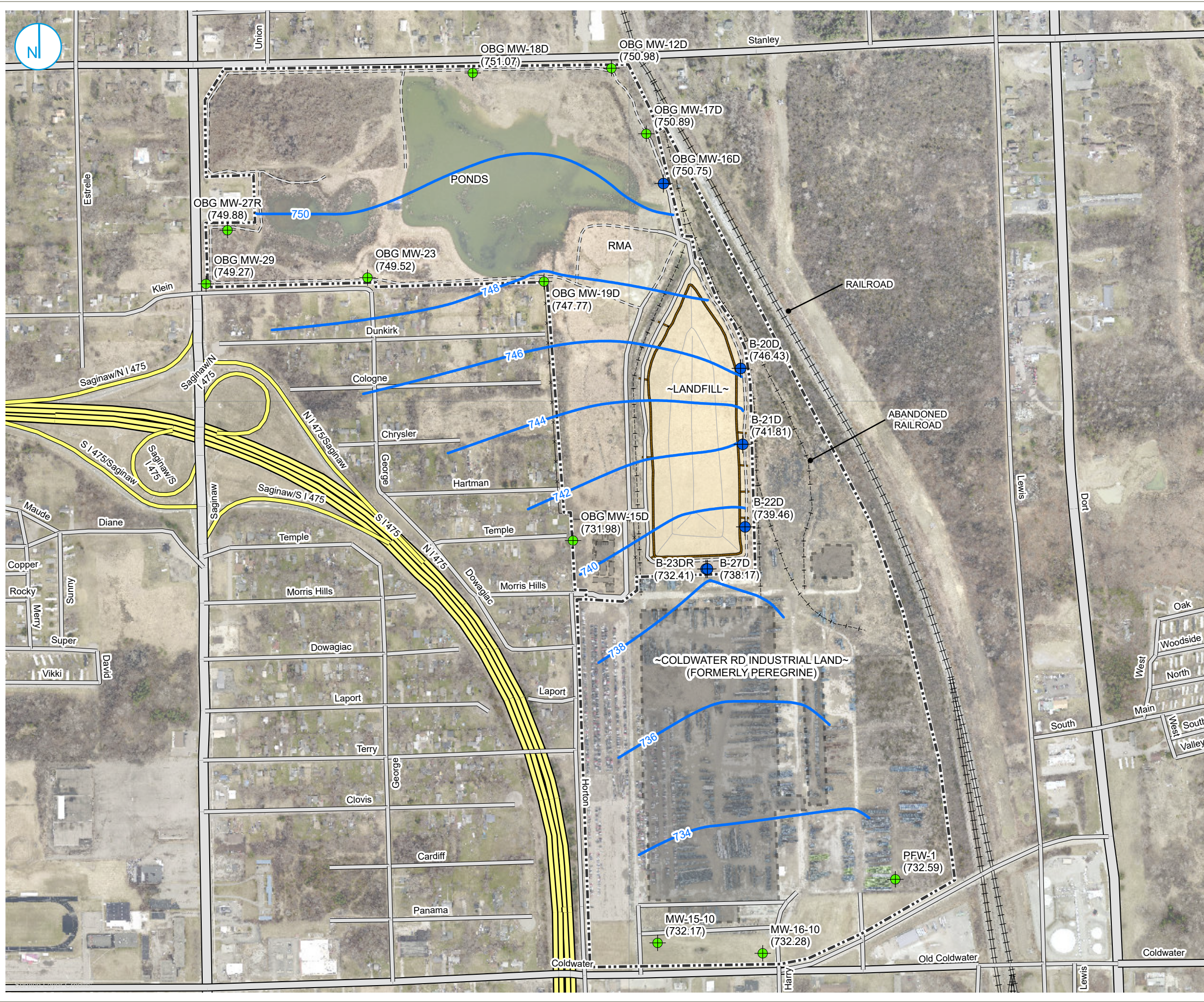
PERCHED ZONE GROUNDWATER ELEVATION MAP
 JUNE 3, 2024

RACER TRUST
 COLDWATER ROAD
 FLINT, MICHIGAN

FIGURE 3

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.
 A RAMBOLL COMPANY





- LANDFILL MONITORING WELL / PIEZOMETER
 - OTHER MONITORING WELL / PIEZOMETER
 - GROUNDWATER CONTOUR (JUNE 3, 2024)
 - PROPERTY BOUNDARY
 - FORMER BUILDING
- (800.93) GROUNDWATER ELEVATION

NOTES
 THE GROUNDWATER ELEVATIONS FOR MONITORING WELLS B-23DR AND OBG MW-15D WERE NOT USED IN DEVELOPING THE GROUNDWATER POTENTIOMETRIC SURFACE DUE TO THE DEPTH OF THESE WELLS AND APPARENT VERTICAL GRADIENT WITHIN THE DRIFT UNIT.
 THE ADDITIONAL SITE MONITORING WELLS WERE USED IN THE CREATION OF THE GROUNDWATER CONTOURS BUT ARE NOT PART OF THE LANDFILL MONITORING PROGRAM.



DRIFT UNIT GROUNDWATER ELEVATION MAP
 JUNE 3, 2024

RACER TRUST
 COLDWATER ROAD
 FLINT, MICHIGAN

FIGURE 4

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.
 A RAMBOLL COMPANY



APPENDIX A SAMPLING PROCEDURES

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1 Introduction

This procedure is for the collection of groundwater samples for laboratory analysis. The objective of most groundwater quality monitoring programs is to obtain samples that are representative of existing groundwater conditions, or samples that retain the physical and chemical properties of the groundwater within an aquifer.

One of the most important aspects of groundwater sampling is acquiring samples that are free of suspended silt, sediment, or other fine grained particulates. Fine grain materials may often have a variety of chemical components sorbed to the particle or have the ability to sorb chemicals from the aqueous phase to the particle, which will bias the subsequent analytical results.

Constituents known to have an affinity for fine-grained particulates are: polychlorinated biphenyls (PCBs), semi-volatile organic compounds (SVOCs), and inorganics. Monitoring programs where these constituents are suspected or known to be prevalent must employ sampling methods that minimize particulate presence.

The "Low Stress/Low Flow" purging and sampling method will be utilized to purge the well to allow representative water from the formation to replace the standing water within the sampling zone of the well. Experience has shown that the low stress/low flow technique typically achieves representative groundwater samples with minimal particulate interference.

Lastly, in extreme cases "ultra-low flow" techniques have been employed at select sites where low stress/low flow methods were used, yet particulate-sensitive constituents continue to bias the analytical results, or excessive drawdown is produced using standard low stress/low flow methods due to the presence of low permeability materials within a well's screened zone. Ultra-low flow techniques are conducted at purging rates below 100 ml per minute, and should only be utilized after low stress/low flow methods have been attempted (see Section 2.2 for further discussion on the purging of wells prior to sample collection).

2 Procedural Guidelines

The following describes techniques for groundwater sampling: Low Stress/Low Flow Methods. Low stress/low flow methods will be employed when it is critical to collect groundwater samples truly representative of the groundwater present, and to minimize the impact of sediment/colloid presence.

2.1 PREPARATORY REQUIREMENTS

Prior to groundwater sampling, an inspection will be performed on each well. The inspection will include:

- Inspecting the concrete pad for cracks
- Inspecting the protective steel cover
- Inspecting the integrity of the PVC well casing (to the extent possible)
- Inspecting the well caps
- Inspecting the well identification markings to confirm they are legible (if illegible, re-mark)
- Inspecting the locks to assess whether they are in good working condition.

Results of the well inspection will be documented on the Groundwater Sampling Log for each well. If the inspection indicates repairs are required, these will be performed prior to the next sampling event. Corrective actions implemented to repair well(s) will also be documented on the Groundwater Sampling Log and/or the field notebook for the facility.

Groundwater purging and sampling data will be recorded on the Groundwater Sampling Log.

2.2 WELL PURGING AND STABILIZATION MONITORING (LOW STRESS/LOW FLOW METHOD)

The procedure for sampling the monitoring wells is as follows:

- 1) Sampling equipment will first be decontaminated prior to each use by the following protocol:
 - Scrub equipment thoroughly in a low-sudsing detergent solution (e.g., Alconox). Pump low-sudsing detergent solution through submersible pump for approximately 5 minutes, if utilized
 - Rinse equipment thoroughly with distilled water, and pump distilled water through submersible pump, if utilized
 - Wrap equipment in plastic for handling and/or storage until next use
 - Decontamination of disposable tubing, if used, will not be necessary
- 2) Calibrate field instrument and document calibration activity. Calibration shall be performed in accordance with manufacturer's recommendations, and noted on the Groundwater Sampling Log

- 3) An electric water level probe will be used to measure the depth from the top of the casing to the top of water to the nearest 0.01-ft. The measurement will be recorded in a dedicated field notebook and Groundwater Sampling Log
- 4) Measure the depth from the top of casing to the bottom of the well for the initial sampling event
- 5) Slowly lower the pump and/or tubing into the well positioning the pump intake at the mid-point of the well screen taking care to minimize disturbing the well
- 6) During the purging of the well, monitor and record the field indicator parameters (pH, temperature, conductivity, oxidation-reduction (redox) reaction potential (ORP), dissolved oxygen (DO), and turbidity) approximately every 5 minutes. Stabilization is considered achieved when the final groundwater flow rate is achieved, and three consecutive readings for each parameter are within the following limits:

pH	±0.1 pH units for three consecutive readings;
temperature	±3 percent for three consecutive readings;
conductivity	±3 percent for three consecutive readings;
ORP	±10 millivolts (mV) for three consecutive readings;
DO	±10 percent for three consecutive readings; and
Turbidity	±10 percent for three consecutive readings or a final value of less than 5 nephelometric turbidity units (NTU).
- 7) Verify that drawdowns of 0.3 ft or less are maintained and make adjustments as necessary. Record drawdown measurements and note adjustments in pumping rates as necessary on the Groundwater Sampling Log. If drawdowns of 0.3 ft or less cannot be maintained utilize ultra-low flow purge techniques. However, if ultra-low flow purging still results in excessive drawdown, the well will be purged "dry" and allowed to recharge, and the sample will be collected as soon as sufficient water is present to obtain the necessary sample volume
- 8) Obtain a sample for chemical analyses immediately upon stabilization of field parameter measurements. Field filter the sample for dissolved metals using a 0.45-micron filter prior to preserving with acid. Samples are to be collected in the order of volatility as follows: TOC/TOX (or VOCs) and dissolved metals.

If after 2 hours of purging the indicator parameters have not stabilized, as recommended in the USEPA guidance, the purging will be discontinued and the sample will be collected with an explanation of attempts to achieve stabilization.

Either a decontaminated submersible pump or peristaltic pump (for shallow wells only) may be utilized to purge each well. If a submersible pump is utilized in the purging process, then it will be decontaminated prior to and after sampling each well. Sampling equipment must be protected from the

ground surface by a clean plastic sheet laid around the work area. Water from purging will not be containerized.

2.3 SAMPLE PRESERVATION

Sample bottles will be labeled with sample identification, collection date and time, filtration/preservative status. Sample bottles will be filled and capped securely and immediately preserved (if required) and stored at 4 degrees Celsius in a cooler.

The cooler and samples will be prepared for shipment or transport by the following procedure:

- 1)** Prepare cooler(s) for shipment.
 - Tape drain(s) of cooler shut
 - Place mailing label with laboratory address on top of cooler(s).
- 2)** Arrange sample containers in a manner to prevent potential sample container breakage.
- 3)** Confirm the bottle labels are completed correctly. Place clear tape over bottle labels to prevent moisture accumulation from causing the label to peel off.
- 4)** Seal sample containers within plastic zip-lock bags to prevent packing material from contacting samples.
- 5)** Place packing material at the bottom of the cooler to act as a cushion for the sample containers.
- 6)** Fill remaining spaces with packing material.
- 7)** Confirm containers are firmly packed in cooler.
- 8)** If ice is required to preserve the samples, cubes should be repackaged in double zip-lock bags, and placed on top of the packing material.
- 9)** Sign COC form (or obtain signature) and indicate the time and date it was relinquished to Federal Express or other carrier, as appropriate.
- 10)** Separate copies of COC forms. Seal proper copies within a large zip-lock bag and tape to inside lid of cooler. Retain copies of forms in-house.
- 11)** Close lid and latch.
- 12)** Tape cooler shut on both ends, making several complete revolutions with strapping tape.
- 13)** Relinquish to Federal Express or other courier service. Retain airbill receipt for project records (Note: Samples will be shipped for "NEXT DAY" delivery).

If samples are delivered directly to the laboratory, or the laboratories in-house courier, by the sampling team, the packaging/shipping requirements may be omitted. COC procedures; however, must be strictly maintained.

2.4 SAMPLE MANAGEMENT AND CHAIN-OF-CUSTODY

COC procedures document the history of sample containers and samples from the time of preparation of sample containers through sample collection, shipment, and analysis. A sample is considered in custody if:

- The sample is in the sampler's physical possession
- The sample is secured by the sampler to prevent tampering
- The sample is secured by the sampler employee in an area that is restricted to authorized personnel.

To maintain a record of sample collection, transfer between personnel, shipment, and receipt by the laboratory, a COC record will be completed for each sample at each sampling location. Each time the samples are transferred, signatures of the person relinquishing and receiving the samples, as well as the date and time, will be documented.

Parallel field notebook/Groundwater Sampling Log and COC records will be maintained. Recorded information will include:

- Sampling Location
- Time and Date
- Sampling Method
- Method of Preservation.

Additionally, the field notebook will also include information on weather conditions, depth to water, total depth of the well, field parameter and instrument calibration records and other useful or pertinent information. The notebook will be kept at the facility or with their designated contractor.

2.5 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) MEASURES

Field QA/QC procedures will consist of collecting one equipment blank (if reusable equipment is used) and one duplicate sample (one additional sample from one of the wells) for each sampling event. The duplicate sample will be assigned a separate sample identification and submitted to the laboratory "blind".

The procedure for collecting an equipment blank will be to pass distilled water through the decontaminated sampling device into a laboratory-supplied sample bottles. An equipment blank sample will not be required if disposable sampling equipment is used.

3 References

USEPA Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures (EPA/540/S -95/504).

USEPA (Region 1) Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells (EQASOP-GW 001), January 19, 2010.

USEPA RCRA Groundwater Monitoring: Draft Technical Guidance (EPA/530-R-93-001).

MDEQ RRD Operational Memorandum No. 2: Sampling and Analysis.

**APPENDIX B
GROUNDWATER SAMPLING LOGS**

Date 6/3/2024 | 6/6/2024
 Site Name RACER Coldwater Rd
 Location Flint, MI
 Project No. 1940107203
 Personnel ST

Weather Sunny, 70's °F
 Well # B-7
 Evacuation Method Whale Pump-Peristaltic
 Sampling Method Purged Dry

Well Information:

Depth of Well * 29.98 ft.
 Depth to Water * 16.05 | 20.20 ft.
 Length of Water Column 13.93 ft.
 Volume of Water in Well 2.27 gal.(s)
 3X Volume of Water in Well 6.81 gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 4.0 gal.(s)
 Did well go dry? yes

* Measurements taken from Well Casing Protective Casing (Other, Specify)

Instrument Calibration:

Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity mS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>16.75</u>	initial <u>24.65</u>	initial <u>0.77</u>	initial <u>2.19</u>	initial <u>6.78</u>	initial <u>137.3</u>	initial <u>465</u>
5 min	<u>24.10</u>	<u>11.75</u>	<u>0.99</u>	<u>1.20</u>	<u>7.04</u>	<u>65.8</u>	<u>217.0</u>
10 min	<u>Dry</u>	<u>11.51</u>	<u>0.99</u>	<u>3.79</u>	<u>7.12</u>	<u>76.0</u>	<u>91.8</u>
15 min							
20 min	<u>6/6/2024</u>						
25 min	<u>20.80</u>	<u>24.69</u>	<u>1.86</u>	<u>4.10</u>	<u>7.13</u>	<u>41.4</u>	<u>47</u>
30 min	<u>21.11</u>	<u>17.03</u>	<u>1.97</u>	<u>0.98</u>	<u>7.09</u>	<u>42.3</u>	<u>22.7</u>
35 min	<u>21.17</u>	<u>16.21</u>	<u>1.99</u>	<u>0.84</u>	<u>7.07</u>	<u>40.7</u>	<u>19.7</u>
40 min							
45 min							
50 min							
55 min							
60 min							
65 min							
70 min							
75 min							
80 min							
85 min							
90 min							

Water Sample:

Time Collected 11:25

Physical Appearance at Start

Physical Appearance at Sampling

Color Murky
 Odor None
 Turbidity (> 100 NTU) 465
 Sheen/Free Product None

Color Slightly Cloudy
 Odor None
 Turbidity (> 100 NTU) 19.7
 Sheen/Free Product None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Dissolved Metals - Cu, Cr, Ni, Zn, Fe, Mn, Na	1	125 ml Plastic	HNO ₃	yes
Cyanide	1	125 ml Plastic	NAOH	
Phenols	1	125 ml Plastic	H ₂ SO ₄	
TOC	2	40 ml Glass	H ₂ SO ₄	
TOX	1	125 ml Plastic	H ₂ SO ₄	
Sulfate, Chlorides, SpC	1	500 ml Plastic	None	

Notes:

Standard Groundwater Sampling Log

Date 6/4/2024 | 6/6/2024
 Site Name RACER Coldwater Rd
 Location Flint, MI
 Project No. 1940107203
 Personnel ST

Weather Sunny, 80's °F
 Well # B-9
 Evacuation Method Whale Pump-Peristaltic
 Sampling Method Purged Dry

Well Information:

Depth of Well * 25.20 ft.
 Depth to Water * 4.08 | 3.75 ft.
 Length of Water Column 21.12 ft.
 Volume of Water in Well 3.44 gal.(s)
 3X Volume of Water in Well 10.33 gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 5.0 gal.(s)
 Did well go dry? yes

* Measurements taken from Well Casing Protective Casing (Other, Specify) _____

Instrument Calibration:

Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity mS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>6.00</u>	initial <u>22.68</u>	initial <u>3.75</u>	initial <u>5.03</u>	initial <u>6.85</u>	initial <u>63.8</u>	initial <u>306</u>
5 min	<u>10.60</u>	<u>12.26</u>	<u>4.52</u>	<u>0.12</u>	<u>6.72</u>	<u>57.0</u>	<u>108</u>
10 min	<u>17.85</u>	<u>11.85</u>	<u>4.57</u>	<u>0.15</u>	<u>6.72</u>	<u>39.8</u>	<u>107</u>
15 min	<u>20.42</u>	<u>12.21</u>	<u>4.57</u>	<u>0.28</u>	<u>6.72</u>	<u>36.0</u>	<u>140</u>
20 min	<u>22.50</u>	<u>12.28</u>	<u>4.54</u>	<u>0.81</u>	<u>6.72</u>	<u>27.2</u>	<u>150</u>
25 min	<u>Dry</u>						
30 min							
35 min	<u>6/6/2024</u>						
40 min	<u>4.35</u>	<u>20.72</u>	<u>3.85</u>	<u>6.75</u>	<u>7.08</u>	<u>69.0</u>	<u>430</u>
45 min	<u>4.89</u>	<u>16.80</u>	<u>4.07</u>	<u>4.08</u>	<u>6.85</u>	<u>63.9</u>	<u>462</u>
50 min		<u>15.21</u>	<u>4.15</u>	<u>3.67</u>	<u>6.82</u>	<u>57.0</u>	<u>438</u>
55 min	<u>5.66</u>	<u>14.87</u>	<u>4.15</u>	<u>3.35</u>	<u>6.79</u>	<u>53.1</u>	<u>297</u>
60 min	<u>6.05</u>	<u>14.64</u>	<u>4.13</u>	<u>2.56</u>	<u>6.76</u>	<u>50.6</u>	<u>105</u>
65 min							<u>68.6</u>
70 min						<u>After Filter</u>	<u>16.6</u>
75 min							
80 min							
85 min							
90 min							

Water Sample:

Time Collected 10:18

Physical Appearance at Start

Physical Appearance at Sampling

Color Foggy Color light brownish gray
 Odor None Odor None
 Turbidity (> 100 NTU) 306 Turbidity (> 100 NTU) 68.6
 Sheen/Free Product None Sheen/Free Product None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Dissolved Metals - Cu, Cr, Ni, Zn, Fe, Mn, Na	1	125 ml Plastic	HNO ₃	yes
Cyanide	1	125 ml Plastic	NAOH	
Phenols	1	125 ml Plastic	H ₂ SO ₄	
TOC	2	40 ml Glass	H ₂ SO ₄	
TOX	1	125 ml Plastic	H ₂ SO ₄	
Sulfate, Chlorides, SpC	1	500 ml Plastic	None	

Notes:

Standard Groundwater Sampling Log

Date 6/10/2024
 Site Name RACER Coldwater Rd
 Location Flint, MI
 Project No. 1940107203
 Personnel JMK

Weather Sunny, 60's °F
 Well # OBG MW-16D
 Evacuation Method peristaltic
 Sampling Method low flow

Well Information:

Depth of Well * 75.10 ft.
 Depth to Water * 56.67 ft.
 Length of Water Column 18.43 ft.
 Volume of Water in Well 3.00 gal.(s)
 3X Volume of Water in Well 9.01 gal.(s)

Water Volume /ft. for:
 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 3 1/4 gal.(s)
 Did well go dry? No

* Measurements taken from Well Casing Protective Casing (Other, Specify) _____

Instrument Calibration:

Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity mS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>56.67</u>	initial <u>29.37</u>	initial <u>0.62</u>	initial <u>4.92</u>	initial <u>7.50</u>	initial <u>-116.2</u>	initial <u>219</u>
5 min	<u>56.70</u>	<u>13.01</u>	<u>0.62</u>	<u>0.22</u>	<u>7.38</u>	<u>-126.4</u>	<u>198</u>
10 min	<u>56.70</u>	<u>12.38</u>	<u>0.62</u>	<u>0.15</u>	<u>7.43</u>	<u>-119.8</u>	<u>128</u>
15 min	<u>56.70</u>	<u>12.36</u>	<u>0.62</u>	<u>0.12</u>	<u>7.45</u>	<u>-115.9</u>	<u>72.2</u>
20 min	<u>56.70</u>	<u>12.11</u>	<u>0.63</u>	<u>0.08</u>	<u>7.45</u>	<u>-114.4</u>	<u>47.7</u>
25 min	<u>56.70</u>	<u>12.15</u>	<u>0.63</u>	<u>0.11</u>	<u>7.45</u>	<u>-112.3</u>	<u>28.4</u>
30 min	<u>56.70</u>	<u>12.19</u>	<u>0.63</u>	<u>0.07</u>	<u>7.45</u>	<u>-109.9</u>	<u>26.1</u>
35 min	<u>56.70</u>	<u>12.09</u>	<u>0.63</u>	<u>0.06</u>	<u>7.45</u>	<u>-111.8</u>	<u>18.6</u>
40 min	<u>56.70</u>	<u>12.17</u>	<u>0.63</u>	<u>0.03</u>	<u>7.45</u>	<u>-111.7</u>	<u>12.5</u>
45 min	<u>56.70</u>	<u>12.05</u>	<u>0.63</u>	<u>0.05</u>	<u>7.45</u>	<u>-110.6</u>	<u>10.0</u>
50 min	_____	_____	_____	_____	_____	_____	_____
55 min	_____	_____	_____	_____	_____	_____	_____
60 min	_____	_____	_____	_____	_____	_____	_____
65 min	_____	_____	_____	_____	_____	_____	_____
70 min	_____	_____	_____	_____	_____	_____	_____
75 min	_____	_____	_____	_____	_____	_____	_____
80 min	_____	_____	_____	_____	_____	_____	_____
85 min	_____	_____	_____	_____	_____	_____	_____
90 min	_____	_____	_____	_____	_____	_____	_____

Water Sample:

Time Collected 14:15

Physical Appearance at Start _____

Physical Appearance at Sampling _____

Color Clear
 Odor None
 Turbidity (> 100 NTU) 219
 Sheen/Free Product None

Color Clear
 Odor None
 Turbidity (> 100 NTU) 10.0
 Sheen/Free Product None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Dissolved Metals - Cu, Cr, Ni, Zn, Fe, Mn, Na	1	125 ml Plastic	HNO ₃	yes
Cyanide	1	125 ml Plastic	NAOH	
Phenols	1	125 ml Amber	H ₂ SO ₄	
TOC	2	40 ml Glass	H ₂ SO ₄	
TOX	1	250 ml Amber	H ₂ SO ₄	
Sulfate, Chlorides, SpC	1	500 ml Plastic	None	

Notes:

OBG-MW-16D-06102024

Date 6/4/2024 | 6/6/2024
 Site Name RACER Coldwater Rd
 Location Flint, MI
 Project No. 1940107203
 Personnel ST

Weather Sunny, 80's °F
 Well # B-18A
 Evacuation Method Whale Pump-Peristaltic
 Sampling Method Purged Dry

Well Information:

Depth of Well * 43.58 ft.
 Depth to Water * 20.44 | 28.84 ft.
 Length of Water Column 23.14 ft.
 Volume of Water in Well 3.77 gal.(s)
 3X Volume of Water in Well 11.32 gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 5.5 gal.(s)
 Did well go dry? Yes

* Measurements taken from Well Casing Protective Casing (Other, Specify)

Instrument Calibration:

Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity mS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>22.50</u>	initial <u>23.70</u>	initial <u>0.01</u>	initial <u>8.26</u>	initial <u>8.11</u>	initial <u>78.6</u>	initial <u>104</u>
5 min	<u>25.10</u>	<u>12.34</u>	<u>2.08</u>	<u>2.98</u>	<u>7.14</u>	<u>45.8</u>	<u>42.6</u>
10 min	<u>32.05</u>	<u>12.35</u>	<u>2.07</u>	<u>2.62</u>	<u>7.11</u>	<u>38.9</u>	<u>27.3</u>
15 min	<u>38.21</u>	<u>12.66</u>	<u>2.07</u>	<u>2.70</u>	<u>7.11</u>	<u>38.3</u>	<u>50.2</u>
20 min	<u>40.02</u>	<u>12.77</u>	<u>2.07</u>	<u>2.59</u>	<u>7.12</u>	<u>37.8</u>	<u>62.6</u>
25 min	<u>Dry</u>						<u>153</u>
30 min							
35 min	<u>6/6/2024</u>						
40 min	<u>30.35</u>	<u>27.27</u>	<u>2.02</u>	<u>4.59</u>	<u>7.09</u>	<u>72.1</u>	<u>73.6</u>
45 min							
50 min							
55 min							
60 min							
65 min							
70 min							
75 min							
80 min							
85 min							
90 min							

Water Sample:

Time Collected 12:55

Physical Appearance at Start

Physical Appearance at Sampling

Color Foggy/ Clear Color Light Gray
 Odor None Odor None
 Turbidity (> 100 NTU) 104 Turbidity (> 100 NTU) 73.6
 Sheen/Free Product None Sheen/Free Product None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Dissolved Metals - Cu, Cr, Ni, Zn, Fe, Mn, Na	1	125 ml Plastic	HNO ₃	yes
Cyanide	1	125 ml Plastic	NAOH	
Phenols	1	125 ml Plastic	H ₂ SO ₄	
TOC	2	40 ml Glass	H ₂ SO ₄	
TOX	1	125 ml Plastic	H ₂ SO ₄	
Sulfate, Chlorides, SpC	1	500 ml Plastic	None	

Notes:

Collected sample then readings.

Date 6/4/2024 | 6/6/2024
 Site Name RACER Coldwater Rd
 Location Flint, MI
 Project No. 1940107203
 Personnel ST

Weather Sunny, 80's °F
 Well # B-19AR
 Evacuation Method Whale Pump-Peristaltic
 Sampling Method Purged Dry

Well Information:

Depth of Well * 47.10 ft.
 Depth to Water * 38.05 | 37.85 ft.
 Length of Water Column 9.05 ft.
 Volume of Water in Well 1.48 gal.(s)
 3X Volume of Water in Well 4.43 gal.(s)

Water Volume /ft. for:
 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 4.0 gal.(s)
 Did well go dry? Yes

* Measurements taken from Well Casing Protective Casing (Other, Specify) _____

Instrument Calibration:

Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity mS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>40.80</u>	initial <u>27.44</u>	initial <u>1.86</u>	initial <u>3.65</u>	initial <u>7.34</u>	initial <u>69.3</u>	initial <u>107</u>
5 min	<u>41.95</u>	<u>14.35</u>	<u>2.33</u>	<u>2.17</u>	<u>7.10</u>	<u>46.8</u>	<u>46.3</u>
10 min	<u>44.20</u>	<u>15.62</u>	<u>2.43</u>	<u>4.13</u>	<u>7.38</u>	<u>47.6</u>	<u>72.5</u>
15 min	<u>45.10</u>	<u>13.67</u>	<u>2.32</u>	<u>0.25</u>	<u>7.08</u>	<u>37.0</u>	<u>70.1</u>
20 min	<u>47.00</u>	<u>13.53</u>	<u>2.33</u>	<u>0.19</u>	<u>7.08</u>	<u>33.8</u>	<u>100.2</u>
25 min	<u>Dry</u>						
30 min							
35 min							
40 min	<u>6/6/2024</u>						
45 min	<u>38.09</u>	<u>25.80</u>	<u>2.02</u>	<u>4.26</u>	<u>7.11</u>	<u>63.7</u>	<u>133</u>
50 min	<u>38.91</u>	<u>22.71</u>	<u>2.14</u>	<u>4.70</u>	<u>7.09</u>	<u>55.6</u>	<u>111</u>
55 min	<u>37.00</u>	<u>22.79</u>	<u>2.16</u>	<u>4.73</u>	<u>7.07</u>	<u>54.9</u>	<u>69.7</u>
60 min							<u>101</u>
65 min						<u>After Filter</u>	<u>17</u>
70 min							
75 min							
80 min							
85 min							
90 min							

Water Sample:

Time Collected 13:40

Physical Appearance at Start

Physical Appearance at Sampling

Color Clear Color Light Gray
 Odor None Odor None
 Turbidity (> 100 NTU) 107 Turbidity (> 100 NTU) 17
 Sheen/Free Product None Sheen/Free Product None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Dissolved Metals - Cu, Cr, Ni, Zn, Fe, Mn, Na	1	125 ml Plastic	HNO ₃	yes
Cyanide	1	125 ml Plastic	NAOH	
Phenols	1	125 ml Plastic	H ₂ SO ₄	
TOC	2	40 ml Glass	H ₂ SO ₄	
TOX	1	125 ml Plastic	H ₂ SO ₄	
Sulfate, Chlorides, SpC	1	500 ml Plastic	None	

Notes:

Standard Groundwater Sampling Log

Date 6/10/2024
 Site Name RACER Coldwater Rd
 Location Flint, MI
 Project No. 1940107203
 Personnel JMK

Weather Sunny, 60's °F
 Well # B-20D
 Evacuation Method Bladder Pump
 Sampling Method Low Flow

Well Information:

Depth of Well * 90.91 ft.
 Depth to Water * 68.70 ft.
 Length of Water Column 22.21 ft.
 Volume of Water in Well 3.62 gal.(s)
 3X Volume of Water in Well 10.86 gal.(s)

Water Volume /ft. for:
 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 2 1/4 gal.(s)
 Did well go dry? No

* Measurements taken from Well Casing Protective Casing (Other, Specify) _____

Instrument Calibration:

Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity mS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>68.7</u>	initial <u>123.55</u>	initial <u>0.62</u>	initial <u>3.51</u>	initial <u>7.59</u>	initial <u>-92.9</u>	initial <u>222</u>
5 min	<u>69.30</u>	<u>13.13</u>	<u>0.77</u>	<u>0.35</u>	<u>7.23</u>	<u>-75.0</u>	<u>390</u>
10 min	<u>69.14</u>	<u>13.84</u>	<u>0.78</u>	<u>0.27</u>	<u>7.22</u>	<u>-75.5</u>	<u>316</u>
15 min	<u>69.07</u>	<u>15.12</u>	<u>0.78</u>	<u>0.28</u>	<u>7.23</u>	<u>-78.2</u>	<u>326</u>
20 min	<u>69.04</u>	<u>13.99</u>	<u>0.78</u>	<u>0.25</u>	<u>7.23</u>	<u>-74.2</u>	<u>209</u>
25 min	<u>69.04</u>	<u>13.70</u>	<u>0.79</u>	<u>0.22</u>	<u>7.23</u>	<u>-72.8</u>	<u>193</u>
30 min	<u>69.04</u>	<u>13.42</u>	<u>0.79</u>	<u>0.20</u>	<u>7.24</u>	<u>-71.9</u>	<u>153</u>
35 min	<u>69.04</u>	<u>13.10</u>	<u>0.78</u>	<u>0.18</u>	<u>7.24</u>	<u>-100.9</u>	<u>132</u>
40 min	<u>69.04</u>	<u>13.41</u>	<u>0.79</u>	<u>0.16</u>	<u>7.24</u>	<u>-72.9</u>	<u>115</u>
45 min	<u>69.04</u>	<u>13.83</u>	<u>0.78</u>	<u>0.15</u>	<u>7.24</u>	<u>-73.0</u>	<u>99.1</u>
50 min	<u>69.04</u>	<u>14.20</u>	<u>0.78</u>	<u>0.14</u>	<u>7.24</u>	<u>-74.0</u>	<u>77.5</u>
55 min	<u>69.04</u>	<u>14.86</u>	<u>0.78</u>	<u>0.13</u>	<u>7.23</u>	<u>-75.1</u>	<u>62.2</u>
60 min	<u>69.04</u>	<u>14.59</u>	<u>0.79</u>	<u>0.12</u>	<u>7.22</u>	<u>-75.0</u>	<u>58.8</u>
65 min	<u>69.04</u>	<u>14.87</u>	<u>0.78</u>	<u>0.12</u>	<u>7.23</u>	<u>-75.0</u>	<u>47.9</u>
70 min	<u>69.04</u>	<u>14.98</u>	<u>0.79</u>	<u>0.11</u>	<u>7.23</u>	<u>-75.4</u>	<u>46.5</u>
75 min	<u>69.04</u>	<u>15.07</u>	<u>0.79</u>	<u>0.10</u>	<u>7.22</u>	<u>-75.8</u>	<u>42.3</u>
80 min							
85 min							
90 min							

Water Sample:

Time Collected 12:00

Physical Appearance at Start

Physical Appearance at Sampling

Color Clear Color Clear
 Odor None Odor None
 Turbidity (> 100 NTU) 222 Turbidity (> 100 NTU) 42.3
 Sheen/Free Product None Sheen/Free Product None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Dissolved Metals - Cu, Cr, Ni, Zn, Fe, Mn, Na	1	125 ml Plastic	HNO ₃	yes
Cyanide	1	125 ml Plastic	NAOH	
Phenols	1	125 ml Plastic	H ₂ SO ₄	
TOC	2	40 ml Glass	H ₂ SO ₄	
TOX	1	125 ml Plastic	H ₂ SO ₄	
Sulfate, Chlorides, SpC	1	500 ml Plastic	None	

Notes:

MW-DUP-06102024 Collected at Well
 B-20D-06102024

Standard Groundwater Sampling Log

Date 6/6/2024
 Site Name RACER Coldwater Rd Weather Sunny, 70's °F
 Location Flint, MI Well # B-21D
 Project No. 1940107203 Evacuation Method Bladder Pump
 Personnel ST Sampling Method Low Flow

Well Information:

Depth of Well * 90.91 ft. Water Volume /ft. for:
 Depth to Water * 79.20 ft. X 2" Diameter Well = 0.163 X LWC
 Length of Water Column 11.71 ft. 4" Diameter Well = 0.653 X LWC
 Volume of Water in Well 1.91 gal.(s) 6" Diameter Well = 1.469 X LWC
 3X Volume of Water in Well 5.73 gal.(s)
 Volume removed before sampling 2 3/4 gal.(s)
 Did well go dry? No
 * Measurements taken from Well Casing Protective Casing (Other, Specify)

Instrument Calibration:

Calibrated within range
 pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity mS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>79.98</u>	initial <u>20.99</u>	initial <u>0.60</u>	initial <u>3.89</u>	initial <u>7.67</u>	initial <u>-58.5</u>	initial <u>1040</u>
5 min	<u>79.78</u>	<u>13.34</u>	<u>0.66</u>	<u>0.29</u>	<u>7.44</u>	<u>-89.9</u>	-
10 min	<u>79.70</u>	<u>15.33</u>	<u>0.68</u>	<u>0.27</u>	<u>7.42</u>	<u>-66.6</u>	-
15 min	<u>79.68</u>	<u>13.98</u>	<u>0.68</u>	<u>0.24</u>	<u>7.42</u>	<u>-62.4</u>	-
20 min	<u>79.62</u>	<u>14.61</u>	<u>0.68</u>	<u>0.25</u>	<u>7.41</u>	<u>-63.4</u>	-
25 min	<u>79.68</u>	<u>14.52</u>	<u>0.69</u>	<u>0.26</u>	<u>7.41</u>	<u>-62.9</u>	-
30 min	<u>79.70</u>	<u>14.29</u>	<u>0.69</u>	<u>0.25</u>	<u>7.41</u>	<u>-60.7</u>	<u>212</u>
35 min	<u>79.70</u>	<u>14.31</u>	<u>0.69</u>	<u>0.25</u>	<u>7.40</u>	<u>-62.3</u>	-
40 min	<u>79.70</u>	<u>14.21</u>	<u>0.70</u>	<u>0.25</u>	<u>7.40</u>	<u>-62.5</u>	-
45 min	<u>79.70</u>	<u>14.33</u>	<u>0.70</u>	<u>0.24</u>	<u>7.40</u>	<u>-92.7</u>	<u>182</u>
50 min	<u>79.70</u>	<u>14.11</u>	<u>0.70</u>	<u>0.23</u>	<u>7.40</u>	<u>-62.5</u>	<u>173</u>
55 min	<u>79.72</u>	<u>14.29</u>	<u>0.70</u>	<u>0.26</u>	<u>7.40</u>	<u>-63.3</u>	<u>151</u>
60 min	<u>79.72</u>	<u>14.24</u>	<u>0.71</u>	<u>0.53</u>	<u>7.39</u>	<u>-90.5</u>	<u>150</u>
65 min	<u>79.70</u>	<u>14.37</u>	<u>0.71</u>	<u>0.23</u>	<u>7.39</u>	<u>-63.3</u>	<u>140</u>
70 min							
75 min							
80 min							
85 min							
90 min							
95 min							
100 min							
105 min							
110 min							
115 min							
120 min							

Water Sample:

Time Collected 12:45
 Physical Appearance at Start Physical Appearance at Sampling
 Color Murky/Brown Color Clear
 Odor None Odor None
 Turbidity (> 100 NTU) Meter not working- 10:40 Turbidity (> 100 NTU) 140
 Sheen/Free Product None Sheen/Free Product None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Dissolved Metals - Cu, Cr, Ni, Zn, Fe, Mn, Na	1	125 ml Plastic	HNO ₃	yes
Cyanide	1	125 ml Plastic	NAOH	
Phenols	1	125 ml Plastic	H ₂ SO ₄	
TOC	2	40 ml Glass	H ₂ SO ₄	
TOX	1	125 ml Plastic	H ₂ SO ₄	
Sulfate, Chlorides, SpC	1	500 ml Plastic	None	

Notes:

Rate @ Start 300 mL/min
 Rate @ Start 150 mL/min
 Collected start turbidity, meter died, replaced half-way through purge.
 Start @ 11:35

Standard Groundwater Sampling Log

Date 6/6/2024
 Site Name RACER Coldwater Rd
 Location Flint, MI
 Project No. 1940107203
 Personnel ST

Weather Sunny, 70s °F
 Well # B-22D
 Evacuation Method bladder pump
 Sampling Method low flow

Well Information:

Depth of Well * 99.30 ft.
 Depth to Water * 82.70 ft.
 Length of Water Column 16.60 ft.
 Volume of Water in Well 2.71 gal.(s)
 3X Volume of Water in Well 8.12 gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 2 3/4 gal.(s)
 Did well go dry? No

* Measurements taken from Well Casing Protective Casing (Other, Specify) _____

Instrument Calibration:

Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>83.50</u>	initial <u>25.76</u>	initial <u>0.63</u>	initial <u>5.51</u>	initial <u>7.84</u>	initial <u>-14.3</u>	initial <u>60.2</u>
5 min	<u>83.60</u>	<u>14.59</u>	<u>0.68</u>	<u>0.45</u>	<u>7.56</u>	<u>-144.3</u>	<u>77.8</u>
10 min	<u>83.60</u>	<u>13.37</u>	<u>0.69</u>	<u>0.28</u>	<u>7.50</u>	<u>-100.5</u>	<u>81.2</u>
15 min	<u>83.60</u>	<u>13.11</u>	<u>0.69</u>	<u>0.22</u>	<u>7.48</u>	<u>-94.1</u>	<u>74.3</u>
20 min	<u>83.60</u>	<u>12.97</u>	<u>0.69</u>	<u>0.19</u>	<u>7.47</u>	<u>-89.4</u>	<u>53.1</u>
25 min	<u>83.60</u>	<u>12.93</u>	<u>0.69</u>	<u>0.16</u>	<u>7.47</u>	<u>-85.2</u>	<u>54.3</u>
30 min	<u>83.63</u>	<u>12.91</u>	<u>0.69</u>	<u>0.13</u>	<u>7.47</u>	<u>-82.7</u>	<u>32.5</u>
35 min	<u>83.63</u>	<u>12.89</u>	<u>0.69</u>	<u>0.12</u>	<u>7.47</u>	<u>-80.1</u>	<u>23.9</u>
40 min	<u>83.62</u>	<u>12.88</u>	<u>0.69</u>	<u>0.10</u>	<u>7.47</u>	<u>-80.4</u>	<u>22.6</u>
45 min	<u>83.62</u>	<u>12.91</u>	<u>0.69</u>	<u>0.09</u>	<u>7.47</u>	<u>-78.6</u>	<u>14.3</u>
50 min	<u>83.62</u>	<u>12.92</u>	<u>0.69</u>	<u>0.08</u>	<u>7.46</u>	<u>-77.8</u>	<u>12.7</u>
55 min	<u>83.62</u>	<u>12.96</u>	<u>0.69</u>	<u>0.07</u>	<u>7.46</u>	<u>-77.8</u>	<u>11.4</u>
60 min	<u>83.62</u>	<u>12.93</u>	<u>0.69</u>	<u>0.06</u>	<u>7.46</u>	<u>-75.8</u>	<u>9.24</u>
65 min	<u>83.62</u>	<u>12.99</u>	<u>0.69</u>	<u>0.06</u>	<u>7.46</u>	<u>-113.2</u>	<u>7.17</u>
70 min							
75 min							
80 min							
85 min							
90 min							
95 min							
100 min							

Water Sample:

Time Collected 10:45

Physical Appearance at Start

Physical Appearance at Sampling

Color Clear Color Clear
 Odor None Odor None
 Turbidity (> 100 NTU) 60.2 Turbidity (> 100 NTU) 7.17
 Sheen/Free Product None Sheen/Free Product None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Dissolved Metals - Cu, Cr, Ni, Zn, Fe, Mn, Na	1	125 ml Plastic	HNO ₃	yes
Cyanide	1	125 ml Plastic	NAOH	
Phenols	1	125 ml Plastic	H ₂ SO ₄	
TOC	2	40 ml Glass	H ₂ SO ₄	
TOX	1	125 ml Plastic	H ₂ SO ₄	
Sulfate, Chlorides, SpC	1	500 ml Plastic	None	

Notes:

Rate at start 200 mL/min
 Start at 09:33
 End at 10:38

Standard Groundwater Sampling Log

Date 6/5/2024
 Site Name RACER Coldwater Rd
 Location Flint, MI
 Project No. 1940107203
 Personnel ST

Weather Partly Cloudy 70s °F
 Well # B-23DR
 Evacuation Method Bladder Pump
 Sampling Method Low Flow

Well Information:

Depth of Well * 110.50 ft.
 Depth to Water * 79.68 ft.
 Length of Water Column 30.82 ft.
 Volume of Water in Well 5.02 gal.(s)
 3X Volume of Water in Well 15.07 gal.(s)

Water Volume /ft. for:
 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 4 gal.(s)
 Did well go dry? No

* Measurements taken from Well Casing Protective Casing (Other, Specify) _____

Instrument Calibration:

Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity mS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>79.70</u>	initial <u>21.84</u>	initial <u>0.51</u>	initial <u>2.70</u>	initial <u>7.39</u>	initial <u>-78.8</u>	initial <u>52.0</u>
5 min	<u>79.72</u>	<u>15.16</u>	<u>0.64</u>	<u>0.42</u>	<u>7.26</u>	<u>-77.7</u>	<u>93.6</u>
10 min	<u>79.70</u>	<u>14.47</u>	<u>0.64</u>	<u>0.27</u>	<u>7.27</u>	<u>-78.5</u>	<u>92.5</u>
15 min	<u>79.71</u>	<u>14.22</u>	<u>0.64</u>	<u>0.23</u>	<u>7.28</u>	<u>-78.5</u>	<u>87.1</u>
20 min	<u>79.72</u>	<u>14.07</u>	<u>0.61</u>	<u>0.23</u>	<u>7.3</u>	<u>-76.4</u>	<u>34.5</u>
25 min	<u>79.71</u>	<u>13.92</u>	<u>0.62</u>	<u>0.17</u>	<u>7.29</u>	<u>-73.7</u>	<u>26.4</u>
30 min	<u>79.72</u>	<u>13.74</u>	<u>0.63</u>	<u>0.16</u>	<u>7.29</u>	<u>-72.6</u>	<u>22.9</u>
35 min	<u>79.72</u>	<u>13.74</u>	<u>0.63</u>	<u>0.14</u>	<u>7.29</u>	<u>-71.8</u>	<u>20.0</u>
40 min	<u>79.72</u>	<u>13.68</u>	<u>0.63</u>	<u>0.13</u>	<u>7.29</u>	<u>-72.0</u>	<u>17.9</u>
45 min	<u>79.73</u>	<u>13.78</u>	<u>0.63</u>	<u>0.12</u>	<u>7.28</u>	<u>-71.8</u>	<u>12.9</u>
50 min	<u>79.71</u>	<u>13.69</u>	<u>0.63</u>	<u>0.10</u>	<u>7.28</u>	<u>-71.4</u>	<u>10.3</u>
55 min							
60 min							
65 min							
70 min							
75 min							
80 min							
85 min							
90 min							

Water Sample:

Time Collected 14:30

Physical Appearance at Start

Physical Appearance at Sampling

Color Clear Color Clear
 Odor None Odor None
 Turbidity (> 100 NTU) 52.0 Turbidity (> 100 NTU) 10.3
 Sheen/Free Product None Sheen/Free Product None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Dissolved Metals - Cu, Cr, Ni, Zn, Fe, Mn, Na	1	125 ml Plastic	HNO ₃	yes
Cyanide	1	125 ml Plastic	NAOH	
Phenols	1	125 ml Amber	H ₂ SO ₄	
TOC	2	40 ml Glass	H ₂ SO ₄	
TOX	1	250 ml Amber	H ₂ SO ₄	
Sulfate, Chlorides, SpC	1	500 ml Plastic	None	

Notes:

Start at 13:33
 Rate 300 mL/min
 End at 14:15

Standard Groundwater Sampling Log

Date 6/4/2024 | 6/5/2024
 Site Name RACER Coldwater Rd
 Location Flint, MI
 Project No. 1940107203
 Personnel ST

Weather Sunny, 80's °F
 Well # B-24R
 Evacuation Method Whale Pump-Peristaltic
 Sampling Method Purge Dry

Well Information:

Depth of Well * 99.77 ft.
 Depth to Water * 12.58 | 12.63 ft.
 Length of Water Column 87.19 ft.
 Volume of Water in Well 14.21 gal.(s)
 3X Volume of Water in Well 42.64 gal.(s)

Water Volume /ft. for:
 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 7 1/2 gal.(s)
 Did well go dry? yes

* Measurements taken from Well Casing Protective Casing (Other, Specify)

Instrument Calibration:

Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity mS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>15.3</u>	initial <u>26.97</u>	initial <u>1.88</u>	initial <u>3.96</u>	initial <u>7.56</u>	initial <u>75.0</u>	initial <u>92.7</u>
5 min	<u>20.15</u>	<u>11.78</u>	<u>2.41</u>	<u>0.27</u>	<u>7.11</u>	<u>64.6</u>	<u>28.4</u>
10 min	<u>20.75</u>	<u>11.66</u>	<u>2.54</u>	<u>0.51</u>	<u>7.11</u>	<u>41.9</u>	<u>60.1</u>
15 min	<u>24.40</u>	<u>11.40</u>	<u>2.58</u>	<u>0.69</u>	<u>7.10</u>	<u>37.4</u>	<u>107</u>
20 min	<u>26.90</u>	<u>11.43</u>	<u>2.41</u>	<u>0.29</u>	<u>7.10</u>	<u>29.6</u>	<u>120</u>
25 min	<u>28.18</u>	<u>12.72</u>	<u>2.41</u>	<u>0.61</u>	<u>7.11</u>	<u>30.5</u>	<u>190</u>
30 min	<u>Dry</u>						
35 min							
40 min							
45 min	<u>12.63</u>						
50 min	<u>12.89</u>	<u>26.41</u>	<u>2.40</u>	<u>6.18</u>	<u>7.51</u>	<u>71.7</u>	<u>170</u>
55 min	<u>13.17</u>	<u>20.70</u>	<u>2.67</u>	<u>7.55</u>	<u>7.45</u>	<u>67.3</u>	<u>66.6</u>
60 min	<u>13.35</u>	<u>18.36</u>	<u>2.75</u>	<u>7.93</u>	<u>7.35</u>	<u>42.0</u>	<u>49.7</u>
65 min							<u>37.5</u>
70 min						<u>After Filter</u>	<u>13.3</u>
75 min							
80 min							
85 min							
90 min							

Water Sample:

Time Collected 14:16

Physical Appearance at Start

Physical Appearance at Sampling

Color Clear Color Clear
 Odor None Odor None
 Turbidity (> 100 NTU) 92.7 Turbidity (> 100 NTU) 13.3
 Sheen/Free Product None Sheen/Free Product None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Dissolved Metals - Cu, Cr, Ni, Zn, Fe, Mn, Na	1	125 ml Plastic	HNO ₃	yes
Cyanide	1	125 ml Plastic	NAOH	
Phenols	1	125 ml Plastic	H ₂ SO ₄	
TOC	2	40 ml Glass	H ₂ SO ₄	
TOX	1	125 ml Plastic	H ₂ SO ₄	
Sulfate, Chlorides, SpC	1	500 ml Plastic	None	

Notes:

Standard Groundwater Sampling Log

Date 6/5/2024
 Site Name RACER Coldwater Rd Weather Partly Cloudy, 70s
 Location Flint, MI Well # B-27D
 Project No. 1940107203 Evacuation Method Bladder Pump
 Personnel ST Sampling Method Low Flow

Well Information:

Depth of Well * 89.93 ft.
 Depth to Water * 74.45 ft.
 Length of Water Column 15.48 ft.
 Volume of Water in Well 2.52 gal.(s)
 3X Volume of Water in Well 7.57 gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 7.5 gal.(s)
 Did well go dry? No
 * Measurements taken from Well Casing Protective Casing (Other, Specify)

Instrument Calibration:

Calibrated within range
 pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity mS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>75.04</u>	initial <u>15.52</u>	initial <u>0.48</u>	initial <u>0.22</u>	initial <u>7.52</u>	initial <u>-54.3</u>	initial <u>362</u>
5 min	<u>75.09</u>	<u>13.62</u>	<u>0.50</u>	<u>0.05</u>	<u>7.47</u>	<u>-106</u>	<u>305</u>
10 min	<u>75.10</u>	<u>13.56</u>	<u>0.50</u>	<u>0.04</u>	<u>7.45</u>	<u>-78.9</u>	<u>780</u>
15 min	<u>75.10</u>	<u>13.20</u>	<u>0.50</u>	<u>0.03</u>	<u>7.45</u>	<u>-114.5</u>	<u>900</u>
20 min	<u>75.18</u>	<u>13.13</u>	<u>0.50</u>	<u>0.02</u>	<u>7.45</u>	<u>-85.6</u>	<u>1000</u>
25 min	<u>75.20</u>	<u>13.11</u>	<u>0.50</u>	<u>0.01</u>	<u>7.45</u>	<u>-125.0</u>	<u>970</u>
30 min	<u>75.14</u>	<u>13.10</u>	<u>0.50</u>	<u>0.01</u>	<u>7.44</u>	<u>-128.1</u>	<u>749</u>
35 min	<u>75.10</u>	<u>13.44</u>	<u>0.51</u>	<u>0.01</u>	<u>7.44</u>	<u>-87.1</u>	<u>657</u>
40 min	<u>75.10</u>	<u>13.52</u>	<u>0.50</u>	<u>0.00</u>	<u>7.44</u>	<u>-124.2</u>	<u>433</u>
45 min	<u>75.10</u>	<u>13.20</u>	<u>0.50</u>	<u>0.01</u>	<u>7.44</u>	<u>-85.7</u>	<u>337</u>
50 min	<u>75.10</u>	<u>13.33</u>	<u>0.50</u>	<u>0.00</u>	<u>7.43</u>	<u>-85.0</u>	<u>271</u>
55 min	<u>75.14</u>	<u>13.11</u>	<u>0.50</u>	<u>-0.01</u>	<u>7.44</u>	<u>-82.0</u>	<u>220</u>
60 min	<u>75.12</u>	<u>13.25</u>	<u>0.50</u>	<u>-0.01</u>	<u>7.42</u>	<u>-120.9</u>	<u>195</u>
65 min	<u>75.14</u>	<u>13.27</u>	<u>0.50</u>	<u>-0.01</u>	<u>7.43</u>	<u>-83.7</u>	<u>159</u>
70 min	<u>75.14</u>	<u>13.42</u>	<u>0.50</u>	<u>-0.01</u>	<u>7.44</u>	<u>-119.6</u>	<u>139</u>
75 min	<u>75.14</u>	<u>13.75</u>	<u>0.50</u>	<u>-0.01</u>	<u>7.43</u>	<u>-120.6</u>	<u>120</u>
80 min	<u>75.12</u>	<u>13.56</u>	<u>0.50</u>	<u>-0.02</u>	<u>7.44</u>	<u>-81.5</u>	<u>102</u>
85 min	<u>75.12</u>	<u>13.47</u>	<u>0.50</u>	<u>-0.01</u>	<u>7.43</u>	<u>-82.1</u>	<u>91.8</u>
90 min	<u>75.12</u>	<u>13.93</u>	<u>0.50</u>	<u>-0.01</u>	<u>7.43</u>	<u>-81.5</u>	<u>93.1</u>
95 min	<u>75.12</u>	<u>13.57</u>	<u>0.50</u>	<u>-0.01</u>	<u>7.43</u>	<u>-80.0</u>	<u>78.5</u>
100 min	<u>75.12</u>	<u>13.61</u>	<u>0.50</u>	<u>-0.01</u>	<u>7.43</u>	<u>-79.4</u>	<u>69.5</u>
105 min	<u>75.12</u>	<u>13.71</u>	<u>0.50</u>	<u>0.00</u>	<u>7.43</u>	<u>-78.5</u>	<u>67.1</u>
110 min	<u>75.12</u>	<u>13.74</u>	<u>0.50</u>	<u>0.00</u>	<u>7.42</u>	<u>-77.1</u>	<u>58.7</u>
115 min	<u>75.12</u>	<u>13.66</u>	<u>0.50</u>	<u>0.01</u>	<u>7.43</u>	<u>-76.3</u>	<u>59.1</u>
120 min							

Water Sample:

Time Collected 12:30
 Physical Appearance at Start Physical Appearance at Sampling
 Color Cloudy Brown Color Clear
 Odor None Odor None
 Turbidity (> 100 NTU) 362 Turbidity (> 100 NTU) 59.1
 Sheen/Free Product None Sheen/Free Product None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Dissolved Metals - Cu, Cr, Ni, Zn, Fe, Mn, Na	1	125 ml Plastic	HNO ₃	yes
Cyanide	1	125 ml Plastic	NAOH	
Phenols	1	125 ml Amber	H ₂ SO ₄	
TOC	2	40 ml Glass	H ₂ SO ₄	
TOX	1	250 ml Amber	H ₂ SO ₄	
Sulfate, Chlorides, SpC	1	500 ml Plastic	None	
PFAS (7979)	3	15 ml plastic	None	No

Notes:

Rate at start 300 mL/min- Start 10:25
 Rate at 11:05- 300 mL/min
 Rate at 12:00- 300 mL/min
 Low DO readings on meter

Standard Groundwater Sampling Log

Date 6/4/2024
 Site Name RACER Coldwater Rd Weather Sunny, 80's °F
 Location Flint, MI Well # B-28
 Project No. 1940107203 Evacuation Method Whale Pump
 Personnel ST Sampling Method 3X Well Volumes

Well Information:

Depth of Well * 30.95 ft.
 Depth to Water * 4.62 ft.
 Length of Water Column 26.33 ft.
 Volume of Water in Well 4.29 gal.(s)
 3X Volume of Water in Well 12.88 gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 15 gal.(s)
 Did well go dry? No

* Measurements taken from Well Casing Protective Casing (Other, Specify) _____

Instrument Calibration:

Calibrated within range
 pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity mS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>8.30</u>	initial <u>15.65</u>	initial <u>1.71</u>	initial <u>0.22</u>	initial <u>7.17</u>	initial <u>67.4</u>	initial <u>134</u>
5 min	<u>13.80</u>	<u>12.11</u>	<u>1.85</u>	<u>0.09</u>	<u>7.12</u>	<u>32.4</u>	<u>40.0</u>
10 min	<u>18.40</u>	<u>12.19</u>	<u>1.86</u>	<u>0.14</u>	<u>7.12</u>	<u>17.0</u>	<u>30.4</u>
15 min	<u>20.0</u>	<u>12.26</u>	<u>1.86</u>	<u>0.30</u>	<u>7.13</u>	<u>8.7</u>	<u>22.2</u>
20 min	<u>21.7</u>	<u>12.22</u>	<u>1.86</u>	<u>0.43</u>	<u>7.14</u>	<u>4.1</u>	<u>16.7</u>
25 min	<u>22.3</u>	<u>12.13</u>	<u>1.87</u>	<u>0.41</u>	<u>7.15</u>	<u>1.8</u>	<u>11.8</u>
30 min	<u>23.3</u>	<u>12.12</u>	<u>1.87</u>	<u>0.46</u>	<u>7.15</u>	<u>0.0</u>	<u>12.1</u>
35 min	<u>24.0</u>	<u>11.82</u>	<u>1.88</u>	<u>0.09</u>	<u>7.14</u>	<u>0.0</u>	<u>14.5</u>
40 min	<u>25.6</u>	<u>12.23</u>	<u>1.86</u>	<u>0.25</u>	<u>7.16</u>	<u>-18.4</u>	<u>20.2</u>
45 min	<u>25.7</u>	<u>11.80</u>	<u>1.89</u>	<u>0.34</u>	<u>7.16</u>	<u>-4.7</u>	<u>15.6</u>
50 min							
55 min							
60 min							
65 min							
70 min							
75 min							
80 min							
85 min							
90 min							
95 min							

Water Sample:

Time Collected 15:20

Physical Appearance at Start

Physical Appearance at Sampling

Color Clear Color Clear
 Odor None Odor None
 Turbidity (> 100 NTU) 134 Turbidity (> 100 NTU) 15.6
 Sheen/Free Product None Sheen/Free Product None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Dissolved Metals - Cu, Cr, Ni, Zn, Fe, Mn, Na	1	125 ml Plastic	HNO ₃	yes
Cyanide	1	125 ml Plastic	NAOH	
Phenols	1	125 ml Plastic	H ₂ SO ₄	
TOC	2	40 ml Glass	H ₂ SO ₄	
TOX	1	125 ml Plastic	H ₂ SO ₄	
Sulfate, Chlorides, SpC	1	500 ml Plastic	None	

Notes:

Ignore first 2 readings in 7 sample taken at 15:20 aquatroll report.

**APPENDIX C
ANALYTICAL LABORATORY RESULTS**



Analytical Laboratory Report

Report ID: S62916.01(01)
Generated on 06/28/2024

Report to

Attention: Clifford Yantz
Ramboll Americas
2090 Commonwealth Blvd
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:
Email: Clifford.Yantz@ramboll.com

Additional Contacts: Kevin Schneider

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Lavery (johnlavery@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S62916.01-S62916.11
Project: RACER Coldwater Road
Collected Date(s): 06/04/2024 - 06/06/2024
Submitted Date/Time: 06/06/2024 17:00
Sampled by: Kevin Schneider
P.O. #: 1940008845 TASK 001

Table of Contents

- Cover Page (Page 1)
- General Report Notes (Page 2)
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- Laboratory Accreditations (Page 3)
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- Method Summary (Page 4)
- Sample Summary (Page 5)

Maya Murshak
Technical Director



Analytical Laboratory Report

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Starred (*) analytes are not NY NELAP accredited.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the

FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."

Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

All accreditations/certifications held by this laboratory are listed on page 3. Not all accreditations/certifications are applicable to this report.

For a specific list of accredited analytes, please feel free to contact the laboratory or visit <https://www.meritlabs.com/certifications>.

Report Narrative

There is no additional narrative for this analytical report



Analytical Laboratory Report

Laboratory Accreditations (For Reference Only)

Authority	Accreditation ID
Michigan DEQ	#9956
DOD ELAP & ISO/IEC 17025:2017	#69699 PJLA Testing
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
o	Associated EIS outside of control limits
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
q	Qualifier ion ratio outside of control limits
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched



Analytical Laboratory Report

Method Summary

Method	Version
E120.1	EPA Method 120.1 Revision 1982
E200.8	EPA Method 200.8 Revision 5.4
E300.0	EPA Method 300.0 Revision 2.1 (1993)
E335.4/SM4500-CN	EPA Method 335.4 Revision 1.0 / Standard Method 4500-CN E 20th Edition
E420.1	EPA Method 420.1 Editorial Revision 1978
N/A	Not Applicable
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW5030C/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5030C Revision 3 May 2003
SW9020B	SW 846 Method 9020B Revision 2 September 1994



Analytical Laboratory Report

Sample Summary (11 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S62916.01	B-28-06042024	Groundwater	06/04/24 15:20
S62916.02	B-27D-06052024	Groundwater	06/05/24 12:30
S62916.03	B-24R-06052024	Groundwater	06/05/24 14:16
S62916.04	B-23DR-06052024	Groundwater	06/05/24 14:30
S62916.05	B-9-06062024	Groundwater	06/06/24 10:18
S62916.06	B-22D-06062024	Groundwater	06/06/24 10:45
S62916.07	B-7-06062024	Groundwater	06/06/24 10:45
S62916.08	B-18A-06062024	Groundwater	06/06/24 11:25
S62916.09	B-21D-06062024	Groundwater	06/06/24 12:55
S62916.10	B-19AR-06062024	Groundwater	06/06/24 12:45
S62916.11	Trip Blank-06062024	Water	06/06/24 13:40



Analytical Laboratory Report

Lab Sample ID: S62916.01

Sample Tag: B-28-06042024

Collected Date/Time: 06/04/2024 15:20

Matrix: Groundwater

COC Reference: 171586

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40mL Glass	HCL	Yes	4.7	IR
2	40mL Glass	H2SO4	Yes	4.7	IR
1	125mL Amber	H2SO4	Yes	4.7	IR
1	250mL Amber	H2SO4	Yes	4.7	IR
1	125mL Plastic	NaOH	Yes	4.7	IR
2	125mL Plastic	HNO3	Yes	4.7	IR
1	250mL Plastic	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	06/11/24 10:45	BDO	
Metal Digestion	Completed	SW3015A	06/14/24 11:00	CCM	
Metal Digestion	Completed	SW3015A	06/14/24 14:45	CCM	

Inorganics

Method: , Run Date: 06/20/24 19:03, Analyst: EF

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOC*	Completed				1		O

Method: E120.1, Run Date: 06/11/24 12:40, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Conductivity	938	1		umhos/cm	1		

Method: E300.0, Run Date: 06/14/24 14:09, Analyst: ASB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloride	11.3	10.0		mg/L	10	16887-00-6	
Sulfate	169	10.0		mg/L	10	14808-79-8	

Method: E335.4/SM4500-CN, Run Date: 06/16/24 08:46, Analyst: MDG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide, Total	Not detected	0.004		mg/L	2	57-12-5	

Method: E420.1, Run Date: 06/07/24 16:12, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Phenols	Not detected	0.02		mg/L	1.7		

Metals

Method: E200.8, Run Date: 06/14/24 16:07, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Sodium	18.4	2.5		mg/L	50	7440-23-5	

Method: E200.8, Run Date: 06/14/24 12:51, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium, Dissolved	Not detected	0.005		mg/L	5	7440-47-3	
Copper, Dissolved	Not detected	0.005		mg/L	5	7440-50-8	

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S62916.01 (continued)

Sample Tag: B-28-06042024

Method: E200.8, Run Date: 06/14/24 12:51, Analyst: CCM (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Iron, Dissolved	0.93	0.02		mg/L	5	7439-89-6	
Manganese, Dissolved	0.085	0.005		mg/L	5	7439-96-5	
Nickel, Dissolved	Not detected	0.005		mg/L	5	7440-02-0	
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/10/24 17:09, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	



Analytical Laboratory Report

Lab Sample ID: S62916.01 (continued)

Sample Tag: B-28-06042024

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/10/24 17:09, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Organics

Method: SW9020B, Run Date: 06/27/24 00:35, Analyst: GEL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOX*	Completed	3,000		ug/L	1		O

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S62916.02

Sample Tag: B-27D-06052024

Collected Date/Time: 06/05/2024 12:30

Matrix: Groundwater

COC Reference: 171586

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40mL Glass	HCL	Yes	4.7	IR
2	40mL Glass	H2SO4	Yes	4.7	IR
1	125mL Amber	H2SO4	Yes	4.7	IR
1	250mL Amber	H2SO4	Yes	4.7	IR
1	125mL Plastic	NaOH	Yes	4.7	IR
2	125mL Plastic	HNO3	Yes	4.7	IR
1	250mL Plastic	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	06/11/24 11:45	BDO	
Metal Digestion	Completed	SW3015A	06/14/24 11:00	CCM	
Metal Digestion	Completed	SW3015A	06/14/24 14:45	CCM	

Inorganics

Method: , Run Date: 06/20/24 19:27, Analyst: EF

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOC*	Completed				1		O

Method: E120.1, Run Date: 06/11/24 12:44, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Conductivity	645	1		umhos/cm	1		

Method: E300.0, Run Date: 06/14/24 14:19, Analyst: ASB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloride	Not detected	10.0		mg/L	10	16887-00-6	
Sulfate	18.9	10.0		mg/L	10	14808-79-8	

Method: E335.4/SM4500-CN, Run Date: 06/18/24 13:29, Analyst: MDG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide, Total	Not detected	0.004		mg/L	2	57-12-5	

Method: E420.1, Run Date: 06/07/24 16:16, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Phenols	Not detected	0.02		mg/L	1.7		

Metals

Method: E200.8, Run Date: 06/14/24 16:08, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Sodium	40.5	2.5		mg/L	50	7440-23-5	

Method: E200.8, Run Date: 06/14/24 12:53, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium, Dissolved	Not detected	0.005		mg/L	5	7440-47-3	
Copper, Dissolved	Not detected	0.005		mg/L	5	7440-50-8	

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S62916.02 (continued)

Sample Tag: B-27D-06052024

Method: E200.8, Run Date: 06/14/24 12:53, Analyst: CCM (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Iron, Dissolved	0.91	0.02		mg/L	5	7439-89-6	
Manganese, Dissolved	0.018	0.005		mg/L	5	7439-96-5	
Nickel, Dissolved	Not detected	0.005		mg/L	5	7440-02-0	
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/10/24 15:00, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	



Analytical Laboratory Report

Lab Sample ID: S62916.02 (continued)

Sample Tag: B-27D-06052024

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/10/24 15:00, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Organics

Method: SW9020B, Run Date: 06/27/24 02:14, Analyst: GEL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOX*	Completed	3,000		ug/L	1		O

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S62916.03

Sample Tag: B-24R-06052024

Collected Date/Time: 06/05/2024 14:16

Matrix: Groundwater

COC Reference: 171586

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40mL Glass	HCL	Yes	4.7	IR
2	40mL Glass	H2SO4	Yes	4.7	IR
1	125mL Amber	H2SO4	Yes	4.7	IR
1	250mL Amber	H2SO4	Yes	4.7	IR
1	125mL Plastic	NaOH	Yes	4.7	IR
2	125mL Plastic	HNO3	Yes	4.7	IR
1	250mL Plastic	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	06/11/24 11:45	BDO	
Metal Digestion	Completed	SW3015A	06/14/24 11:00	CCM	
Metal Digestion	Completed	SW3015A	06/14/24 14:45	CCM	

Inorganics

Method: , Run Date: 06/20/24 20:39, Analyst: EF

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOC*	Completed				1		O

Method: E120.1, Run Date: 06/11/24 12:46, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Conductivity	1,316	1		umhos/cm	1		

Method: E300.0, Run Date: 06/14/24 15:50, Analyst: ASB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloride	48.5	10.0		mg/L	10	16887-00-6	

Method: E300.0, Run Date: 06/18/24 13:33, Analyst: ASB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Sulfate	294	25.0		mg/L	25	14808-79-8	

Method: E335.4/SM4500-CN, Run Date: 06/18/24 13:31, Analyst: MDG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide, Total	Not detected	0.004		mg/L	2	57-12-5	

Method: E420.1, Run Date: 06/07/24 16:18, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Phenols	Not detected	0.02		mg/L	1.7		

Metals

Method: E200.8, Run Date: 06/14/24 16:10, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Sodium	67.4	2.5		mg/L	50	7440-23-5	

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S62916.03 (continued)

Sample Tag: B-24R-06052024

Method: E200.8, Run Date: 06/14/24 12:55, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium, Dissolved	Not detected	0.005		mg/L	5	7440-47-3	
Copper, Dissolved	Not detected	0.005		mg/L	5	7440-50-8	
Iron, Dissolved	Not detected	0.02		mg/L	5	7439-89-6	
Manganese, Dissolved	0.058	0.005		mg/L	5	7439-96-5	
Nickel, Dissolved	Not detected	0.005		mg/L	5	7440-02-0	
Zinc, Dissolved	0.007	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/10/24 15:23, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	



Analytical Laboratory Report

Lab Sample ID: S62916.03 (continued)

Sample Tag: B-24R-06052024

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/10/24 15:23, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Organics

Method: SW9020B, Run Date: 06/27/24 03:10, Analyst: GEL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOX*	Completed	3,000		ug/L	1		O

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S62916.04

Sample Tag: B-23DR-06052024

Collected Date/Time: 06/05/2024 14:30

Matrix: Groundwater

COC Reference: 171586

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40mL Glass	HCL	Yes	4.7	IR
2	40mL Glass	H2SO4	Yes	4.7	IR
1	125mL Amber	H2SO4	Yes	4.7	IR
1	250mL Amber	H2SO4	Yes	4.7	IR
1	125mL Plastic	NaOH	Yes	4.7	IR
2	125mL Plastic	HNO3	Yes	4.7	IR
1	250mL Plastic	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	06/11/24 11:45	BDO	
Metal Digestion	Completed	SW3015A	06/14/24 11:00	CCM	
Metal Digestion	Completed	SW3015A	06/14/24 14:45	CCM	

Inorganics

Method: , Run Date: 06/20/24 21:03, Analyst: EF

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOC*	Completed				1		O

Method: E120.1, Run Date: 06/11/24 12:48, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Conductivity	802	1		umhos/cm	1		

Method: E300.0, Run Date: 06/13/24 22:18, Analyst: ASB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloride	33.4	10.0		mg/L	10	16887-00-6	
Sulfate	62.2	10.0		mg/L	10	14808-79-8	

Method: E335.4/SM4500-CN, Run Date: 06/18/24 13:40, Analyst: MDG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide, Total	Not detected	0.004		mg/L	2	57-12-5	

Method: E420.1, Run Date: 06/07/24 16:20, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Phenols	Not detected	0.02		mg/L	1.7		

Metals

Method: E200.8, Run Date: 06/14/24 16:11, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Sodium	26.2	2.5		mg/L	50	7440-23-5	

Method: E200.8, Run Date: 06/14/24 12:57, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium, Dissolved	Not detected	0.005		mg/L	5	7440-47-3	
Copper, Dissolved	Not detected	0.005		mg/L	5	7440-50-8	

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S62916.04 (continued)

Sample Tag: B-23DR-06052024

Method: E200.8, Run Date: 06/14/24 12:57, Analyst: CCM (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Iron, Dissolved	1.79	0.02		mg/L	5	7439-89-6	
Manganese, Dissolved	0.045	0.005		mg/L	5	7439-96-5	
Nickel, Dissolved	Not detected	0.005		mg/L	5	7440-02-0	
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/10/24 15:47, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	



Analytical Laboratory Report

Lab Sample ID: S62916.04 (continued)

Sample Tag: B-23DR-06052024

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/10/24 15:47, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Organics

Method: SW9020B, Run Date: 06/27/24 01:35, Analyst: GEL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOX*	Completed	3,000		ug/L	1		O

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S62916.05

Sample Tag: B-9-06062024

Collected Date/Time: 06/06/2024 10:18

Matrix: Groundwater

COC Reference: 171586

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40mL Glass	HCL	Yes	4.7	IR
2	40mL Glass	H2SO4	Yes	4.7	IR
1	125mL Amber	H2SO4	Yes	4.7	IR
1	250mL Amber	H2SO4	Yes	4.7	IR
1	125mL Plastic	NaOH	Yes	4.7	IR
2	125mL Plastic	HNO3	Yes	4.7	IR
1	250mL Plastic	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	06/11/24 10:45	BDO	
Metal Digestion	Completed	SW3015A	06/14/24 11:00	CCM	
Metal Digestion	Completed	SW3015A	06/14/24 14:45	CCM	

Inorganics

Method: , Run Date: 06/20/24 21:26, Analyst: EF

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOC*	Completed				1		O

Method: E120.1, Run Date: 06/11/24 12:50, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Conductivity	2,025	1		umhos/cm	1		

Method: E300.0, Run Date: 06/13/24 22:28, Analyst: ASB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloride	54.6	10.0		mg/L	10	16887-00-6	

Method: E300.0, Run Date: 06/14/24 17:00, Analyst: ASB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Sulfate	709	50.0		mg/L	50	14808-79-8	

Method: E335.4/SM4500-CN, Run Date: 06/20/24 22:04, Analyst: MDG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide, Total	Not detected	0.004		mg/L	2	57-12-5	

Method: E420.1, Run Date: 06/07/24 16:22, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Phenols	Not detected	0.02		mg/L	1.7		

Metals

Method: E200.8, Run Date: 06/14/24 16:13, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Sodium	55.3	2.5		mg/L	50	7440-23-5	

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S62916.05 (continued)

Sample Tag: B-9-06062024

Method: E200.8, Run Date: 06/14/24 12:59, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium, Dissolved	Not detected	0.005		mg/L	5	7440-47-3	
Copper, Dissolved	Not detected	0.005		mg/L	5	7440-50-8	
Iron, Dissolved	Not detected	0.02		mg/L	5	7439-89-6	
Manganese, Dissolved	0.056	0.005		mg/L	5	7439-96-5	
Nickel, Dissolved	Not detected	0.005		mg/L	5	7440-02-0	
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/10/24 20:42, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	



Analytical Laboratory Report

Lab Sample ID: S62916.05 (continued)

Sample Tag: B-9-06062024

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/10/24 20:42, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Organics

Method: SW9020B, Run Date: 06/19/24 00:08, Analyst: GEL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOX*	Completed	3,000		ug/L	1		O

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S62916.06

Sample Tag: B-22D-06062024

Collected Date/Time: 06/06/2024 10:45

Matrix: Groundwater

COC Reference: 171586

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40mL Glass	HCL	Yes	4.7	IR
2	40mL Glass	H2SO4	Yes	4.7	IR
1	125mL Amber	H2SO4	Yes	4.7	IR
1	250mL Amber	H2SO4	Yes	4.7	IR
1	125mL Plastic	NaOH	Yes	4.7	IR
2	125mL Plastic	HNO3	Yes	4.7	IR
1	250mL Plastic	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	06/11/24 10:45	BDO	
Metal Digestion	Completed	SW3015A	06/14/24 11:00	CCM	
Metal Digestion	Completed	SW3015A	06/14/24 14:45	CCM	

Inorganics

Method: , Run Date: 06/20/24 21:50, Analyst: EF

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOC*	Completed				1		O

Method: E120.1, Run Date: 06/11/24 12:52, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Conductivity	718	1		umhos/cm	1		

Method: E300.0, Run Date: 06/13/24 22:38, Analyst: ASB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloride	Not detected	10.0		mg/L	10	16887-00-6	
Sulfate	59.9	10.0		mg/L	10	14808-79-8	

Method: E335.4/SM4500-CN, Run Date: 06/20/24 22:06, Analyst: MDG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide, Total	Not detected	0.004		mg/L	2	57-12-5	

Method: E420.1, Run Date: 06/07/24 16:24, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Phenols	Not detected	0.02		mg/L	1.7		

Metals

Method: E200.8, Run Date: 06/14/24 16:14, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Sodium	27.0	2.5		mg/L	50	7440-23-5	

Method: E200.8, Run Date: 06/14/24 13:01, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium, Dissolved	Not detected	0.005		mg/L	5	7440-47-3	
Copper, Dissolved	Not detected	0.005		mg/L	5	7440-50-8	

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S62916.06 (continued)

Sample Tag: B-22D-06062024

Method: E200.8, Run Date: 06/14/24 13:01, Analyst: CCM (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Iron, Dissolved	1.36	0.02		mg/L	5	7439-89-6	
Manganese, Dissolved	0.026	0.005		mg/L	5	7439-96-5	
Nickel, Dissolved	Not detected	0.005		mg/L	5	7440-02-0	
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/10/24 21:05, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	



Analytical Laboratory Report

Lab Sample ID: S62916.06 (continued)

Sample Tag: B-22D-06062024

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/10/24 21:05, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Organics

Method: SW9020B, Run Date: 06/19/24 01:58, Analyst: GEL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOX*	Completed	3,000		ug/L	1		O

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S62916.07

Sample Tag: B-7-06062024

Collected Date/Time: 06/06/2024 11:25

Matrix: Groundwater

COC Reference: 171586

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40mL Glass	HCL	Yes	4.7	IR
2	40mL Glass	H2SO4	Yes	4.7	IR
1	125mL Amber	H2SO4	Yes	4.7	IR
1	250mL Amber	H2SO4	Yes	4.7	IR
1	125mL Plastic	NaOH	Yes	4.7	IR
2	125mL Plastic	HNO3	Yes	4.7	IR
1	250mL Plastic	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	06/11/24 10:45	BDO	
Metal Digestion	Completed	SW3015A	06/14/24 11:00	CCM	
Metal Digestion	Completed	SW3015A	06/14/24 14:45	CCM	

Inorganics

Method: , Run Date: 06/20/24 22:14, Analyst: EF

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOC*	Completed				1		O

Method: E120.1, Run Date: 06/11/24 12:54, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Conductivity	1,015	1		umhos/cm	1		

Method: E300.0, Run Date: 06/14/24 14:29, Analyst: ASB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloride	27.2	10.0		mg/L	10	16887-00-6	
Sulfate	159	10.0		mg/L	10	14808-79-8	

Method: E335.4/SM4500-CN, Run Date: 06/20/24 22:08, Analyst: MDG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide, Total	Not detected	0.004		mg/L	2	57-12-5	

Method: E420.1, Run Date: 06/07/24 16:26, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Phenols	Not detected	0.02		mg/L	1.7		

Metals

Method: E200.8, Run Date: 06/14/24 16:16, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Sodium	41.7	2.5		mg/L	50	7440-23-5	

Method: E200.8, Run Date: 06/14/24 13:09, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium, Dissolved	Not detected	0.005		mg/L	5	7440-47-3	
Copper, Dissolved	Not detected	0.005		mg/L	5	7440-50-8	

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S62916.07 (continued)

Sample Tag: B-7-06062024

Method: E200.8, Run Date: 06/14/24 13:09, Analyst: CCM (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Iron, Dissolved	0.02	0.02		mg/L	5	7439-89-6	
Manganese, Dissolved	Not detected	0.005		mg/L	5	7439-96-5	
Nickel, Dissolved	Not detected	0.005		mg/L	5	7440-02-0	
Zinc, Dissolved	0.007	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/10/24 21:29, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	



Analytical Laboratory Report

Lab Sample ID: S62916.07 (continued)

Sample Tag: B-7-06062024

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/10/24 21:29, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Organics

Method: SW9020B, Run Date: 06/19/24 03:03, Analyst: GEL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOX*	Completed	3,000		ug/L	1		O

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S62916.08

Sample Tag: B-18A-06062024

Collected Date/Time: 06/06/2024 12:55

Matrix: Groundwater

COC Reference: 171586

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40mL Glass	HCL	Yes	4.7	IR
2	40mL Glass	H2SO4	Yes	4.7	IR
1	125mL Amber	H2SO4	Yes	4.7	IR
1	250mL Amber	H2SO4	Yes	4.7	IR
1	125mL Plastic	NaOH	Yes	4.7	IR
2	125mL Plastic	HNO3	Yes	4.7	IR
1	250mL Plastic	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	06/11/24 10:45	BDO	
Metal Digestion	Completed	SW3015A	06/14/24 11:00	CCM	
Metal Digestion	Completed	SW3015A	06/14/24 14:45	CCM	

Inorganics

Method: , Run Date: 06/21/24 01:25, Analyst: EF

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOC*	Completed				1		O

Method: E120.1, Run Date: 06/11/24 12:56, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Conductivity	1,028	1		umhos/cm	1		

Method: E300.0, Run Date: 06/14/24 16:00, Analyst: ASB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloride	28.6	10.0		mg/L	10	16887-00-6	
Sulfate	106	10.0		mg/L	10	14808-79-8	

Method: E335.4/SM4500-CN, Run Date: 06/20/24 22:10, Analyst: MDG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide, Total	Not detected	0.004		mg/L	2	57-12-5	

Method: E420.1, Run Date: 06/07/24 16:28, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Phenols	Not detected	0.02		mg/L	1.7		

Metals

Method: E200.8, Run Date: 06/14/24 16:17, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Sodium	33.5	2.5		mg/L	50	7440-23-5	

Method: E200.8, Run Date: 06/14/24 13:11, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium, Dissolved	Not detected	0.005		mg/L	5	7440-47-3	
Copper, Dissolved	Not detected	0.005		mg/L	5	7440-50-8	

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S62916.08 (continued)

Sample Tag: B-18A-06062024

Method: E200.8, Run Date: 06/14/24 13:11, Analyst: CCM (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Iron, Dissolved	0.06	0.02		mg/L	5	7439-89-6	
Manganese, Dissolved	0.060	0.005		mg/L	5	7439-96-5	
Nickel, Dissolved	Not detected	0.005		mg/L	5	7440-02-0	
Zinc, Dissolved	0.010	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/10/24 21:52, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	



Analytical Laboratory Report

Lab Sample ID: S62916.08 (continued)

Sample Tag: B-18A-06062024

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/10/24 21:52, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Organics

Method: SW9020B, Run Date: 06/19/24 03:41, Analyst: GEL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOX*	Completed	3,000		ug/L	1		O

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S62916.09

Sample Tag: B-21D-06062024

Collected Date/Time: 06/06/2024 12:45

Matrix: Groundwater

COC Reference: 171586

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40mL Glass	HCL	Yes	4.7	IR
2	40mL Glass	H2SO4	Yes	4.7	IR
1	125mL Amber	H2SO4	Yes	4.7	IR
1	250mL Amber	H2SO4	Yes	4.7	IR
1	125mL Plastic	NaOH	Yes	4.7	IR
2	125mL Plastic	HNO3	Yes	4.7	IR
1	250mL Plastic	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	06/11/24 10:45	BDO	
Metal Digestion	Completed	SW3015A	06/14/24 11:00	CCM	
Metal Digestion	Completed	SW3015A	06/14/24 14:45	CCM	

Inorganics

Method: , Run Date: 06/21/24 00:14, Analyst: EF

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOC*	Completed				1		O

Method: E120.1, Run Date: 06/11/24 12:58, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Conductivity	757	1		umhos/cm	1		

Method: E300.0, Run Date: 06/14/24 16:10, Analyst: ASB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloride	Not detected	10.0		mg/L	10	16887-00-6	
Sulfate	76.3	10.0		mg/L	10	14808-79-8	

Method: E335.4/SM4500-CN, Run Date: 06/20/24 22:12, Analyst: MDG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide, Total	Not detected	0.004		mg/L	2	57-12-5	

Method: E420.1, Run Date: 06/07/24 16:30, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Phenols	Not detected	0.02		mg/L	1.7		

Metals

Method: E200.8, Run Date: 06/14/24 16:19, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Sodium	25.7	2.5		mg/L	50	7440-23-5	

Method: E200.8, Run Date: 06/14/24 13:13, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium, Dissolved	Not detected	0.005		mg/L	5	7440-47-3	
Copper, Dissolved	Not detected	0.005		mg/L	5	7440-50-8	

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S62916.09 (continued)

Sample Tag: B-21D-06062024

Method: E200.8, Run Date: 06/14/24 13:13, Analyst: CCM (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Iron, Dissolved	1.31	0.02		mg/L	5	7439-89-6	
Manganese, Dissolved	0.032	0.005		mg/L	5	7439-96-5	
Nickel, Dissolved	Not detected	0.005		mg/L	5	7440-02-0	
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/10/24 22:16, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	



Analytical Laboratory Report

Lab Sample ID: S62916.09 (continued)

Sample Tag: B-21D-06062024

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/10/24 22:16, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Organics

Method: SW9020B, Run Date: 06/19/24 04:41, Analyst: GEL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOX*	Completed	3,000		ug/L	1		O

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S62916.10

Sample Tag: B-19AR-06062024

Collected Date/Time: 06/06/2024 13:40

Matrix: Groundwater

COC Reference: 171586

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40mL Glass	HCL	Yes	4.7	IR
2	40mL Glass	H2SO4	Yes	4.7	IR
1	125mL Amber	H2SO4	Yes	4.7	IR
1	250mL Amber	H2SO4	Yes	4.7	IR
1	125mL Plastic	NaOH	Yes	4.7	IR
2	125mL Plastic	HNO3	Yes	4.7	IR
1	250mL Plastic	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	06/11/24 11:45	BDO	
Metal Digestion	Completed	SW3015A	06/14/24 11:00	CCM	
Metal Digestion	Completed	SW3015A	06/14/24 14:45	CCM	

Inorganics

Method: , Run Date: 06/21/24 01:49, Analyst: EF

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOC*	Completed				1		O

Method: E120.1, Run Date: 06/11/24 13:00, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Conductivity	1,166	1		umhos/cm	1		

Method: E300.0, Run Date: 06/14/24 15:30, Analyst: ASB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloride	98.8	10.0		mg/L	10	16887-00-6	
Sulfate	140	10.0		mg/L	10	14808-79-8	

Method: E335.4/SM4500-CN, Run Date: 06/20/24 22:21, Analyst: MDG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide, Total	Not detected	0.004		mg/L	2	57-12-5	

Method: E420.1, Run Date: 06/07/24 16:32, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Phenols	Not detected	0.02		mg/L	1.7		

Metals

Method: E200.8, Run Date: 06/14/24 16:20, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Sodium	20.9	2.5		mg/L	50	7440-23-5	

Method: E200.8, Run Date: 06/14/24 13:14, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium, Dissolved	0.007	0.005		mg/L	5	7440-47-3	
Copper, Dissolved	0.009	0.005		mg/L	5	7440-50-8	

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S62916.10 (continued)

Sample Tag: B-19AR-06062024

Method: E200.8, Run Date: 06/14/24 13:14, Analyst: CCM (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Iron, Dissolved	0.15	0.02		mg/L	5	7439-89-6	
Manganese, Dissolved	0.044	0.005		mg/L	5	7439-96-5	
Nickel, Dissolved	Not detected	0.005		mg/L	5	7440-02-0	
Zinc, Dissolved	0.010	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/11/24 02:59, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	



Analytical Laboratory Report

Lab Sample ID: S62916.10 (continued)

Sample Tag: B-19AR-06062024

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/11/24 02:59, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Organics

Method: SW9020B, Run Date: 06/26/24 23:34, Analyst: GEL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOX*	Completed	3,000		ug/L	1		O

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S62916.11

Sample Tag: Trip Blank-06062024

Collected Date/Time: 06/06/2024 00:01

Matrix: Water

COC Reference: 171586

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40mL Glass	HCL	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	06/11/24 11:45	BDO	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/11/24 02:11, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	



Analytical Laboratory Report

Lab Sample ID: S62916.11 (continued)

Sample Tag: Trip Blank-06062024

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/11/24 02:11, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Merit Laboratories Login Checklist

Lab Set ID:S62916

Attention: Clifford Yantz
Address: Ramboll Americas
2090 Commonwealth Blvd
Ann Arbor, MI 48105

Client:RAMBOLL (Ramboll Americas)

Project: RACER Coldwater Road

Submitted:06/06/2024 17:00 Login User: MMC

Phone: 313-333-0211 FAX:
Email: Clifford.Yantz@ramboll.com

Selection	Description	Note
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Sample Receiving

- | | | |
|-----|--|--|
| 01. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Samples are received at 4C +/- 2C Thermometer # IR 4.7 |
| 02. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Received on ice/ cooling process begun |
| 03. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples shipped |
| 04. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples left in 24 hr. drop box |
| 05. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Are there custody seals/tape or is the drop box locked |

Chain of Custody

- | | | |
|-----|--|---|
| 06. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | COC adequately filled out |
| 07. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | COC signed and relinquished to the lab |
| 08. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Sample tag on bottles match COC |
| 09. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Subcontracting needed? Subcontracted to: Eurofins and GEL |

Preservation

- | | | |
|-----|--|---|
| 10. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Do sample have correct chemical preservation |
| 11. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Completed pH checks on preserved samples? (no VOAs) |
| 12. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Did any samples need to be preserved in the lab? |

Bottle Conditions

- | | | |
|-----|--|---|
| 13. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | All bottles intact |
| 14. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Appropriate analytical bottles are used |
| 15. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Merit bottles used |
| 16. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Sufficient sample volume received |
| 17. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples require laboratory filtration |
| 18. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Samples submitted within holding time |
| 19. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Do water VOC or TOX bottles contain headspace |

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories Bottle Preservation Check

Lab Set ID: S62916 Submitted: 06/06/2024 17:00

Attention: Clifford Yantz
 Address: Ramboll Americas
 2090 Commonwealth Blvd
 Ann Arbor, MI 48105

Client: RAMBOLL (Ramboll Americas)

Project: RACER Coldwater Road

Initial Preservation Check: 06/07/2024 10:03 MMC

Phone: 313-333-0211 FAX:
 Email: Clifford.Yantz@ramboll.com

Preservation Recheck (E200.8): 06/10/2024 09:51 MMC

Sample ID	Bottle / Preservation	pH (Orig)	Add ml	pH (New)	Notes
S62916.01	125mL Amber H2SO4	<2			
S62916.01	125mL Plastic HNO3	<2			
S62916.01	125mL Plastic HNO3	<2			
S62916.01	125mL Plastic NaOH	>12			
S62916.01	250mL Amber H2SO4	<2			
S62916.02	125mL Amber H2SO4	<2			
S62916.02	125mL Plastic HNO3	<2			
S62916.02	125mL Plastic HNO3	<2			
S62916.02	125mL Plastic NaOH	>12			
S62916.02	250mL Amber H2SO4	<2			
S62916.03	125mL Amber H2SO4	<2			
S62916.03	125mL Plastic HNO3	<2			
S62916.03	125mL Plastic HNO3	<2			
S62916.03	125mL Plastic NaOH	>12			
S62916.03	250mL Amber H2SO4	<2			
S62916.04	125mL Amber H2SO4	<2			
S62916.04	125mL Plastic HNO3	<2			
S62916.04	125mL Plastic HNO3	<2			
S62916.04	125mL Plastic NaOH	>12			
S62916.04	250mL Amber H2SO4	<2			
S62916.05	125mL Amber H2SO4	<2			
S62916.05	125mL Plastic HNO3	<2			
S62916.05	125mL Plastic HNO3	<2			
S62916.05	125mL Plastic NaOH	>12			
S62916.05	250mL Amber H2SO4	<2			
S62916.06	125mL Amber H2SO4	<2			
S62916.06	125mL Plastic HNO3	<2			
S62916.06	125mL Plastic HNO3	<2			
S62916.06	125mL Plastic NaOH	>12			

Merit Laboratories Bottle Preservation Check

Lab Set ID: S62916 Submitted: 06/06/2024 17:00

Attention: Clifford Yantz
 Address: Ramboll Americas
 2090 Commonwealth Blvd
 Ann Arbor, MI 48105

Client: RAMBOLL (Ramboll Americas)

Project: RACER Coldwater Road

Initial Preservation Check: 06/07/2024 10:03 MMC

Phone: 313-333-0211 FAX:
 Email: Clifford.Yantz@ramboll.com

Preservation Recheck (E200.8): 06/10/2024 09:51 MMC

Sample ID	Bottle / Preservation	pH (Orig)	Add ml	pH (New)	Notes
S62916.06	250mL Amber H2SO4	<2			
S62916.07	125mL Amber H2SO4	<2			
S62916.07	125mL Plastic HNO3	<2			
S62916.07	125mL Plastic HNO3	<2			
S62916.07	125mL Plastic NaOH	>12			
S62916.07	250mL Amber H2SO4	<2			
S62916.08	125mL Amber H2SO4	<2			
S62916.08	125mL Plastic HNO3	<2			
S62916.08	125mL Plastic HNO3	5	0.5	<2	Lot# 2023071975
S62916.08	125mL Plastic NaOH	>12			
S62916.08	250mL Amber H2SO4	<2			
S62916.09	125mL Amber H2SO4	<2			
S62916.09	125mL Plastic HNO3	<2			
S62916.09	125mL Plastic HNO3	<2			
S62916.09	125mL Plastic NaOH	>12			
S62916.09	250mL Amber H2SO4	<2			
S62916.10	125mL Amber H2SO4	<2			
S62916.10	125mL Plastic HNO3	<2			
S62916.10	125mL Plastic HNO3	<2			
S62916.10	125mL Plastic NaOH	>12			
S62916.10	250mL Amber H2SO4	<2			



2680 East Lansing Dr., East Lansing, MI 48823
 Phone (517) 332-0167 Fax (517) 332-4034
 www.meritlabs.com

C.O.C. PAGE # 1 OF 1

171586

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Clifford Yantz / Kevin Schneider
 COMPANY: Ramboll
 ADDRESS: 2090 Commonwealth Blvd
 CITY: Ann Arbor STATE: MI ZIP CODE: 48105
 PHONE NO.: _____ CELL NO.: 313-733-0216 P.O. NO.: 1940008845 TAG# 001
 E-MAIL ADDRESS: Kevin.Schneider@Ramboll.com QUOTE NO. _____
Clifford.Yantz@Ramboll.com

CONTACT NAME: _____
 COMPANY: _____
 ADDRESS: _____
 CITY: _____ STATE: _____ ZIP CODE: _____
 PHONE NO.: _____ E-MAIL ADDRESS: _____

PROJECT NO./NAME: RACER Coldwater Road SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kevin Schneider
 TURNAROUND TIME REQUIRED: 1 DAY 2 DAYS 3 DAYS STANDARD OTHER _____
 DELIVERABLES REQUIRED: STD LEVEL II LEVEL III LEVEL IV EDD OTHER _____

MATRIX W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 CODE: SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

Containers & Preservatives

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	COLLECTION		SAMPLE TAG, IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	VOCs	TOC	TOX	phenols	Cyanide	Sulfate	Chlorides	Total Sodium	Dissolved Metals	Specific Conductivity	Certifications		Project Locations		Special Instructions	
	DATE	TIME																					<input type="checkbox"/> OHIO VAP	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> DoD	<input type="checkbox"/> NPDES		<input type="checkbox"/> Detroit
62916.01	6/4/24	1520	B-28-06042024	GW	11	1	3	2	4	1			X	X	X	X	X	X	X	X	X	X						Dissolved metals
.02	6/5/24	1230	B-27D-06052024	GW	11	1	3	2	4	1			X	X	X	X	X	X	X	X	X	X						were field filtered
.03	6/5/24	1416	B-24R-06052024	GW	11	1	3	2	4	1			X	X	X	X	X	X	X	X	X	X						
.04	6/5/24	1430	B-23DR-06052024	GW	11	1	3	2	4	1			X	X	X	X	X	X	X	X	X	X						Metals Are:
.05	6/6/24	1018	B-9-06062024	GW	11	1	3	2	4	1			X	X	X	X	X	X	X	X	X	X						Cr, Cu, Ni, Zn, Fe, Mn
.06	6/6/24	1045	B-22D-06062024	GW	11	1	3	2	4	1			X	X	X	X	X	X	X	X	X	X						
.07	6/6/24	1125	B-7-06062024	GW	11	1	3	2	4	1			X	X	X	X	X	X	X	X	X	X						
.08	6/6/24	1255	B-18A-06062024	GW	11	1	3	2	4	1			X	X	X	X	X	X	X	X	X	X						
.09	6/6/24	1245	B-21D-06062024	GW	11	1	3	2	4	1			X	X	X	X	X	X	X	X	X	X						
.10	6/6/24	1340	B-19AR-06062024	GW	11	1	3	2	4	1			X	X	X	X	X	X	X	X	X	X						
.11	6/6/24	-	Trip Blank-06062024	QC	1	1							X															

RELINQUISHED BY: [Signature] Sampler DATE: 6/6/24 TIME: 14:14
 RECEIVED BY: [Signature] DATE: 6/6/24 TIME: 14:00
 RELINQUISHED BY: [Signature] DATE: 6/6/24 TIME: 17:00
 RECEIVED BY: [Signature] DATE: 6/6/24 TIME: 17:00

RELINQUISHED BY: _____ DATE: _____ TIME: _____
 RECEIVED BY: _____ DATE: _____ TIME: _____
 SEAL NO. SEAL INTACT YES NO INITIALS _____ NOTES: TEMP. ON ARRIVAL: 4.7
 SEAL NO. SEAL INTACT YES NO INITIALS _____

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



Quality Control Report

Report ID: QC-S62916-01
Generated on 06/28/2024

Report to
Attention: Clifford Yantz
Ramboll Americas
2090 Commonwealth Blvd
Ann Arbor, MI 48105

Report Produced by
Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: 313-333-0211 FAX:

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S62916.01-S62916.11
Project: RACER Coldwater Road
Submitted Date/Time: 06/06/2024 17:00
Sampled by: Kevin Schneider
P.O. #: 1940008845 TASK 001

QC Report Sections

- Cover Page (Page 1)
- Analysis Summary (Pages 2-12)
- Prep Batch Summary (Pages 13-16)
- Surrogates per Lab Sample (Pages 17-27)
- Surrogates per QC Sample (Pages 28-30)
- Batch QC Results (Pages 31-58)

Report Flag Descriptions

- *: QC result is outside of indicated control limits
- W: Surrogate result not applicable due to sample dilution

I certify that this data package is in compliance with the terms and conditions of the program, and project, and contractual requirements both technically and for completeness. Release of the data contained in this hardcopy data package and its computer-readable data submitted has been authorized by the Quality Assurance Manager and his/her designee, as verified by the following signature.

Barbara Ball
Quality Assurance Manager

QC Report - Analysis Summary

Lab Sample ID: S62916.01

Sample Tag: B-28-06042024

Collected Date/Time: 06/04/2024 15:20

Matrix: Groundwater

COC Reference: 171586

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<i>Inorganics</i>						
Chloride	E300.0	06/14/24 14:09	CL240614-W1-B	CL240614-W1-B	No	BLK/LCS/MS/MSD/DU
Conductivity	E120.1	06/11/24 12:40	COND240611-W1	COND240611-W1	No	BLK/LCS/DUP
Cyanide, Total	E335.4/SM4500-CN	06/16/24 08:46	CN240616-W1	CN240616-W1	No	BLK/LCS/MS/DUP
Phenols	E420.1	06/07/24 16:12	PHL240607-W1	PHL240607-W1	No	BLK/LCS/MS/DUP
Sulfate	E300.0	06/14/24 14:09	SFT240614-W1-B	SFT240614-W1-B	No	BLK/LCS/MS/MSD/DU
<i>Metals</i>						
Chromium, Dissolved	E200.8	06/14/24 12:51	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	06/14/24 12:51	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Iron, Dissolved	E200.8	06/14/24 12:51	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Manganese, Dissolved	E200.8	06/14/24 12:51	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Nickel, Dissolved	E200.8	06/14/24 12:51	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Sodium	E200.8	06/14/24 16:07	MT4-24-0614C	MTD-061424-6	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	06/14/24 12:51	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
<i>Organics - Volatiles</i>						
Volatile Organics - DEQ List	SW5030C/8260C	06/10/24 17:09	240610A7	VF240610W2	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S62916.02

Sample Tag: B-27D-06052024

Collected Date/Time: 06/05/2024 12:30

Matrix: Groundwater

COC Reference: 171586

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<i>Inorganics</i>						
Chloride	E300.0	06/14/24 14:19	CL240614-W1-B	CL240614-W1-B	No	BLK/LCS/MS/MSD/DU
Conductivity	E120.1	06/11/24 12:44	COND240611-W1	COND240611-W1	No	BLK/LCS/DUP
Cyanide, Total	E335.4/SM4500-CN	06/18/24 13:29	CN240618-W1	CN240618-W1	No	BLK/LCS/MS/DUP
Phenols	E420.1	06/07/24 16:16	PHL240607-W1	PHL240607-W1	No	BLK/LCS/MS/DUP
Sulfate	E300.0	06/14/24 14:19	SFT240614-W1-B	SFT240614-W1-B	No	BLK/LCS/MS/MSD/DU
<i>Metals</i>						
Chromium, Dissolved	E200.8	06/14/24 12:53	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	06/14/24 12:53	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Iron, Dissolved	E200.8	06/14/24 12:53	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Manganese, Dissolved	E200.8	06/14/24 12:53	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Nickel, Dissolved	E200.8	06/14/24 12:53	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Sodium	E200.8	06/14/24 16:08	MT4-24-0614C	MTD-061424-6	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	06/14/24 12:53	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
<i>Organics - Volatiles</i>						
Volatile Organics - DEQ List	SW5030C/8260C	06/10/24 15:00	240610A9	VF240610W1	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S62916.03

Sample Tag: B-24R-06052024

Collected Date/Time: 06/05/2024 14:16

Matrix: Groundwater

COC Reference: 171586

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<i>Inorganics</i>						
Chloride	E300.0	06/14/24 15:50	CL240614-W1-B	CL240614-W1-B	No	BLK/LCS/MS/MSD/DU
Conductivity	E120.1	06/11/24 12:46	COND240611-W1	COND240611-W1	No	BLK/LCS/DUP
Cyanide, Total	E335.4/SM4500-CN	06/18/24 13:31	CN240618-W1	CN240618-W1	No	BLK/LCS/MS/DUP
Phenols	E420.1	06/07/24 16:18	PHL240607-W1	PHL240607-W1	No	BLK/LCS/MS/DUP
Sulfate	E300.0	06/18/24 13:33	SFT240618-W1-B	SFT240618-W1-B	No	BLK/LCS/MS/MSD/DU
<i>Metals</i>						
Chromium, Dissolved	E200.8	06/14/24 12:55	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	06/14/24 12:55	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Iron, Dissolved	E200.8	06/14/24 12:55	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Manganese, Dissolved	E200.8	06/14/24 12:55	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Nickel, Dissolved	E200.8	06/14/24 12:55	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Sodium	E200.8	06/14/24 16:10	MT4-24-0614C	MTD-061424-6	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	06/14/24 12:55	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
<i>Organics - Volatiles</i>						
Volatile Organics - DEQ List	SW5030C/8260C	06/10/24 15:23	240610A9	VF240610W1	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S62916.04

Sample Tag: B-23DR-06052024

Collected Date/Time: 06/05/2024 14:30

Matrix: Groundwater

COC Reference: 171586

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<i>Inorganics</i>						
Chloride	E300.0	06/13/24 22:18	CL240613-W1-B	CL240613-W1-B	No	BLK/LCS/MS/MSD/DU
Conductivity	E120.1	06/11/24 12:48	COND240611-W1	COND240611-W1	No	BLK/LCS/DUP
Cyanide, Total	E335.4/SM4500-CN	06/18/24 13:40	CN240618-W1	CN240618-W1	No	BLK/LCS/MS/DUP
Phenols	E420.1	06/07/24 16:20	PHL240607-W1	PHL240607-W1	No	BLK/LCS/MS/DUP
Sulfate	E300.0	06/13/24 22:18	SFT240613-W1-B	SFT240613-W1-B	No	BLK/LCS/MS/MSD/DU
<i>Metals</i>						
Chromium, Dissolved	E200.8	06/14/24 12:57	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	06/14/24 12:57	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Iron, Dissolved	E200.8	06/14/24 12:57	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Manganese, Dissolved	E200.8	06/14/24 12:57	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Nickel, Dissolved	E200.8	06/14/24 12:57	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Sodium	E200.8	06/14/24 16:11	MT4-24-0614C	MTD-061424-6	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	06/14/24 12:57	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
<i>Organics - Volatiles</i>						
Volatile Organics - DEQ List	SW5030C/8260C	06/10/24 15:47	240610A9	VF240610W1	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S62916.05

Sample Tag: B-9-06062024

Collected Date/Time: 06/06/2024 10:18

Matrix: Groundwater

COC Reference: 171586

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<i>Inorganics</i>						
Chloride	E300.0	06/13/24 22:28	CL240613-W1-B	CL240613-W1-B	No	BLK/LCS/MS/MSD/DU
Conductivity	E120.1	06/11/24 12:50	COND240611-W1	COND240611-W1	No	BLK/LCS/DUP
Cyanide, Total	E335.4/SM4500-CN	06/20/24 22:04	CN240620-W1	CN240620-W1	No	BLK/MS/DUP
Phenols	E420.1	06/07/24 16:22	PHL240607-W1	PHL240607-W1	No	BLK/LCS/MS/DUP
Sulfate	E300.0	06/14/24 17:00	SFT240614-W1-B	SFT240614-W1-B	No	BLK/LCS/MS/MSD/DU
<i>Metals</i>						
Chromium, Dissolved	E200.8	06/14/24 12:59	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	06/14/24 12:59	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Iron, Dissolved	E200.8	06/14/24 12:59	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Manganese, Dissolved	E200.8	06/14/24 12:59	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Nickel, Dissolved	E200.8	06/14/24 12:59	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Sodium	E200.8	06/14/24 16:13	MT4-24-0614C	MTD-061424-6	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	06/14/24 12:59	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
<i>Organics - Volatiles</i>						
Volatile Organics - DEQ List	SW5030C/8260C	06/10/24 20:42	240610A7	VF240610W2	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S62916.06

Sample Tag: B-22D-06062024

Collected Date/Time: 06/06/2024 10:45

Matrix: Groundwater

COC Reference: 171586

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<i>Inorganics</i>						
Chloride	E300.0	06/13/24 22:38	CL240613-W1-B	CL240613-W1-B	No	BLK/LCS/MS/MSD/DU
Conductivity	E120.1	06/11/24 12:52	COND240611-W1	COND240611-W1	No	BLK/LCS/DUP
Cyanide, Total	E335.4/SM4500-CN	06/20/24 22:06	CN240620-W1	CN240620-W1	No	BLK/MS/DUP
Phenols	E420.1	06/07/24 16:24	PHL240607-W1	PHL240607-W1	No	BLK/LCS/MS/DUP
Sulfate	E300.0	06/13/24 22:38	SFT240613-W1-B	SFT240613-W1-B	No	BLK/LCS/MS/MSD/DU
<i>Metals</i>						
Chromium, Dissolved	E200.8	06/14/24 13:01	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	06/14/24 13:01	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Iron, Dissolved	E200.8	06/14/24 13:01	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Manganese, Dissolved	E200.8	06/14/24 13:01	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Nickel, Dissolved	E200.8	06/14/24 13:01	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Sodium	E200.8	06/14/24 16:14	MT4-24-0614C	MTD-061424-6	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	06/14/24 13:01	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
<i>Organics - Volatiles</i>						
Volatile Organics - DEQ List	SW5030C/8260C	06/10/24 21:05	240610A7	VF240610W2	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S62916.07

Sample Tag: B-7-06062024

Collected Date/Time: 06/06/2024 11:25

Matrix: Groundwater

COC Reference: 171586

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<i>Inorganics</i>						
Chloride	E300.0	06/14/24 14:29	CL240614-W1-B	CL240614-W1-B	No	BLK/LCS/MS/MSD/DU
Conductivity	E120.1	06/11/24 12:54	COND240611-W1	COND240611-W1	No	BLK/LCS/DUP
Cyanide, Total	E335.4/SM4500-CN	06/20/24 22:08	CN240620-W1	CN240620-W1	No	BLK/MS/DUP
Phenols	E420.1	06/07/24 16:26	PHL240607-W1	PHL240607-W1	No	BLK/LCS/MS/DUP
Sulfate	E300.0	06/14/24 14:29	SFT240614-W1-B	SFT240614-W1-B	No	BLK/LCS/MS/MSD/DU
<i>Metals</i>						
Chromium, Dissolved	E200.8	06/14/24 13:09	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	06/14/24 13:09	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Iron, Dissolved	E200.8	06/14/24 13:09	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Manganese, Dissolved	E200.8	06/14/24 13:09	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Nickel, Dissolved	E200.8	06/14/24 13:09	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Sodium	E200.8	06/14/24 16:16	MT4-24-0614C	MTD-061424-6	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	06/14/24 13:09	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
<i>Organics - Volatiles</i>						
Volatile Organics - DEQ List	SW5030C/8260C	06/10/24 21:29	240610A7	VF240610W2	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S62916.08

Sample Tag: B-18A-06062024

Collected Date/Time: 06/06/2024 12:55

Matrix: Groundwater

COC Reference: 171586

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<i>Inorganics</i>						
Chloride	E300.0	06/14/24 16:00	CL240614-W1-B	CL240614-W1-B	No	BLK/LCS/MS/MSD/DU
Conductivity	E120.1	06/11/24 12:56	COND240611-W1	COND240611-W1	No	BLK/LCS/DUP
Cyanide, Total	E335.4/SM4500-CN	06/20/24 22:10	CN240620-W1	CN240620-W1	No	BLK/MS/DUP
Phenols	E420.1	06/07/24 16:28	PHL240607-W1	PHL240607-W1	No	BLK/LCS/MS/DUP
Sulfate	E300.0	06/14/24 16:00	SFT240614-W1-B	SFT240614-W1-B	No	BLK/LCS/MS/MSD/DU
<i>Metals</i>						
Chromium, Dissolved	E200.8	06/14/24 13:11	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	06/14/24 13:11	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Iron, Dissolved	E200.8	06/14/24 13:11	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Manganese, Dissolved	E200.8	06/14/24 13:11	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Nickel, Dissolved	E200.8	06/14/24 13:11	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Sodium	E200.8	06/14/24 16:17	MT4-24-0614C	MTD-061424-6	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	06/14/24 13:11	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
<i>Organics - Volatiles</i>						
Volatile Organics - DEQ List	SW5030C/8260C	06/10/24 21:52	240610A7	VF240610W2	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S62916.09

Sample Tag: B-21D-06062024

Collected Date/Time: 06/06/2024 12:45

Matrix: Groundwater

COC Reference: 171586

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<i>Inorganics</i>						
Chloride	E300.0	06/14/24 16:10	CL240614-W1-B	CL240614-W1-B	No	BLK/LCS/MS/MSD/DU
Conductivity	E120.1	06/11/24 12:58	COND240611-W1	COND240611-W1	No	BLK/LCS/DUP
Cyanide, Total	E335.4/SM4500-CN	06/20/24 22:12	CN240620-W1	CN240620-W1	No	BLK/MS/DUP
Phenols	E420.1	06/07/24 16:30	PHL240607-W1	PHL240607-W1	No	BLK/LCS/MS/DUP
Sulfate	E300.0	06/14/24 16:10	SFT240614-W1-B	SFT240614-W1-B	No	BLK/LCS/MS/MSD/DU
<i>Metals</i>						
Chromium, Dissolved	E200.8	06/14/24 13:13	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	06/14/24 13:13	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Iron, Dissolved	E200.8	06/14/24 13:13	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Manganese, Dissolved	E200.8	06/14/24 13:13	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Nickel, Dissolved	E200.8	06/14/24 13:13	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Sodium	E200.8	06/14/24 16:19	MT4-24-0614C	MTD-061424-6	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	06/14/24 13:13	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
<i>Organics - Volatiles</i>						
Volatile Organics - DEQ List	SW5030C/8260C	06/10/24 22:16	240610A7	VF240610W2	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S62916.10

Sample Tag: B-19AR-06062024

Collected Date/Time: 06/06/2024 13:40

Matrix: Groundwater

COC Reference: 171586

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<i>Inorganics</i>						
Chloride	E300.0	06/14/24 15:30	CL240614-W1-B	CL240614-W1-B	No	BLK/LCS/MS/MSD/DU
Conductivity	E120.1	06/11/24 13:00	COND240611-W1	COND240611-W1	No	BLK/LCS/DUP
Cyanide, Total	E335.4/SM4500-CN	06/20/24 22:21	CN240620-W1	CN240620-W1	No	BLK/MS/DUP
Phenols	E420.1	06/07/24 16:32	PHL240607-W1	PHL240607-W1	No	BLK/LCS/MS/DUP
Sulfate	E300.0	06/14/24 15:30	SFT240614-W1-B	SFT240614-W1-B	No	BLK/LCS/MS/MSD/DU
<i>Metals</i>						
Chromium, Dissolved	E200.8	06/14/24 13:14	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	06/14/24 13:14	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Iron, Dissolved	E200.8	06/14/24 13:14	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Manganese, Dissolved	E200.8	06/14/24 13:14	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Nickel, Dissolved	E200.8	06/14/24 13:14	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Sodium	E200.8	06/14/24 16:20	MT4-24-0614C	MTD-061424-6	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	06/14/24 13:14	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
<i>Organics - Volatiles</i>						
Volatile Organics - DEQ List	SW5030C/8260C	06/11/24 02:59	240610B9	VF240610W3	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S62916.11

Sample Tag: Trip Blank-06062024

Collected Date/Time: 06/06/2024 00:01

Matrix: Water

COC Reference: 171586

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	06/11/24 02:11	240610B9	VF240610W3	Yes	BLK/LCS/LCSD

QC Report - Prep Batch Summary

Inorganics, Prep Batch ID: CL240613-W1-B

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S62916.04	Chloride	E300.0	06/13/24 22:18	CL240613-W1-B
S62916.05	Chloride	E300.0	06/13/24 22:28	CL240613-W1-B
S62916.06	Chloride	E300.0	06/13/24 22:38	CL240613-W1-B

Inorganics, Prep Batch ID: CL240614-W1-B

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S62916.01	Chloride	E300.0	06/14/24 14:09	CL240614-W1-B
S62916.02	Chloride	E300.0	06/14/24 14:19	CL240614-W1-B
S62916.03	Chloride	E300.0	06/14/24 15:50	CL240614-W1-B
S62916.07	Chloride	E300.0	06/14/24 14:29	CL240614-W1-B
S62916.08	Chloride	E300.0	06/14/24 16:00	CL240614-W1-B
S62916.09	Chloride	E300.0	06/14/24 16:10	CL240614-W1-B
S62916.10	Chloride	E300.0	06/14/24 15:30	CL240614-W1-B

Inorganics, Prep Batch ID: CN240616-W1

Surrogates: No, QC Types: BLK/LCS/MS/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S62916.01	Cyanide, Total	E335.4/SM4500-CN06/16/24 08:46		CN240616-W1

Inorganics, Prep Batch ID: CN240618-W1

Surrogates: No, QC Types: BLK/LCS/MS/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S62916.02	Cyanide, Total	E335.4/SM4500-CN06/18/24 13:29		CN240618-W1
S62916.03	Cyanide, Total	E335.4/SM4500-CN06/18/24 13:31		CN240618-W1
S62916.04	Cyanide, Total	E335.4/SM4500-CN06/18/24 13:40		CN240618-W1

Inorganics, Prep Batch ID: CN240620-W1

Surrogates: No, QC Types: BLK/MS/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S62916.05	Cyanide, Total	E335.4/SM4500-CN06/20/24 22:04		CN240620-W1
S62916.06	Cyanide, Total	E335.4/SM4500-CN06/20/24 22:06		CN240620-W1
S62916.07	Cyanide, Total	E335.4/SM4500-CN06/20/24 22:08		CN240620-W1
S62916.08	Cyanide, Total	E335.4/SM4500-CN06/20/24 22:10		CN240620-W1
S62916.09	Cyanide, Total	E335.4/SM4500-CN06/20/24 22:12		CN240620-W1
S62916.10	Cyanide, Total	E335.4/SM4500-CN06/20/24 22:21		CN240620-W1

Inorganics, Prep Batch ID: COND240611-W1

Surrogates: No, QC Types: BLK/LCS/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S62916.01	Conductivity	E120.1	06/11/24 12:40	COND240611-W1
S62916.02	Conductivity	E120.1	06/11/24 12:44	COND240611-W1
S62916.03	Conductivity	E120.1	06/11/24 12:46	COND240611-W1
S62916.04	Conductivity	E120.1	06/11/24 12:48	COND240611-W1
S62916.05	Conductivity	E120.1	06/11/24 12:50	COND240611-W1
S62916.06	Conductivity	E120.1	06/11/24 12:52	COND240611-W1
S62916.07	Conductivity	E120.1	06/11/24 12:54	COND240611-W1
S62916.08	Conductivity	E120.1	06/11/24 12:56	COND240611-W1
S62916.09	Conductivity	E120.1	06/11/24 12:58	COND240611-W1
S62916.10	Conductivity	E120.1	06/11/24 13:00	COND240611-W1

QC Report - Prep Batch Summary

Inorganics, Prep Batch ID: PHL240607-W1

Surrogates: No, QC Types: BLK/LCS/MS/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S62916.01	Phenols	E420.1	06/07/24 16:12	PHL240607-W1
S62916.02	Phenols	E420.1	06/07/24 16:16	PHL240607-W1
S62916.03	Phenols	E420.1	06/07/24 16:18	PHL240607-W1
S62916.04	Phenols	E420.1	06/07/24 16:20	PHL240607-W1
S62916.05	Phenols	E420.1	06/07/24 16:22	PHL240607-W1
S62916.06	Phenols	E420.1	06/07/24 16:24	PHL240607-W1
S62916.07	Phenols	E420.1	06/07/24 16:26	PHL240607-W1
S62916.08	Phenols	E420.1	06/07/24 16:28	PHL240607-W1
S62916.09	Phenols	E420.1	06/07/24 16:30	PHL240607-W1
S62916.10	Phenols	E420.1	06/07/24 16:32	PHL240607-W1

Inorganics, Prep Batch ID: SFT240613-W1-B

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S62916.04	Sulfate	E300.0	06/13/24 22:18	SFT240613-W1-B
S62916.06	Sulfate	E300.0	06/13/24 22:38	SFT240613-W1-B

Inorganics, Prep Batch ID: SFT240614-W1-B

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S62916.01	Sulfate	E300.0	06/14/24 14:09	SFT240614-W1-B
S62916.02	Sulfate	E300.0	06/14/24 14:19	SFT240614-W1-B
S62916.05	Sulfate	E300.0	06/14/24 17:00	SFT240614-W1-B
S62916.07	Sulfate	E300.0	06/14/24 14:29	SFT240614-W1-B
S62916.08	Sulfate	E300.0	06/14/24 16:00	SFT240614-W1-B
S62916.09	Sulfate	E300.0	06/14/24 16:10	SFT240614-W1-B
S62916.10	Sulfate	E300.0	06/14/24 15:30	SFT240614-W1-B

Inorganics, Prep Batch ID: SFT240618-W1-B

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S62916.03	Sulfate	E300.0	06/18/24 13:33	SFT240618-W1-B

Metals, Prep Batch ID: MTD-061424-2

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S62916.01	Chromium, Dissolved	E200.8	06/14/24 12:51	MT4-24-0614A
S62916.01	Copper, Dissolved	E200.8	06/14/24 12:51	MT4-24-0614A
S62916.01	Iron, Dissolved	E200.8	06/14/24 12:51	MT4-24-0614A
S62916.01	Manganese, Dissolved	E200.8	06/14/24 12:51	MT4-24-0614A
S62916.01	Nickel, Dissolved	E200.8	06/14/24 12:51	MT4-24-0614A
S62916.01	Zinc, Dissolved	E200.8	06/14/24 12:51	MT4-24-0614A
S62916.02	Chromium, Dissolved	E200.8	06/14/24 12:53	MT4-24-0614A
S62916.02	Copper, Dissolved	E200.8	06/14/24 12:53	MT4-24-0614A
S62916.02	Iron, Dissolved	E200.8	06/14/24 12:53	MT4-24-0614A
S62916.02	Manganese, Dissolved	E200.8	06/14/24 12:53	MT4-24-0614A
S62916.02	Nickel, Dissolved	E200.8	06/14/24 12:53	MT4-24-0614A
S62916.02	Zinc, Dissolved	E200.8	06/14/24 12:53	MT4-24-0614A
S62916.03	Chromium, Dissolved	E200.8	06/14/24 12:55	MT4-24-0614A

QC Report - Prep Batch Summary

Metals, Prep Batch ID: MTD-061424-2 (continued)

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S62916.03	Copper, Dissolved	E200.8	06/14/24 12:55	MT4-24-0614A
S62916.03	Iron, Dissolved	E200.8	06/14/24 12:55	MT4-24-0614A
S62916.03	Manganese, Dissolved	E200.8	06/14/24 12:55	MT4-24-0614A
S62916.03	Nickel, Dissolved	E200.8	06/14/24 12:55	MT4-24-0614A
S62916.03	Zinc, Dissolved	E200.8	06/14/24 12:55	MT4-24-0614A
S62916.04	Chromium, Dissolved	E200.8	06/14/24 12:57	MT4-24-0614A
S62916.04	Copper, Dissolved	E200.8	06/14/24 12:57	MT4-24-0614A
S62916.04	Iron, Dissolved	E200.8	06/14/24 12:57	MT4-24-0614A
S62916.04	Manganese, Dissolved	E200.8	06/14/24 12:57	MT4-24-0614A
S62916.04	Nickel, Dissolved	E200.8	06/14/24 12:57	MT4-24-0614A
S62916.04	Zinc, Dissolved	E200.8	06/14/24 12:57	MT4-24-0614A
S62916.05	Chromium, Dissolved	E200.8	06/14/24 12:59	MT4-24-0614A
S62916.05	Copper, Dissolved	E200.8	06/14/24 12:59	MT4-24-0614A
S62916.05	Iron, Dissolved	E200.8	06/14/24 12:59	MT4-24-0614A
S62916.05	Manganese, Dissolved	E200.8	06/14/24 12:59	MT4-24-0614A
S62916.05	Nickel, Dissolved	E200.8	06/14/24 12:59	MT4-24-0614A
S62916.05	Zinc, Dissolved	E200.8	06/14/24 12:59	MT4-24-0614A
S62916.06	Chromium, Dissolved	E200.8	06/14/24 13:01	MT4-24-0614A
S62916.06	Copper, Dissolved	E200.8	06/14/24 13:01	MT4-24-0614A
S62916.06	Iron, Dissolved	E200.8	06/14/24 13:01	MT4-24-0614A
S62916.06	Manganese, Dissolved	E200.8	06/14/24 13:01	MT4-24-0614A
S62916.06	Nickel, Dissolved	E200.8	06/14/24 13:01	MT4-24-0614A
S62916.06	Zinc, Dissolved	E200.8	06/14/24 13:01	MT4-24-0614A
S62916.07	Chromium, Dissolved	E200.8	06/14/24 13:09	MT4-24-0614A
S62916.07	Copper, Dissolved	E200.8	06/14/24 13:09	MT4-24-0614A
S62916.07	Iron, Dissolved	E200.8	06/14/24 13:09	MT4-24-0614A
S62916.07	Manganese, Dissolved	E200.8	06/14/24 13:09	MT4-24-0614A
S62916.07	Nickel, Dissolved	E200.8	06/14/24 13:09	MT4-24-0614A
S62916.07	Zinc, Dissolved	E200.8	06/14/24 13:09	MT4-24-0614A
S62916.08	Chromium, Dissolved	E200.8	06/14/24 13:11	MT4-24-0614A
S62916.08	Copper, Dissolved	E200.8	06/14/24 13:11	MT4-24-0614A
S62916.08	Iron, Dissolved	E200.8	06/14/24 13:11	MT4-24-0614A
S62916.08	Manganese, Dissolved	E200.8	06/14/24 13:11	MT4-24-0614A
S62916.08	Nickel, Dissolved	E200.8	06/14/24 13:11	MT4-24-0614A
S62916.08	Zinc, Dissolved	E200.8	06/14/24 13:11	MT4-24-0614A
S62916.09	Chromium, Dissolved	E200.8	06/14/24 13:13	MT4-24-0614A
S62916.09	Copper, Dissolved	E200.8	06/14/24 13:13	MT4-24-0614A
S62916.09	Iron, Dissolved	E200.8	06/14/24 13:13	MT4-24-0614A
S62916.09	Manganese, Dissolved	E200.8	06/14/24 13:13	MT4-24-0614A
S62916.09	Nickel, Dissolved	E200.8	06/14/24 13:13	MT4-24-0614A
S62916.09	Zinc, Dissolved	E200.8	06/14/24 13:13	MT4-24-0614A
S62916.10	Chromium, Dissolved	E200.8	06/14/24 13:14	MT4-24-0614A
S62916.10	Copper, Dissolved	E200.8	06/14/24 13:14	MT4-24-0614A
S62916.10	Iron, Dissolved	E200.8	06/14/24 13:14	MT4-24-0614A
S62916.10	Manganese, Dissolved	E200.8	06/14/24 13:14	MT4-24-0614A
S62916.10	Nickel, Dissolved	E200.8	06/14/24 13:14	MT4-24-0614A
S62916.10	Zinc, Dissolved	E200.8	06/14/24 13:14	MT4-24-0614A

QC Report - Prep Batch Summary

Metals, Prep Batch ID: MTD-061424-6

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S62916.01	Sodium	E200.8	06/14/24 16:07	MT4-24-0614C
S62916.02	Sodium	E200.8	06/14/24 16:08	MT4-24-0614C
S62916.03	Sodium	E200.8	06/14/24 16:10	MT4-24-0614C
S62916.04	Sodium	E200.8	06/14/24 16:11	MT4-24-0614C
S62916.05	Sodium	E200.8	06/14/24 16:13	MT4-24-0614C
S62916.06	Sodium	E200.8	06/14/24 16:14	MT4-24-0614C
S62916.07	Sodium	E200.8	06/14/24 16:16	MT4-24-0614C
S62916.08	Sodium	E200.8	06/14/24 16:17	MT4-24-0614C
S62916.09	Sodium	E200.8	06/14/24 16:19	MT4-24-0614C
S62916.10	Sodium	E200.8	06/14/24 16:20	MT4-24-0614C

Organics - Volatiles, Prep Batch ID: VF240610W1

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S62916.02	Volatile Organics - DEQ List	SW5030C/8260C	06/10/24 15:00	240610A9
S62916.03	Volatile Organics - DEQ List	SW5030C/8260C	06/10/24 15:23	240610A9
S62916.04	Volatile Organics - DEQ List	SW5030C/8260C	06/10/24 15:47	240610A9

Organics - Volatiles, Prep Batch ID: VF240610W2

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S62916.01	Volatile Organics - DEQ List	SW5030C/8260C	06/10/24 17:09	240610A7
S62916.05	Volatile Organics - DEQ List	SW5030C/8260C	06/10/24 20:42	240610A7
S62916.06	Volatile Organics - DEQ List	SW5030C/8260C	06/10/24 21:05	240610A7
S62916.07	Volatile Organics - DEQ List	SW5030C/8260C	06/10/24 21:29	240610A7
S62916.08	Volatile Organics - DEQ List	SW5030C/8260C	06/10/24 21:52	240610A7
S62916.09	Volatile Organics - DEQ List	SW5030C/8260C	06/10/24 22:16	240610A7

Organics - Volatiles, Prep Batch ID: VF240610W3

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S62916.10	Volatile Organics - DEQ List	SW5030C/8260C	06/11/24 02:59	240610B9
S62916.11	Volatile Organics - DEQ List	SW5030C/8260C	06/11/24 02:11	240610B9

QC Report - Surrogates per Lab Sample

Lab Sample ID: S62916.01

Sample Tag: B-28-06042024

Collected Date/Time: 06/04/2024 15:20

Matrix: Groundwater

COC Reference: 171586

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 240610A7, Run Date: 06/10/2024 17:09, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		103.7	80.0	124.0
1,2-Dichloroethane-D4		87.3	72.0	125.0
Toluene-D8		99.6	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S62916.02

Sample Tag: B-27D-06052024

Collected Date/Time: 06/05/2024 12:30

Matrix: Groundwater

COC Reference: 171586

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 240610A9, Run Date: 06/10/2024 15:00, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		96.5	80.0	124.0
1,2-Dichloroethane-D4		92.4	72.0	125.0
Toluene-D8		92.2	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S62916.03

Sample Tag: B-24R-06052024

Collected Date/Time: 06/05/2024 14:16

Matrix: Groundwater

COC Reference: 171586

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 240610A9, Run Date: 06/10/2024 15:23, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		101.4	80.0	124.0
1,2-Dichloroethane-D4		104.5	72.0	125.0
Toluene-D8		93.3	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S62916.04

Sample Tag: B-23DR-06052024

Collected Date/Time: 06/05/2024 14:30

Matrix: Groundwater

COC Reference: 171586

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 240610A9, Run Date: 06/10/2024 15:47, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		98.3	80.0	124.0
1,2-Dichloroethane-D4		94.7	72.0	125.0
Toluene-D8		93.3	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S62916.05

Sample Tag: B-9-06062024

Collected Date/Time: 06/06/2024 10:18

Matrix: Groundwater

COC Reference: 171586

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 240610A7, Run Date: 06/10/2024 20:42, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		103.9	80.0	124.0
1,2-Dichloroethane-D4		85.1	72.0	125.0
Toluene-D8		99.7	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S62916.06

Sample Tag: B-22D-06062024

Collected Date/Time: 06/06/2024 10:45

Matrix: Groundwater

COC Reference: 171586

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 240610A7, Run Date: 06/10/2024 21:05, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		104.6	80.0	124.0
1,2-Dichloroethane-D4		84.5	72.0	125.0
Toluene-D8		98.6	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S62916.07

Sample Tag: B-7-06062024

Collected Date/Time: 06/06/2024 11:25

Matrix: Groundwater

COC Reference: 171586

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 240610A7, Run Date: 06/10/2024 21:29, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		106.3	80.0	124.0
1,2-Dichloroethane-D4		88.6	72.0	125.0
Toluene-D8		100.2	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S62916.08

Sample Tag: B-18A-06062024

Collected Date/Time: 06/06/2024 12:55

Matrix: Groundwater

COC Reference: 171586

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 240610A7, Run Date: 06/10/2024 21:52, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		105.6	80.0	124.0
1,2-Dichloroethane-D4		83.0	72.0	125.0
Toluene-D8		98.3	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S62916.09

Sample Tag: B-21D-06062024

Collected Date/Time: 06/06/2024 12:45

Matrix: Groundwater

COC Reference: 171586

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 240610A7, Run Date: 06/10/2024 22:16, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		104.0	80.0	124.0
1,2-Dichloroethane-D4		82.1	72.0	125.0
Toluene-D8		99.0	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S62916.10

Sample Tag: B-19AR-06062024

Collected Date/Time: 06/06/2024 13:40

Matrix: Groundwater

COC Reference: 171586

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 240610B9, Run Date: 06/11/2024 02:59, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		99.7	80.0	124.0
1,2-Dichloroethane-D4		95.9	72.0	125.0
Toluene-D8		92.1	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S62916.11

Sample Tag: Trip Blank-06062024

Collected Date/Time: 06/06/2024 00:01

Matrix: Water

COC Reference: 171586

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 240610B9, Run Date: 06/11/2024 02:11, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		99.2	80.0	124.0
1,2-Dichloroethane-D4		93.9	72.0	125.0
Toluene-D8		91.8	89.0	112.0

QC Report - Surrogates per QC Sample

Organics - Volatiles, Prep Batch ID: VF240610W1

QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: 240610A9.BLKW10A

Run in Batch: 240610A9, Run Date: 06/10/2024 14:35, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		100.1	80.0	124.0
1,2-Dichloroethane-D4		97.8	72.0	125.0
Toluene-D8		92.8	89.0	112.0

Laboratory Control Sample (LCS)

Lab Sample ID: 240610A9.LCSW10A

Run in Batch: 240610A9, Run Date: 06/10/2024 12:59, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		102.1	80.0	124.0
1,2-Dichloroethane-D4		95.0	72.0	125.0
Toluene-D8		92.5	89.0	112.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 240610A9.LCSDW10, Parent Sample ID: 240610A9.LCSW10A

Run in Batch: 240610A9, Run Date: 06/10/2024 13:24, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		99.2	80.0	124.0
1,2-Dichloroethane-D4		91.1	72.0	125.0
Toluene-D8		92.8	89.0	112.0

QC Report - Surrogates per QC Sample

Organics - Volatiles, Prep Batch ID: VF240610W2

QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: 240610A7.BLKW10A

Run in Batch: 240610A7, Run Date: 06/10/2024 15:59, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		103.4	80.0	124.0
1,2-Dichloroethane-D4		86.5	72.0	125.0
Toluene-D8		100.0	89.0	112.0

Laboratory Control Sample (LCS)

Lab Sample ID: 240610A7.LCSW10A

Run in Batch: 240610A7, Run Date: 06/10/2024 14:23, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		102.4	80.0	124.0
1,2-Dichloroethane-D4		92.4	72.0	125.0
Toluene-D8		99.5	89.0	112.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 240610A7.LCSDW10A, Parent Sample ID: 240610A7.LCSW10A

Run in Batch: 240610A7, Run Date: 06/10/2024 14:47, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		101.1	80.0	124.0
1,2-Dichloroethane-D4		85.2	72.0	125.0
Toluene-D8		99.7	89.0	112.0

QC Report - Surrogates per QC Sample

Organics - Volatiles, Prep Batch ID: VF240610W3

QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: 240610B9.BLKW10B

Run in Batch: 240610B9, Run Date: 06/11/2024 01:47, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		98.9	80.0	124.0
1,2-Dichloroethane-D4		88.3	72.0	125.0
Toluene-D8		91.6	89.0	112.0

Laboratory Control Sample (LCS)

Lab Sample ID: 240610B9.LCSW10B

Run in Batch: 240610B9, Run Date: 06/11/2024 00:12, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		102.3	80.0	124.0
1,2-Dichloroethane-D4		92.2	72.0	125.0
Toluene-D8		92.9	89.0	112.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 240610B9.LCSDW10B, Parent Sample ID: 240610B9.LCSW10B

Run in Batch: 240610B9, Run Date: 06/11/2024 00:35, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		99.1	80.0	124.0
1,2-Dichloroethane-D4		90.8	72.0	125.0
Toluene-D8		92.9	89.0	112.0

QC Report - Batch QC Results

Inorganics, Prep Batch ID: CL240613-W1-B

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Blank (BLK)

Lab Sample ID: CL240613-W1-B.LRB1

Run in Batch: CL240613-W1-B, Run Date: 06/13/2024 14:49, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Chloride		ND	1.0	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: CL240613-W1-B.LCS1

Run in Batch: CL240613-W1-B, Run Date: 06/13/2024 15:12, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Chloride		99.0	90	110

Matrix Spike (MS)

Lab Sample ID: CL240613-W1-B.MS1, Parent Sample ID: S62923.13

Run in Batch: CL240613-W1-B, Run Date: 06/13/2024 18:56, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 25

Analyte	Flags	% Rec	LCL	UCL
Chloride		106.7	80	120

Matrix Spike (MS)

Lab Sample ID: CL240613-W1-B.MS2, Parent Sample ID: S63051.01

Run in Batch: CL240613-W1-B, Run Date: 06/13/2024 19:16, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 10

Analyte	Flags	% Rec	LCL	UCL
Chloride		104.2	80	120

Matrix Spike Duplicate (MSD)

Lab Sample ID: CL240613-W1-B.MSD1, Parent Sample ID: CL240613-W1-B.MS2

Run in Batch: CL240613-W1-B, Run Date: 06/13/2024 18:46, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 10

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Chloride		104.2	80	120	0	15

Matrix Spike Duplicate (MSD)

Lab Sample ID: CL240613-W1-B.MSD2, Parent Sample ID: CL240613-W1-B.MS1

Run in Batch: CL240613-W1-B, Run Date: 06/13/2024 19:06, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 25

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Chloride		107.1	80	120	0	15

Duplicate (DUP)

Lab Sample ID: CL240613-W1-B.DP1, Parent Sample ID: S63051.01

Run in Batch: CL240613-W1-B, Run Date: 06/13/2024 17:56, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 10

Analyte	Flags	RPD	RPD CL
Chloride		0.2	15

Duplicate (DUP)

Lab Sample ID: CL240613-W1-B.DP2, Parent Sample ID: S62923.13

Run in Batch: CL240613-W1-B, Run Date: 06/13/2024 18:16, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 25

Analyte	Flags	RPD	RPD CL
Chloride		0.8	15

QC Report - Batch QC Results

Inorganics, Prep Batch ID: CL240614-W1-B

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Blank (BLK)

Lab Sample ID: CL240614-W1-B.LRB1

Run in Batch: CL240614-W1-B, Run Date: 06/14/2024 13:17, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Chloride		ND	1.0	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: CL240614-W1-B.LCS1

Run in Batch: CL240614-W1-B, Run Date: 06/14/2024 13:39, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Chloride		98.0	90	110

Matrix Spike (MS)

Lab Sample ID: CL240614-W1-B.MS1, Parent Sample ID: S62916.09

Run in Batch: CL240614-W1-B, Run Date: 06/14/2024 16:30, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 10

Analyte	Flags	% Rec	LCL	UCL
Chloride		104.8	80	120

Matrix Spike Duplicate (MSD)

Lab Sample ID: CL240614-W1-B.MSD1, Parent Sample ID: CL240614-W1-B.MS1

Run in Batch: CL240614-W1-B, Run Date: 06/14/2024 16:40, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 10

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Chloride		104.8	80	120	0	15

Duplicate (DUP)

Lab Sample ID: CL240614-W1-B.DP1, Parent Sample ID: S62916.09

Run in Batch: CL240614-W1-B, Run Date: 06/14/2024 16:20, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 10

Analyte	Flags	RPD	RPD CL
Chloride		NC	15

QC Report - Batch QC Results

Inorganics, Prep Batch ID: CN240616-W1

Surrogates: No, QC Types: BLK/LCS/MS/DUP

Blank (BLK)

Lab Sample ID: CN240616-W1.LRB1

Run in Batch: CN240616-W1, Run Date: 06/16/2024 08:00, Prep Date: 06/16/2024, Matrix: Liquid, Dilution: 2

Analyte	Flags	Conc	RDL	Units
Cyanide, Total		ND	0.004	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: CN240616-W1.LCS1

Run in Batch: CN240616-W1, Run Date: 06/16/2024 08:06, Prep Date: 06/16/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Cyanide, Total		100	90	110

Matrix Spike (MS)

Lab Sample ID: CN240616-W1.MS1, Parent Sample ID: S62762.01

Run in Batch: CN240616-W1, Run Date: 06/16/2024 09:04, Prep Date: 06/16/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Cyanide, Total		106	90	110

Duplicate (DUP)

Lab Sample ID: CN240616-W1.DP1, Parent Sample ID: S62762.01

Run in Batch: CN240616-W1, Run Date: 06/16/2024 09:02, Prep Date: 06/16/2024, Matrix: Liquid, Dilution: 2

Analyte	Flags	RPD	RPD CL
Cyanide, Total		NC	15

QC Report - Batch QC Results

Inorganics, Prep Batch ID: CN240618-W1

Surrogates: No, QC Types: BLK/LCS/MS/DUP

Blank (BLK)

Lab Sample ID: CN240618-W1.LRB1

Run in Batch: CN240618-W1, Run Date: 06/18/2024 13:08, Prep Date: 06/18/2024, Matrix: Liquid, Dilution: 2

Analyte	Flags	Conc	RDL	Units
Cyanide, Total		ND	0.004	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: CN240618-W1.LCS1

Run in Batch: CN240618-W1, Run Date: 06/18/2024 13:15, Prep Date: 06/18/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Cyanide, Total	*	114	90	110

Matrix Spike (MS)

Lab Sample ID: CN240618-W1.MS1, Parent Sample ID: S62872.06

Run in Batch: CN240618-W1, Run Date: 06/18/2024 13:25, Prep Date: 06/18/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Cyanide, Total	*	114	90	110

Duplicate (DUP)

Lab Sample ID: CN240618-W1.DP1, Parent Sample ID: S62872.06

Run in Batch: CN240618-W1, Run Date: 06/18/2024 13:20, Prep Date: 06/18/2024, Matrix: Liquid, Dilution: 2

Analyte	Flags	RPD	RPD CL
Cyanide, Total		0	15

QC Report - Batch QC Results

Inorganics, Prep Batch ID: CN240620-W1

Surrogates: No, QC Types: BLK/MS/DUP

Blank (BLK)

Lab Sample ID: CN240620-W1.LRB1

Run in Batch: CN240620-W1, Run Date: 06/20/2024 09:48, Prep Date: 06/20/2024, Matrix: Liquid, Dilution: 2

Analyte	Flags	Conc	RDL	Units
Cyanide, Total		ND	0.004	mg/L

Matrix Spike (MS)

Lab Sample ID: CN240620-W1.MS1, Parent Sample ID: S63203.01

Run in Batch: CN240620-W1, Run Date: 06/20/2024 22:29, Prep Date: 06/20/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Cyanide, Total		100	90	110

Duplicate (DUP)

Lab Sample ID: CN240620-W1.DP1, Parent Sample ID: S63203.01

Run in Batch: CN240620-W1, Run Date: 06/20/2024 22:27, Prep Date: 06/20/2024, Matrix: Liquid, Dilution: 2

Analyte	Flags	RPD	RPD CL
Cyanide, Total		0	15

QC Report - Batch QC Results

Inorganics, Prep Batch ID: COND240611-W1

Surrogates: No, QC Types: BLK/LCS/DUP

Blank (BLK)

Lab Sample ID: COND240611-W1.LRB1

Run in Batch: COND240611-W1, Run Date: 06/11/2024 12:30, Prep Date: 06/11/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Conductivity		ND	1	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: COND240611-W1.LCS1

Run in Batch: COND240611-W1, Run Date: 06/11/2024 12:36, Prep Date: 06/11/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Conductivity		97	90	110

Duplicate (DUP)

Lab Sample ID: COND240611-W1.DP1, Parent Sample ID: S62916.01

Run in Batch: COND240611-W1, Run Date: 06/11/2024 12:42, Prep Date: 06/11/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Conductivity		<1	15

QC Report - Batch QC Results

Inorganics, Prep Batch ID: PHL240607-W1

Surrogates: No, QC Types: BLK/LCS/MS/DUP

Blank (BLK)

Lab Sample ID: PHL240607-W1.LRB1

Run in Batch: PHL240607-W1, Run Date: 06/07/2024 16:00, Prep Date: 06/07/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Phenols		ND	0.01	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: PHL240607-W1.LCS1

Run in Batch: PHL240607-W1, Run Date: 06/07/2024 16:06, Prep Date: 06/07/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Phenols		98	90	110

Matrix Spike (MS)

Lab Sample ID: PHL240607-W1.MS1, Parent Sample ID: S62916.01

Run in Batch: PHL240607-W1, Run Date: 06/07/2024 16:14, Prep Date: 06/07/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Phenols		106	90	110

Duplicate (DUP)

Lab Sample ID: PHL240607-W1.DP1, Parent Sample ID: S62574.01

Run in Batch: PHL240607-W1, Run Date: 06/07/2024 16:10, Prep Date: 06/07/2024, Matrix: Liquid, Dilution: 1.7

Analyte	Flags	RPD	RPD CL
Phenols		<1	15

QC Report - Batch QC Results

Inorganics, Prep Batch ID: SFT240613-W1-B

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Blank (BLK)

Lab Sample ID: SFT240613-W1-B.LRB1

Run in Batch: SFT240613-W1-B, Run Date: 06/13/2024 14:49, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Sulfate		ND	1.0	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: SFT240613-W1-B.LCS1

Run in Batch: SFT240613-W1-B, Run Date: 06/13/2024 15:12, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Sulfate		98.0	90	110

Matrix Spike (MS)

Lab Sample ID: SFT240613-W1-B.MS1, Parent Sample ID: S62923.13

Run in Batch: SFT240613-W1-B, Run Date: 06/13/2024 18:56, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 25

Analyte	Flags	% Rec	LCL	UCL
Sulfate		99.4	80	120

Matrix Spike (MS)

Lab Sample ID: SFT240613-W1-B.MS2, Parent Sample ID: S63051.01

Run in Batch: SFT240613-W1-B, Run Date: 06/13/2024 19:16, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 10

Analyte	Flags	% Rec	LCL	UCL
Sulfate		104.2	80	120

Matrix Spike Duplicate (MSD)

Lab Sample ID: SFT240613-W1-B.MSD1, Parent Sample ID: SFT240613-W1-B.MS1

Run in Batch: SFT240613-W1-B, Run Date: 06/13/2024 18:46, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 10

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Sulfate		102.4	80	120	40	15

Matrix Spike Duplicate (MSD)

Lab Sample ID: SFT240613-W1-B.MSD2, Parent Sample ID: SFT240613-W1-B.MS2

Run in Batch: SFT240613-W1-B, Run Date: 06/13/2024 19:06, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 25

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Sulfate		99.8	80	120	40	15

Duplicate (DUP)

Lab Sample ID: SFT240613-W1-B.DP1, Parent Sample ID: S63051.01

Run in Batch: SFT240613-W1-B, Run Date: 06/13/2024 17:56, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 10

Analyte	Flags	RPD	RPD CL
Sulfate		0.8	15

Duplicate (DUP)

Lab Sample ID: SFT240613-W1-B.DP2, Parent Sample ID: S62923.13

Run in Batch: SFT240613-W1-B, Run Date: 06/13/2024 18:16, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 25

Analyte	Flags	RPD	RPD CL
Sulfate		1.4	15

QC Report - Batch QC Results

Inorganics, Prep Batch ID: SFT240614-W1-B

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Blank (BLK)

Lab Sample ID: SFT240614-W1-B.LRB1

Run in Batch: SFT240614-W1-B, Run Date: 06/14/2024 13:17, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Sulfate		ND	1.0	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: SFT240614-W1-B.LCS1

Run in Batch: SFT240614-W1-B, Run Date: 06/14/2024 13:39, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Sulfate		98.0	90	110

Matrix Spike (MS)

Lab Sample ID: SFT240614-W1-B.MS1, Parent Sample ID: S62916.09

Run in Batch: SFT240614-W1-B, Run Date: 06/14/2024 16:30, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 10

Analyte	Flags	% Rec	LCL	UCL
Sulfate		101.5	80	120

Matrix Spike Duplicate (MSD)

Lab Sample ID: SFT240614-W1-B.MSD1, Parent Sample ID: SFT240614-W1-B.MS1

Run in Batch: SFT240614-W1-B, Run Date: 06/14/2024 16:40, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 10

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Sulfate		101.7	80	120	0	15

Duplicate (DUP)

Lab Sample ID: SFT240614-W1-B.DP1, Parent Sample ID: S62916.09

Run in Batch: SFT240614-W1-B, Run Date: 06/14/2024 16:20, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 10

Analyte	Flags	RPD	RPD CL
Sulfate		0.4	15

QC Report - Batch QC Results

Inorganics, Prep Batch ID: SFT240618-W1-B

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Blank (BLK)

Lab Sample ID: SFT240618-W1-B.LRB1

Run in Batch: SFT240618-W1-B, Run Date: 06/18/2024 12:20, Prep Date: 06/18/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Sulfate		ND	1.0	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: SFT240618-W1-B.LCS1

Run in Batch: SFT240618-W1-B, Run Date: 06/18/2024 12:42, Prep Date: 06/18/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Sulfate		98.0	90	110

Matrix Spike (MS)

Lab Sample ID: SFT240618-W1-B.MS1, Parent Sample ID: S62916.03

Run in Batch: SFT240618-W1-B, Run Date: 06/18/2024 16:43, Prep Date: 06/18/2024, Matrix: Liquid, Dilution: 25

Analyte	Flags	% Rec	LCL	UCL
Sulfate		102.2	80	120

Matrix Spike Duplicate (MSD)

Lab Sample ID: SFT240618-W1-B.MSD1, Parent Sample ID: SFT240618-W1-B.MS1

Run in Batch: SFT240618-W1-B, Run Date: 06/18/2024 16:53, Prep Date: 06/18/2024, Matrix: Liquid, Dilution: 25

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Sulfate		102.8	80	120	0	15

Duplicate (DUP)

Lab Sample ID: SFT240618-W1-B.DP1, Parent Sample ID: S62916.03

Run in Batch: SFT240618-W1-B, Run Date: 06/18/2024 16:32, Prep Date: 06/18/2024, Matrix: Liquid, Dilution: 25

Analyte	Flags	RPD	RPD CL
Sulfate		1.4	15

QC Report - Batch QC Results

Metals, Prep Batch ID: MTD-061424-2

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Blank (BLK)

Lab Sample ID: MT4-24-0614A.079.LRB

Run in Batch: MT4-24-0614A, Run Date: 06/14/2024 12:41, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Chromium		ND	0.001	mg/L
Copper		ND	0.001	mg/L
Iron		ND	0.004	mg/L
Manganese		ND	0.001	mg/L
Nickel		ND	0.001	mg/L
Zinc		ND	0.001	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: MT4-24-0614A.078.LCS

Run in Batch: MT4-24-0614A, Run Date: 06/14/2024 12:39, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Chromium		99	85	115
Copper		99	85	115
Iron		99	85	115
Manganese		98	85	115
Nickel		95	85	115
Zinc		102	85	115

Matrix Spike (MS)

Lab Sample ID: MT4-24-0614A.099.MS, Parent Sample ID: S63008.01

Run in Batch: MT4-24-0614A, Run Date: 06/14/2024 13:02, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Chromium		102	75	125
Copper		97	75	125
Iron		84	75	125
Manganese		99	75	125
Nickel		97	75	125
Zinc		101	75	125

Matrix Spike (MS)

Lab Sample ID: MT4-24-0614A.110.MS, Parent Sample ID: S62916.10

Run in Batch: MT4-24-0614A, Run Date: 06/14/2024 13:16, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Chromium		98	75	125
Copper		92	75	125
Iron		75	75	125
Manganese		100	75	125
Nickel		97	75	125
Zinc		96	75	125

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-24-0614A.100.MSD, Parent Sample ID: MT4-24-0614A.099.MS

Run in Batch: MT4-24-0614A, Run Date: 06/14/2024 13:03, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Chromium		103	75	125	1	20
Copper		97	75	125	0	20

QC Report - Batch QC Results

Metals, Prep Batch ID: MTD-061424-2 (continued)

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Matrix Spike Duplicate (MSD) (continued)

Lab Sample ID: MT4-24-0614A.100.MSD, Parent Sample ID: MT4-24-0614A.099.MS

Run in Batch: MT4-24-0614A, Run Date: 06/14/2024 13:03, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Iron		108	75	125	3	20
Manganese		102	75	125	2	20
Nickel		98	75	125	1	20
Zinc		101	75	125	0	20

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-24-0614A.111.MSD, Parent Sample ID: MT4-24-0614A.110.MS

Run in Batch: MT4-24-0614A, Run Date: 06/14/2024 13:17, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Chromium		100	75	125	2	20
Copper		94	75	125	3	20
Iron		78	75	125	2	20
Manganese		101	75	125	1	20
Nickel		96	75	125	0	20
Zinc		97	75	125	1	20

QC Report - Batch QC Results

Metals, Prep Batch ID: MTD-061424-6

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Blank (BLK)

Lab Sample ID: MT4-24-0614C.015.LRB

Run in Batch: MT4-24-0614C, Run Date: 06/14/2024 16:06, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Sodium		ND	0.05	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: MT4-24-0614C.014.LCS

Run in Batch: MT4-24-0614C, Run Date: 06/14/2024 16:02, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Sodium		108	85	115

Matrix Spike (MS)

Lab Sample ID: MT4-24-0614C.035.MS, Parent Sample ID: S62916.10

Run in Batch: MT4-24-0614C, Run Date: 06/14/2024 16:21, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 50

Analyte	Flags	% Rec	LCL	UCL
Sodium		105	75	125

Matrix Spike (MS)

Lab Sample ID: MT4-24-0614C.060.MS, Parent Sample ID: S63008.03

Run in Batch: MT4-24-0614C, Run Date: 06/14/2024 16:42, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 50

Analyte	Flags	% Rec	LCL	UCL
Sodium		105	75	125

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-24-0614C.036.MSD, Parent Sample ID: MT4-24-0614C.035.MS

Run in Batch: MT4-24-0614C, Run Date: 06/14/2024 16:22, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 50

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Sodium		106	75	125	1	20

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-24-0614C.061.MSD, Parent Sample ID: MT4-24-0614C.060.MS

Run in Batch: MT4-24-0614C, Run Date: 06/14/2024 16:43, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 50

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Sodium		100	75	125	4	20

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240610W1

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: 240610A9.BLKW10A

Run in Batch: 240610A9, Run Date: 06/10/2024 14:35, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Diethyl ether		ND	1.00	ug/l
Acetone		ND	10.00	ug/l
Methyl iodide		ND	1.00	ug/l
Carbon disulfide		ND	1.00	ug/l
tert-Methyl butyl ether (MTBE)		ND	1.00	ug/l
Acrylonitrile		ND	1.00	ug/l
2-Butanone (MEK)		ND	10.00	ug/l
Dichlorodifluoromethane		ND	1.00	ug/l
Chloromethane		ND	1.00	ug/l
Vinyl chloride		ND	1.00	ug/l
Bromomethane		ND	1.00	ug/l
Chloroethane		ND	1.00	ug/l
Trichlorofluoromethane		ND	1.00	ug/l
1,1-Dichloroethene		ND	1.00	ug/l
Methylene chloride		ND	1.00	ug/l
trans-1,2-Dichloroethene		ND	1.00	ug/l
1,1-Dichloroethane		ND	1.00	ug/l
cis-1,2-Dichloroethene		ND	1.00	ug/l
Tetrahydrofuran		ND	10.00	ug/l
Chloroform		ND	1.00	ug/l
Bromochloromethane		ND	1.00	ug/l
1,1,1-Trichloroethane		ND	1.00	ug/l
4-Methyl-2-pentanone (MIBK)		ND	10.00	ug/l
2-Hexanone		ND	10.00	ug/l
Carbon tetrachloride		ND	1.00	ug/l
Benzene		ND	1.00	ug/l
1,2-Dichloroethane		ND	1.00	ug/l
Trichloroethene		ND	1.00	ug/l
1,2-Dichloropropane		ND	1.00	ug/l
Bromodichloromethane		ND	1.00	ug/l
Dibromomethane		ND	1.00	ug/l
cis-1,3-Dichloropropene		ND	1.00	ug/l
Toluene		ND	1.00	ug/l
trans-1,3-Dichloropropene		ND	1.00	ug/l
1,1,2-Trichloroethane		ND	1.00	ug/l
Tetrachloroethene		ND	1.00	ug/l
trans-1,4-Dichloro-2-butene		ND	1.00	ug/l
Dibromochloromethane		ND	1.00	ug/l
1,2-Dibromoethane		ND	1.00	ug/l
Chlorobenzene		ND	1.00	ug/l
1,1,1,2-Tetrachloroethane		ND	1.00	ug/l
Ethylbenzene		ND	1.00	ug/l
p,m-Xylene		ND	2.00	ug/l
o-Xylene		ND	1.00	ug/l
Styrene		ND	1.00	ug/l
Isopropylbenzene		ND	1.00	ug/l

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240610W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Blank (BLK) (continued)

Lab Sample ID: 240610A9.BLKW10A

Run in Batch: 240610A9, Run Date: 06/10/2024 14:35, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Bromoform		ND	1.00	ug/l
1,1,2,2-Tetrachloroethane		ND	1.00	ug/l
1,2,3-Trichloropropane		ND	1.00	ug/l
n-Propylbenzene		ND	1.00	ug/l
Bromobenzene		ND	1.00	ug/l
1,3,5-Trimethylbenzene		ND	1.00	ug/l
tert-Butylbenzene		ND	1.00	ug/l
1,2,4-Trimethylbenzene		ND	1.00	ug/l
sec-Butylbenzene		ND	1.00	ug/l
p-Isopropyltoluene		ND	1.00	ug/l
1,3-Dichlorobenzene		ND	1.00	ug/l
1,4-Dichlorobenzene		ND	1.00	ug/l
1,2-Dichlorobenzene		ND	1.00	ug/l
1,2,3-Trimethylbenzene		ND	1.00	ug/l
n-Butylbenzene		ND	1.00	ug/l
Hexachloroethane		ND	1.00	ug/l
1,2-Dibromo-3-chloropropane		ND	1.00	ug/l
1,2,4-Trichlorobenzene		ND	1.00	ug/l
1,2,3-Trichlorobenzene		ND	1.00	ug/l
Naphthalene		ND	1.00	ug/l
2-Methylnaphthalene		ND	1.00	ug/l

Laboratory Control Sample (LCS)

Lab Sample ID: 240610A9.LCSW10A

Run in Batch: 240610A9, Run Date: 06/10/2024 12:59, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Diethyl ether		102.0	67.4	121.2
Acetone		83.4	29.9	161.5
Methyl iodide		113.0	68.8	116.4
Carbon disulfide		102.7	63.8	137.4
tert-Methyl butyl ether (MTBE)		106.1	73.2	122.4
Acrylonitrile		92.3	69.9	128.9
2-Butanone (MEK)		96.6	44.0	134.4
Dichlorodifluoromethane		97.0	10.0	222.8
Chloromethane		102.2	23.8	166.5
Vinyl chloride		104.7	43.5	149.1
Bromomethane		110.2	56.8	151.3
Chloroethane		105.0	53.4	149.4
Trichlorofluoromethane		100.0	59.7	151.8
1,1-Dichloroethene		96.1	69.6	139.4
Methylene chloride		102.1	73.3	121.1
trans-1,2-Dichloroethene		99.7	73.6	129.3
1,1-Dichloroethane		102.8	71.5	126.2
cis-1,2-Dichloroethene		107.8	76.6	122.1
Tetrahydrofuran		84.0	59.0	117.9
Chloroform		101.3	78.4	124.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240610W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: 240610A9.LCSW10A

Run in Batch: 240610A9, Run Date: 06/10/2024 12:59, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Bromochloromethane		112.7	78.2	120.8
1,1,1-Trichloroethane		101.6	79.4	130.9
4-Methyl-2-pentanone (MIBK)		94.3	71.6	125.2
2-Hexanone		93.8	55.4	136.9
Carbon tetrachloride		104.0	72.6	133.0
Benzene		101.8	79.9	124.9
1,2-Dichloroethane		97.0	76.0	126.3
Trichloroethene		106.7	79.7	124.2
1,2-Dichloropropane		100.4	78.6	126.4
Bromodichloromethane		107.2	80.4	128.2
Dibromomethane		109.9	76.9	122.1
cis-1,3-Dichloropropene		110.9	79.8	129.9
Toluene		103.1	79.8	124.5
trans-1,3-Dichloropropene		110.1	74.0	131.3
1,1,2-Trichloroethane		105.2	78.7	123.1
Tetrachloroethene		106.4	74.5	124.5
trans-1,4-Dichloro-2-butene		113.6	68.6	135.4
Dibromochloromethane		117.7	74.6	127.2
1,2-Dibromoethane		110.6	70.3	133.7
Chlorobenzene		112.1	79.2	122.7
1,1,1,2-Tetrachloroethane		112.0	80.3	128.2
Ethylbenzene		109.6	79.5	129.1
p,m-Xylene		111.8	79.4	132.2
o-Xylene		109.4	80.2	131.0
Styrene		114.9	69.5	126.7
Isopropylbenzene		111.7	74.4	121.5
Bromoform		116.5	69.4	128.0
1,1,2,2-Tetrachloroethane		104.0	79.8	126.3
1,2,3-Trichloropropane		103.7	78.3	138.8
n-Propylbenzene		108.8	82.0	130.7
Bromobenzene		112.3	78.7	124.6
1,3,5-Trimethylbenzene		114.2	81.3	128.9
tert-Butylbenzene		105.6	80.7	128.9
1,2,4-Trimethylbenzene		114.8	81.4	130.8
sec-Butylbenzene		103.4	77.4	129.8
p-Isopropyltoluene		108.4	79.8	137.5
1,3-Dichlorobenzene		110.3	77.0	131.3
1,4-Dichlorobenzene		110.5	20.7	137.7
1,2-Dichlorobenzene		109.9	10.0	166.2
1,2,3-Trimethylbenzene		113.6	76.3	124.2
n-Butylbenzene		108.0	80.0	133.3
Hexachloroethane		118.3	23.8	138.1
1,2-Dibromo-3-chloropropane		98.2	21.2	189.4
1,2,4-Trichlorobenzene		116.9	27.4	143.4
1,2,3-Trichlorobenzene		117.0	75.4	131.4
Naphthalene		109.9	32.9	135.8

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240610W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: 240610A9.LCSW10A

Run in Batch: 240610A9, Run Date: 06/10/2024 12:59, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
2-Methylnaphthalene		109.1	25.5	165.5

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 240610A9.LCSDW10, Parent Sample ID: 240610A9.LCSW10A

Run in Batch: 240610A9, Run Date: 06/10/2024 13:24, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Diethyl ether		102.5	67.4	121.2	0.6	30.0
Acetone		88.5	29.9	161.5	6.0	30.0
Methyl iodide		110.7	68.8	116.4	2.1	30.0
Carbon disulfide		97.6	63.8	137.4	5.1	30.0
tert-Methyl butyl ether (MTBE)		108.9	73.2	122.4	2.5	30.0
Acrylonitrile		97.3	69.9	128.9	5.2	30.0
2-Butanone (MEK)		104.8	44.0	134.4	8.1	30.0
Dichlorodifluoromethane		92.8	10.0	222.8	4.5	30.0
Chloromethane		101.3	23.8	166.5	0.9	30.0
Vinyl chloride		101.5	43.5	149.1	3.1	30.0
Bromomethane		106.4	56.8	151.3	3.4	30.0
Chloroethane		102.2	53.4	149.4	2.7	30.0
Trichlorofluoromethane		97.7	59.7	151.8	2.3	30.0
1,1-Dichloroethene		93.8	69.6	139.4	2.4	30.0
Methylene chloride		99.9	73.3	121.1	2.2	30.0
trans-1,2-Dichloroethene		96.3	73.6	129.3	3.4	30.0
1,1-Dichloroethane		99.8	71.5	126.2	2.9	30.0
cis-1,2-Dichloroethene		104.9	76.6	122.1	2.8	30.0
Tetrahydrofuran		91.5	59.0	117.9	8.6	30.0
Chloroform		98.9	78.4	124.0	2.3	30.0
Bromochloromethane		110.3	78.2	120.8	2.1	30.0
1,1,1-Trichloroethane		99.5	79.4	130.9	2.1	30.0
4-Methyl-2-pentanone (MIBK)		101.5	71.6	125.2	7.4	30.0
2-Hexanone		102.2	55.4	136.9	8.6	30.0
Carbon tetrachloride		100.0	72.6	133.0	3.9	30.0
Benzene		98.8	79.9	124.9	3.0	30.0
1,2-Dichloroethane		95.7	76.0	126.3	1.3	30.0
Trichloroethene		102.3	79.7	124.2	4.2	30.0
1,2-Dichloropropane		99.1	78.6	126.4	1.3	30.0
Bromodichloromethane		105.4	80.4	128.2	1.6	30.0
Dibromomethane		112.1	76.9	122.1	2.0	30.0
cis-1,3-Dichloropropene		108.9	79.8	129.9	1.9	30.0
Toluene		100.7	79.8	124.5	2.4	30.0
trans-1,3-Dichloropropene		109.3	74.0	131.3	0.8	30.0
1,1,2-Trichloroethane		105.8	78.7	123.1	0.5	30.0
Tetrachloroethene		104.0	74.5	124.5	2.2	30.0
trans-1,4-Dichloro-2-butene		119.8	68.6	135.4	5.3	30.0
Dibromochloromethane		119.9	74.6	127.2	1.8	30.0
1,2-Dibromoethane		113.4	70.3	133.7	2.5	30.0
Chlorobenzene		111.7	79.2	122.7	0.4	30.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240610W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample Duplicate (LCSD) (continued)

Lab Sample ID: 240610A9.LCSDW10, Parent Sample ID: 240610A9.LCSW10A

Run in Batch: 240610A9, Run Date: 06/10/2024 13:24, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
1,1,1,2-Tetrachloroethane		112.1	80.3	128.2	0.1	30.0
Ethylbenzene		109.6	79.5	129.1	0.0	30.0
p,m-Xylene		111.0	79.4	132.2	0.7	30.0
o-Xylene		109.1	80.2	131.0	0.2	30.0
Styrene		114.1	69.5	126.7	0.7	30.0
Isopropylbenzene		110.6	74.4	121.5	1.0	30.0
Bromoform		121.5	69.4	128.0	4.2	30.0
1,1,2,2-Tetrachloroethane		111.4	79.8	126.3	6.9	30.0
1,2,3-Trichloropropane		110.6	78.3	138.8	6.4	30.0
n-Propylbenzene		107.4	82.0	130.7	1.3	30.0
Bromobenzene		114.2	78.7	124.6	1.7	30.0
1,3,5-Trimethylbenzene		113.9	81.3	128.9	0.3	30.0
tert-Butylbenzene		105.0	80.7	128.9	0.6	30.0
1,2,4-Trimethylbenzene		113.2	81.4	130.8	1.4	30.0
sec-Butylbenzene		107.3	77.4	129.8	3.7	30.0
p-Isopropyltoluene		112.1	79.8	137.5	3.3	30.0
1,3-Dichlorobenzene		112.5	77.0	131.3	1.9	30.0
1,4-Dichlorobenzene		114.3	20.7	137.7	3.4	30.0
1,2-Dichlorobenzene		114.0	10.0	166.2	3.7	30.0
1,2,3-Trimethylbenzene		119.2	76.3	124.2	4.8	30.0
n-Butylbenzene		111.8	80.0	133.3	3.4	30.0
Hexachloroethane		123.5	23.8	138.1	4.3	30.0
1,2-Dibromo-3-chloropropane		111.1	21.2	189.4	12.3	30.0
1,2,4-Trichlorobenzene		123.1	27.4	143.4	5.1	30.0
1,2,3-Trichlorobenzene		124.3	75.4	131.4	6.0	30.0
Naphthalene		121.3	32.9	135.8	9.8	30.0
2-Methylnaphthalene		123.8	25.5	165.5	12.7	30.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240610W2

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: 240610A7.BLKW10A

Run in Batch: 240610A7, Run Date: 06/10/2024 15:59, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Diethyl ether		ND	1.00	ug/l
Acetone		ND	10.00	ug/l
Methyl iodide		ND	1.00	ug/l
Carbon disulfide		ND	1.00	ug/l
tert-Methyl butyl ether (MTBE)		ND	1.00	ug/l
Acrylonitrile		ND	1.00	ug/l
2-Butanone (MEK)		ND	10.00	ug/l
Dichlorodifluoromethane		ND	1.00	ug/l
Chloromethane		ND	1.00	ug/l
Vinyl chloride		ND	1.00	ug/l
Bromomethane		ND	1.00	ug/l
Chloroethane		ND	1.00	ug/l
Trichlorofluoromethane		ND	1.00	ug/l
1,1-Dichloroethene		ND	1.00	ug/l
Methylene chloride		ND	1.00	ug/l
trans-1,2-Dichloroethene		ND	1.00	ug/l
1,1-Dichloroethane		ND	1.00	ug/l
cis-1,2-Dichloroethene		ND	1.00	ug/l
Tetrahydrofuran		ND	10.00	ug/l
Chloroform		ND	1.00	ug/l
Bromochloromethane		ND	1.00	ug/l
1,1,1-Trichloroethane		ND	1.00	ug/l
4-Methyl-2-pentanone (MIBK)		ND	10.00	ug/l
2-Hexanone		ND	10.00	ug/l
Carbon tetrachloride		ND	1.00	ug/l
Benzene		ND	1.00	ug/l
1,2-Dichloroethane		ND	1.00	ug/l
Trichloroethene		ND	1.00	ug/l
1,2-Dichloropropane		ND	1.00	ug/l
Bromodichloromethane		ND	1.00	ug/l
Dibromomethane		ND	1.00	ug/l
cis-1,3-Dichloropropene		ND	1.00	ug/l
Toluene		ND	1.00	ug/l
trans-1,3-Dichloropropene		ND	1.00	ug/l
1,1,2-Trichloroethane		ND	1.00	ug/l
Tetrachloroethene		ND	1.00	ug/l
trans-1,4-Dichloro-2-butene		ND	1.00	ug/l
Dibromochloromethane		ND	1.00	ug/l
1,2-Dibromoethane		ND	1.00	ug/l
Chlorobenzene		ND	1.00	ug/l
1,1,1,2-Tetrachloroethane		ND	1.00	ug/l
Ethylbenzene		ND	1.00	ug/l
p,m-Xylene		ND	2.00	ug/l
o-Xylene		ND	1.00	ug/l
Styrene		ND	1.00	ug/l
Isopropylbenzene		ND	1.00	ug/l

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240610W2 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Blank (BLK) (continued)

Lab Sample ID: 240610A7.BLKW10A

Run in Batch: 240610A7, Run Date: 06/10/2024 15:59, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Bromoform		ND	1.00	ug/l
1,1,2,2-Tetrachloroethane		ND	1.00	ug/l
1,2,3-Trichloropropane		ND	1.00	ug/l
n-Propylbenzene		ND	1.00	ug/l
Bromobenzene		ND	1.00	ug/l
1,3,5-Trimethylbenzene		ND	1.00	ug/l
tert-Butylbenzene		ND	1.00	ug/l
1,2,4-Trimethylbenzene		ND	1.00	ug/l
sec-Butylbenzene		ND	1.00	ug/l
p-Isopropyltoluene		ND	1.00	ug/l
1,3-Dichlorobenzene		ND	1.00	ug/l
1,4-Dichlorobenzene		ND	1.00	ug/l
1,2-Dichlorobenzene		ND	1.00	ug/l
1,2,3-Trimethylbenzene		ND	1.00	ug/l
n-Butylbenzene		ND	1.00	ug/l
Hexachloroethane		ND	1.00	ug/l
1,2-Dibromo-3-chloropropane		ND	1.00	ug/l
1,2,4-Trichlorobenzene		ND	1.00	ug/l
1,2,3-Trichlorobenzene		ND	1.00	ug/l
Naphthalene		ND	1.00	ug/l
2-Methylnaphthalene		ND	1.00	ug/l

Laboratory Control Sample (LCS)

Lab Sample ID: 240610A7.LCSW10A

Run in Batch: 240610A7, Run Date: 06/10/2024 14:23, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Diethyl ether		101.2	67.4	121.2
Acetone		97.9	29.9	161.5
Methyl iodide		114.0	68.8	116.4
Carbon disulfide		108.5	63.8	137.4
tert-Methyl butyl ether (MTBE)		107.9	73.2	122.4
Acrylonitrile		109.6	69.9	128.9
2-Butanone (MEK)		102.1	44.0	134.4
Dichlorodifluoromethane		93.4	10.0	222.8
Chloromethane		101.9	23.8	166.5
Vinyl chloride		103.7	43.5	149.1
Bromomethane		117.8	56.8	151.3
Chloroethane		105.9	53.4	149.4
Trichlorofluoromethane		106.0	59.7	151.8
1,1-Dichloroethene		105.3	69.6	139.4
Methylene chloride		108.8	73.3	121.1
trans-1,2-Dichloroethene		102.8	73.6	129.3
1,1-Dichloroethane		104.7	71.5	126.2
cis-1,2-Dichloroethene		107.3	76.6	122.1
Tetrahydrofuran		91.6	59.0	117.9
Chloroform		98.0	78.4	124.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240610W2 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: 240610A7.LCSW10A

Run in Batch: 240610A7, Run Date: 06/10/2024 14:23, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Bromochloromethane		107.5	78.2	120.8
1,1,1-Trichloroethane		101.5	79.4	130.9
4-Methyl-2-pentanone (MIBK)		106.6	71.6	125.2
2-Hexanone		105.7	55.4	136.9
Carbon tetrachloride		99.7	72.6	133.0
Benzene		104.3	79.9	124.9
1,2-Dichloroethane		93.5	76.0	126.3
Trichloroethene		94.0	79.7	124.2
1,2-Dichloropropane		104.6	78.6	126.4
Bromodichloromethane		106.8	80.4	128.2
Dibromomethane		106.9	76.9	122.1
cis-1,3-Dichloropropene		114.1	79.8	129.9
Toluene		103.3	79.8	124.5
trans-1,3-Dichloropropene		114.3	74.0	131.3
1,1,2-Trichloroethane		104.4	78.7	123.1
Tetrachloroethene		104.2	74.5	124.5
trans-1,4-Dichloro-2-butene		114.1	68.6	135.4
Dibromochloromethane		114.0	74.6	127.2
1,2-Dibromoethane		108.4	70.3	133.7
Chlorobenzene		106.1	79.2	122.7
1,1,1,2-Tetrachloroethane		113.2	80.3	128.2
Ethylbenzene		105.9	79.5	129.1
p,m-Xylene		107.0	79.4	132.2
o-Xylene		105.9	80.2	131.0
Styrene		111.4	69.5	126.7
Isopropylbenzene		107.0	74.4	121.5
Bromoform		119.5	69.4	128.0
1,1,2,2-Tetrachloroethane		107.9	79.8	126.3
1,2,3-Trichloropropane		103.0	78.3	138.8
n-Propylbenzene		98.9	82.0	130.7
Bromobenzene		108.1	78.7	124.6
1,3,5-Trimethylbenzene		111.2	81.3	128.9
tert-Butylbenzene		103.9	80.7	128.9
1,2,4-Trimethylbenzene		110.6	81.4	130.8
sec-Butylbenzene		104.9	77.4	129.8
p-Isopropyltoluene		108.2	79.8	137.5
1,3-Dichlorobenzene		107.6	77.0	131.3
1,4-Dichlorobenzene		106.1	20.7	137.7
1,2-Dichlorobenzene		108.4	10.0	166.2
1,2,3-Trimethylbenzene		108.9	76.3	124.2
n-Butylbenzene		108.1	80.0	133.3
Hexachloroethane		125.9	23.8	138.1
1,2-Dibromo-3-chloropropane		99.9	21.2	189.4
1,2,4-Trichlorobenzene		122.0	27.4	143.4
1,2,3-Trichlorobenzene		122.7	75.4	131.4
Naphthalene		120.2	32.9	135.8

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240610W2 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: 240610A7.LCSW10A

Run in Batch: 240610A7, Run Date: 06/10/2024 14:23, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
2-Methylnaphthalene		117.7	25.5	165.5

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 240610A7.LCSDW10A, Parent Sample ID: 240610A7.LCSW10A

Run in Batch: 240610A7, Run Date: 06/10/2024 14:47, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Diethyl ether		92.7	67.4	121.2	8.8	30.0
Acetone		95.4	29.9	161.5	2.6	30.0
Methyl iodide		105.8	68.8	116.4	7.5	30.0
Carbon disulfide		102.5	63.8	137.4	5.7	30.0
tert-Methyl butyl ether (MTBE)		100.9	73.2	122.4	6.7	30.0
Acrylonitrile		105.5	69.9	128.9	3.8	30.0
2-Butanone (MEK)		99.3	44.0	134.4	2.9	30.0
Dichlorodifluoromethane		85.6	10.0	222.8	8.7	30.0
Chloromethane		94.9	23.8	166.5	7.1	30.0
Vinyl chloride		96.2	43.5	149.1	7.6	30.0
Bromomethane		109.0	56.8	151.3	7.8	30.0
Chloroethane		97.8	53.4	149.4	7.9	30.0
Trichlorofluoromethane		97.1	59.7	151.8	8.7	30.0
1,1-Dichloroethene		96.7	69.6	139.4	8.6	30.0
Methylene chloride		99.2	73.3	121.1	9.3	30.0
trans-1,2-Dichloroethene		97.3	73.6	129.3	5.5	30.0
1,1-Dichloroethane		96.4	71.5	126.2	8.2	30.0
cis-1,2-Dichloroethene		99.4	76.6	122.1	7.6	30.0
Tetrahydrofuran		92.3	59.0	117.9	0.7	30.0
Chloroform		90.7	78.4	124.0	7.7	30.0
Bromochloromethane		99.2	78.2	120.8	8.1	30.0
1,1,1-Trichloroethane		94.9	79.4	130.9	6.7	30.0
4-Methyl-2-pentanone (MIBK)		106.7	71.6	125.2	0.0	30.0
2-Hexanone		107.8	55.4	136.9	2.0	30.0
Carbon tetrachloride		95.1	72.6	133.0	4.8	30.0
Benzene		100.9	79.9	124.9	3.3	30.0
1,2-Dichloroethane		90.1	76.0	126.3	3.8	30.0
Trichloroethene		92.1	79.7	124.2	2.1	30.0
1,2-Dichloropropane		101.2	78.6	126.4	3.3	30.0
Bromodichloromethane		102.0	80.4	128.2	4.6	30.0
Dibromomethane		102.8	76.9	122.1	3.9	30.0
cis-1,3-Dichloropropene		108.8	79.8	129.9	4.7	30.0
Toluene		99.9	79.8	124.5	3.4	30.0
trans-1,3-Dichloropropene		108.8	74.0	131.3	4.9	30.0
1,1,2-Trichloroethane		99.7	78.7	123.1	4.6	30.0
Tetrachloroethene		100.7	74.5	124.5	3.4	30.0
trans-1,4-Dichloro-2-butene		113.8	68.6	135.4	0.3	30.0
Dibromochloromethane		108.9	74.6	127.2	4.5	30.0
1,2-Dibromoethane		105.1	70.3	133.7	3.1	30.0
Chlorobenzene		101.9	79.2	122.7	4.1	30.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240610W2 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample Duplicate (LCSD) (continued)

Lab Sample ID: 240610A7.LCSDW10A, Parent Sample ID: 240610A7.LCSW10A

Run in Batch: 240610A7, Run Date: 06/10/2024 14:47, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
1,1,1,2-Tetrachloroethane		106.8	80.3	128.2	5.9	30.0
Ethylbenzene		103.1	79.5	129.1	2.7	30.0
p,m-Xylene		104.6	79.4	132.2	2.2	30.0
o-Xylene		102.6	80.2	131.0	3.2	30.0
Styrene		107.6	69.5	126.7	3.5	30.0
Isopropylbenzene		103.7	74.4	121.5	3.1	30.0
Bromoform		115.3	69.4	128.0	3.6	30.0
1,1,2,2-Tetrachloroethane		105.5	79.8	126.3	2.3	30.0
1,2,3-Trichloropropane		101.4	78.3	138.8	1.5	30.0
n-Propylbenzene		104.5	82.0	130.7	5.4	30.0
Bromobenzene		102.4	78.7	124.6	5.4	30.0
1,3,5-Trimethylbenzene		108.1	81.3	128.9	2.8	30.0
tert-Butylbenzene		101.7	80.7	128.9	2.1	30.0
1,2,4-Trimethylbenzene		107.4	81.4	130.8	2.9	30.0
sec-Butylbenzene		105.7	77.4	129.8	0.8	30.0
p-Isopropyltoluene		108.7	79.8	137.5	0.5	30.0
1,3-Dichlorobenzene		105.6	77.0	131.3	1.9	30.0
1,4-Dichlorobenzene		105.6	20.7	137.7	0.5	30.0
1,2-Dichlorobenzene		106.2	10.0	166.2	2.1	30.0
1,2,3-Trimethylbenzene		108.7	76.3	124.2	0.2	30.0
n-Butylbenzene		108.8	80.0	133.3	0.7	30.0
Hexachloroethane		123.6	23.8	138.1	1.8	30.0
1,2-Dibromo-3-chloropropane		103.3	21.2	189.4	3.3	30.0
1,2,4-Trichlorobenzene		119.3	27.4	143.4	2.2	30.0
1,2,3-Trichlorobenzene		123.5	75.4	131.4	0.6	30.0
Naphthalene		122.7	32.9	135.8	2.0	30.0
2-Methylnaphthalene		130.1	25.5	165.5	10.0	30.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240610W3

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: 240610B9.BLKW10B

Run in Batch: 240610B9, Run Date: 06/11/2024 01:47, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Diethyl ether		ND	1.00	ug/l
Acetone		ND	10.00	ug/l
Methyl iodide		ND	1.00	ug/l
Carbon disulfide		ND	1.00	ug/l
tert-Methyl butyl ether (MTBE)		ND	1.00	ug/l
Acrylonitrile		ND	1.00	ug/l
2-Butanone (MEK)		ND	10.00	ug/l
Dichlorodifluoromethane		ND	1.00	ug/l
Chloromethane		ND	1.00	ug/l
Vinyl chloride		ND	1.00	ug/l
Bromomethane		ND	1.00	ug/l
Chloroethane		ND	1.00	ug/l
Trichlorofluoromethane		ND	1.00	ug/l
1,1-Dichloroethene		ND	1.00	ug/l
Methylene chloride		ND	1.00	ug/l
trans-1,2-Dichloroethene		ND	1.00	ug/l
1,1-Dichloroethane		ND	1.00	ug/l
cis-1,2-Dichloroethene		ND	1.00	ug/l
Tetrahydrofuran		ND	10.00	ug/l
Chloroform		ND	1.00	ug/l
Bromochloromethane		ND	1.00	ug/l
1,1,1-Trichloroethane		ND	1.00	ug/l
4-Methyl-2-pentanone (MIBK)		ND	10.00	ug/l
2-Hexanone		ND	10.00	ug/l
Carbon tetrachloride		ND	1.00	ug/l
Benzene		ND	1.00	ug/l
1,2-Dichloroethane		ND	1.00	ug/l
Trichloroethene		ND	1.00	ug/l
1,2-Dichloropropane		ND	1.00	ug/l
Bromodichloromethane		ND	1.00	ug/l
Dibromomethane		ND	1.00	ug/l
cis-1,3-Dichloropropene		ND	1.00	ug/l
Toluene		ND	1.00	ug/l
trans-1,3-Dichloropropene		ND	1.00	ug/l
1,1,2-Trichloroethane		ND	1.00	ug/l
Tetrachloroethene		ND	1.00	ug/l
trans-1,4-Dichloro-2-butene		ND	1.00	ug/l
Dibromochloromethane		ND	1.00	ug/l
1,2-Dibromoethane		ND	1.00	ug/l
Chlorobenzene		ND	1.00	ug/l
1,1,1,2-Tetrachloroethane		ND	1.00	ug/l
Ethylbenzene		ND	1.00	ug/l
p,m-Xylene		ND	2.00	ug/l
o-Xylene		ND	1.00	ug/l
Styrene		ND	1.00	ug/l
Isopropylbenzene		ND	1.00	ug/l

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240610W3 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Blank (BLK) (continued)

Lab Sample ID: 240610B9.BLKW10B

Run in Batch: 240610B9, Run Date: 06/11/2024 01:47, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Bromoform		ND	1.00	ug/l
1,1,2,2-Tetrachloroethane		ND	1.00	ug/l
1,2,3-Trichloropropane		ND	1.00	ug/l
n-Propylbenzene		ND	1.00	ug/l
Bromobenzene		ND	1.00	ug/l
1,3,5-Trimethylbenzene		ND	1.00	ug/l
tert-Butylbenzene		ND	1.00	ug/l
1,2,4-Trimethylbenzene		ND	1.00	ug/l
sec-Butylbenzene		ND	1.00	ug/l
p-Isopropyltoluene		ND	1.00	ug/l
1,3-Dichlorobenzene		ND	1.00	ug/l
1,4-Dichlorobenzene		ND	1.00	ug/l
1,2-Dichlorobenzene		ND	1.00	ug/l
1,2,3-Trimethylbenzene		ND	1.00	ug/l
n-Butylbenzene		ND	1.00	ug/l
Hexachloroethane		ND	1.00	ug/l
1,2-Dibromo-3-chloropropane		ND	1.00	ug/l
1,2,4-Trichlorobenzene		ND	1.00	ug/l
1,2,3-Trichlorobenzene		ND	1.00	ug/l
Naphthalene		ND	1.00	ug/l
2-Methylnaphthalene		ND	1.00	ug/l

Laboratory Control Sample (LCS)

Lab Sample ID: 240610B9.LCSW10B

Run in Batch: 240610B9, Run Date: 06/11/2024 00:12, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Diethyl ether		112.7	67.4	121.2
Acetone		102.0	29.9	161.5
Methyl iodide	*	119.6	68.8	116.4
Carbon disulfide		106.0	63.8	137.4
tert-Methyl butyl ether (MTBE)		118.8	73.2	122.4
Acrylonitrile		105.1	69.9	128.9
2-Butanone (MEK)		111.8	44.0	134.4
Dichlorodifluoromethane		97.8	10.0	222.8
Chloromethane		112.9	23.8	166.5
Vinyl chloride		111.9	43.5	149.1
Bromomethane		117.3	56.8	151.3
Chloroethane		113.9	53.4	149.4
Trichlorofluoromethane		108.3	59.7	151.8
1,1-Dichloroethene		101.7	69.6	139.4
Methylene chloride		109.7	73.3	121.1
trans-1,2-Dichloroethene		105.5	73.6	129.3
1,1-Dichloroethane		110.0	71.5	126.2
cis-1,2-Dichloroethene		115.9	76.6	122.1
Tetrahydrofuran		101.4	59.0	117.9
Chloroform		108.5	78.4	124.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240610W3 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: 240610B9.LCSW10B

Run in Batch: 240610B9, Run Date: 06/11/2024 00:12, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Bromochloromethane		119.8	78.2	120.8
1,1,1-Trichloroethane		107.4	79.4	130.9
4-Methyl-2-pentanone (MIBK)		109.4	71.6	125.2
2-Hexanone		108.0	55.4	136.9
Carbon tetrachloride		107.2	72.6	133.0
Benzene		108.6	79.9	124.9
1,2-Dichloroethane		105.1	76.0	126.3
Trichloroethene		110.8	79.7	124.2
1,2-Dichloropropane		106.9	78.6	126.4
Bromodichloromethane		114.5	80.4	128.2
Dibromomethane		119.3	76.9	122.1
cis-1,3-Dichloropropene		113.0	79.8	129.9
Toluene		107.8	79.8	124.5
trans-1,3-Dichloropropene		114.0	74.0	131.3
1,1,2-Trichloroethane		114.3	78.7	123.1
Tetrachloroethene		111.2	74.5	124.5
trans-1,4-Dichloro-2-butene		94.1	68.6	135.4
Dibromochloromethane		124.3	74.6	127.2
1,2-Dibromoethane		117.8	70.3	133.7
Chlorobenzene		117.6	79.2	122.7
1,1,1,2-Tetrachloroethane		118.4	80.3	128.2
Ethylbenzene		115.7	79.5	129.1
p,m-Xylene		116.5	79.4	132.2
o-Xylene		113.0	80.2	131.0
Styrene		121.0	69.5	126.7
Isopropylbenzene		115.1	74.4	121.5
Bromoform		123.8	69.4	128.0
1,1,2,2-Tetrachloroethane		115.5	79.8	126.3
1,2,3-Trichloropropane		113.9	78.3	138.8
n-Propylbenzene		112.5	82.0	130.7
Bromobenzene		117.7	78.7	124.6
1,3,5-Trimethylbenzene		117.5	81.3	128.9
tert-Butylbenzene		110.4	80.7	128.9
1,2,4-Trimethylbenzene		118.3	81.4	130.8
sec-Butylbenzene		107.9	77.4	129.8
p-Isopropyltoluene		112.7	79.8	137.5
1,3-Dichlorobenzene		114.3	77.0	131.3
1,4-Dichlorobenzene		116.3	20.7	137.7
1,2-Dichlorobenzene		116.8	10.0	166.2
1,2,3-Trimethylbenzene		121.8	76.3	124.2
n-Butylbenzene		110.1	80.0	133.3
Hexachloroethane		121.8	23.8	138.1
1,2-Dibromo-3-chloropropane		111.7	21.2	189.4
1,2,4-Trichlorobenzene		123.2	27.4	143.4
1,2,3-Trichlorobenzene		125.7	75.4	131.4
Naphthalene		125.2	32.9	135.8

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240610W3 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: 240610B9.LCSW10B

Run in Batch: 240610B9, Run Date: 06/11/2024 00:12, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
2-Methylnaphthalene		129.1	25.5	165.5

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 240610B9.LCSDW10B, Parent Sample ID: 240610B9.LCSW10B

Run in Batch: 240610B9, Run Date: 06/11/2024 00:35, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Diethyl ether		97.2	67.4	121.2	14.7	30.0
Acetone		88.5	29.9	161.5	14.3	30.0
Methyl iodide		104.9	68.8	116.4	13.1	30.0
Carbon disulfide		94.1	63.8	137.4	11.9	30.0
tert-Methyl butyl ether (MTBE)		103.4	73.2	122.4	13.9	30.0
Acrylonitrile		92.4	69.9	128.9	12.8	30.0
2-Butanone (MEK)		98.1	44.0	134.4	13.0	30.0
Dichlorodifluoromethane		85.8	10.0	222.8	13.0	30.0
Chloromethane		100.5	23.8	166.5	11.7	30.0
Vinyl chloride		98.3	43.5	149.1	12.9	30.0
Bromomethane		104.4	56.8	151.3	11.6	30.0
Chloroethane		100.6	53.4	149.4	12.4	30.0
Trichlorofluoromethane		93.3	59.7	151.8	14.8	30.0
1,1-Dichloroethene		89.8	69.6	139.4	12.5	30.0
Methylene chloride		96.2	73.3	121.1	13.1	30.0
trans-1,2-Dichloroethene		94.1	73.6	129.3	11.5	30.0
1,1-Dichloroethane		97.2	71.5	126.2	12.3	30.0
cis-1,2-Dichloroethene		100.8	76.6	122.1	13.9	30.0
Tetrahydrofuran		91.4	59.0	117.9	10.4	30.0
Chloroform		95.2	78.4	124.0	13.0	30.0
Bromochloromethane		103.8	78.2	120.8	14.3	30.0
1,1,1-Trichloroethane		94.5	79.4	130.9	12.8	30.0
4-Methyl-2-pentanone (MIBK)		96.3	71.6	125.2	12.7	30.0
2-Hexanone		98.5	55.4	136.9	9.2	30.0
Carbon tetrachloride		94.8	72.6	133.0	12.3	30.0
Benzene		95.6	79.9	124.9	12.7	30.0
1,2-Dichloroethane		91.6	76.0	126.3	13.7	30.0
Trichloroethene		99.1	79.7	124.2	11.2	30.0
1,2-Dichloropropane		94.4	78.6	126.4	12.4	30.0
Bromodichloromethane		100.5	80.4	128.2	13.0	30.0
Dibromomethane		105.9	76.9	122.1	11.9	30.0
cis-1,3-Dichloropropene		99.8	79.8	129.9	12.4	30.0
Toluene		96.0	79.8	124.5	11.5	30.0
trans-1,3-Dichloropropene		99.4	74.0	131.3	13.7	30.0
1,1,2-Trichloroethane		100.7	78.7	123.1	12.7	30.0
Tetrachloroethene		98.5	74.5	124.5	12.0	30.0
trans-1,4-Dichloro-2-butene		85.0	68.6	135.4	10.1	30.0
Dibromochloromethane		113.6	74.6	127.2	8.9	30.0
1,2-Dibromoethane		108.5	70.3	133.7	8.2	30.0
Chlorobenzene		107.5	79.2	122.7	9.0	30.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240610W3 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample Duplicate (LCSD) (continued)

Lab Sample ID: 240610B9.LCSDW10B, Parent Sample ID: 240610B9.LCSW10B

Run in Batch: 240610B9, Run Date: 06/11/2024 00:35, Prep Date: 06/10/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
1,1,1,2-Tetrachloroethane		106.8	80.3	128.2	10.3	30.0
Ethylbenzene		105.6	79.5	129.1	9.1	30.0
p,m-Xylene		106.1	79.4	132.2	9.4	30.0
o-Xylene		104.8	80.2	131.0	7.6	30.0
Styrene		109.9	69.5	126.7	9.6	30.0
Isopropylbenzene		106.7	74.4	121.5	7.6	30.0
Bromoform		112.2	69.4	128.0	9.9	30.0
1,1,2,2-Tetrachloroethane		107.2	79.8	126.3	7.5	30.0
1,2,3-Trichloropropane		103.6	78.3	138.8	9.5	30.0
n-Propylbenzene		104.1	82.0	130.7	7.7	30.0
Bromobenzene		107.3	78.7	124.6	9.3	30.0
1,3,5-Trimethylbenzene		108.4	81.3	128.9	8.0	30.0
tert-Butylbenzene		100.6	80.7	128.9	9.2	30.0
1,2,4-Trimethylbenzene		106.4	81.4	130.8	10.6	30.0
sec-Butylbenzene		102.9	77.4	129.8	4.7	30.0
p-Isopropyltoluene		106.4	79.8	137.5	5.7	30.0
1,3-Dichlorobenzene		106.2	77.0	131.3	7.3	30.0
1,4-Dichlorobenzene		108.3	20.7	137.7	7.1	30.0
1,2-Dichlorobenzene		106.7	10.0	166.2	9.0	30.0
1,2,3-Trimethylbenzene		112.9	76.3	124.2	7.7	30.0
n-Butylbenzene		106.1	80.0	133.3	3.8	30.0
Hexachloroethane		115.0	23.8	138.1	5.8	30.0
1,2-Dibromo-3-chloropropane		106.1	21.2	189.4	5.1	30.0
1,2,4-Trichlorobenzene		113.8	27.4	143.4	7.9	30.0
1,2,3-Trichlorobenzene		115.8	75.4	131.4	8.2	30.0
Naphthalene		116.0	32.9	135.8	7.6	30.0
2-Methylnaphthalene		117.2	25.5	165.5	9.7	30.0



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C.O.C. PAGE # _____ OF _____

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

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 CITY East Lansing STATE MI ZIP CODE 48823
 PHONE NO. 517-332-0167 FAX NO. P.O. NO.
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CONTACT NAME Julie Teague SAME
 COMPANY Merit Laboratories
 ADDRESS 2680 East Lansing Drive
 CITY East Lansing STATE MI ZIP CODE 48823
 PHONE NO. 517-332-0167 E-MAIL ADDRESS juliet@meritlabs.com

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME S62916 SAMPLER(S) - PLEASE PRINT/SIGN NAME
 TURNAROUND TIME REQUIRED 1 DAY 2 DAYS 3 DAYS STANDARD OTHER
 DELIVERABLES REQUIRED STD LEVEL II LEVEL III LEVEL IV EDD OTHER

MATRIX GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 CODE: SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIFE A=AIR W=WASTE

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	TOX	Certifications		Project Locations		Special Instructions
	DATE	TIME												<input type="checkbox"/> OHIO VAP	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> DoD	<input type="checkbox"/> NPDES	
	6/4/24	1520	S62916.01	GW	1				1				✓					
	6/5/24	1230	S62916.02	GW	1				1				✓					
	6/5/24	1416	S62916.03	GW	1				1				✓					
	6/5/24	1430	S62916.04	GW	1				1				✓					
	6/6/24	1018	S62916.05	GW	1				1				✓					
	6/6/24	1045	S62916.06	GW	1				1				✓					
	6/6/24	1125	S62916.07	GW	1				1				✓					
	6/6/24	1255	S62916.08	GW	1				1				✓					(Ship on ice)
	6/6/24	1245	S62916.09	GW	1				1				✓					Subcontracted to
	6/6/24	1340	S62916.10	GW	1				1				✓					GEL
																		2040 Savage Road
																		Charleston, SC 29407

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE TIME
 RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME
 RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE TIME
 RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE TIME
 RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME
 SEAL NO. SEAL INTACT INITIALS NOTES: TEMP. ON ARRIVAL
 YES NO
 SEAL NO. SEAL INTACT INITIALS
 YES NO

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



ANALYTICAL REPORT

PREPARED FOR

Attn: Lab Results
Merit Laboratories
2680 E Lansing Drive
East Lansing, Michigan 48823

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JOB DESCRIPTION

Merit Laboratories S62916

JOB NUMBER

190-34593-1


Eurofins Michigan

Job Notes

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Authorized for release by
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Sample Summary

Client: Merit Laboratories
Project/Site: Merit Laboratories S62916

Job ID: 190-34593-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
190-34593-1	S62916.01	Water	06/04/24 15:20	06/11/24 08:32
190-34593-2	S62916.02	Water	06/05/24 12:30	06/11/24 08:32
190-34593-3	S62916.03	Water	06/05/24 14:16	06/11/24 08:32
190-34593-4	S62916.04	Water	06/05/24 14:30	06/11/24 08:32
190-34593-5	S62916.05	Water	06/06/24 10:18	06/11/24 08:32
190-34593-6	S62916.06	Water	06/06/24 10:45	06/11/24 08:32
190-34593-7	S62916.07	Water	06/06/24 11:25	06/11/24 08:32
190-34593-8	S62916.08	Water	06/06/24 12:55	06/11/24 08:32
190-34593-9	S62916.09	Water	06/06/24 12:45	06/11/24 08:32
190-34593-10	S62916.10	Water	06/06/24 13:40	06/11/24 08:32

- 1
- 2
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- 10
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- 12

Case Narrative

Client: Merit Laboratories
Project: Merit Laboratories S62916

Job ID: 190-34593-1

Job ID: 190-34593-1

Eurofins Michigan

Job Narrative 190-34593-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/11/2024 8:32 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.8°C.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Michigan

Client Sample Results

Client: Merit Laboratories
Project/Site: Merit Laboratories S62916

Job ID: 190-34593-1

Client Sample ID: S62916.01

Lab Sample ID: 190-34593-1

Date Collected: 06/04/24 15:20

Matrix: Water

Date Received: 06/11/24 08:32

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C-2011)	1.1		1.0	mg/L			06/20/24 19:03	1

Client Sample ID: S62916.02

Lab Sample ID: 190-34593-2

Date Collected: 06/05/24 12:30

Matrix: Water

Date Received: 06/11/24 08:32

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C-2011)	<1.0		1.0	mg/L			06/20/24 19:27	1

Client Sample ID: S62916.03

Lab Sample ID: 190-34593-3

Date Collected: 06/05/24 14:16

Matrix: Water

Date Received: 06/11/24 08:32

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C-2011)	2.7		1.0	mg/L			06/20/24 20:39	1

Client Sample ID: S62916.04

Lab Sample ID: 190-34593-4

Date Collected: 06/05/24 14:30

Matrix: Water

Date Received: 06/11/24 08:32

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C-2011)	<1.0		1.0	mg/L			06/20/24 21:03	1

Client Sample ID: S62916.05

Lab Sample ID: 190-34593-5

Date Collected: 06/06/24 10:18

Matrix: Water

Date Received: 06/11/24 08:32

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C-2011)	1.2		1.0	mg/L			06/20/24 21:26	1

Client Sample ID: S62916.06

Lab Sample ID: 190-34593-6

Date Collected: 06/06/24 10:45

Matrix: Water

Date Received: 06/11/24 08:32

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C-2011)	1.0		1.0	mg/L			06/20/24 21:50	1

Client Sample Results

Client: Merit Laboratories
Project/Site: Merit Laboratories S62916

Job ID: 190-34593-1

Client Sample ID: S62916.07

Lab Sample ID: 190-34593-7

Date Collected: 06/06/24 11:25

Matrix: Water

Date Received: 06/11/24 08:32

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C-2011)	4.3		1.0	mg/L			06/20/24 22:14	1

Client Sample ID: S62916.08

Lab Sample ID: 190-34593-8

Date Collected: 06/06/24 12:55

Matrix: Water

Date Received: 06/11/24 08:32

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C-2011)	<1.0		1.0	mg/L			06/21/24 01:25	1

Client Sample ID: S62916.09

Lab Sample ID: 190-34593-9

Date Collected: 06/06/24 12:45

Matrix: Water

Date Received: 06/11/24 08:32

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C-2011)	<1.0		1.0	mg/L			06/21/24 00:14	1

Client Sample ID: S62916.10

Lab Sample ID: 190-34593-10

Date Collected: 06/06/24 13:40

Matrix: Water

Date Received: 06/11/24 08:32

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C-2011)	1.1		1.0	mg/L			06/21/24 01:49	1

QC Sample Results

Client: Merit Laboratories
 Project/Site: Merit Laboratories S62916

Job ID: 190-34593-1

Method: 5310C-2011 - Total Organic Carbon/Persulfate - Ultrav

Lab Sample ID: MB 240-617468/5
Matrix: Water
Analysis Batch: 617468

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.0		1.0	mg/L			06/20/24 16:16	1

Lab Sample ID: LCS 240-617468/21
Matrix: Water
Analysis Batch: 617468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	16.3	16.0		mg/L		99	85 - 115
TOC Result 1	16.3	15.9		mg/L		98	85 - 115
TOC Result 2	16.3	16.2		mg/L		99	85 - 115

Lab Sample ID: LCS 240-617468/6
Matrix: Water
Analysis Batch: 617468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	16.3	16.4		mg/L		101	85 - 115
TOC Result 1	16.3	16.4		mg/L		101	85 - 115
TOC Result 2	16.3	16.6		mg/L		102	85 - 115

Definitions/Glossary

Client: Merit Laboratories
Project/Site: Merit Laboratories S62916

Job ID: 190-34593-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Merit Laboratories
Project/Site: Merit Laboratories S62916

Job ID: 190-34593-1

General Chemistry

Analysis Batch: 617468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
190-34593-1	S62916.01	Total/NA	Water	5310C-2011	
190-34593-2	S62916.02	Total/NA	Water	5310C-2011	
190-34593-3	S62916.03	Total/NA	Water	5310C-2011	
190-34593-4	S62916.04	Total/NA	Water	5310C-2011	
190-34593-5	S62916.05	Total/NA	Water	5310C-2011	
190-34593-6	S62916.06	Total/NA	Water	5310C-2011	
190-34593-7	S62916.07	Total/NA	Water	5310C-2011	
190-34593-8	S62916.08	Total/NA	Water	5310C-2011	
190-34593-9	S62916.09	Total/NA	Water	5310C-2011	
190-34593-10	S62916.10	Total/NA	Water	5310C-2011	
MB 240-617468/5	Method Blank	Total/NA	Water	5310C-2011	
LCS 240-617468/21	Lab Control Sample	Total/NA	Water	5310C-2011	
LCS 240-617468/6	Lab Control Sample	Total/NA	Water	5310C-2011	

Lab Chronicle

Client: Merit Laboratories
Project/Site: Merit Laboratories S62916

Job ID: 190-34593-1

Client Sample ID: S62916.01

Lab Sample ID: 190-34593-1

Date Collected: 06/04/24 15:20

Matrix: Water

Date Received: 06/11/24 08:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	5310C-2011		1	617468	QUY8	EET CLE	06/20/24 19:03

Client Sample ID: S62916.02

Lab Sample ID: 190-34593-2

Date Collected: 06/05/24 12:30

Matrix: Water

Date Received: 06/11/24 08:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	5310C-2011		1	617468	QUY8	EET CLE	06/20/24 19:27

Client Sample ID: S62916.03

Lab Sample ID: 190-34593-3

Date Collected: 06/05/24 14:16

Matrix: Water

Date Received: 06/11/24 08:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	5310C-2011		1	617468	QUY8	EET CLE	06/20/24 20:39

Client Sample ID: S62916.04

Lab Sample ID: 190-34593-4

Date Collected: 06/05/24 14:30

Matrix: Water

Date Received: 06/11/24 08:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	5310C-2011		1	617468	QUY8	EET CLE	06/20/24 21:03

Client Sample ID: S62916.05

Lab Sample ID: 190-34593-5

Date Collected: 06/06/24 10:18

Matrix: Water

Date Received: 06/11/24 08:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	5310C-2011		1	617468	QUY8	EET CLE	06/20/24 21:26

Client Sample ID: S62916.06

Lab Sample ID: 190-34593-6

Date Collected: 06/06/24 10:45

Matrix: Water

Date Received: 06/11/24 08:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	5310C-2011		1	617468	QUY8	EET CLE	06/20/24 21:50

Client Sample ID: S62916.07

Lab Sample ID: 190-34593-7

Date Collected: 06/06/24 11:25

Matrix: Water

Date Received: 06/11/24 08:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	5310C-2011		1	617468	QUY8	EET CLE	06/20/24 22:14

Lab Chronicle

Client: Merit Laboratories
Project/Site: Merit Laboratories S62916

Job ID: 190-34593-1

Client Sample ID: S62916.08

Lab Sample ID: 190-34593-8

Date Collected: 06/06/24 12:55

Matrix: Water

Date Received: 06/11/24 08:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	5310C-2011		1	617468	QUY8	EET CLE	06/21/24 01:25

Client Sample ID: S62916.09

Lab Sample ID: 190-34593-9

Date Collected: 06/06/24 12:45

Matrix: Water

Date Received: 06/11/24 08:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	5310C-2011		1	617468	QUY8	EET CLE	06/21/24 00:14

Client Sample ID: S62916.10

Lab Sample ID: 190-34593-10

Date Collected: 06/06/24 13:40

Matrix: Water

Date Received: 06/11/24 08:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	5310C-2011		1	617468	QUY8	EET CLE	06/21/24 01:49

Client Sample ID: Method Blank

Lab Sample ID: MB 240-617468/5

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	5310C-2011		1	617468	QUY8	EET CLE	06/20/24 16:16

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 240-617468/21

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	5310C-2011		1	617468	QUY8	EET CLE	06/20/24 22:38

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 240-617468/6

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	5310C-2011		1	617468	QUY8	EET CLE	06/20/24 16:40

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Analyst References:

Lab: EET CLE

Batch Type: Analysis

QUY8 = Colin Frimel

Eurofins Michigan

Accreditation/Certification Summary

Client: Merit Laboratories
Project/Site: Merit Laboratories S62916

Job ID: 190-34593-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	06-30-24
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

Method Summary

Client: Merit Laboratories
Project/Site: Merit Laboratories S62916

Job ID: 190-34593-1

Method	Method Description	Protocol	Laboratory
5310C-2011	Total Organic Carbon/Persulfate - Ultrav	SM	EET CLE

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396





2680 East Lansing Dr., East Lansing, MI 48823
 Phone (517) 332-0167 Fax (517) 332-4034
 www.meritlabs.com

Temp: 6.8°C

C.O.C. PAGE # _____ OF _____

REPORT TO **CHAIN OF CUSTODY RECORD** **INVOICE TO**

CONTACT NAME **Project Management Team**
 COMPANY **Merit Laboratories**
 ADDRESS **2680 East Lansing Drive**
 CITY **East Lansing** STATE **MI** ZIP CODE **48823**
 PHONE NO. **517-332-0167** FAX NO. _____ P.O. NO. _____
 E-MAIL ADDRESS **results@meritlabs.com** QUOTE NO. _____

CONTACT NAME **Julie Teague** SAME
 COMPANY **Merit Laboratories**
 ADDRESS **2680 East Lansing Drive**
 CITY **East Lansing** STATE **MI** ZIP CODE **48823**
 PHONE NO. **517-332-0167** E-MAIL ADDRESS **juliet@meritlabs.com**

PROJECT NO./NAME **S62916** SAMPLER(S) - PLEASE PRINT/SIGN NAME _____
 TURNAROUND TIME REQUIRED 1 DAY 2 DAYS 3 DAYS STANDARD OTHER _____
 DELIVERABLES REQUIRED STD LEVEL II LEVEL III LEVEL IV EDD OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE


MERIT LAB NO. <small>FOR LAB USE ONLY</small>	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives							TOC
	DATE	TIME				NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	
	6/4/24	1520	S62916.01	GW	2								✓
	6/5/24	1230	S62916.02	GW	1								✓
	6/5/24	1416	S62916.03	GW	1								✓
	6/5/24	1430	S62916.04	GW	1								✓
	6/6/24	1018	S62916.05	GW	1								✓
	6/6/24	1045	S62916.06	GW	1								✓
	6/6/24	1125	S62916.07	GW	1								✓
	6/6/24	1255	S62916.08	GW	1								✓
	6/6/24	1245	S62916.09	GW	1								✓
	6/6/24	1340	S62916.10	GW	1								✓

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
 OHIO VAP Drinking Water
 DoD NPDES

Project Locations
 Detroit New York
 Other _____

Special Instructions
Method SM5310C



190-34593 Chain of Custody

(on ice)

Subcontracted to
Eurofins

RELINQUISHED BY: _____ DATE _____ TIME _____
 SIGNATURE/ORGANIZATION _____
 RECEIVED BY: _____ DATE _____ TIME _____
 SIGNATURE/ORGANIZATION _____

RELINQUISHED BY: _____ DATE **6/10/24** TIME **1640**
 SIGNATURE/ORGANIZATION _____
 RECEIVED BY: _____ DATE **6/10/24** TIME **1640**
 SIGNATURE/ORGANIZATION _____

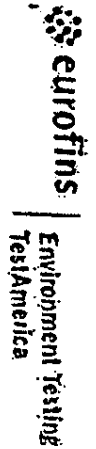
RELINQUISHED BY: _____ DATE **6/10/24** TIME **0900**
 SIGNATURE/ORGANIZATION _____
 RECEIVED BY: _____ DATE _____ TIME _____
 SIGNATURE/ORGANIZATION _____

SEAL NO. _____ SEAL INTACT YES NO INITIALS _____
 SEAL NO. _____ SEAL INTACT YES NO INITIALS _____

NOTES: TEMP. ON ARRIVAL _____

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12



SDS or Known Hazard Information Supplied by Client
 Discrepancies
 Short Hold
 Rush 24 Hr 2-Day 3-Day 5-Day Other: _____
 Receipt Evaluation Performed by: Initials: _____ Date: _____ Time: _____

Client ID: _____
 Work Order #: _____
 Cooler / Sample Receipt
 After hours receipt: complete gray areas. Place cooler in walk-in, place form in Receiving box. Date: _____ Time: _____

Method of Shipment: Walk-In Client Eurofins TA Field/Courier
 Other Client / 3rd Party Courier: _____
 Fed Ex Tracking #: _____
 UPS Tracking #: _____
 Other: _____

Shipping Container Type: Cooler Box
 None Other: _____
 Custody Seals Intact: Yes No
 NA (not used or required)

Packing Materials: Plastic Bags Foam
 Bubble Wrap Paper
 Packing Peanuts None
 Cooling Materials: Ice (Solid) Ice (Melted)
 Blue Ice None
 Other: _____

Bacteriological Samples	Temp Corrected (°C)	Frozen?	Rec'd Within 2 Hrs?	Sample Flagged?
		Yes No	Yes No	Yes No

Received on same day sampled? Yes No Additional Sheets Required? Yes No

Receipt Temperatures
 Thermometer ID Observed (°C) Corrected (°C) Temp Blank Sample Temp Acceptable Cooler ID Affected Samples
 CP313204 6.8°C _____ _____ _____ Y N _____
 _____ _____ _____ _____ _____ Y N _____
 _____ _____ _____ _____ _____ Y N _____
 _____ _____ _____ _____ _____ Y N _____

Receipt Questions**	Y	N	NA	"No" answers require additional comment
CoC present and ETA receipt signature, date, and time properly documented?				
Containers and Labels in good condition? (unbroken, not leaking, appropriately filled, labels legible & attached)				Preserved bottles checked for pH? Yes No
Appropriate containers used and adequate volume provided?				pH strip lot # _____
Number of sample containers match CoC?				
Samples received within hold?				
Samples submitted for GRO and Volatiles analysis (8260, 624, 524) received without headspace?				
Was a Trip Blank received with VOA samples?				
Were the samples free of any questionable physical conformities? (i.e.: field duplicates or multiple bottles of the same sample do not significantly vary in appearance - color, solid proportions, etc.)				
Were the CoC bottle labels and all other items free of all other discrepancies or issues that would need to be addressed with the Project Manager and/or Client?				
**May not be applicable if samples are not for compliance testing				*Excludes FOG, VOAS, TOC Vials, HEM

Client Contact Record
 Contact Via: Phone Email Other: _____ Person Contacted: _____ Date/Time: _____
 Discrepancy allowance agreement is on record in the client project file
 Discussion / Resolution _____

Any additional documentation and clarification from the client must be noted in the narrative and/or scanned into the CoC directory.
 Reviewed by _____ Date: _____
 WI-MI-010_020720

Eurofins Michigan

4435 Citation Drive Suite 200
 Brighton MI 48116
 Phone: 810-229-2763 Fax: 810-229-0000

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler		Lab PM: Schafer Sue		Carrier Tracking No(s):		COC No: 190-39372.1	
Client Contact: Shipping/Receiving		Phone:		E-Mail: Sue.Schafer@et.eurofinsus.com		State of Origin: Michigan		Page: Page 1 of 2	
Company: Eurofins Environment Testing North Centr		Address: 180 S. Van Buren Avenue, City: Barberton State, Zip: OH, 44203 Phone: 330-497-9396(Tel) 330-497-0772(Fax) Email:		Due Date Requested: 6/24/2024 TAT Requested (days):		Accreditations Required (See note):		Job #: 190-34593-1	
Project Name: Merit Laboratories S62916 Site:		Project #: 19001249 SSOW#:		Analysis Requested		Preservation Codes:		Other:	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=water/soil, BT=Tissue, A=Air)	
								Field Filtered Sample (Yes or No)	
								Perform MS/MSD (Yes or No)	
								5310CF TOC	
								Total Number of Containers	
								R004 Special Instructions/Note	
								Preservation Code:	
S62916.01 (190-34593-1)		6/4/24		15:20 Eastern		Water		X	
S62916.02 (190-34593-2)		6/5/24		12:30 Eastern		Water		X	
S62916.03 (190-34593-3)		6/5/24		14:16 Eastern		Water		X	
S62916.04 (190-34593-4)		6/5/24		14:30 Eastern		Water		X	
S62916.05 (190-34593-5)		6/6/24		10:18 Eastern		Water		X	
S62916.06 (190-34593-6)		6/6/24		10:45 Eastern		Water		X	
S62916.07 (190-34593-7)		6/6/24		11:25 Eastern		Water		X	
S62916.08 (190-34593-8)		6/6/24		12:55 Eastern		Water		X	
S62916.09 (190-34593-9)		6/6/24		12:45 Eastern		Water		X	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.</p>									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV Other (specify)					Primary Deliverable Rank. 2				
Special Instructions/QC Requirements.									
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <i>Wally Mc</i>		Date/Time: 6/11/24 1700		Company: EENA		Received: MALISSA LOAR		Date/Time: 10-12-24 8 AM	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.		Page 17 of 19		Cooler Temperature(s) °C and Other Remarks:		6/21/2024	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Eurofins - Cleveland Sample Receipt Form/Narrative Login # : _____

Barberton Facility

Client CRP MVA Site Name _____ Cooler unpacked by: MALISSA LOAR

Cooler Received on 10-12-24 Opened on 10-12-24

FedEx: 1st Grd Exp UPS FAG Waypoint Client Drop Off _____ Eurofins Courier _____ Other _____

Receipt After-hours, Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # 2 Foam Box _____ Client Cooler _____ Box _____ Other _____

Packing material used Bubble Wrap Foam _____ Plastic Bag _____ None (None) Other _____

COOLANT- Wet Ice _____ Blue Ice _____ Dry Ice _____ Water _____ See Multiple Cooler Form

1 Cooler temperature upon receipt _____ IR GUN # 17 (CF10, 20) Observed Cooler Temp. 11.6 °C Corrected Cooler Temp. 11.8 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No NA

-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA

-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA

-Were tamper/custody seals intact and uncompromised? Yes No NA

3 Shippers' packing slip attached to the cooler(s)? Yes No NA

4. Did custody papers accompany the sample(s)? Yes No NA

5 Were the custody papers relinquished & signed in the appropriate place? Yes No NA

6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No NA

7 Did all bottles arrive in good condition (Unbroken)? Yes No NA

8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No NA

9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No NA

10 Were correct bottle(s) used for the test(s) indicated? Yes No NA

11 Sufficient quantity received to perform indicated analyses? Yes No NA

12 Are these work share samples and all listed on the COC? Yes No NA

If yes, Questions 13-17 have been checked at the originating laboratory

13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HCC339814

14 Were VOAs on the COC? Yes No NA

15 Were air bubbles >6 mm in any VOA vials? Yes No NA Larger than this.

16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No NA

17 Was a LL Hg or Me Hg trip blank present? Yes No NA

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19 SAMPLE CONDITION _____ were received after the recommended holding time had expired

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION _____ were further preserved in the laboratory

Sample(s) _____ were further preserved in the laboratory

Time preserved _____ Preservative(s) added/Lot number(s) _____

VOA Sample Preservation - Date/Time VOAs Frozen _____

June 27, 2024

John Laverty
Merit Laboratories Inc.
2680 East Lansing Drive
East Lansing, Michigan 48823

Re: Halogen Analysis
Work Order: 671085
SDG: S62916

Dear John Laverty:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 11, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 1614.

Sincerely,

Abigail Martin for
Delaney Stonesmith
Project Manager

Purchase Order: GELP20-0014
Enclosures

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

MERI001 Merit Laboratories, Inc.

Client SDG: S62916 GEL Work Order: 671085

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Delaney Stonesmith.

Reviewed by _____

Angel Minter

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 27, 2024

Company : Merit Laboratories Inc.
Address : 2680 East Lansing Drive

East Lansing, Michigan 48823

Contact: John Lavery
Project: Halogen Analysis

Client Sample ID:	S62916.01	Project:	MERI00220
Sample ID:	671085001	Client ID:	MERI001
Matrix:	Ground Water		
Collect Date:	04-JUN-24 15:20		
Receive Date:	11-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis												
SW9020B TOX (Organic Halogen) "As Received"												
Total Organic Halogens	U	ND	3.33	10.0	ug/L		1	JS13	06/27/24	0035	2632233	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9020B		

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 27, 2024

Company : Merit Laboratories Inc.
Address : 2680 East Lansing Drive

East Lansing, Michigan 48823

Contact: John Lavery
Project: Halogen Analysis

Client Sample ID:	S62916.02	Project:	MERI00220
Sample ID:	671085002	Client ID:	MERI001
Matrix:	Ground Water		
Collect Date:	05-JUN-24 12:30		
Receive Date:	11-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis												
SW9020B TOX (Organic Halogen) "As Received"												
Total Organic Halogens	U	ND	3.33	10.0	ug/L		1	JS13	06/27/24	0214	2632233	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9020B		

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 27, 2024

Company : Merit Laboratories Inc.
Address : 2680 East Lansing Drive

East Lansing, Michigan 48823

Contact: John Laverty
Project: Halogen Analysis

Client Sample ID:	S62916.03	Project:	MERI00220
Sample ID:	671085003	Client ID:	MERI001
Matrix:	Ground Water		
Collect Date:	05-JUN-24 14:16		
Receive Date:	11-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis												
SW9020B TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	3.54	3.33	10.0	ug/L		1	JS13	06/27/24	0310	2632233	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9020B		

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: June 27, 2024

Company : Merit Laboratories Inc.
Address : 2680 East Lansing Drive

East Lansing, Michigan 48823

Contact: John Lavery
Project: Halogen Analysis

Client Sample ID:	S62916.04	Project:	MERI00220
Sample ID:	671085004	Client ID:	MERI001
Matrix:	Ground Water		
Collect Date:	05-JUN-24 14:30		
Receive Date:	11-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis												
SW9020B TOX (Organic Halogen) "As Received"												
Total Organic Halogens	U	ND	3.33	10.0	ug/L		1	JS13	06/27/24	0135	2632233	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9020B		

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: June 27, 2024

Company : Merit Laboratories Inc.
Address : 2680 East Lansing Drive

East Lansing, Michigan 48823

Contact: John Laverty
Project: Halogen Analysis

Client Sample ID:	S62916.05	Project:	MERI00220
Sample ID:	671085005	Client ID:	MERI001
Matrix:	Ground Water		
Collect Date:	06-JUN-24 10:18		
Receive Date:	11-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis												
SW9020B TOX (Organic Halogen) "As Received"												
Total Organic Halogens		14.8	3.33	10.0	ug/L		1	RMJ	06/19/24	0008	2628427	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9020B		

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 27, 2024

Company : Merit Laboratories Inc.
Address : 2680 East Lansing Drive

East Lansing, Michigan 48823

Contact: John Lavery
Project: Halogen Analysis

Client Sample ID:	S62916.06	Project:	MERI00220
Sample ID:	671085006	Client ID:	MERI001
Matrix:	Ground Water		
Collect Date:	06-JUN-24 10:45		
Receive Date:	11-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis												
SW9020B TOX (Organic Halogen) "As Received"												
Total Organic Halogens	U	ND	3.33	10.0	ug/L		1	RMJ	06/19/24	0158	2628427	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9020B		

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: June 27, 2024

Company : Merit Laboratories Inc.
Address : 2680 East Lansing Drive

East Lansing, Michigan 48823

Contact: John Laverty
Project: Halogen Analysis

Client Sample ID:	S62916.07	Project:	MERI00220
Sample ID:	671085007	Client ID:	MERI001
Matrix:	Ground Water		
Collect Date:	06-JUN-24 11:25		
Receive Date:	11-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis												
SW9020B TOX (Organic Halogen) "As Received"												
Total Organic Halogens		11.5	3.33	10.0	ug/L		1	RMJ	06/19/24	0303	2628427	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9020B		

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: June 27, 2024

Company : Merit Laboratories Inc.
Address : 2680 East Lansing Drive

East Lansing, Michigan 48823

Contact: John Lavery
Project: Halogen Analysis

Client Sample ID:	S62916.08	Project:	MERI00220
Sample ID:	671085008	Client ID:	MERI001
Matrix:	Ground Water		
Collect Date:	06-JUN-24 12:55		
Receive Date:	11-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis												
SW9020B TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	8.64	3.33	10.0	ug/L		1	RMJ	06/19/24	0341	2628427	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9020B		

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: June 27, 2024

Company : Merit Laboratories Inc.
Address : 2680 East Lansing Drive

East Lansing, Michigan 48823

Contact: John Lavery
Project: Halogen Analysis

Client Sample ID:	S62916.09	Project:	MERI00220
Sample ID:	671085009	Client ID:	MERI001
Matrix:	Ground Water		
Collect Date:	06-JUN-24 12:45		
Receive Date:	11-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis												
SW9020B TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	9.48	3.33	10.0	ug/L		1	RMJ	06/19/24	0441	2628427	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9020B		

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: June 27, 2024

Company : Merit Laboratories Inc.
Address : 2680 East Lansing Drive

East Lansing, Michigan 48823

Contact: John Laverty
Project: Halogen Analysis

Client Sample ID:	S62916.10	Project:	MERI00220
Sample ID:	671085010	Client ID:	MERI001
Matrix:	Ground Water		
Collect Date:	06-JUN-24 13:40		
Receive Date:	11-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis												
SW9020B TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	8.26	3.33	10.0	ug/L		1	JS13	06/26/24	2334	2632233	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9020B		

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: June 27, 2024

Page 1 of 2

Merit Laboratories Inc.
2680 East Lansing Drive
East Lansing, Michigan
Contact: John Laverty

Workorder: 671085

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Halogen Analysis											
Batch	2628427										
QC1205765419	671085005	DUP									
Total Organic Halogens		14.8		16.0	ug/L	7.94	^	(+/-10.0)	RMJ	06/19/24	00:28
QC1205765418	LCS										
Total Organic Halogens	100			83.1	ug/L			(73%-117%)		06/18/24	23:48
QC1205765417	MB										
Total Organic Halogens			U	ND	ug/L					06/18/24	23:24
QC1205765420	671085005	MS									
Total Organic Halogens	100	14.8		85.6	ug/L			(55%-128%)		06/19/24	01:11
Batch	2632233										
QC1205773058	671210001	DUP									
Total Organic Halogens		U	ND	J	4.28	ug/L	200		JS13	06/26/24	20:01
QC1205773057	LCS										
Total Organic Halogens	100			102	ug/L			(73%-117%)		06/26/24	19:23
QC1205773056	MB										
Total Organic Halogens			U	ND	ug/L					06/26/24	19:03
QC1205773059	671210001	MS									
Total Organic Halogens	100	U	ND	83.5	ug/L			(55%-128%)		06/26/24	20:41

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 671085

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
H	Analytical holding time was exceeded										
<	Result is less than value reported										
>	Result is greater than value reported										
h	Preparation or preservation holding time was exceeded										
R	Sample results are rejected										
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.										
d	5-day BOD--The 2:1 depletion requirement was not met for this sample										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
N/A	RPD or %Recovery limits do not apply.										
ND	Analyte concentration is not detected above the detection limit										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range										
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.										
NI	See case narrative										
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.										
B	The target analyte was detected in the associated blank.										
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes										
J	See case narrative for an explanation										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**General Chemistry
Technical Case Narrative
Merit Laboratories, Inc.
SDG #: S62916
Work Order #: 671085**

Product: Total Organic Halogens (TOX)
Analytical Method: SW846 9020B
Analytical Procedure: GL-GC-E-007 REV# 17
Analytical Batch: 2628427

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
671085005	S62916.05
671085006	S62916.06
671085007	S62916.07
671085008	S62916.08
671085009	S62916.09
1205765417	Method Blank (MB)
1205765418	Laboratory Control Sample (LCS)
1205765419	671085005(S62916.05) Sample Duplicate (DUP)
1205765420	671085005(S62916.05) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

A pair of nitrate wash blanks is analyzed at the start of the batch. Although they are designated as ICB, they are performed for calculating purposes only. The value of the nitrate wash blanks are averaged and subtracted from all samples. Neither of these values should exceed 0.6 ug Cl. The PQL limit typically applied to ICB results does not apply in this application, since the results are used only to determine background concentrations and are subtracted from all calculated results.

Breakthrough effect

Breakthrough effect: If the value for a sample is greater than the reporting limit (10 ug/L), the result for the second slug should not be greater than 25% of the combined value of the first and second slug. Results which do not meet these criteria are designated with a "Fail" comment in the Breakthrough effect column on the Logbook page; however, the "fail" designation is not applicable for samples with a result of less than 10 ug/L.

Product: Total Organic Halogens (TOX)
Analytical Method: SW846 9020B
Analytical Procedure: GL-GC-E-007 REV# 17
Analytical Batch: 2632233

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
671085001	S62916.01
671085002	S62916.02
671085003	S62916.03
671085004	S62916.04
671085010	S62916.10
1205773056	Method Blank (MB)
1205773057	Laboratory Control Sample (LCS)
1205773058	671210001(S63008.01) Sample Duplicate (DUP)
1205773059	671210001(S63008.01) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

A pair of nitrate wash blanks is analyzed at the start of the batch. Although they are designated as ICB, they are performed for calculating purposes only. The value of the nitrate wash blanks are averaged and subtracted from all samples. Neither of these values should exceed 0.6 ug Cl. The PQL limit typically applied to ICB results does not apply in this application, since the results are used only to determine background concentrations and are subtracted from all calculated results.

Breakthrough effect

Breakthrough effect: If the value for a sample is greater than the reporting limit (10 ug/L), the result for the second slug should not be greater than 25% of the combined value of the first and second slug. Results which do not meet these criteria are designated with a "Fail" comment in the Breakthrough effect column on the Logbook page; however, the "fail" designation is not applicable for samples with a result of less than 10 ug/L.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

071085

2680 East Lansing Dr., East Lansing, MI 48823
 Phone (517) 332-0167 Fax (517) 332-4034
 www.meritlabs.com



C.O.C. PAGE # _____ OF _____

INVOICE TO

CHAIN OF CUSTODY RECORD

REPORT TO

SAME

CONTACT NAME: Project Management Team
 COMPANY: Merit Laboratories
 ADDRESS: 2680 East Lansing Drive
 CITY: East Lansing
 STATE: MI ZIP CODE: 48823
 PHONE NO.: 517-332-0167
 E-MAIL ADDRESS: results@meritlabs.com

CONTACT NAME: Julie Teague
 COMPANY: Merit Laboratories
 ADDRESS: 2680 East Lansing Drive
 CITY: East Lansing
 STATE: MI ZIP CODE: 48823
 PHONE NO.: 517-332-0167
 E-MAIL ADDRESS: juliet@meritlabs.com

PROJECT NO./NAME: S62916

SAMPLER(S) - PLEASE PRINT/SIGN NAME: _____
 TURNAROUND TIME REQUIRED: 1 DAY 2 DAYS 3 DAYS STANDARD OTHER

DELIVERABLES REQUIRED: STD LEVEL II LEVEL III LEVEL IV EDD OTHER

MATRIX CODE: _____
 S=SOIL L=LIQUID SD=SOLID
 WW=WASTEWATER WP=WIFE A=AIR W=WASTE
 O=OIL DW=DRINKING WATER

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	YEAR		IDENTIFICATION-DESCRIPTION	MATRIX	# BOTTLES	# Containers & Preservatives								XOL
	DATE	TIME				NO.	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER		
	6/4/24	1520	S62916.01	GW	1				1					✓
	6/5/24	1230	S62916.02	GW	1				1					✓
	6/5/24	1416	S62916.03	GW	1				1					✓
	6/5/24	1430	S62916.04	GW	1				1					✓
	6/6/24	1018	S62916.05	GW	1				1					✓
	6/6/24	1045	S62916.06	GW	1				1					✓
	6/6/24	1125	S62916.07	GW	1				1					✓
	6/6/24	1255	S62916.08	GW	1				1					✓
	6/6/24	1245	S62916.09	GW	1				1					✓
	6/6/24	1340	S62916.10	GW	1				1					✓

RELINQUISHED BY: _____ DATE: 6/10/24 TIME: 1700
 SIGNATURE/Organization: _____
 RECEIVED BY: _____ DATE: 6/12/24 TIME: 1700
 SIGNATURE/Organization: _____
 RELINQUISHED BY: _____ DATE: _____ TIME: _____
 SIGNATURE/Organization: _____

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications	Project Locations	Special Instructions
<input type="checkbox"/> OHIO VAP <input type="checkbox"/> Drinking Water	<input type="checkbox"/> DoD <input type="checkbox"/> NPDES	
<input type="checkbox"/> Detroit <input type="checkbox"/> New York		
<input type="checkbox"/> Other		

RELINQUISHED BY: _____ DATE: 6/11/24 TIME: 1605
 SIGNATURE/Organization: _____
 RECEIVED BY: _____ DATE: _____ TIME: _____
 SIGNATURE/Organization: _____

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

SAMPLE RECEIPT & REVIEW FORM

Client: <u>MEI</u>		SDG/AR/COC/Work Order: <u>071085</u>		<u>DS</u>	
Received By: Thyasia Tatum		Date Received: <u>6/11/24</u>			
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground <u>UPS</u> Field Services Courier Other <u>1246604770162897924</u>			
Suspected Hazard Information		Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___	
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.	
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>4</u> CPM / mR/Hr Classified as: <u>Rad 1 Rad 2 Rad 3</u>	
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	COC notation or hazard labels on containers equal client designation.	
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	If D or E is yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____	
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: _____ *all temperatures are recorded in Celsius TEMP: <u>10</u>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR2-23</u> Secondary Temperature Device Serial # (If Applicable): _____
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: _____ If Preservation added, Lot#: _____
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
					Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
					Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected: _____
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected: _____
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected: _____
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed):					

PM (or PMA) review: Initials AM Date 6/12/24 Page 1 of 1

List of current GEL Certifications as of 27 June 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-08
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



Analytical Laboratory Report

Report ID: S63008.01(01)
Generated on 06/28/2024

Report to

Attention: Clifford Yantz
Ramboll Americas
2090 Commonwealth Blvd
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:
Email: Clifford.Yantz@ramboll.com

Additional Contacts: Kevin Schneider

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Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Lavery (johnlavery@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S63008.01-S63008.05
Project: RACER Coldwater Road
Collected Date(s): 06/10/2024
Submitted Date/Time: 06/10/2024 16:50
Sampled by: Kevin Schneider
P.O. #: 1940008845 TASK 001

Table of Contents

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Maya Murshak
Technical Director



Analytical Laboratory Report

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Starred (*) analytes are not NY NELAP accredited.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

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Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the

FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."

Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

All accreditations/certifications held by this laboratory are listed on page 3. Not all accreditations/certifications are applicable to this report.

For a specific list of accredited analytes, please feel free to contact the laboratory or visit <https://www.meritlabs.com/certifications>.

Report Narrative

There is no additional narrative for this analytical report



Analytical Laboratory Report

Laboratory Accreditations (For Reference Only)

Authority	Accreditation ID
Michigan DEQ	#9956
DOD ELAP & ISO/IEC 17025:2017	#69699 PJLA Testing
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
o	Associated EIS outside of control limits
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
q	Qualifier ion ratio outside of control limits
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched



Analytical Laboratory Report

Method Summary

Method	Version
E120.1	EPA Method 120.1 Revision 1982
E200.8	EPA Method 200.8 Revision 5.4
E300.0	EPA Method 300.0 Revision 2.1 (1993)
E335.4/SM4500-CN	EPA Method 335.4 Revision 1.0 / Standard Method 4500-CN E 20th Edition
E420.1	EPA Method 420.1 Editorial Revision 1978
N/A	Not Applicable
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW5030C/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5030C Revision 3 May 2003
SW9020B	SW 846 Method 9020B Revision 2 September 1994



Analytical Laboratory Report

Sample Summary (5 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S63008.01	B-20D-06102024	Groundwater	06/10/24 12:00
S63008.02	OBG MW-16D-06102024	Groundwater	06/10/24 14:15
S63008.03	MW-DUP-06102024	Groundwater	06/10/24 00:01
S63008.04	Equipment Blank-06102024	Groundwater	06/10/24 15:15
S63008.05	Trip Blank-06102024	Water	06/10/24 00:01



Analytical Laboratory Report

Lab Sample ID: S63008.01

Sample Tag: B-20D-06102024

Collected Date/Time: 06/10/2024 12:00

Matrix: Groundwater

COC Reference: 171591

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40mL Glass	HCL	Yes	15.3	IR
2	40mL Glass	H2SO4	Yes	15.3	IR
1	125mL Amber	H2SO4	Yes	15.3	IR
1	250mL Amber	H2SO4	Yes	15.3	IR
1	125mL Plastic	NaOH	Yes	15.3	IR
2	125mL Plastic	HNO3	Yes	15.3	IR
1	250mL Plastic	None	Yes	15.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	06/13/24 11:49	ACK	
Metal Digestion	Completed	SW3015A	06/14/24 11:00	CCM	
Metal Digestion	Completed	SW3015A	06/14/24 14:45	CCM	

Inorganics

Method: , Run Date: 06/21/24 02:37, Analyst: EF

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOC*	Completed				1		O

Method: E120.1, Run Date: 06/11/24 13:16, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Conductivity	799	1		umhos/cm	1		

Method: E300.0, Run Date: 06/13/24 21:17, Analyst: ASB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloride	Not detected	10.0		mg/L	10	16887-00-6	
Sulfate	103	10.0		mg/L	10	14808-79-8	

Method: E335.4/SM4500-CN, Run Date: 06/24/24 17:55, Analyst: MDG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide, Total	Not detected	0.004		mg/L	2	57-12-5	

Method: E420.1, Run Date: 06/13/24 15:42, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Phenols	Not detected	0.02		mg/L	1.7		

Metals

Method: E200.8, Run Date: 06/14/24 16:36, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Sodium	17.9	2.5		mg/L	50	7440-23-5	

Method: E200.8, Run Date: 06/14/24 12:46, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium, Dissolved	Not detected	0.005		mg/L	5	7440-47-3	
Copper, Dissolved	Not detected	0.005		mg/L	5	7440-50-8	

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S63008.01 (continued)

Sample Tag: B-20D-06102024

Method: E200.8, Run Date: 06/14/24 12:46, Analyst: CCM (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Iron, Dissolved	1.82	0.02		mg/L	5	7439-89-6	
Manganese, Dissolved	0.045	0.005		mg/L	5	7439-96-5	
Nickel, Dissolved	Not detected	0.005		mg/L	5	7440-02-0	
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/12/24 18:14, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	



Analytical Laboratory Report

Lab Sample ID: S63008.01 (continued)

Sample Tag: B-20D-06102024

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/12/24 18:14, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Organics

Method: SW9020B, Run Date: 06/26/24 19:42, Analyst: GEL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOX*	Completed	3,000		ug/L	1		O

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S63008.02

Sample Tag: OBG MW-16D-06102024

Collected Date/Time: 06/10/2024 14:15

Matrix: Groundwater

COC Reference: 171591

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40mL Glass	HCL	Yes	15.3	IR
2	40mL Glass	H2SO4	Yes	15.3	IR
1	125mL Amber	H2SO4	Yes	15.3	IR
1	250mL Amber	H2SO4	Yes	15.3	IR
1	125mL Plastic	NaOH	Yes	15.3	IR
2	125mL Plastic	HNO3	Yes	15.3	IR
1	250mL Plastic	None	Yes	15.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	06/13/24 11:49	ACK	
Metal Digestion	Completed	SW3015A	06/14/24 11:00	CCM	
Metal Digestion	Completed	SW3015A	06/14/24 14:45	CCM	

Inorganics

Method: , Run Date: 06/21/24 03:01, Analyst: EF

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOC*	Completed				1		O

Method: E120.1, Run Date: 06/11/24 13:18, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Conductivity	650	1		umhos/cm	1		

Method: E300.0, Run Date: 06/13/24 21:27, Analyst: ASB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloride	Not detected	10.0		mg/L	10	16887-00-6	
Sulfate	34.4	10.0		mg/L	10	14808-79-8	

Method: E335.4/SM4500-CN, Run Date: 06/24/24 18:16, Analyst: MDG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide, Total	Not detected	0.004		mg/L	2	57-12-5	

Method: E420.1, Run Date: 06/13/24 15:46, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Phenols	Not detected	0.02		mg/L	1.7		

Metals

Method: E200.8, Run Date: 06/14/24 16:38, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Sodium	11.0	2.5		mg/L	50	7440-23-5	

Method: E200.8, Run Date: 06/14/24 12:48, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium, Dissolved	Not detected	0.005		mg/L	5	7440-47-3	
Copper, Dissolved	Not detected	0.005		mg/L	5	7440-50-8	

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S63008.02 (continued)

Sample Tag: OBG MW-16D-06102024

Method: E200.8, Run Date: 06/14/24 12:48, Analyst: CCM (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Iron, Dissolved	2.01	0.02		mg/L	5	7439-89-6	
Manganese, Dissolved	0.059	0.005		mg/L	5	7439-96-5	
Nickel, Dissolved	Not detected	0.005		mg/L	5	7440-02-0	
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/12/24 18:38, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	



Analytical Laboratory Report

Lab Sample ID: S63008.02 (continued)

Sample Tag: OBG MW-16D-06102024

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/12/24 18:38, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Organics

Method: SW9020B, Run Date: 06/26/24 21:17, Analyst: GEL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOX*	Completed	3,000		ug/L	1		O

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S63008.03

Sample Tag: MW-DUP-06102024

Collected Date/Time: 06/10/2024 00:01

Matrix: Groundwater

COC Reference: 171591

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40mL Glass	HCL	Yes	15.3	IR
2	40mL Glass	H2SO4	Yes	15.3	IR
1	125mL Amber	H2SO4	Yes	15.3	IR
1	250mL Amber	H2SO4	Yes	15.3	IR
1	125mL Plastic	NaOH	Yes	15.3	IR
2	125mL Plastic	HNO3	Yes	15.3	IR
1	250mL Plastic	None	Yes	15.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	06/13/24 11:49	ACK	
Metal Digestion	Completed	SW3015A	06/14/24 11:00	CCM	
Metal Digestion	Completed	SW3015A	06/14/24 14:45	CCM	

Inorganics

Method: , Run Date: 06/21/24 03:25, Analyst: EF

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOC*	Completed				1		O

Method: E120.1, Run Date: 06/11/24 13:20, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Conductivity	812	1		umhos/cm	1		

Method: E300.0, Run Date: 06/13/24 21:37, Analyst: ASB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloride	Not detected	10.0		mg/L	10	16887-00-6	
Sulfate	102	10.0		mg/L	10	14808-79-8	

Method: E335.4/SM4500-CN, Run Date: 06/24/24 18:18, Analyst: MDG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide, Total	Not detected	0.004		mg/L	2	57-12-5	

Method: E420.1, Run Date: 06/13/24 15:48, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Phenols	Not detected	0.02		mg/L	1.7		

Metals

Method: E200.8, Run Date: 06/14/24 16:39, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Sodium	18.4	2.5		mg/L	50	7440-23-5	

Method: E200.8, Run Date: 06/14/24 12:50, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium, Dissolved	Not detected	0.005		mg/L	5	7440-47-3	
Copper, Dissolved	Not detected	0.005		mg/L	5	7440-50-8	

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S63008.03 (continued)

Sample Tag: MW-DUP-06102024

Method: E200.8, Run Date: 06/14/24 12:50, Analyst: CCM (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Iron, Dissolved	1.81	0.02		mg/L	5	7439-89-6	
Manganese, Dissolved	0.043	0.005		mg/L	5	7439-96-5	
Nickel, Dissolved	Not detected	0.005		mg/L	5	7440-02-0	
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/12/24 19:02, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	



Analytical Laboratory Report

Lab Sample ID: S63008.03 (continued)

Sample Tag: MW-DUP-06102024

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/12/24 19:02, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Organics

Method: SW9020B, Run Date: 06/26/24 22:08, Analyst: GEL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOX*	Completed	3,000		ug/L	1		O

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S63008.04

Sample Tag: Equipment Blank-06102024

Collected Date/Time: 06/10/2024 15:15

Matrix: Groundwater

COC Reference: 171591

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40mL Glass	HCL	Yes	15.3	IR
2	40mL Glass	H2SO4	Yes	15.3	IR
1	125mL Amber	H2SO4	Yes	15.3	IR
1	250mL Amber	H2SO4	Yes	15.3	IR
1	125mL Plastic	NaOH	Yes	15.3	IR
1	125mL Plastic	HNO3	Yes	15.3	IR
1	250mL Plastic	None	Yes	15.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	06/12/24 11:25	NDK	
Metal Digestion	Completed	SW3015A	06/14/24 11:00	CCM	

Inorganics

Method: , Run Date: 06/21/24 03:49, Analyst: EF

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOC*	Completed				1		O

Method: E120.1, Run Date: 06/11/24 13:22, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Conductivity	1.67	1		umhos/cm	1		

Method: E300.0, Run Date: 06/13/24 21:47, Analyst: ASB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloride	Not detected	10.0		mg/L	10	16887-00-6	
Sulfate	Not detected	10.0		mg/L	10	14808-79-8	

Method: E335.4/SM4500-CN, Run Date: 06/24/24 18:21, Analyst: MDG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide, Total	Not detected	0.004		mg/L	2	57-12-5	

Method: E420.1, Run Date: 06/13/24 15:50, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Phenols	Not detected	0.02		mg/L	1.7		

Metals

Method: E200.8, Run Date: 06/14/24 16:27, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Sodium	Not detected	0.50		mg/L	5	7440-23-5	

Method: E200.8, Run Date: 06/14/24 12:44, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium	Not detected	0.005		mg/L	2	7440-47-3	
Copper	Not detected	0.005		mg/L	2	7440-50-8	
Iron	Not detected	0.02		mg/L	2	7439-89-6	

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S63008.04 (continued)

Sample Tag: Equipment Blank-06102024

Method: E200.8, Run Date: 06/14/24 12:44, Analyst: CCM (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	Not detected	0.005		mg/L	2	7439-96-5	
Nickel	Not detected	0.005		mg/L	2	7440-02-0	
Zinc	Not detected	0.005		mg/L	2	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/12/24 03:12, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		



Analytical Laboratory Report

Lab Sample ID: S63008.04 (continued)

Sample Tag: Equipment Blank-06102024

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/12/24 03:12, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Organics

Method: SW9020B, Run Date: 06/26/24 22:49, Analyst: GEL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TOX*	Completed	3,000		ug/L	1		O

O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S63008.05

Sample Tag: Trip Blank-06102024

Collected Date/Time: 06/10/2024 00:01

Matrix: Water

COC Reference: 171591

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40mL Glass	HCL	Yes	15.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	06/12/24 11:25	NDK	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/12/24 03:36, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	



Analytical Laboratory Report

Lab Sample ID: S63008.05 (continued)

Sample Tag: Trip Blank-06102024

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 06/12/24 03:36, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Merit Laboratories Login Checklist

Lab Set ID:S63008

Client:RAMBOLL (Ramboll Americas)

Project: RACER Coldwater Road

Submitted:06/10/2024 16:50 Login User: PFD

Attention: Clifford Yantz

Address: Ramboll Americas
2090 Commonwealth Blvd
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:
Email: Clifford.Yantz@ramboll.com

Selection	Description	Note
-----------	-------------	------

Sample Receiving

- | | | |
|-----|--|---|
| 01. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples are received at 4C +/- 2C Thermometer # IR 15.3 |
| 02. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Received on ice/ cooling process begun |
| 03. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples shipped |
| 04. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples left in 24 hr. drop box |
| 05. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Are there custody seals/tape or is the drop box locked |

Chain of Custody

- | | | |
|-----|--|--|
| 06. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | COC adequately filled out |
| 07. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | COC signed and relinquished to the lab |
| 08. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Sample tag on bottles match COC |
| 09. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Subcontracting needed? Subcontracted to: |

Preservation

- | | | |
|-----|--|---|
| 10. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Do sample have correct chemical preservation |
| 11. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Completed pH checks on preserved samples? (no VOAs) |
| 12. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Did any samples need to be preserved in the lab? |

Bottle Conditions

- | | | |
|-----|--|---|
| 13. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | All bottles intact |
| 14. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Appropriate analytical bottles are used |
| 15. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Merit bottles used |
| 16. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Sufficient sample volume received |
| 17. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples require laboratory filtration |
| 18. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Samples submitted within holding time |
| 19. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Do water VOC or TOX bottles contain headspace |

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories Bottle Preservation Check

Lab Set ID: S63008 Submitted: 06/10/2024 16:50

Attention: Clifford Yantz
 Address: Ramboll Americas
 2090 Commonwealth Blvd
 Ann Arbor, MI 48105

Client: RAMBOLL (Ramboll Americas)

Project: RACER Coldwater Road

Initial Preservation Check: 06/10/2024 16:45 PFD

Phone: 313-333-0211 FAX:
 Email: Clifford.Yantz@ramboll.com

Preservation Recheck (E200.8): N/A

Sample ID	Bottle / Preservation	pH (Orig)	Add ml	pH (New)	Notes
S63008.01	125mL Amber H2SO4	<2			
S63008.01	125mL Plastic HNO3	<2			
S63008.01	125mL Plastic HNO3	<2			
S63008.01	125mL Plastic NaOH	>12			
S63008.01	250mL Amber H2SO4	<2			
S63008.02	125mL Amber H2SO4	<2			
S63008.02	125mL Plastic HNO3	<2			
S63008.02	125mL Plastic HNO3	<2			
S63008.02	125mL Plastic NaOH	>12			
S63008.02	250mL Amber H2SO4	<2			
S63008.03	125mL Amber H2SO4	<2			
S63008.03	125mL Plastic HNO3	<2			
S63008.03	125mL Plastic HNO3	<2			
S63008.03	125mL Plastic NaOH	>12			
S63008.03	250mL Amber H2SO4	<2			
S63008.04	125mL Amber H2SO4	<2			
S63008.04	125mL Plastic HNO3	<2			
S63008.04	125mL Plastic NaOH	>12			
S63008.04	250mL Amber H2SO4	<2			



Quality Control Report

Report ID: QC-S63008-01
Generated on 06/28/2024

Report to
Attention: Clifford Yantz
Ramboll Americas
2090 Commonwealth Blvd
Ann Arbor, MI 48105

Report Produced by
Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: 313-333-0211 FAX:

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S63008.01-S63008.05
Project: RACER Coldwater Road
Submitted Date/Time: 06/10/2024 16:50
Sampled by: Kevin Schneider
P.O. #: 1940008845 TASK 001

QC Report Sections

Cover Page (Page 1)
Analysis Summary (Pages 2-6)
Prep Batch Summary (Pages 7-8)
Surrogates per Lab Sample (Pages 9-13)
Surrogates per QC Sample (Pages 14-15)
Batch QC Results (Pages 16-33)

Report Flag Descriptions

*: QC result is outside of indicated control limits
W: Surrogate result not applicable due to sample dilution

I certify that this data package is in compliance with the terms and conditions of the program, and project, and contractual requirements both technically and for completeness. Release of the data contained in this hardcopy data package and its computer-readable data submitted has been authorized by the Quality Assurance Manager and his/her designee, as verified by the following signature.

Barbara Ball
Quality Assurance Manager

QC Report - Analysis Summary

Lab Sample ID: S63008.01

Sample Tag: B-20D-06102024

Collected Date/Time: 06/10/2024 12:00

Matrix: Groundwater

COC Reference: 171591

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<i>Inorganics</i>						
Chloride	E300.0	06/13/24 21:17	CL240613-W1-B	CL240613-W1-B	No	BLK/LCS/MS/MSD/DU
Conductivity	E120.1	06/11/24 13:16	COND240611-W1	COND240611-W1	No	BLK/LCS/DUP
Cyanide, Total	E335.4/SM4500-CN06	06/24/24 17:55	CN240624-W1	CN240624-W1	No	BLK/LCS/MS/DUP
Phenols	E420.1	06/13/24 15:42	PHL240613-W1	PHL240613-W1	No	BLK/LCS/MS/DUP
Sulfate	E300.0	06/13/24 21:17	SFT240613-W1-B	SFT240613-W1-B	No	BLK/LCS/MS/MSD/DU
<i>Metals</i>						
Chromium, Dissolved	E200.8	06/14/24 12:46	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	06/14/24 12:46	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Iron, Dissolved	E200.8	06/14/24 12:46	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Manganese, Dissolved	E200.8	06/14/24 12:46	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Nickel, Dissolved	E200.8	06/14/24 12:46	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Sodium	E200.8	06/14/24 16:36	MT4-24-0614C	MTD-061424-6	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	06/14/24 12:46	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
<i>Organics - Volatiles</i>						
Volatile Organics - DEQ List	SW5030C/8260C	06/12/24 18:14	240612A9	VF240612W1	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S63008.02

Sample Tag: OBG MW-16D-06102024

Collected Date/Time: 06/10/2024 14:15

Matrix: Groundwater

COC Reference: 171591

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<i>Inorganics</i>						
Chloride	E300.0	06/13/24 21:27	CL240613-W1-B	CL240613-W1-B	No	BLK/LCS/MS/MSD/DU
Conductivity	E120.1	06/11/24 13:18	COND240611-W1	COND240611-W1	No	BLK/LCS/DUP
Cyanide, Total	E335.4/SM4500-CN	06/24/24 18:16	CN240624-W1	CN240624-W1	No	BLK/LCS/MS/DUP
Phenols	E420.1	06/13/24 15:46	PHL240613-W1	PHL240613-W1	No	BLK/LCS/MS/DUP
Sulfate	E300.0	06/13/24 21:27	SFT240613-W1-B	SFT240613-W1-B	No	BLK/LCS/MS/MSD/DU
<i>Metals</i>						
Chromium, Dissolved	E200.8	06/14/24 12:48	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	06/14/24 12:48	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Iron, Dissolved	E200.8	06/14/24 12:48	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Manganese, Dissolved	E200.8	06/14/24 12:48	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Nickel, Dissolved	E200.8	06/14/24 12:48	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Sodium	E200.8	06/14/24 16:38	MT4-24-0614C	MTD-061424-6	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	06/14/24 12:48	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
<i>Organics - Volatiles</i>						
Volatile Organics - DEQ List	SW5030C/8260C	06/12/24 18:38	240612A9	VF240612W1	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S63008.03

Sample Tag: MW-DUP-06102024

Collected Date/Time: 06/10/2024 00:01

Matrix: Groundwater

COC Reference: 171591

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<i>Inorganics</i>						
Chloride	E300.0	06/13/24 21:37	CL240613-W1-B	CL240613-W1-B	No	BLK/LCS/MS/MSD/DU
Conductivity	E120.1	06/11/24 13:20	COND240611-W1	COND240611-W1	No	BLK/LCS/DUP
Cyanide, Total	E335.4/SM4500-CN	06/24/24 18:18	CN240624-W1	CN240624-W1	No	BLK/LCS/MS/DUP
Phenols	E420.1	06/13/24 15:48	PHL240613-W1	PHL240613-W1	No	BLK/LCS/MS/DUP
Sulfate	E300.0	06/13/24 21:37	SFT240613-W1-B	SFT240613-W1-B	No	BLK/LCS/MS/MSD/DU
<i>Metals</i>						
Chromium, Dissolved	E200.8	06/14/24 12:50	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	06/14/24 12:50	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Iron, Dissolved	E200.8	06/14/24 12:50	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Manganese, Dissolved	E200.8	06/14/24 12:50	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Nickel, Dissolved	E200.8	06/14/24 12:50	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Sodium	E200.8	06/14/24 16:39	MT4-24-0614C	MTD-061424-6	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	06/14/24 12:50	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
<i>Organics - Volatiles</i>						
Volatile Organics - DEQ List	SW5030C/8260C	06/12/24 19:02	240612A9	VF240612W1	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S63008.04

Sample Tag: Equipment Blank-06102024

Collected Date/Time: 06/10/2024 15:15

Matrix: Groundwater

COC Reference: 171591

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Chloride	E300.0	06/13/24 21:47	CL240613-W1-B	CL240613-W1-B	No	BLK/LCS/MS/MSD/DU
Conductivity	E120.1	06/11/24 13:22	COND240611-W1	COND240611-W1	No	BLK/LCS/DUP
Cyanide, Total	E335.4/SM4500-CN	06/24/24 18:21	CN240624-W1	CN240624-W1	No	BLK/LCS/MS/DUP
Phenols	E420.1	06/13/24 15:50	PHL240613-W1	PHL240613-W1	No	BLK/LCS/MS/DUP
Sulfate	E300.0	06/13/24 21:47	SFT240613-W1-B	SFT240613-W1-B	No	BLK/LCS/MS/MSD/DU
Metals						
Chromium	E200.8	06/14/24 12:44	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Copper	E200.8	06/14/24 12:44	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Iron	E200.8	06/14/24 12:44	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Manganese	E200.8	06/14/24 12:44	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Nickel	E200.8	06/14/24 12:44	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Sodium	E200.8	06/14/24 16:27	MT4-24-0614C	MTD-061424-6	No	BLK/LCS/MS/MSD
Zinc	E200.8	06/14/24 12:44	MT4-24-0614A	MTD-061424-2	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	06/12/24 03:12	240611B7	VF240611W4	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S63008.05

Sample Tag: Trip Blank-06102024

Collected Date/Time: 06/10/2024 00:01

Matrix: Water

COC Reference: 171591

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	06/12/24 03:36	240611B7	VF240611W4	Yes	BLK/LCS/LCSD

QC Report - Prep Batch Summary

Inorganics, Prep Batch ID: CL240613-W1-B

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S63008.01	Chloride	E300.0	06/13/24 21:17	CL240613-W1-B
S63008.02	Chloride	E300.0	06/13/24 21:27	CL240613-W1-B
S63008.03	Chloride	E300.0	06/13/24 21:37	CL240613-W1-B
S63008.04	Chloride	E300.0	06/13/24 21:47	CL240613-W1-B

Inorganics, Prep Batch ID: CN240624-W1

Surrogates: No, QC Types: BLK/LCS/MS/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S63008.01	Cyanide, Total	E335.4/SM4500-CN	06/24/24 17:55	CN240624-W1
S63008.02	Cyanide, Total	E335.4/SM4500-CN	06/24/24 18:16	CN240624-W1
S63008.03	Cyanide, Total	E335.4/SM4500-CN	06/24/24 18:18	CN240624-W1
S63008.04	Cyanide, Total	E335.4/SM4500-CN	06/24/24 18:21	CN240624-W1

Inorganics, Prep Batch ID: COND240611-W1

Surrogates: No, QC Types: BLK/LCS/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S63008.01	Conductivity	E120.1	06/11/24 13:16	COND240611-W1
S63008.02	Conductivity	E120.1	06/11/24 13:18	COND240611-W1
S63008.03	Conductivity	E120.1	06/11/24 13:20	COND240611-W1
S63008.04	Conductivity	E120.1	06/11/24 13:22	COND240611-W1

Inorganics, Prep Batch ID: PHL240613-W1

Surrogates: No, QC Types: BLK/LCS/MS/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S63008.01	Phenols	E420.1	06/13/24 15:42	PHL240613-W1
S63008.02	Phenols	E420.1	06/13/24 15:46	PHL240613-W1
S63008.03	Phenols	E420.1	06/13/24 15:48	PHL240613-W1
S63008.04	Phenols	E420.1	06/13/24 15:50	PHL240613-W1

Inorganics, Prep Batch ID: SFT240613-W1-B

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S63008.01	Sulfate	E300.0	06/13/24 21:17	SFT240613-W1-B
S63008.02	Sulfate	E300.0	06/13/24 21:27	SFT240613-W1-B
S63008.03	Sulfate	E300.0	06/13/24 21:37	SFT240613-W1-B
S63008.04	Sulfate	E300.0	06/13/24 21:47	SFT240613-W1-B

Metals, Prep Batch ID: MTD-061424-2

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S63008.01	Chromium, Dissolved	E200.8	06/14/24 12:46	MT4-24-0614A
S63008.01	Copper, Dissolved	E200.8	06/14/24 12:46	MT4-24-0614A
S63008.01	Iron, Dissolved	E200.8	06/14/24 12:46	MT4-24-0614A
S63008.01	Manganese, Dissolved	E200.8	06/14/24 12:46	MT4-24-0614A
S63008.01	Nickel, Dissolved	E200.8	06/14/24 12:46	MT4-24-0614A
S63008.01	Zinc, Dissolved	E200.8	06/14/24 12:46	MT4-24-0614A
S63008.02	Chromium, Dissolved	E200.8	06/14/24 12:48	MT4-24-0614A
S63008.02	Copper, Dissolved	E200.8	06/14/24 12:48	MT4-24-0614A
S63008.02	Iron, Dissolved	E200.8	06/14/24 12:48	MT4-24-0614A
S63008.02	Manganese, Dissolved	E200.8	06/14/24 12:48	MT4-24-0614A

QC Report - Prep Batch Summary

Metals, Prep Batch ID: MTD-061424-2 (continued)

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S63008.02	Nickel, Dissolved	E200.8	06/14/24 12:48	MT4-24-0614A
S63008.02	Zinc, Dissolved	E200.8	06/14/24 12:48	MT4-24-0614A
S63008.03	Chromium, Dissolved	E200.8	06/14/24 12:50	MT4-24-0614A
S63008.03	Copper, Dissolved	E200.8	06/14/24 12:50	MT4-24-0614A
S63008.03	Iron, Dissolved	E200.8	06/14/24 12:50	MT4-24-0614A
S63008.03	Manganese, Dissolved	E200.8	06/14/24 12:50	MT4-24-0614A
S63008.03	Nickel, Dissolved	E200.8	06/14/24 12:50	MT4-24-0614A
S63008.03	Zinc, Dissolved	E200.8	06/14/24 12:50	MT4-24-0614A
S63008.04	Chromium	E200.8	06/14/24 12:44	MT4-24-0614A
S63008.04	Copper	E200.8	06/14/24 12:44	MT4-24-0614A
S63008.04	Iron	E200.8	06/14/24 12:44	MT4-24-0614A
S63008.04	Manganese	E200.8	06/14/24 12:44	MT4-24-0614A
S63008.04	Nickel	E200.8	06/14/24 12:44	MT4-24-0614A
S63008.04	Zinc	E200.8	06/14/24 12:44	MT4-24-0614A

Metals, Prep Batch ID: MTD-061424-6

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S63008.01	Sodium	E200.8	06/14/24 16:36	MT4-24-0614C
S63008.02	Sodium	E200.8	06/14/24 16:38	MT4-24-0614C
S63008.03	Sodium	E200.8	06/14/24 16:39	MT4-24-0614C
S63008.04	Sodium	E200.8	06/14/24 16:27	MT4-24-0614C

Organics - Volatiles, Prep Batch ID: VF240611W4

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S63008.04	Volatile Organics - DEQ List	SW5030C/8260C	06/12/24 03:12	240611B7
S63008.05	Volatile Organics - DEQ List	SW5030C/8260C	06/12/24 03:36	240611B7

Organics - Volatiles, Prep Batch ID: VF240612W1

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S63008.01	Volatile Organics - DEQ List	SW5030C/8260C	06/12/24 18:14	240612A9
S63008.02	Volatile Organics - DEQ List	SW5030C/8260C	06/12/24 18:38	240612A9
S63008.03	Volatile Organics - DEQ List	SW5030C/8260C	06/12/24 19:02	240612A9

QC Report - Surrogates per Lab Sample

Lab Sample ID: S63008.01

Sample Tag: B-20D-06102024

Collected Date/Time: 06/10/2024 12:00

Matrix: Groundwater

COC Reference: 171591

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 240612A9, Run Date: 06/12/2024 18:14, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		98.2	80.0	124.0
1,2-Dichloroethane-D4		94.5	72.0	125.0
Toluene-D8		93.5	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S63008.02

Sample Tag: OBG MW-16D-06102024

Collected Date/Time: 06/10/2024 14:15

Matrix: Groundwater

COC Reference: 171591

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 240612A9, Run Date: 06/12/2024 18:38, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		97.6	80.0	124.0
1,2-Dichloroethane-D4		95.5	72.0	125.0
Toluene-D8		92.6	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S63008.03

Sample Tag: MW-DUP-06102024

Collected Date/Time: 06/10/2024 00:01

Matrix: Groundwater

COC Reference: 171591

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 240612A9, Run Date: 06/12/2024 19:02, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		99.4	80.0	124.0
1,2-Dichloroethane-D4		97.6	72.0	125.0
Toluene-D8		93.3	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S63008.04

Sample Tag: Equipment Blank-06102024

Collected Date/Time: 06/10/2024 15:15

Matrix: Groundwater

COC Reference: 171591

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 240611B7, Run Date: 06/12/2024 03:12, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		107.0	80.0	124.0
1,2-Dichloroethane-D4		80.8	72.0	125.0
Toluene-D8		98.8	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S63008.05

Sample Tag: Trip Blank-06102024

Collected Date/Time: 06/10/2024 00:01

Matrix: Water

COC Reference: 171591

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 240611B7, Run Date: 06/12/2024 03:36, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		106.3	80.0	124.0
1,2-Dichloroethane-D4		78.6	72.0	125.0
Toluene-D8		97.9	89.0	112.0

QC Report - Surrogates per QC Sample

Organics - Volatiles, Prep Batch ID: VF240611W4

QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: 240611B7.BLKW11B

Run in Batch: 240611B7, Run Date: 06/12/2024 02:49, Prep Date: 06/11/2024, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		105.1	80.0	124.0
1,2-Dichloroethane-D4		78.0	72.0	125.0
Toluene-D8		98.5	89.0	112.0

Laboratory Control Sample (LCS)

Lab Sample ID: 240611B7.LCSW11B

Run in Batch: 240611B7, Run Date: 06/12/2024 01:15, Prep Date: 06/11/2024, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		106.3	80.0	124.0
1,2-Dichloroethane-D4		84.0	72.0	125.0
Toluene-D8		99.7	89.0	112.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 240611B7.LCSDW11B, Parent Sample ID: 240611B7.LCSW11B

Run in Batch: 240611B7, Run Date: 06/12/2024 01:38, Prep Date: 06/11/2024, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		106.5	80.0	124.0
1,2-Dichloroethane-D4		85.1	72.0	125.0
Toluene-D8		99.5	89.0	112.0

QC Report - Surrogates per QC Sample

Organics - Volatiles, Prep Batch ID: VF240612W1

QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: 240612A9.BLKW12A

Run in Batch: 240612A9, Run Date: 06/12/2024 14:16, Prep Date: 06/12/2024, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		99.4	80.0	124.0
1,2-Dichloroethane-D4		95.2	72.0	125.0
Toluene-D8		93.5	89.0	112.0

Laboratory Control Sample (LCS)

Lab Sample ID: 240612A9.LCSW12A

Run in Batch: 240612A9, Run Date: 06/12/2024 12:40, Prep Date: 06/12/2024, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		101.5	80.0	124.0
1,2-Dichloroethane-D4		89.9	72.0	125.0
Toluene-D8		93.9	89.0	112.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 240612A9.LCSDW12A, Parent Sample ID: 240612A9.LCSW12A

Run in Batch: 240612A9, Run Date: 06/12/2024 13:04, Prep Date: 06/12/2024, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		102.0	80.0	124.0
1,2-Dichloroethane-D4		91.3	72.0	125.0
Toluene-D8		93.3	89.0	112.0

QC Report - Batch QC Results

Inorganics, Prep Batch ID: CL240613-W1-B

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Blank (BLK)

Lab Sample ID: CL240613-W1-B.LRB1

Run in Batch: CL240613-W1-B, Run Date: 06/13/2024 14:49, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Chloride		ND	1.0	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: CL240613-W1-B.LCS1

Run in Batch: CL240613-W1-B, Run Date: 06/13/2024 15:12, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Chloride		99.0	90	110

Matrix Spike (MS)

Lab Sample ID: CL240613-W1-B.MS1, Parent Sample ID: S62923.13

Run in Batch: CL240613-W1-B, Run Date: 06/13/2024 18:56, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 25

Analyte	Flags	% Rec	LCL	UCL
Chloride		106.7	80	120

Matrix Spike (MS)

Lab Sample ID: CL240613-W1-B.MS2, Parent Sample ID: S63051.01

Run in Batch: CL240613-W1-B, Run Date: 06/13/2024 19:16, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 10

Analyte	Flags	% Rec	LCL	UCL
Chloride		104.2	80	120

Matrix Spike Duplicate (MSD)

Lab Sample ID: CL240613-W1-B.MSD1, Parent Sample ID: CL240613-W1-B.MS2

Run in Batch: CL240613-W1-B, Run Date: 06/13/2024 18:46, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 10

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Chloride		104.2	80	120	0	15

Matrix Spike Duplicate (MSD)

Lab Sample ID: CL240613-W1-B.MSD2, Parent Sample ID: CL240613-W1-B.MS1

Run in Batch: CL240613-W1-B, Run Date: 06/13/2024 19:06, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 25

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Chloride		107.1	80	120	0	15

Duplicate (DUP)

Lab Sample ID: CL240613-W1-B.DP1, Parent Sample ID: S63051.01

Run in Batch: CL240613-W1-B, Run Date: 06/13/2024 17:56, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 10

Analyte	Flags	RPD	RPD CL
Chloride		0.2	15

Duplicate (DUP)

Lab Sample ID: CL240613-W1-B.DP2, Parent Sample ID: S62923.13

Run in Batch: CL240613-W1-B, Run Date: 06/13/2024 18:16, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 25

Analyte	Flags	RPD	RPD CL
Chloride		0.8	15

QC Report - Batch QC Results

Inorganics, Prep Batch ID: CN240624-W1

Surrogates: No, QC Types: BLK/LCS/MS/DUP

Blank (BLK)

Lab Sample ID: CN240624-W1.LRB1

Run in Batch: CN240624-W1, Run Date: 06/24/2024 17:50, Prep Date: 06/24/2024, Matrix: Liquid, Dilution: 2

Analyte	Flags	Conc	RDL	Units
Cyanide, Total		ND	0.004	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: CN240624-W1.LCS1

Run in Batch: CN240624-W1, Run Date: 06/24/2024 17:53, Prep Date: 06/24/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Cyanide, Total		100	90	110

Laboratory Control Sample (LCS)

Lab Sample ID: CN240624-W1.LCS2

Run in Batch: CN240624-W1, Run Date: 06/24/2024 17:52, Prep Date: 06/24/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Cyanide, Total		94	90	110

Matrix Spike (MS)

Lab Sample ID: CN240624-W1.MS1, Parent Sample ID: S63472.01

Run in Batch: CN240624-W1, Run Date: 06/24/2024 19:17, Prep Date: 06/24/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Cyanide, Total		93	90	110

Duplicate (DUP)

Lab Sample ID: CN240624-W1.DP1, Parent Sample ID: S63472.01

Run in Batch: CN240624-W1, Run Date: 06/24/2024 19:13, Prep Date: 06/24/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Cyanide, Total		NC	15

QC Report - Batch QC Results

Inorganics, Prep Batch ID: COND240611-W1

Surrogates: No, QC Types: BLK/LCS/DUP

Blank (BLK)

Lab Sample ID: COND240611-W1.LRB1

Run in Batch: COND240611-W1, Run Date: 06/11/2024 12:30, Prep Date: 06/11/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Conductivity		ND	1	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: COND240611-W1.LCS1

Run in Batch: COND240611-W1, Run Date: 06/11/2024 12:36, Prep Date: 06/11/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Conductivity		97	90	110

Duplicate (DUP)

Lab Sample ID: COND240611-W1.DP1, Parent Sample ID: S62916.01

Run in Batch: COND240611-W1, Run Date: 06/11/2024 12:42, Prep Date: 06/11/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Conductivity		<1	15

QC Report - Batch QC Results

Inorganics, Prep Batch ID: PHL240613-W1

Surrogates: No, QC Types: BLK/LCS/MS/DUP

Blank (BLK)

Lab Sample ID: PHL240613-W1.LRB1

Run in Batch: PHL240613-W1, Run Date: 06/13/2024 15:30, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Phenols		ND	0.01	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: PHL240613-W1.LCS1

Run in Batch: PHL240613-W1, Run Date: 06/13/2024 15:52, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Phenols		99	90	110

Matrix Spike (MS)

Lab Sample ID: PHL240613-W1.MS1, Parent Sample ID: S63008.01

Run in Batch: PHL240613-W1, Run Date: 06/13/2024 15:44, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Phenols		98	90	110

Duplicate (DUP)

Lab Sample ID: PHL240613-W1.DP1, Parent Sample ID: S62959.01

Run in Batch: PHL240613-W1, Run Date: 06/13/2024 15:40, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 3.3

Analyte	Flags	RPD	RPD CL
Phenols		4	15

QC Report - Batch QC Results

Inorganics, Prep Batch ID: SFT240613-W1-B

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Blank (BLK)

Lab Sample ID: SFT240613-W1-B.LRB1

Run in Batch: SFT240613-W1-B, Run Date: 06/13/2024 14:49, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Sulfate		ND	1.0	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: SFT240613-W1-B.LCS1

Run in Batch: SFT240613-W1-B, Run Date: 06/13/2024 15:12, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Sulfate		98.0	90	110

Matrix Spike (MS)

Lab Sample ID: SFT240613-W1-B.MS1, Parent Sample ID: S62923.13

Run in Batch: SFT240613-W1-B, Run Date: 06/13/2024 18:56, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 25

Analyte	Flags	% Rec	LCL	UCL
Sulfate		99.4	80	120

Matrix Spike (MS)

Lab Sample ID: SFT240613-W1-B.MS2, Parent Sample ID: S63051.01

Run in Batch: SFT240613-W1-B, Run Date: 06/13/2024 19:16, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 10

Analyte	Flags	% Rec	LCL	UCL
Sulfate		104.2	80	120

Matrix Spike Duplicate (MSD)

Lab Sample ID: SFT240613-W1-B.MSD1, Parent Sample ID: SFT240613-W1-B.MS1

Run in Batch: SFT240613-W1-B, Run Date: 06/13/2024 18:46, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 10

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Sulfate		102.4	80	120	40	15

Matrix Spike Duplicate (MSD)

Lab Sample ID: SFT240613-W1-B.MSD2, Parent Sample ID: SFT240613-W1-B.MS2

Run in Batch: SFT240613-W1-B, Run Date: 06/13/2024 19:06, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 25

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Sulfate		99.8	80	120	40	15

Duplicate (DUP)

Lab Sample ID: SFT240613-W1-B.DP1, Parent Sample ID: S63051.01

Run in Batch: SFT240613-W1-B, Run Date: 06/13/2024 17:56, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 10

Analyte	Flags	RPD	RPD CL
Sulfate		0.8	15

Duplicate (DUP)

Lab Sample ID: SFT240613-W1-B.DP2, Parent Sample ID: S62923.13

Run in Batch: SFT240613-W1-B, Run Date: 06/13/2024 18:16, Prep Date: 06/13/2024, Matrix: Liquid, Dilution: 25

Analyte	Flags	RPD	RPD CL
Sulfate		1.4	15

QC Report - Batch QC Results

Metals, Prep Batch ID: MTD-061424-2

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Blank (BLK)

Lab Sample ID: MT4-24-0614A.079.LRB

Run in Batch: MT4-24-0614A, Run Date: 06/14/2024 12:41, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Chromium		ND	0.001	mg/L
Copper		ND	0.001	mg/L
Iron		ND	0.004	mg/L
Manganese		ND	0.001	mg/L
Nickel		ND	0.001	mg/L
Zinc		ND	0.001	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: MT4-24-0614A.078.LCS

Run in Batch: MT4-24-0614A, Run Date: 06/14/2024 12:39, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Chromium		99	85	115
Copper		99	85	115
Iron		99	85	115
Manganese		98	85	115
Nickel		95	85	115
Zinc		102	85	115

Matrix Spike (MS)

Lab Sample ID: MT4-24-0614A.099.MS, Parent Sample ID: S63008.01

Run in Batch: MT4-24-0614A, Run Date: 06/14/2024 13:02, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Chromium		102	75	125
Copper		97	75	125
Iron		84	75	125
Manganese		99	75	125
Nickel		97	75	125
Zinc		101	75	125

Matrix Spike (MS)

Lab Sample ID: MT4-24-0614A.110.MS, Parent Sample ID: S62916.10

Run in Batch: MT4-24-0614A, Run Date: 06/14/2024 13:16, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Chromium		98	75	125
Copper		92	75	125
Iron		75	75	125
Manganese		100	75	125
Nickel		97	75	125
Zinc		96	75	125

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-24-0614A.100.MSD, Parent Sample ID: MT4-24-0614A.099.MS

Run in Batch: MT4-24-0614A, Run Date: 06/14/2024 13:03, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Chromium		103	75	125	1	20
Copper		97	75	125	0	20

QC Report - Batch QC Results

Metals, Prep Batch ID: MTD-061424-2 (continued)

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Matrix Spike Duplicate (MSD) (continued)

Lab Sample ID: MT4-24-0614A.100.MSD, Parent Sample ID: MT4-24-0614A.099.MS

Run in Batch: MT4-24-0614A, Run Date: 06/14/2024 13:03, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Iron		108	75	125	3	20
Manganese		102	75	125	2	20
Nickel		98	75	125	1	20
Zinc		101	75	125	0	20

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-24-0614A.111.MSD, Parent Sample ID: MT4-24-0614A.110.MS

Run in Batch: MT4-24-0614A, Run Date: 06/14/2024 13:17, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Chromium		100	75	125	2	20
Copper		94	75	125	3	20
Iron		78	75	125	2	20
Manganese		101	75	125	1	20
Nickel		96	75	125	0	20
Zinc		97	75	125	1	20

QC Report - Batch QC Results

Metals, Prep Batch ID: MTD-061424-6

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Blank (BLK)

Lab Sample ID: MT4-24-0614C.015.LRB

Run in Batch: MT4-24-0614C, Run Date: 06/14/2024 16:06, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Sodium		ND	0.05	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: MT4-24-0614C.014.LCS

Run in Batch: MT4-24-0614C, Run Date: 06/14/2024 16:02, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Sodium		108	85	115

Matrix Spike (MS)

Lab Sample ID: MT4-24-0614C.035.MS, Parent Sample ID: S62916.10

Run in Batch: MT4-24-0614C, Run Date: 06/14/2024 16:21, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 50

Analyte	Flags	% Rec	LCL	UCL
Sodium		105	75	125

Matrix Spike (MS)

Lab Sample ID: MT4-24-0614C.060.MS, Parent Sample ID: S63008.03

Run in Batch: MT4-24-0614C, Run Date: 06/14/2024 16:42, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 50

Analyte	Flags	% Rec	LCL	UCL
Sodium		105	75	125

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-24-0614C.036.MSD, Parent Sample ID: MT4-24-0614C.035.MS

Run in Batch: MT4-24-0614C, Run Date: 06/14/2024 16:22, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 50

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Sodium		106	75	125	1	20

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-24-0614C.061.MSD, Parent Sample ID: MT4-24-0614C.060.MS

Run in Batch: MT4-24-0614C, Run Date: 06/14/2024 16:43, Prep Date: 06/14/2024, Matrix: Liquid, Dilution: 50

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Sodium		100	75	125	4	20

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240611W4

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: 240611B7.BLKW11B

Run in Batch: 240611B7, Run Date: 06/12/2024 02:49, Prep Date: 06/11/2024, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Diethyl ether		ND	1.00	ug/l
Acetone		ND	10.00	ug/l
Methyl iodide		ND	1.00	ug/l
Carbon disulfide		ND	1.00	ug/l
tert-Methyl butyl ether (MTBE)		ND	1.00	ug/l
Acrylonitrile		ND	1.00	ug/l
2-Butanone (MEK)		ND	10.00	ug/l
Dichlorodifluoromethane		ND	1.00	ug/l
Chloromethane		ND	1.00	ug/l
Vinyl chloride		ND	1.00	ug/l
Bromomethane		ND	1.00	ug/l
Chloroethane		ND	1.00	ug/l
Trichlorofluoromethane		ND	1.00	ug/l
1,1-Dichloroethene		ND	1.00	ug/l
Methylene chloride		ND	1.00	ug/l
trans-1,2-Dichloroethene		ND	1.00	ug/l
1,1-Dichloroethane		ND	1.00	ug/l
cis-1,2-Dichloroethene		ND	1.00	ug/l
Tetrahydrofuran		ND	10.00	ug/l
Chloroform		ND	1.00	ug/l
Bromochloromethane		ND	1.00	ug/l
1,1,1-Trichloroethane		ND	1.00	ug/l
4-Methyl-2-pentanone (MIBK)		ND	10.00	ug/l
2-Hexanone		ND	10.00	ug/l
Carbon tetrachloride		ND	1.00	ug/l
Benzene		ND	1.00	ug/l
1,2-Dichloroethane		ND	1.00	ug/l
Trichloroethene		ND	1.00	ug/l
1,2-Dichloropropane		ND	1.00	ug/l
Bromodichloromethane		ND	1.00	ug/l
Dibromomethane		ND	1.00	ug/l
cis-1,3-Dichloropropene		ND	1.00	ug/l
Toluene		ND	1.00	ug/l
trans-1,3-Dichloropropene		ND	1.00	ug/l
1,1,2-Trichloroethane		ND	1.00	ug/l
Tetrachloroethene		ND	1.00	ug/l
trans-1,4-Dichloro-2-butene		ND	1.00	ug/l
Dibromochloromethane		ND	1.00	ug/l
1,2-Dibromoethane		ND	1.00	ug/l
Chlorobenzene		ND	1.00	ug/l
1,1,1,2-Tetrachloroethane		ND	1.00	ug/l
Ethylbenzene		ND	1.00	ug/l
p,m-Xylene		ND	2.00	ug/l
o-Xylene		ND	1.00	ug/l
Styrene		ND	1.00	ug/l
Isopropylbenzene		ND	1.00	ug/l

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240611W4 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Blank (BLK) (continued)

Lab Sample ID: 240611B7.BLKW11B

Run in Batch: 240611B7, Run Date: 06/12/2024 02:49, Prep Date: 06/11/2024, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Bromoform		ND	1.00	ug/l
1,1,2,2-Tetrachloroethane		ND	1.00	ug/l
1,2,3-Trichloropropane		ND	1.00	ug/l
n-Propylbenzene		ND	1.00	ug/l
Bromobenzene		ND	1.00	ug/l
1,3,5-Trimethylbenzene		ND	1.00	ug/l
tert-Butylbenzene		ND	1.00	ug/l
1,2,4-Trimethylbenzene		ND	1.00	ug/l
sec-Butylbenzene		ND	1.00	ug/l
p-Isopropyltoluene		ND	1.00	ug/l
1,3-Dichlorobenzene		ND	1.00	ug/l
1,4-Dichlorobenzene		ND	1.00	ug/l
1,2-Dichlorobenzene		ND	1.00	ug/l
1,2,3-Trimethylbenzene		ND	1.00	ug/l
n-Butylbenzene		ND	1.00	ug/l
Hexachloroethane		ND	1.00	ug/l
1,2-Dibromo-3-chloropropane		ND	1.00	ug/l
1,2,4-Trichlorobenzene		ND	1.00	ug/l
1,2,3-Trichlorobenzene		ND	1.00	ug/l
Naphthalene		ND	1.00	ug/l
2-Methylnaphthalene		ND	1.00	ug/l

Laboratory Control Sample (LCS)

Lab Sample ID: 240611B7.LCSW11B

Run in Batch: 240611B7, Run Date: 06/12/2024 01:15, Prep Date: 06/11/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Diethyl ether		92.9	67.4	121.2
Acetone		82.2	29.9	161.5
Methyl iodide		108.2	68.8	116.4
Carbon disulfide		99.0	63.8	137.4
tert-Methyl butyl ether (MTBE)		99.4	73.2	122.4
Acrylonitrile		98.8	69.9	128.9
2-Butanone (MEK)		90.7	44.0	134.4
Dichlorodifluoromethane		83.9	10.0	222.8
Chloromethane		92.0	23.8	166.5
Vinyl chloride		94.3	43.5	149.1
Bromomethane		111.9	56.8	151.3
Chloroethane		97.5	53.4	149.4
Trichlorofluoromethane		97.5	59.7	151.8
1,1-Dichloroethene		87.3	69.6	139.4
Methylene chloride		103.7	73.3	121.1
trans-1,2-Dichloroethene		96.7	73.6	129.3
1,1-Dichloroethane		99.6	71.5	126.2
cis-1,2-Dichloroethene		103.7	76.6	122.1
Tetrahydrofuran		83.7	59.0	117.9
Chloroform		93.5	78.4	124.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240611W4 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: 240611B7.LCSW11B

Run in Batch: 240611B7, Run Date: 06/12/2024 01:15, Prep Date: 06/11/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Bromochloromethane		103.8	78.2	120.8
1,1,1-Trichloroethane		95.1	79.4	130.9
4-Methyl-2-pentanone (MIBK)		104.9	71.6	125.2
2-Hexanone		104.6	55.4	136.9
Carbon tetrachloride		97.4	72.6	133.0
Benzene		104.7	79.9	124.9
1,2-Dichloroethane		91.9	76.0	126.3
Trichloroethene		95.0	79.7	124.2
1,2-Dichloropropane		104.0	78.6	126.4
Bromodichloromethane		106.0	80.4	128.2
Dibromomethane		108.1	76.9	122.1
cis-1,3-Dichloropropene		110.5	79.8	129.9
Toluene		103.9	79.8	124.5
trans-1,3-Dichloropropene		108.9	74.0	131.3
1,1,2-Trichloroethane		102.8	78.7	123.1
Tetrachloroethene		104.1	74.5	124.5
trans-1,4-Dichloro-2-butene		112.5	68.6	135.4
Dibromochloromethane		113.6	74.6	127.2
1,2-Dibromoethane		108.9	70.3	133.7
Chlorobenzene		109.0	79.2	122.7
1,1,1,2-Tetrachloroethane		114.6	80.3	128.2
Ethylbenzene		106.9	79.5	129.1
p,m-Xylene		110.3	79.4	132.2
o-Xylene		108.5	80.2	131.0
Styrene		113.7	69.5	126.7
Isopropylbenzene		108.0	74.4	121.5
Bromoform		116.9	69.4	128.0
1,1,2,2-Tetrachloroethane		105.5	79.8	126.3
1,2,3-Trichloropropane		102.1	78.3	138.8
n-Propylbenzene		98.5	82.0	130.7
Bromobenzene		111.0	78.7	124.6
1,3,5-Trimethylbenzene		114.0	81.3	128.9
tert-Butylbenzene		106.1	80.7	128.9
1,2,4-Trimethylbenzene		113.9	81.4	130.8
sec-Butylbenzene		102.1	77.4	129.8
p-Isopropyltoluene		106.7	79.8	137.5
1,3-Dichlorobenzene		105.8	77.0	131.3
1,4-Dichlorobenzene		105.2	20.7	137.7
1,2-Dichlorobenzene		108.0	10.0	166.2
1,2,3-Trimethylbenzene		109.4	76.3	124.2
n-Butylbenzene		103.4	80.0	133.3
Hexachloroethane		121.9	23.8	138.1
1,2-Dibromo-3-chloropropane		95.7	21.2	189.4
1,2,4-Trichlorobenzene		119.3	27.4	143.4
1,2,3-Trichlorobenzene		121.1	75.4	131.4
Naphthalene		116.0	32.9	135.8

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240611W4 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: 240611B7.LCSW11B

Run in Batch: 240611B7, Run Date: 06/12/2024 01:15, Prep Date: 06/11/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
2-Methylnaphthalene		116.0	25.5	165.5

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 240611B7.LCSDW11B, Parent Sample ID: 240611B7.LCSW11B

Run in Batch: 240611B7, Run Date: 06/12/2024 01:38, Prep Date: 06/11/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Diethyl ether		90.3	67.4	121.2	2.9	30.0
Acetone		78.7	29.9	161.5	4.4	30.0
Methyl iodide		104.2	68.8	116.4	3.8	30.0
Carbon disulfide		95.4	63.8	137.4	3.7	30.0
tert-Methyl butyl ether (MTBE)		97.9	73.2	122.4	1.5	30.0
Acrylonitrile		93.4	69.9	128.9	5.7	30.0
2-Butanone (MEK)		84.8	44.0	134.4	6.7	30.0
Dichlorodifluoromethane		77.2	10.0	222.8	8.2	30.0
Chloromethane		86.8	23.8	166.5	5.8	30.0
Vinyl chloride		87.0	43.5	149.1	8.1	30.0
Bromomethane		105.8	56.8	151.3	5.6	30.0
Chloroethane		91.6	53.4	149.4	6.2	30.0
Trichlorofluoromethane		88.3	59.7	151.8	9.8	30.0
1,1-Dichloroethene		84.4	69.6	139.4	3.4	30.0
Methylene chloride		100.9	73.3	121.1	2.7	30.0
trans-1,2-Dichloroethene		91.7	73.6	129.3	5.3	30.0
1,1-Dichloroethane		95.0	71.5	126.2	4.7	30.0
cis-1,2-Dichloroethene		99.8	76.6	122.1	3.9	30.0
Tetrahydrofuran		81.5	59.0	117.9	2.6	30.0
Chloroform		89.9	78.4	124.0	3.9	30.0
Bromochloromethane		101.3	78.2	120.8	2.5	30.0
1,1,1-Trichloroethane		89.6	79.4	130.9	6.0	30.0
4-Methyl-2-pentanone (MIBK)		97.6	71.6	125.2	7.2	30.0
2-Hexanone		97.3	55.4	136.9	7.2	30.0
Carbon tetrachloride		91.8	72.6	133.0	6.0	30.0
Benzene		100.3	79.9	124.9	4.3	30.0
1,2-Dichloroethane		89.9	76.0	126.3	2.2	30.0
Trichloroethene		90.0	79.7	124.2	5.4	30.0
1,2-Dichloropropane		100.8	78.6	126.4	3.1	30.0
Bromodichloromethane		103.0	80.4	128.2	2.9	30.0
Dibromomethane		104.9	76.9	122.1	3.1	30.0
cis-1,3-Dichloropropene		107.1	79.8	129.9	3.1	30.0
Toluene		98.9	79.8	124.5	4.9	30.0
trans-1,3-Dichloropropene		106.5	74.0	131.3	2.2	30.0
1,1,2-Trichloroethane		100.5	78.7	123.1	2.3	30.0
Tetrachloroethene		97.3	74.5	124.5	6.8	30.0
trans-1,4-Dichloro-2-butene		105.9	68.6	135.4	6.0	30.0
Dibromochloromethane		110.9	74.6	127.2	2.4	30.0
1,2-Dibromoethane		105.2	70.3	133.7	3.5	30.0
Chlorobenzene		104.2	79.2	122.7	4.5	30.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240611W4 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample Duplicate (LCSD) (continued)

Lab Sample ID: 240611B7.LCSDW11B, Parent Sample ID: 240611B7.LCSW11B

Run in Batch: 240611B7, Run Date: 06/12/2024 01:38, Prep Date: 06/11/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
1,1,1,2-Tetrachloroethane		112.3	80.3	128.2	2.0	30.0
Ethylbenzene		101.2	79.5	129.1	5.5	30.0
p,m-Xylene		104.1	79.4	132.2	5.7	30.0
o-Xylene		103.7	80.2	131.0	4.6	30.0
Styrene		110.0	69.5	126.7	3.2	30.0
Isopropylbenzene		102.3	74.4	121.5	5.5	30.0
Bromoform		112.8	69.4	128.0	3.6	30.0
1,1,2,2-Tetrachloroethane		101.5	79.8	126.3	3.9	30.0
1,2,3-Trichloropropane		98.2	78.3	138.8	3.9	30.0
n-Propylbenzene		92.2	82.0	130.7	6.6	30.0
Bromobenzene		107.4	78.7	124.6	3.3	30.0
1,3,5-Trimethylbenzene		107.8	81.3	128.9	5.6	30.0
tert-Butylbenzene		100.7	80.7	128.9	5.2	30.0
1,2,4-Trimethylbenzene		108.8	81.4	130.8	4.6	30.0
sec-Butylbenzene		96.5	77.4	129.8	5.7	30.0
p-Isopropyltoluene		100.0	79.8	137.5	6.5	30.0
1,3-Dichlorobenzene		100.8	77.0	131.3	4.8	30.0
1,4-Dichlorobenzene		103.1	20.7	137.7	2.0	30.0
1,2-Dichlorobenzene		104.1	10.0	166.2	3.6	30.0
1,2,3-Trimethylbenzene		105.7	76.3	124.2	3.4	30.0
n-Butylbenzene		97.0	80.0	133.3	6.4	30.0
Hexachloroethane		117.5	23.8	138.1	3.7	30.0
1,2-Dibromo-3-chloropropane		90.3	21.2	189.4	5.8	30.0
1,2,4-Trichlorobenzene		115.6	27.4	143.4	3.2	30.0
1,2,3-Trichlorobenzene		118.8	75.4	131.4	1.9	30.0
Naphthalene		110.6	32.9	135.8	4.8	30.0
2-Methylnaphthalene		113.7	25.5	165.5	2.0	30.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240612W1

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: 240612A9.BLKW12A

Run in Batch: 240612A9, Run Date: 06/12/2024 14:16, Prep Date: 06/12/2024, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Diethyl ether		ND	1.00	ug/l
Acetone		ND	10.00	ug/l
Methyl iodide		ND	1.00	ug/l
Carbon disulfide		ND	1.00	ug/l
tert-Methyl butyl ether (MTBE)		ND	1.00	ug/l
Acrylonitrile		ND	1.00	ug/l
2-Butanone (MEK)		ND	10.00	ug/l
Dichlorodifluoromethane		ND	1.00	ug/l
Chloromethane		ND	1.00	ug/l
Vinyl chloride		ND	1.00	ug/l
Bromomethane		ND	1.00	ug/l
Chloroethane		ND	1.00	ug/l
Trichlorofluoromethane		ND	1.00	ug/l
1,1-Dichloroethene		ND	1.00	ug/l
Methylene chloride		ND	1.00	ug/l
trans-1,2-Dichloroethene		ND	1.00	ug/l
1,1-Dichloroethane		ND	1.00	ug/l
cis-1,2-Dichloroethene		ND	1.00	ug/l
Tetrahydrofuran		ND	10.00	ug/l
Chloroform		ND	1.00	ug/l
Bromochloromethane		ND	1.00	ug/l
1,1,1-Trichloroethane		ND	1.00	ug/l
4-Methyl-2-pentanone (MIBK)		ND	10.00	ug/l
2-Hexanone		ND	10.00	ug/l
Carbon tetrachloride		ND	1.00	ug/l
Benzene		ND	1.00	ug/l
1,2-Dichloroethane		ND	1.00	ug/l
Trichloroethene		ND	1.00	ug/l
1,2-Dichloropropane		ND	1.00	ug/l
Bromodichloromethane		ND	1.00	ug/l
Dibromomethane		ND	1.00	ug/l
cis-1,3-Dichloropropene		ND	1.00	ug/l
Toluene		ND	1.00	ug/l
trans-1,3-Dichloropropene		ND	1.00	ug/l
1,1,2-Trichloroethane		ND	1.00	ug/l
Tetrachloroethene		ND	1.00	ug/l
trans-1,4-Dichloro-2-butene		ND	1.00	ug/l
Dibromochloromethane		ND	1.00	ug/l
1,2-Dibromoethane		ND	1.00	ug/l
Chlorobenzene		ND	1.00	ug/l
1,1,1,2-Tetrachloroethane		ND	1.00	ug/l
Ethylbenzene		ND	1.00	ug/l
p,m-Xylene		ND	2.00	ug/l
o-Xylene		ND	1.00	ug/l
Styrene		ND	1.00	ug/l
Isopropylbenzene		ND	1.00	ug/l

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240612W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Blank (BLK) (continued)

Lab Sample ID: 240612A9.BLKW12A

Run in Batch: 240612A9, Run Date: 06/12/2024 14:16, Prep Date: 06/12/2024, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Bromoform		ND	1.00	ug/l
1,1,2,2-Tetrachloroethane		ND	1.00	ug/l
1,2,3-Trichloropropane		ND	1.00	ug/l
n-Propylbenzene		ND	1.00	ug/l
Bromobenzene		ND	1.00	ug/l
1,3,5-Trimethylbenzene		ND	1.00	ug/l
tert-Butylbenzene		ND	1.00	ug/l
1,2,4-Trimethylbenzene		ND	1.00	ug/l
sec-Butylbenzene		ND	1.00	ug/l
p-Isopropyltoluene		ND	1.00	ug/l
1,3-Dichlorobenzene		ND	1.00	ug/l
1,4-Dichlorobenzene		ND	1.00	ug/l
1,2-Dichlorobenzene		ND	1.00	ug/l
1,2,3-Trimethylbenzene		ND	1.00	ug/l
n-Butylbenzene		ND	1.00	ug/l
Hexachloroethane		ND	1.00	ug/l
1,2-Dibromo-3-chloropropane		ND	1.00	ug/l
1,2,4-Trichlorobenzene		ND	1.00	ug/l
1,2,3-Trichlorobenzene		ND	1.00	ug/l
Naphthalene		ND	1.00	ug/l
2-Methylnaphthalene		ND	1.00	ug/l

Laboratory Control Sample (LCS)

Lab Sample ID: 240612A9.LCSW12A

Run in Batch: 240612A9, Run Date: 06/12/2024 12:40, Prep Date: 06/12/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Diethyl ether		95.7	67.4	121.2
Acetone		79.7	29.9	161.5
Methyl iodide		101.3	68.8	116.4
Carbon disulfide		91.3	63.8	137.4
tert-Methyl butyl ether (MTBE)		98.0	73.2	122.4
Acrylonitrile		90.9	69.9	128.9
2-Butanone (MEK)		93.7	44.0	134.4
Dichlorodifluoromethane		88.5	10.0	222.8
Chloromethane		93.3	23.8	166.5
Vinyl chloride		96.5	43.5	149.1
Bromomethane		99.6	56.8	151.3
Chloroethane		97.6	53.4	149.4
Trichlorofluoromethane		96.2	59.7	151.8
1,1-Dichloroethene		89.9	69.6	139.4
Methylene chloride		92.4	73.3	121.1
trans-1,2-Dichloroethene		90.0	73.6	129.3
1,1-Dichloroethane		94.0	71.5	126.2
cis-1,2-Dichloroethene		97.4	76.6	122.1
Tetrahydrofuran		88.8	59.0	117.9
Chloroform		92.9	78.4	124.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240612W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: 240612A9.LCSW12A

Run in Batch: 240612A9, Run Date: 06/12/2024 12:40, Prep Date: 06/12/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Bromochloromethane		101.5	78.2	120.8
1,1,1-Trichloroethane		93.3	79.4	130.9
4-Methyl-2-pentanone (MIBK)		88.3	71.6	125.2
2-Hexanone		89.8	55.4	136.9
Carbon tetrachloride		97.6	72.6	133.0
Benzene		92.5	79.9	124.9
1,2-Dichloroethane		88.8	76.0	126.3
Trichloroethene		96.1	79.7	124.2
1,2-Dichloropropane		92.3	78.6	126.4
Bromodichloromethane		97.9	80.4	128.2
Dibromomethane		100.6	76.9	122.1
cis-1,3-Dichloropropene		98.6	79.8	129.9
Toluene		94.2	79.8	124.5
trans-1,3-Dichloropropene		97.6	74.0	131.3
1,1,2-Trichloroethane		98.5	78.7	123.1
Tetrachloroethene		99.0	74.5	124.5
trans-1,4-Dichloro-2-butene		98.8	68.6	135.4
Dibromochloromethane		105.2	74.6	127.2
1,2-Dibromoethane		101.3	70.3	133.7
Chlorobenzene		99.9	79.2	122.7
1,1,1,2-Tetrachloroethane		98.8	80.3	128.2
Ethylbenzene		99.6	79.5	129.1
p,m-Xylene		101.2	79.4	132.2
o-Xylene		97.7	80.2	131.0
Styrene		102.0	69.5	126.7
Isopropylbenzene		100.7	74.4	121.5
Bromoform		103.7	69.4	128.0
1,1,2,2-Tetrachloroethane		101.1	79.8	126.3
1,2,3-Trichloropropane		97.1	78.3	138.8
n-Propylbenzene		98.5	82.0	130.7
Bromobenzene		101.0	78.7	124.6
1,3,5-Trimethylbenzene		103.0	81.3	128.9
tert-Butylbenzene		94.8	80.7	128.9
1,2,4-Trimethylbenzene		101.9	81.4	130.8
sec-Butylbenzene		94.1	77.4	129.8
p-Isopropyltoluene		99.0	79.8	137.5
1,3-Dichlorobenzene		98.6	77.0	131.3
1,4-Dichlorobenzene		100.3	20.7	137.7
1,2-Dichlorobenzene		98.8	10.0	166.2
1,2,3-Trimethylbenzene		103.2	76.3	124.2
n-Butylbenzene		99.0	80.0	133.3
Hexachloroethane		105.4	23.8	138.1
1,2-Dibromo-3-chloropropane		95.2	21.2	189.4
1,2,4-Trichlorobenzene		103.2	27.4	143.4
1,2,3-Trichlorobenzene		105.4	75.4	131.4
Naphthalene		103.7	32.9	135.8

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240612W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: 240612A9.LCSW12A

Run in Batch: 240612A9, Run Date: 06/12/2024 12:40, Prep Date: 06/12/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
2-Methylnaphthalene		99.4	25.5	165.5

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 240612A9.LCSDW12A, Parent Sample ID: 240612A9.LCSW12A

Run in Batch: 240612A9, Run Date: 06/12/2024 13:04, Prep Date: 06/12/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Diethyl ether		93.3	67.4	121.2	2.5	30.0
Acetone		79.6	29.9	161.5	0.2	30.0
Methyl iodide		96.9	68.8	116.4	4.5	30.0
Carbon disulfide		85.6	63.8	137.4	6.4	30.0
tert-Methyl butyl ether (MTBE)		96.1	73.2	122.4	1.9	30.0
Acrylonitrile		89.2	69.9	128.9	2.0	30.0
2-Butanone (MEK)		94.2	44.0	134.4	0.6	30.0
Dichlorodifluoromethane		83.1	10.0	222.8	6.3	30.0
Chloromethane		89.1	23.8	166.5	4.5	30.0
Vinyl chloride		90.1	43.5	149.1	6.9	30.0
Bromomethane		94.8	56.8	151.3	4.9	30.0
Chloroethane		92.4	53.4	149.4	5.5	30.0
Trichlorofluoromethane		90.3	59.7	151.8	6.3	30.0
1,1-Dichloroethene		85.1	69.6	139.4	5.5	30.0
Methylene chloride		89.8	73.3	121.1	2.9	30.0
trans-1,2-Dichloroethene		86.3	73.6	129.3	4.1	30.0
1,1-Dichloroethane		90.2	71.5	126.2	4.1	30.0
cis-1,2-Dichloroethene		93.6	76.6	122.1	3.9	30.0
Tetrahydrofuran		87.6	59.0	117.9	1.4	30.0
Chloroform		88.7	78.4	124.0	4.6	30.0
Bromochloromethane		98.6	78.2	120.8	2.8	30.0
1,1,1-Trichloroethane		89.7	79.4	130.9	4.0	30.0
4-Methyl-2-pentanone (MIBK)		88.8	71.6	125.2	0.6	30.0
2-Hexanone		89.5	55.4	136.9	0.4	30.0
Carbon tetrachloride		91.5	72.6	133.0	6.4	30.0
Benzene		88.4	79.9	124.9	4.5	30.0
1,2-Dichloroethane		84.8	76.0	126.3	4.6	30.0
Trichloroethene		90.1	79.7	124.2	6.5	30.0
1,2-Dichloropropane		88.6	78.6	126.4	4.1	30.0
Bromodichloromethane		93.7	80.4	128.2	4.4	30.0
Dibromomethane		98.1	76.9	122.1	2.6	30.0
cis-1,3-Dichloropropene		94.8	79.8	129.9	3.9	30.0
Toluene		88.5	79.8	124.5	6.2	30.0
trans-1,3-Dichloropropene		95.2	74.0	131.3	2.5	30.0
1,1,2-Trichloroethane		94.3	78.7	123.1	4.3	30.0
Tetrachloroethene		93.3	74.5	124.5	5.9	30.0
trans-1,4-Dichloro-2-butene		95.4	68.6	135.4	3.4	30.0
Dibromochloromethane		102.1	74.6	127.2	3.0	30.0
1,2-Dibromoethane		99.1	70.3	133.7	2.2	30.0
Chlorobenzene		96.4	79.2	122.7	3.6	30.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF240612W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample Duplicate (LCSD) (continued)

Lab Sample ID: 240612A9.LCSDW12A, Parent Sample ID: 240612A9.LCSW12A

Run in Batch: 240612A9, Run Date: 06/12/2024 13:04, Prep Date: 06/12/2024, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
1,1,1,2-Tetrachloroethane		94.7	80.3	128.2	4.2	30.0
Ethylbenzene		95.6	79.5	129.1	4.1	30.0
p,m-Xylene		95.5	79.4	132.2	5.7	30.0
o-Xylene		93.1	80.2	131.0	4.8	30.0
Styrene		99.0	69.5	126.7	3.0	30.0
Isopropylbenzene		95.9	74.4	121.5	4.9	30.0
Bromoform		102.0	69.4	128.0	1.6	30.0
1,1,2,2-Tetrachloroethane		99.0	79.8	126.3	2.0	30.0
1,2,3-Trichloropropane		95.3	78.3	138.8	1.8	30.0
n-Propylbenzene		93.8	82.0	130.7	4.9	30.0
Bromobenzene		95.3	78.7	124.6	5.8	30.0
1,3,5-Trimethylbenzene		97.2	81.3	128.9	5.8	30.0
tert-Butylbenzene		91.4	80.7	128.9	3.7	30.0
1,2,4-Trimethylbenzene		97.8	81.4	130.8	4.1	30.0
sec-Butylbenzene		89.5	77.4	129.8	5.0	30.0
p-Isopropyltoluene		94.2	79.8	137.5	4.9	30.0
1,3-Dichlorobenzene		94.3	77.0	131.3	4.5	30.0
1,4-Dichlorobenzene		96.2	20.7	137.7	4.2	30.0
1,2-Dichlorobenzene		95.7	10.0	166.2	3.2	30.0
1,2,3-Trimethylbenzene		98.7	76.3	124.2	4.5	30.0
n-Butylbenzene		93.4	80.0	133.3	5.8	30.0
Hexachloroethane		100.1	23.8	138.1	5.2	30.0
1,2-Dibromo-3-chloropropane		94.9	21.2	189.4	0.4	30.0
1,2,4-Trichlorobenzene		99.8	27.4	143.4	3.4	30.0
1,2,3-Trichlorobenzene		100.2	75.4	131.4	5.1	30.0
Naphthalene		101.7	32.9	135.8	2.0	30.0
2-Methylnaphthalene		100.6	25.5	165.5	1.2	30.0



2680 East Lansing Dr., East Lansing, MI 48823
 Phone (517) 332-0167 Fax (517) 332-4034
 www.meritlabs.com

C.O.C. PAGE # _____ OF _____

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME **Project Management Team**
 COMPANY **Merit Laboratories**
 ADDRESS **2680 East Lansing Drive**
 CITY **East Lansing** STATE **MI** ZIP CODE **48823**
 PHONE NO. **517-332-0167** FAX NO. _____ P.O. NO. _____
 E-MAIL ADDRESS **results@meritlabs.com** QUOTE NO. _____

CONTACT NAME **Julie Teague** SAME
 COMPANY **Merit Laboratories**
 ADDRESS **2680 East Lansing Drive**
 CITY **East Lansing** STATE **MI** ZIP CODE **48823**
 PHONE NO. **517-332-0167** E-MAIL ADDRESS **juliet@meritlabs.com**

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME **S63008** SAMPLER(S) - PLEASE PRINT/SIGN NAME _____
 TURNAROUND TIME REQUIRED 1 DAY 2 DAYS 3 DAYS STANDARD OTHER _____
 DELIVERABLES REQUIRED STD LEVEL II LEVEL III LEVEL IV EDD OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIFE A=AIR W=WASTE

Containers & Preservatives

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	TOX
	DATE	TIME											
	6/10/24	1200	S63008.01	GW	1				1				✓
	6/10/24	1415	S63008.02	GW	1				1				✓
	6/10/24	0001	S63008.03	GW	1				1				✓
	6/10/24	1515	S63008.04	GW	1				1				✓

Certifications
 OHIO VAP Drinking Water
 DoD NPDES
 Project Locations
 Detroit New York
 Other _____
 Special Instructions

(on ice)
 Subcontracted to
 GEL
 2040 Savage Road
 Charleston, SC 29407

RELINQUISHED BY: _____ DATE _____ TIME _____
 SIGNATURE/ORGANIZATION _____
 RECEIVED BY: *UPS* DATE *6/10/24* TIME *1700*
 SIGNATURE/ORGANIZATION _____
 RELINQUISHED BY: _____ DATE _____ TIME _____
 SIGNATURE/ORGANIZATION _____
 RECEIVED BY: _____ DATE _____ TIME _____
 SIGNATURE/ORGANIZATION _____

RELINQUISHED BY: _____ DATE _____ TIME _____
 SIGNATURE/ORGANIZATION _____
 RECEIVED BY: _____ DATE _____ TIME _____
 SIGNATURE/ORGANIZATION _____
 SEAL NO. SEAL INTACT INITIALS
 YES NO
 SEAL NO. SEAL INTACT INITIALS
 YES NO
 NOTES: TEMP. ON ARRIVAL _____

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Lab Results
Merit Laboratories
2680 E Lansing Drive
East Lansing, Michigan 48823

Generated 6/21/2024 6:38:49 PM

JOB DESCRIPTION

S63008

JOB NUMBER

190-34616-1

Eurofins Michigan

Job Notes

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Authorization



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Authorized for release by
Sue Schafer, Project Manager II
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Sample Summary

Client: Merit Laboratories
Project/Site: S63008

Job ID: 190-34616-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
190-34616-1	S63008.01	Water	06/10/24 12:00	06/13/24 10:54
190-34616-2	S63008.02	Water	06/10/24 14:15	06/13/24 10:54
190-34616-3	S63008.03	Water	06/10/24 00:01	06/13/24 10:54
190-34616-4	S63008.04	Water	06/10/24 15:15	06/13/24 10:54

1

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12

Case Narrative

Client: Merit Laboratories
Project: S63008

Job ID: 190-34616-1

Job ID: 190-34616-1

Eurofins Michigan

Job Narrative 190-34616-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/13/2024 10:54 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Michigan

Client Sample Results

Client: Merit Laboratories
Project/Site: S63008

Job ID: 190-34616-1

Client Sample ID: S63008.01

Lab Sample ID: 190-34616-1

Date Collected: 06/10/24 12:00

Matrix: Water

Date Received: 06/13/24 10:54

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C-2011)	1.1		1.0	mg/L			06/21/24 02:37	1

Client Sample ID: S63008.02

Lab Sample ID: 190-34616-2

Date Collected: 06/10/24 14:15

Matrix: Water

Date Received: 06/13/24 10:54

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C-2011)	1.6		1.0	mg/L			06/21/24 03:01	1

Client Sample ID: S63008.03

Lab Sample ID: 190-34616-3

Date Collected: 06/10/24 00:01

Matrix: Water

Date Received: 06/13/24 10:54

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C-2011)	1.2		1.0	mg/L			06/21/24 03:25	1

Client Sample ID: S63008.04

Lab Sample ID: 190-34616-4

Date Collected: 06/10/24 15:15

Matrix: Water

Date Received: 06/13/24 10:54

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C-2011)	<1.0		1.0	mg/L			06/21/24 03:49	1

QC Sample Results

Client: Merit Laboratories
Project/Site: S63008

Job ID: 190-34616-1

Method: 5310C-2011 - Total Organic Carbon/Persulfate - Ultrav

Lab Sample ID: MB 240-617468/5

Matrix: Water

Analysis Batch: 617468

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.0		1.0	mg/L			06/20/24 16:16	1

Lab Sample ID: LCS 240-617468/21

Matrix: Water

Analysis Batch: 617468

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	16.3	16.0		mg/L		99	85 - 115
TOC Result 1	16.3	15.9		mg/L		98	85 - 115
TOC Result 2	16.3	16.2		mg/L		99	85 - 115

Definitions/Glossary

Client: Merit Laboratories
Project/Site: S63008

Job ID: 190-34616-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Merit Laboratories
Project/Site: S63008

Job ID: 190-34616-1

General Chemistry

Analysis Batch: 617468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
190-34616-1	S63008.01	Total/NA	Water	5310C-2011	
190-34616-2	S63008.02	Total/NA	Water	5310C-2011	
190-34616-3	S63008.03	Total/NA	Water	5310C-2011	
190-34616-4	S63008.04	Total/NA	Water	5310C-2011	
MB 240-617468/5	Method Blank	Total/NA	Water	5310C-2011	
LCS 240-617468/21	Lab Control Sample	Total/NA	Water	5310C-2011	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Lab Chronicle

Client: Merit Laboratories
Project/Site: S63008

Job ID: 190-34616-1

Client Sample ID: S63008.01

Lab Sample ID: 190-34616-1

Date Collected: 06/10/24 12:00

Matrix: Water

Date Received: 06/13/24 10:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	5310C-2011		1	617468	QUY8	EET CLE	06/21/24 02:37

Client Sample ID: S63008.02

Lab Sample ID: 190-34616-2

Date Collected: 06/10/24 14:15

Matrix: Water

Date Received: 06/13/24 10:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	5310C-2011		1	617468	QUY8	EET CLE	06/21/24 03:01

Client Sample ID: S63008.03

Lab Sample ID: 190-34616-3

Date Collected: 06/10/24 00:01

Matrix: Water

Date Received: 06/13/24 10:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	5310C-2011		1	617468	QUY8	EET CLE	06/21/24 03:25

Client Sample ID: S63008.04

Lab Sample ID: 190-34616-4

Date Collected: 06/10/24 15:15

Matrix: Water

Date Received: 06/13/24 10:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	5310C-2011		1	617468	QUY8	EET CLE	06/21/24 03:49

Client Sample ID: Method Blank

Lab Sample ID: MB 240-617468/5

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	5310C-2011		1	617468	QUY8	EET CLE	06/20/24 16:16

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 240-617468/21

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	5310C-2011		1	617468	QUY8	EET CLE	06/20/24 22:38

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Analyst References:

Lab: EET CLE

Batch Type: Analysis

QUY8 = Colin Frimel

Accreditation/Certification Summary

Client: Merit Laboratories
Project/Site: S63008

Job ID: 190-34616-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	06-30-24
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

Method Summary

Client: Merit Laboratories
Project/Site: S63008

Job ID: 190-34616-1

Method	Method Description	Protocol	Laboratory
5310C-2011	Total Organic Carbon/Persulfate - Ultrav	SM	EET CLE

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396



Temp: 4.4°C



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

MICHIGAN
C.O.C. PAGE # 190

OF _____

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Project Management Team
 COMPANY Merit Laboratories
 ADDRESS 2680 East Lansing Drive
 CITY East Lansing STATE MI ZIP CODE 48823
 PHONE NO. 517-332-0167 FAX NO. P.O. NO.
 E-MAIL ADDRESS results@meritlabs.com QUOTE NO.

CONTACT NAME Julie Teague SAME
 COMPANY Merit Laboratories
 ADDRESS 2680 East Lansing Drive
 CITY East Lansing STATE MI ZIP CODE 48823
 PHONE NO. 517-332-0167 E-MAIL ADDRESS juliet@meritlabs.com

PROJECT NO./NAME S63008 SAMPLER(S) - PLEASE PRINT/SIGN NAME
 TURNAROUND TIME REQUIRED 1 DAY 2 DAYS 3 DAYS STANDARD OTHER
 DELIVERABLES REQUIRED STD LEVEL II LEVEL III LEVEL IV EDD OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIFE A=AIR W=WASTE

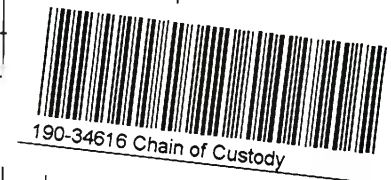
MERIT LAB NO. <small>FOR LAB USE ONLY</small>	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives							TOC	
	DATE	TIME				NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER		
	6/10/24	1200	S63008.01	GW	2				2					✓
	6/10/24	1415	S63008.02	GW	2				2					✓
	6/10/24	0001	S63008.03	GW	2				2					✓
	6/10/24	1515	S63008.04	GW	2				2					✓

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
 OHIO VAP Drinking Water
 DoD NPDES

Project Locations
 Detroit New York
 Other _____

Special Instructions
 Method SM5310C



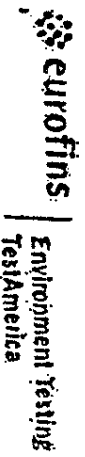
Eurofins

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE TIME
 RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME
 RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE TIME
 RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE TIME
 RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME
 SEAL NO. SEAL INTACT YES NO INITIALS
 SEAL NO. SEAL INTACT YES NO INITIALS
 NOTES: TEMP. ON ARRIVAL _____

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE





Cooler / Sample Receipt

After hours receipt: complete gray areas. Place cooler in walk-in, place form in Receiving box. Date: _____ Time: _____

- SDS or Known Hazard Information Supplied by Client
 - Discrepancies
 - Short Hold
 - Rush 24 Hr 2-Day 3-Day 5-Day Other: _____
- Client ID: _____
Work Order #: _____
Date: _____ Time: _____

Method of Shipment:

Walk-In Client Eurofins TA Field/Courier
 Other Client / 3rd Party Courier: _____
 Fed Ex Tracking #: _____
 UPS Tracking #: _____
 Other: _____

Shipping Container Type:

- Cooler Box Other: _____
 - None
- Packing Materials:**
 Plastic Bags Foam
 Bubble Wrap Paper
 Packing Peanuts None
 Other: _____
- Custody Seals Intact:**
 Yes No
 NA (not used or required)
- Cooling Materials:**
 Ice (Solid) Ice (Melted)
 Blue Ice None
 Other: _____

Bacteriological Samples	Temp Corrected (°C)	Frozen?	Rec'd Within 2 Hrs?	Sample Flagged?
		Yes No	Yes No	Yes No

Received on same day sampled? Yes No Additional Sheets Required? Yes No

Receipt Temperatures

Thermometer ID	Observed (°C)	Corrected (°C)	Temp Blank	Sample Temp	Acceptable	Cooler ID	Affected Samples
CP313205	4.4	4.4			Y		
					Y		
					N		
					Y		
					N		
					Y		
					N		

Receipt Questions**	Y	N	NA	"No" answers require additional comment
CoC present and ETA receipt signature, date, and time properly documented?				
Containers and Labels in good condition? (unbroken, not leaking, appropriately filled, labels legible & attached)				Preserved bottles checked for pH? Yes No
Appropriate containers used and adequate volume provided?				pH strip lot # _____
Number of sample containers match CoC?				
Samples received within hold?				
Samples submitted for GRO and Volatiles analysis (8260, 624, 524) received without headspace?				
Was a Trip Blank received with VOA samples?				
Were the samples free of any questionable physical conformities? (i.e.; field duplicates or multiple bottles of the same sample do not significantly vary in appearance -- color, solid proportions, etc.)				
Were the CoC bottle labels and all other items free of all other discrepancies or issues that would need to be addressed with the Project Manager and/or Client?				
**May not be applicable if samples are not for compliance testing				*Excludes FOG, VOAs, TOC Vials, HEM

Client Contact Record

Contact Via: Phone Email Other: _____ Person Contacted: _____ Date/Time: _____

Discrepancy allowance agreement is on record in the client project file

Discussion / Resolution

Any additional documentation and clarification from the client must be noted in the narrative and/or scanned into the CoC directory.
 Reviewed by _____ Date: _____

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:		Lab PM: Schafer, Sue		Carrier Tracking No(s):		COC No: 190-39399.1					
Client Contact: Shipping/Receiving		Phone:		E-Mail: Sue.Schafer@et.eurofinsus.com		State of Origin: Michigan		Page: Page 1 of 1					
Company: Eurofins Environment Testing North Centr				Accreditations Required (See note):				Job #: 190-34616-1					
Address: 180 S. Van Buren Avenue,		Due Date Requested: 6/26/2024		Analysis Requested						Preservation Codes:			
City: Barberton		TAT Requested (days):											
State, Zip: OH, 44203		PO #:											
Phone: 330-497-9396(Tel) 330-497-0772(Fax)		WO #:											
Email:													
Project Name: Merit Laboratories S63008		Project #: 19001249		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		6310C/ TOC		Total Number of containers			
Site:		SSOW#:											
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Preservation Code:		Other: R003 Special Instructions/Note:	
S63008.01 (190-34616-1)		6/10/24		12:00 Eastern		Water						2	
S63008.02 (190-34616-2)		6/10/24		14:15 Eastern		Water						2	
S63008.03 (190-34616-3)		6/10/24		00:01 Eastern		Water						2	
S63008.04 (190-34616-4)		6/10/24		15:15 Eastern		Water						2	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.</p>													
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
Unconfirmed						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2		Special Instructions/QC Requirements:							
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:					
Relinquished by: <i>[Signature]</i>		Date/Time: 6/10/24 1700		Company: EETA		Received by: J. MOROSIKO		Date/Time: 6/11/24 0800		Company: [Signature]			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:			



Eurofins - Cleveland Sample Receipt Form/Narrative Login # _____
 Barberton Facility

Client Eurofins Michigan Site Name _____ Cooler unpacked by: J. MOROSKO

Cooler Received on 06/19/24 Opened on 06/19/24
 FedEx, 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours Drop-off Date/Time _____ Storage Location _____
 Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used. Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT. Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN # 17 (CF TD.2 °C) Observed Cooler Temp. 11 °C Corrected Cooler Temp 1.3 °C

2 Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No NA
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
 -Were tamper/custody seals intact and uncompromised? Yes No NA
 3 Shippers' packing slip attached to the cooler(s)? Yes No NA
 4 Did custody papers accompany the sample(s)? Yes No NA
 5 Were the custody papers relinquished & signed in the appropriate place? Yes No NA
 6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes No NA
 7 Did all bottles arrive in good condition (Unbroken)? Yes No NA
 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No NA
 9 For each sample, does the COC specify preservatives (Y/N) # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No NA

Tests that are not checked for pH by Receiving
 VOAs
 Oil and Grease
 TOC

10 Were correct bottle(s) used for the test(s) indicated? Yes No NA
 11 Sufficient quantity received to perform indicated analyses? Yes No NA
 12 Are these work share samples and all listed on the COC? Yes No NA
 13 If yes, Questions 13-17 have been checked at the originating laboratory
 13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH strip Lot# HC339814
 14 Were VOAs on the COC? Yes No NA
 15 Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No NA
 17 Was a LL Hg or Me Hg trip blank present? Yes No NA

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. SAMPLE CONDITION
 Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container
 Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION
 Sample(s) _____ were further preserved in the laboratory
 Time preserved. _____ Preservative(s) added/Lot number(s) _____
 VOA Sample Preservation - Date/Time VOAs Frozen. _____

June 27, 2024

John Laverty
Merit Laboratories Inc.
2680 East Lansing Drive
East Lansing, Michigan 48823

Re: Halogen Analysis
Work Order: 671210
SDG: S63008

Dear John Laverty:

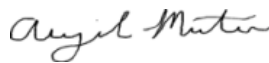
GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 12, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 1614.

Sincerely,



Abigail Martin for
Delaney Stonesmith
Project Manager

Purchase Order: GELP20-0014
Enclosures

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

MERI001 Merit Laboratories, Inc.

Client SDG: S63008 GEL Work Order: 671210

The Qualifiers in this report are defined as follows:

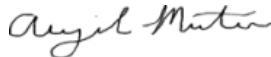
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Delaney Stonesmith.

Reviewed by _____



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 27, 2024

Company : Merit Laboratories Inc.
Address : 2680 East Lansing Drive

East Lansing, Michigan 48823

Contact: John Lavery
Project: Halogen Analysis

Client Sample ID:	S63008.01	Project:	MERI00220
Sample ID:	671210001	Client ID:	MERI001
Matrix:	Ground Water		
Collect Date:	10-JUN-24 12:00		
Receive Date:	12-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis												
SW9020B TOX (Organic Halogen) "As Received"												
Total Organic Halogens	U	ND	3.33	10.0	ug/L		1	JS13	06/26/24	1942	2632233	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9020B		

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 27, 2024

Company : Merit Laboratories Inc.
Address : 2680 East Lansing Drive

East Lansing, Michigan 48823

Contact: John Lavery
Project: Halogen Analysis

Client Sample ID:	S63008.02	Project:	MERI00220
Sample ID:	671210002	Client ID:	MERI001
Matrix:	Ground Water		
Collect Date:	10-JUN-24 14:15		
Receive Date:	12-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis												
SW9020B TOX (Organic Halogen) "As Received"												
Total Organic Halogens	U	ND	3.33	10.0	ug/L		1	JS13	06/26/24	2117	2632233	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9020B		

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 27, 2024

Company : Merit Laboratories Inc.
Address : 2680 East Lansing Drive

East Lansing, Michigan 48823

Contact: John Lavery
Project: Halogen Analysis

Client Sample ID:	S63008.03	Project:	MERI00220
Sample ID:	671210003	Client ID:	MERI001
Matrix:	Ground Water		
Collect Date:	10-JUN-24 00:01		
Receive Date:	12-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis												
SW9020B TOX (Organic Halogen) "As Received"												
Total Organic Halogens	U	ND	3.33	10.0	ug/L		1	JS13	06/26/24	2208	2632233	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9020B		

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: June 27, 2024

Page 1 of 2

Merit Laboratories Inc.
2680 East Lansing Drive
East Lansing, Michigan

Contact: John Laverty

Workorder: 671210

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Halogen Analysis											
Batch	2632233										
QC1205773058	671210001	DUP									
Total Organic Halogens	U	ND	J	4.28	ug/L	200			JS13	06/26/24	20:01
QC1205773057	LCS										
Total Organic Halogens	100			102	ug/L		102	(73%-117%)		06/26/24	19:23
QC1205773056	MB										
Total Organic Halogens			U	ND	ug/L					06/26/24	19:03
QC1205773059	671210001	MS									
Total Organic Halogens	100	U	ND	83.5	ug/L		80.9	(55%-128%)		06/26/24	20:41

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

GEL LABORATORIES LLC

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QC Summary

Workorder: 671210

Page 2 of 2

Parname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
N1											
R											
B											
e											
J											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**General Chemistry
Technical Case Narrative
Merit Laboratories, Inc.
SDG #: S63008
Work Order #: 671210**

Product: Total Organic Halogens (TOX)

Analytical Method: SW846 9020B

Analytical Procedure: GL-GC-E-007 REV# 17

Analytical Batch: 2632233

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
671210001	S63008.01
671210002	S63008.02
671210003	S63008.03
671210004	S63008.04
1205773056	Method Blank (MB)
1205773057	Laboratory Control Sample (LCS)
1205773058	671210001(S63008.01) Sample Duplicate (DUP)
1205773059	671210001(S63008.01) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

A pair of nitrate wash blanks is analyzed at the start of the batch. Although they are designated as ICB, they are performed for calculating purposes only. The value of the nitrate wash blanks are averaged and subtracted from all samples. Neither of these values should exceed 0.6 ug Cl. The PQL limit typically applied to ICB results does not apply in this application, since the results are used only to determine background concentrations and are subtracted from all calculated results.

Breakthrough effect

Breakthrough effect: If the value for a sample is greater than the reporting limit (10 ug/L), the result for the second slug should not be greater than 25% of the combined value of the first and second slug. Results which do not meet these criteria are designated with a "Fail" comment in the Breakthrough effect column on the Logbook page; however, the "fail" designation is not applicable for samples with a result of less than 10 ug/L.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

671210

C.O.C. PAGE # OF

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com



REPORT TO

CONTACT NAME Project Management Team

COMPANY Merit Laboratories

ADDRESS 2680 East Lansing Drive

CITY East Lansing

PHONE NO. 517-332-0167

E-MAIL ADDRESS results@meritlabs.com

CHAIN OF CUSTODY RECORD

CONTACT NAME Julie Teague

COMPANY Merit Laboratories

ADDRESS 2680 East Lansing Drive

CITY East Lansing

PHONE NO. 517-332-0167

E-MAIL ADDRESS juliet@meritlabs.com

INVOICE TO

CONTACT NAME SAME

STATE MI

ZIP CODE 48823

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME S63008

TURNAROUND TIME REQUIRED 1 DAY 2 DAYS 3 DAYS STANDARD OTHER

DELIVERABLES REQUIRED STD LEVEL II LEVEL III LEVEL IV EDD OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
SL=SLUDGE DW=DRINKING WATER O=OIL WP=WPIPE A=AIR W=WASTE

MERT LAB NO. FOR LAB USE ONLY	YEAR	DATE		IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives										
		DATE	TIME				NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER				
	6/10/24	1200		S63008.01	GW	1			1								
	6/10/24	1415		S63008.02	GW	1			1								
	6/10/24	0001		S63008.03	GW	1			1								
	6/10/24	1515		S63008.04	GW	1			1								

XOL ✓ ✓ ✓ ✓

Certifications
 OHIO VAP Drinking Water
 DoD NPDES
Project Locations
 Detroit New York
 Other
Special Instructions

(on ice)
Subcontracted to
GEL
2040 Savage Road
Charleston, SC 29407

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
SEAL NO.	SEAL INTACT	INITIALS
SEAL NO.	SEAL INTACT	INITIALS
NOTES:		TEMP. ON ARRIVAL

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

SAMPLE RECEIPT & REVIEW FORM

Client: <u>NERI</u>		SDG/AR/COC/Work Order: <u>071210</u>		<u>DS</u>
Received By: <u>Thyasia Tatum</u>		Date Received: <u>6/12/24</u>		
Carrier and Tracking Number		FedEx Express FedEx Ground <u>UPS</u> Field Services Courier Other <u>12 4000 477 01 0354 7890</u>		
Suspected Hazard Information		Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?			<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
B) Did the client designate the samples are to be received as radioactive?			<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?			<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?			<input checked="" type="checkbox"/>	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?			<input checked="" type="checkbox"/>	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:
Sample Receipt Criteria		Yes	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>10</u>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Temperature Device Serial #: <u>IR2-23</u> Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
				Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
				Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed):				

PM (or PMA) review: Initials AM Date 6/12/24 Page 1 of 1

List of current GEL Certifications as of 27 June 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-08
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

APPENDIX D
VAULT A & SUMP A - ANALYTICAL TABLES



TABLE 1
RACER Trust - Coldwater Road
Landfill Leak Detection Vaults - Historical Analytical Results
Inorganics and Metals

Vault	Sample Date	Indicator Parameters					Dissolved Metals (ug/L)			
		TOC (mg/L)	TSS (mg/L)	pH	SpC	Temp	Cr	Cu	Ni	Zn
		<i>EGLE Residential Drinking Water Criteria & RBSLs</i>					<i>100 (A)</i>	<i>1,000 (E)</i>	<i>100 (A)</i>	<i>2,400</i>
Vault A	23-Mar-95	4.6	<1	7.50	690	--	<20	<20	<40	180
	20-Jun-95	8.9	2.0	6.80	1900	--	24	21	<30	<20
	30-Aug-95	8.2	2.0	6.90	2000	--	<20	<20	<40	<20
	28-Nov-95	9.1	<1	7.00	1900	--	23	31	43	24
	27-Mar-96	140.0	<10	7.20	2000	--	<20	<20	46	<20
	18-Jun-96	12.0	<10	6.90	2000	--	<20	<20	<20	<20
	20-Aug-96	32.0	<5	7.10	1900	--	<20	<20	<20	30
	11-Nov-96	18.0	5.0	7.10	2000	--	<20	<20	30	60
	19-Feb-97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9-May-97	13.0	17.0	6.67	1940	9.7	<10	<6.7	71	90
	12-Aug-97	6.0	4.0	5.98	1810	12.8	<10	<10	88	60
	15-Nov-97	8.0	12.0	6.50	2000	12.0	<10	10	125	100
	9-Feb-98	6.0	8.0	6.40	1960	11.5	<10	<10	73	60
	14-May-98	12.0	15.0	6.90	1760	17.4	<10	20	13	200
	14-Aug-98	5.0	6.0	6.70	--	--	<10	<10	15	160
	13-Nov-98	5.0	12.0	6.50	1990	16.5	<10	<10	20	220
	19-Mar-99	5.7	8.0	6.80	1334	13.6	<10	10	14	60
	6-May-99	5.6	16.0	6.85	3250	26.2	<10	<10	15	20
	23-Jul-99	5.7	3.0	6.30	1470	18.9	<5	9	13	19
	22-Oct-99	5.0	3.0	5.86	1750	12.1	<10	<10	16	30
	14-Mar-00	5.6	<1	7.60	1410	10.7	<10	<10	15	20
	20-Jun-00	7.0	3.0	6.90	1410	18.3	<10	<10	12	20
	13-Sep-00	5.9	5.0	7.50	1650	15.1	<5	<10	14	20
	10-Nov-00	6.4	2.0	7.20	1470	11.8	<10	100	10	150
	12-Mar-01	6.0	1.0	7.43	1530	12.8	<10	<10	7	10
	24-May-01	9.4	10.0	7.56	1380	11.9	<10	<10	10	20
	31-Aug-01	5.3	10.6	7.49	1450	12.5	<5	<10	14	9
	16-Nov-01	5.1	3.0	6.77	1300	12.4	<10	<10	15	50
	8-Mar-02	NS	NS	NS	NS	NS	NS	NS	NS	NS
	31-May-02	2.4	54.0	7.23	1470	13.8	<10	<10	<5	40
	5-Sep-02	4.7	6.0	6.60	--	--	<5	<5	14	140
	12-Dec-02	NS	NS	NS	NS	NS	NS	NS	NS	NS
	18-Mar-03	6.7	8.0	6.81	1290	12	<5	<5	9	99
	4-Jun-03	2.0	11.0	6.78	1370	11.3	<5	<5	10	<5
	5-Oct-03	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8-Dec-03	NS	NS	NS	NS	NS	NS	NS	NS	NS
	27-Feb-04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30-Jun-04	4.5	55.0	6.99	1318	12.5	<5	<5	8	<5
	19-Nov-04	3.4	2.0	6.85	1120	11.4	6	<5	15	14
	19-Nov-04	4.4	4.0	--	--	--	6	<5	18	16
	15-Jun-05	6.0	8.0	6.00	1640	13.4	<5	<5	13	21
	17-Jan-06	5.9	12785	10.01	1630	8.4	<5	<5	13	8
	14-Feb-06	--	--	7.88	1800	8.5	--	--	14	--
	29-Jun-06	NS	NS	NS	NS	NS	NS	NS	NS	NS
	28-Nov-06	4.7	438	7.73	1940	13.2	<5	<4	13	6
6-Jun-07	4.9	11	6.76	1990	11.7	13	4	20	8	
12-Nov-07	5.9	70	6.76	2030	12.4	4	5	21	11	
24-Jun-08	5.0	371	6.89	2060	13.3	<5	<1	25	5	
17-Nov-08	5.8	23	6.06	2060	9.2	<5	<1	22	<5	
23-Jun-09	5.5	88	7.01	2050	13.6	<5	11	27	36	
17-Nov-09	6	8	7.07	2090	10.3	<5	<4	22	7	
14-Jun-10	6	10	7.05	2070	13.1	8	<4	16	6	
20-Jun-11	6.7	9	7.33	2010	12.2	30	<4	27	39	
14-Jul-11	--	--	--	--	--	<5	--	--	--	
14-Nov-11	7.0	316	6.93	2080	11.5	<5	<4	20	<5	
25-Jun-12	6.0	6	5.75	1870	11.9	<5	<4	25	<5	
25-Jun-12	6.0	6	5.75	1872	11.9	<5	6	25	10	
5-Dec-12	5.8	2	6.76	1820	10.6	<5	<4	24	10	
5-Dec-12	5.8	3	6.76	1814	10.6	<5	<4	24	8	
6-Jun-13	6.1	4	6.71	1882	11.0	<5	<4	22	<5	
4-Nov-13	5.0	<1	6.71	1630	11.2	<5	<4	18	<5	
23-Jun-14	5.0	3	6.82	1579	13.2	<5	<4	18	<5	
18-Nov-14	4.1	2	6.27	1525	6.6	<5	<4	25	20	
25-Jun-15	4.5	2	6.64	1507	11.2	<5	6	21	10	
17-Nov-15	3.6	1	6.64	1423	11.7	<5	<5	20	5	
21-Jun-16	3.8	<3	6.93	1364	12.0	<5	<5	14	<5	
21-Jun-16	3.9	<3	6.93	1362	12.0	<5	<5	13	<5	
28-Nov-16	3.3	<3	6.82	1378	11.4	<5	<5	15	<5	
19-Jun-17	4.2	<3	6.90	1450	11.4	<5	<5	15	<5	
6-Nov-17	3.6	<3	6.16	1363	11.8	<5	<5	17	<5	
11-Jun-18	4.3	<3	6.45	1447	11.0	<5	<5	15	10	
7-Nov-18	4.1	<3	6.50	1451	6.0	<5	<5	16	6	
29-May-19	8.4	<3	7.13	1436	9.1	<5	<5	15	<5	
19-Nov-19	5.8	<3	6.89	1291	10.6	<5	<5	15	<5	
15-Jun-20	7.9	<3	6.84	1378	17.2	<5	<5	11	<5	
4-Nov-20	6.7	<3	6.69	1010	14.4	<5	<5	12	<5	
16-Jun-21	6.6	<3	6.89	1247	12.9	<5	<5	5	<5	
4-Nov-21	6.6	<3	6.94	1187	13.9	<5	<5	11	5	
6-Jun-22	8.1	<3	7.21	1280	13.1	<5	<5	29	27	
1-Nov-22	8.1	<3	6.55	1219	11.6	<5	5	10	10	
6-Jun-23	1.8	<3	6.82	1310	13.0	<5	<5	11	<5	
7-Nov-23	1.8	<4	7.45	1450	11.4	<5	<5	18	6	
4-Jun-24	3.0	<3	6.86	1389	15.6	<5	<5	13	5	

See notes on page 6.



TABLE 2
RACER Trust - Coldwater Road
Landfill Leak Detection Sumps - Historical Analytical Results
Inorganics and Metals

Sump	Sample Date	Indicator Parameters					Dissolved Metals (ug/L)				
		TOC (mg/L)	TSS (mg/L)	pH	SpC	Temp	Cr	Cu	Ni	Zn	
EGLE Residential Drinking Water Criteria & RBSLs											
							100 (A)	1,000 (E)	100 (A)	2,400	
Sump A	18-Jun-96	170.0	200	9.50	2800	--	50	4300	640	<20	
	11-Nov-96	350.0	3000	10.00	4400	--	150	8800	1300	30	
	7-May-97	85.0	62	7.86	2200	8.9	20	2450	422	10	
	5-Nov-97	110.0	14	8.50	2800	11.0	<1	1050	376	20	
	5-May-98	125.0	2	7.90	2280	9.1	40	1380	383	10	
	6-Nov-98	136.0	984	7.54	2750	11.7	40	2950	519	<10	
	26-Apr-99	110.0	253	9.49	1334	12.6	40	2380	375	<10	
	22-Oct-99	44.7	8	6.60	1750	12.1	20	960	155	30	
	20-Jun-00	53.4	16	8.20	1980	13.1	40	1160	187	20	
	10-Nov-00	66.7	31	7.70	2130	11.1	30	1050	174	20	
	24-May-01	70.0	16	8.59	2470	10.2	40	1030	163	20	
	16-Nov-01	69.6	300	7.87	2130	12.3	40	990	160	20	
	31-May-02	51.7	48	7.17	2340	15.3	80	880	127	20	
	12-Dec-03	55.2	25	7.40	1840	11.2	37	770	121	7	
	3-Jun-03	75.5	90	--	--	--	41	1180	156	22	
	8-Dec-03	67.0	115	8.75	2210	11.6	74	969	138	31	
	30-Jun-04	62.0	6	8.37	2501	12.6	104	1450	161	7	
	19-Nov-04	36.9	2.7	8.19	2070	11.4	31	492	70	20	
	15-Jun-05	89.0	18.0	8.95	3320	14.7	215	1930	200	<5	
	17-Jan-06	83.7	980.0	8.40	3970	6.9	70	1350	155	14	
	29-Jun-06	65.4	36.0	8.48	3640	11.7	192	1070	109	7	
	28-Nov-06	78.2	258	8.15	3660	12.9	132	1240	126	6	
	6-Jun-07	64.4	7	6.94	3350	10.0	95	1280	131	17	
	12-Nov-07	71.7	3	7.19	3970	11.8	41	1460	150	22	
	24-Jun-08	46.6	2	7.89	3210	12.4	123	1240	118	8	
	17-Nov-08	48.5	4	7.26	3670	10.6	65	1190	114	12	
	23-Jun-09	61.0	3	7.53	2900	12.8	222	1400	126	<5	
	17-Nov-09	69	40	8.42	3570	9.6	71	1040	100	14	
	14-Jun-10	120	4	9.09	2880	11.9	305	1380	124	<5	
	8-Nov-10	71	10	8.34	3560	10.9	113	1110	1030	23	
	20-Jun-11	52.4	3	9.18	2380	11.1	330	965	91	<5	
	14-Nov-11	62.0	1	8.09	3420	11.4	116	1000	94	6	
	25-Jun-12	53.0	3	7.40	3070	12.0	180	863	83	32	
	Duplicate	25-Jun-12	52.0	3	7.40	3070	12.0	183	882	86	5
	Duplicate	5-Dec-12	63.5	4	7.86	3640	9.2	115	1050	97	10
		5-Dec-12	63.5	4	7.86	3630	9.2	104	990	88	10
	Duplicate	6-Jun-13	50.2	5	9.11	2210	11.2	323	936	87	<5
		4-Nov-13	58.9	<1	7.96	3100	10.9	129	819	73	8
		23-Jun-14	49.2	58	8.84	2290	12.3	196	860	82	<5
		25-Jun-15	36.6	3	7.60	1831	11.5	452	437	42	27
21-Jun-16		39.8	<3	8.46	1866	12.0	317	645	55	<5	
21-Jun-16		39.9	<3	8.46	1867	12.0	315	659	54	<5	
19-Jun-17		40.1	<3	9.43	1716	12.9	317	554	52	<5	
11-Jun-18		35.1	50	7.93	1894	11.0	288	435	43	<5	
29-May-19		38.4	<3	7.90	1735	8.8	274	481	42	<5	
15-Jun-20		22.6	<3	8.83	1000	14.9	409	134	14	<5	
16-Jun-21		36.5	<3	8.09	1920	17.9	252	385	35	<5	
6-Jun-22		30.2	<3	8.07	1670	11.7	209	331	34	<5	
6-Jun-23	28.9	<3	7.83	1850	12.7	170	320	31	5		
	4-Jun-24	29.0	13.2	8.04	1681	15.8	237	310	33	5	

See notes on page 6.

**APPENDIX E
GROUNDWATER SAMPLING PROGRAM QA/QC SUMMARY**

Appendix E

Quality Assurance/Quality Control Summary

Data verification was independently performed by Ramboll Americas Engineering Solutions, Inc. (Ramboll), to assess the groundwater monitoring data quality for samples collected during the 2024 semiannual groundwater sampling event conducted in June 2024. Data verification was utilized to confirm the quality of the field and laboratory (Merit Laboratories, Inc. (Merit) of East Lansing, Michigan, Eurofins Environment Testing America subcontract for TOC analysis, and GEL Laboratories, LLC (GEL) subcontract for TOX analysis) data. The data verification included review of: (1) laboratory documentation, (2) chain-of-custody (COC) documentation, (3) target analyte results, (4) laboratory data qualifiers, if any, (5) laboratory reporting (quantitation) limits, (6) laboratory blank analysis, and (7) quality control samples, including duplicate samples.

The results of the data verification indicated the following:

- Laboratory documentation was complete.
- Chain-of-custody (COC) documentation was complete.
- Target analyte results were reported in accordance with the project requirements.
- Laboratory blank and trip blank analysis did not indicate evidence of artifacts from the sampling or analytical process (above reporting limit [RL]).
- Laboratory quantitation (or reporting) limits were within the project required limits for undiluted samples.
- No elevated RLs were reported due to matrix interference. Elevated RLs were only associated with samples requiring dilution prior to analysis. The percent recovery was greater than the lower and upper limits for cyanide and methyl iodide within the laboratory control sample and cyanide within the matrix spike sample.
- No breakthroughs exceeding 25% for TOX samples were reported.

The relative percent difference (RPD) for the duplicate sample results for B-20D and MW-DUP-06102024 (B-20D) were within acceptable limits.

Furthermore, the instrument utilized for measurement of field parameters calibrated within range (deviation from standard of less than 3 percent) for pH, oxidation reduction potential (ORP), specific conductivity (conductivity), and dissolved oxygen (DO); therefore, operated within manufacturers specifications during sample collection.

The data verification indicates that the overall usability of the groundwater monitoring data is acceptable for the intended use without further qualification or rejection of the data except for the chloride and chloromethane results which are treated as estimated values.

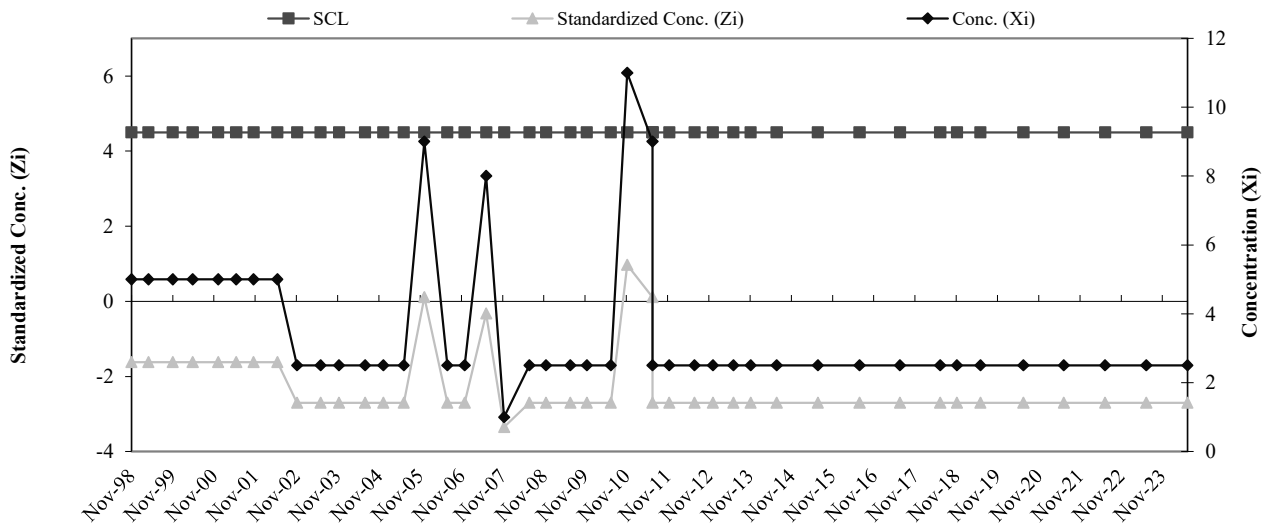
APPENDIX F
MONITORING WELL CONTROL CHARTS

COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-2D - OBG-MW-16D Cr

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	8.75	2.31
2	Aug-95	10		
3	Jun-96	10		
4	Aug-96	10		
5	Nov-96	10		
6	May-97	10		
7	Nov-97	5		
8	May-98	5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-98	4.5	5	-1.62	36	Nov-11	4.50	2.5	-2.70
10	Apr-99	4.5	5	-1.62	37	Jun-12	4.50	2.5	-2.70
11	Nov-99	4.5	5	-1.62	38	Dec-12	4.50	2.5	-2.70
12	Apr-00	4.5	5	-1.62	39	Jun-13	4.50	2.5	-2.70
13	Dec-00	4.5	5	-1.62	40	Nov-13	4.50	2.5	-2.70
14	May-01	4.5	5	-1.62	41	Jun-14	4.50	2.5	-2.70
15	Oct-01	4.5	5	-1.62	42	Jun-15	4.50	2.5	-2.70
16	May-02	4.5	5	-1.62	43	Jun-16	4.50	2.5	-2.70
17	Nov-02	4.5	2.5	-2.70	44	Jun-17	4.50	2.5	-2.70
18	Jun-03	4.5	2.5	-2.70	45	Jun-18	4.50	2.5	-2.70
19	Nov-03	4.5	2.5	-2.70	46	Nov-18	4.50	2.5	-2.70
20	Jun-04	4.5	2.5	-2.70	47	Jun-19	4.50	2.5	-2.70
21	Dec-04	4.5	2.5	-2.70	48	Jun-20	4.50	2.5	-2.70
22	Jun-05	4.5	2.5	-2.70	49	Jun-21	4.50	2.5	-2.70
23	Dec-05	4.5	9	0.11	50	Jun-22	4.50	2.5	-2.70
24	Jun-06	4.5	2.5	-2.70	51	Jun-23	4.50	2.5	-2.70
25	Nov-06	4.5	2.5	-2.70	52	Jun-24	4.50	2.5	-2.70
26	Jun-07	4.5	8	-0.32					
27	Nov-07	4.5	1	-3.35					
28	Jun-08	4.5	2.5	-2.70					
29	Nov-08	4.5	2.5	-2.70					
30	Jun-09	4.5	2.5	-2.70					
31	Nov-09	4.5	2.5	-2.70					
32	Jun-10	4.5	2.5	-2.70					
33	Nov-10	4.5	11	0.97					
34	Jun-11	4.5	9	0.11					
35	Jun-11	4.5	2.5	-2.70					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

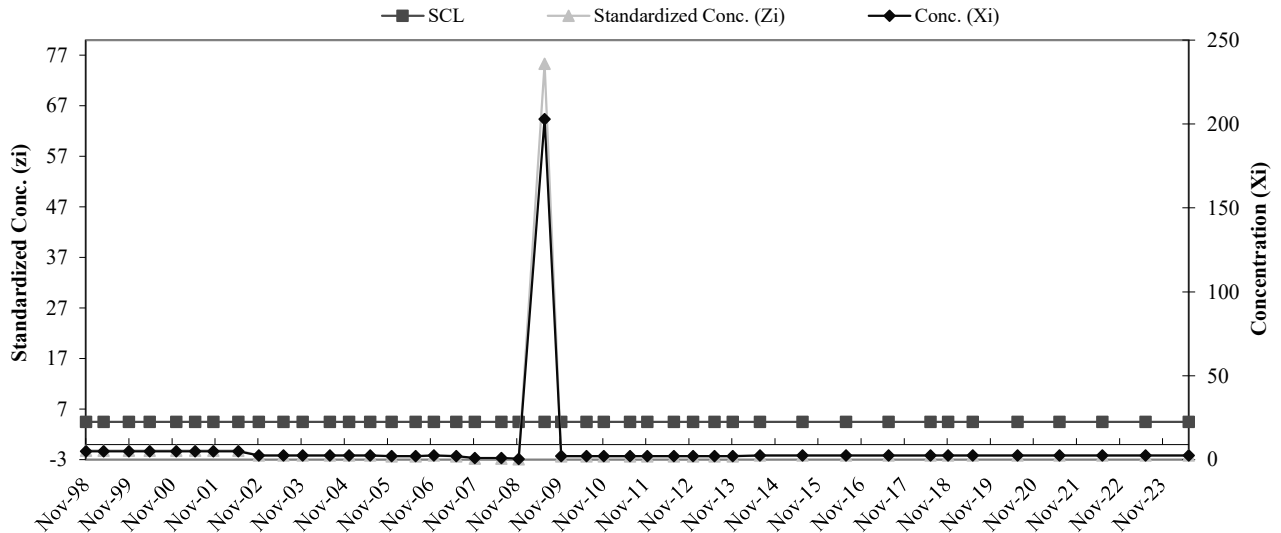


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-2D - OBG-MW-16D Cu

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	8.13	2.59
2	Aug-95	10		
3	Jun-96	10		
4	Aug-96	10		
5	Nov-96	10		
6	May-97	5		
7	Nov-97	5		
8	May-98	5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-98	4.5	5	-1.21	35	Nov-11	4.5	2	-2.37
10	Apr-99	4.5	5	-1.21	36	Jun-12	4.5	2	-2.37
11	Nov-99	4.5	5	-1.21	37	Dec-12	4.5	2	-2.37
12	Apr-00	4.5	5	-1.21	38	Jun-13	4.5	2	-2.37
13	Dec-00	4.5	5	-1.21	39	Nov-13	4.5	2	-2.37
14	May-01	4.5	5	-1.21	40	Jun-14	4.5	2.5	-2.17
15	Oct-01	4.5	5	-1.21	41	Jun-15	4.5	2.5	-2.17
16	May-02	4.5	5	-1.21	42	Jun-16	4.5	2.5	-2.17
17	Nov-02	4.5	2.5	-2.17	43	Jun-17	4.5	2.5	-2.17
18	Jun-03	4.5	2.5	-2.17	44	Jun-18	4.5	2.5	-2.17
19	Nov-03	4.5	2.5	-2.17	45	Nov-18	4.5	2.5	-2.17
20	Jun-04	4.5	2.5	-2.17	46	Jun-19	4.5	2.5	-2.17
21	Dec-04	4.5	2.5	-2.17	47	Jun-20	4.5	2.5	-2.17
22	Jun-05	4.5	2.5	-2.17	48	Jun-21	4.5	2.5	-2.17
23	Dec-05	4.5	2	-2.37	49	Jun-22	4.5	2.5	-2.17
24	Jun-06	4.5	2	-2.37	50	Jun-23	4.5	2.5	-2.17
25	Nov-06	4.5	2.5	-2.17	51	Jun-24	4.5	2.5	-2.17
26	Jun-07	4.5	2	-2.37					
27	Nov-07	4.5	1	-2.75					
28	Jun-08	4.5	1	-2.75					
29	Nov-08	4.5	0.5	-2.95					
30	Jun-09	4.5	203	75.31					
31	Nov-09	4.5	2	-2.37					
32	Jun-10	4.5	2	-2.37					
33	Nov-10	4.5	2	-2.37					
34	Jun-11	4.5	2	-2.37					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

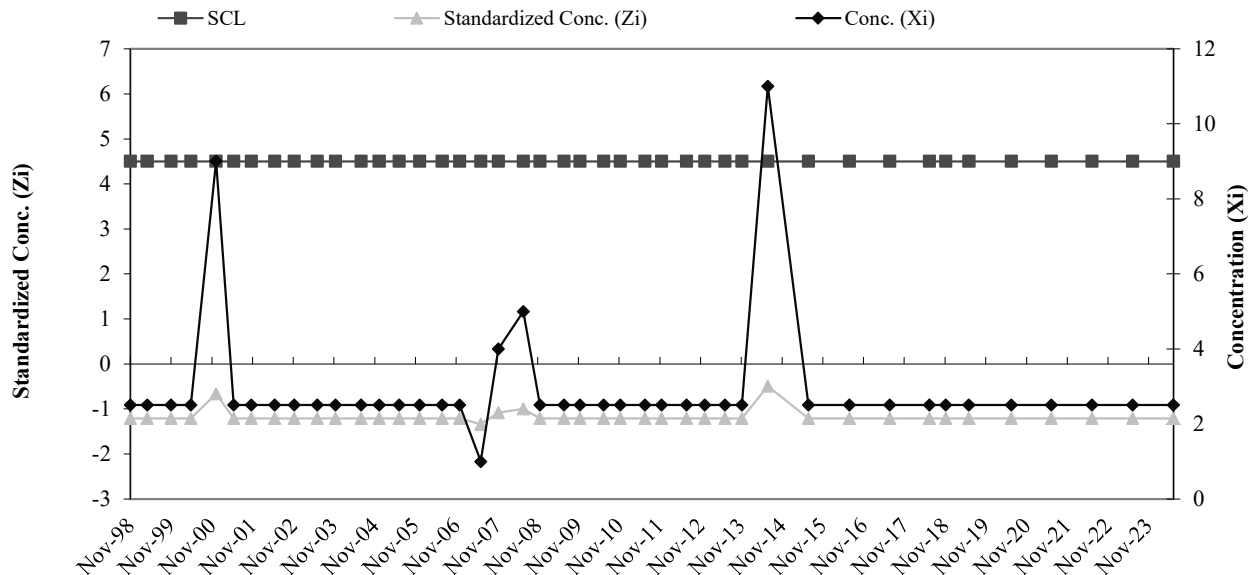


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-2D - OBG-MW-16D Ni

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	15	16.81	11.80
2	Aug-95	20		
3	Jun-96	10		
4	Aug-96	10		
5	Nov-96	10		
6	May-97	28		
7	Nov-97	39		
8	May-98	2.5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-98	4.5	2.5	-1.21	35	Nov-11	4.5	2.5	-1.21
10	Apr-99	4.5	2.5	-1.21	36	Jun-12	4.5	2.5	-1.21
11	Nov-99	4.5	2.5	-1.21	37	Dec-12	4.5	2.5	-1.21
12	Apr-00	4.5	2.5	-1.21	38	Jun-13	4.5	2.5	-1.21
13	Dec-00	4.5	9	-0.66	39	Nov-13	4.5	2.5	-1.21
14	May-01	4.5	2.5	-1.21	40	Jun-14	4.5	11	-0.49
15	Oct-01	4.5	2.5	-1.21	41	Jun-15	4.5	2.5	-1.21
16	May-02	4.5	2.5	-1.21	42	Jun-16	4.5	2.5	-1.21
17	Nov-02	4.5	2.5	-1.21	43	Jun-17	4.5	2.5	-1.21
18	Jun-03	4.5	2.5	-1.21	44	Jun-18	4.5	2.5	-1.21
19	Nov-03	4.5	2.5	-1.21	45	Nov-18	4.5	2.5	-1.21
20	Jun-04	4.5	2.5	-1.21	46	Jun-19	4.5	2.5	-1.21
21	Dec-04	4.5	2.5	-1.21	47	Jun-20	4.5	2.5	-1.21
22	Jun-05	4.5	2.5	-1.21	48	Jun-21	4.5	2.5	-1.21
23	Dec-05	4.5	2.5	-1.21	49	Jun-22	4.5	2.5	-1.21
24	Jun-06	4.5	2.5	-1.21	50	Jun-23	4.5	2.5	-1.21
25	Nov-06	4.5	2.5	-1.21	51	Jun-24	4.5	2.5	-1.21
26	Jun-07	4.5	1	-1.34					
27	Nov-07	4.5	4	-1.09					
28	Jun-08	4.5	5	-1.00					
29	Nov-08	4.5	2.5	-1.21					
30	Jun-09	4.5	2.5	-1.21					
31	Nov-09	4.5	2.5	-1.21					
32	Jun-10	4.5	2.5	-1.21					
33	Nov-10	4.5	2.5	-1.21					
34	Jun-11	4.5	2.5	-1.21					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

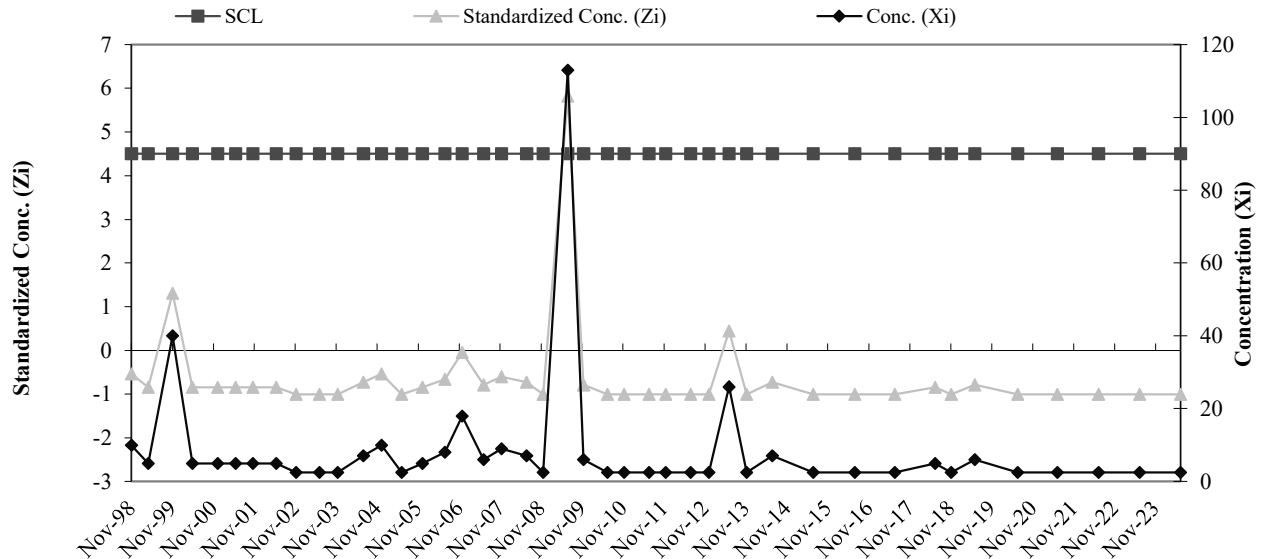


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-2D - OBG-MW-16D Zn

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	18.75	16.20
2	Aug-95	10		
3	Jun-96	10		
4	Aug-96	50		
5	Nov-96	30		
6	May-97	30		
7	Nov-97	5		
8	May-98	5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-98	4.5	10	-0.54	35	Nov-11	4.5	2.5	-1.00
10	Apr-99	4.5	5	-0.85	36	Jun-12	4.5	2.5	-1.00
11	Nov-99	4.5	40	1.31	37	Dec-12	4.5	2.5	-1.00
12	Apr-00	4.5	5	-0.85	38	Jun-13	4.5	26	0.45
13	Dec-00	4.5	5	-0.85	39	Nov-13	4.5	2.5	-1.00
14	May-01	4.5	5	-0.85	40	Jun-14	4.5	7	-0.73
15	Oct-01	4.5	5	-0.85	41	Jun-15	4.5	2.5	-1.00
16	May-02	4.5	5	-0.85	42	Jun-16	4.5	2.5	-1.00
17	Nov-02	4.5	2.5	-1.00	43	Jun-17	4.5	2.5	-1.00
18	Jun-03	4.5	2.5	-1.00	44	Jun-18	4.5	5	-0.85
19	Nov-03	4.5	2.5	-1.00	45	Nov-18	4.5	2.5	-1.00
20	Jun-04	4.5	7	-0.73	46	Jun-19	4.5	6	-0.79
21	Dec-04	4.5	10	-0.54	47	Jun-20	4.5	2.5	-1.00
22	Jun-05	4.5	2.5	-1.00	48	Jun-21	4.5	2.5	-1.00
23	Dec-05	4.5	5	-0.85	49	Jun-22	4.5	2.5	-1.00
24	Jun-06	4.5	8	-0.66	50	Jun-23	4.5	2.5	-1.00
25	Nov-06	4.5	18	-0.05	51	Jun-24	4.5	2.5	-1.00
26	Jun-07	4.5	6	-0.79					
27	Nov-07	4.5	9	-0.60					
28	Jun-08	4.5	7	-0.73					
29	Nov-08	4.5	2.5	-1.00					
30	Jun-09	4.5	113	5.82					
31	Nov-09	4.5	6	-0.79					
32	Jun-10	4.5	2.5	-1.00					
33	Nov-10	4.5	2.5	-1.00					
34	Jun-11	4.5	2.5	-1.00					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

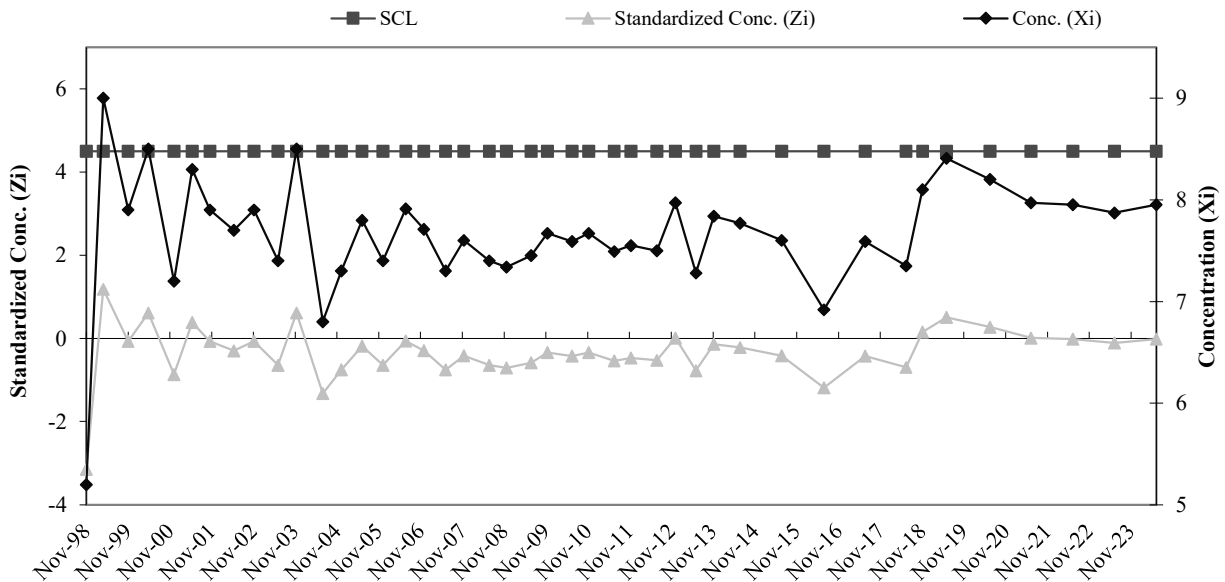


**COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-2D - OBG-MW-16D pH**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	9.00	7.46	0.88
2	Aug-95	8.30		
3	Jun-96	7.50		
4	Aug-96	7.70		
5	Nov-96	7.30		
6	May-97	6.30		
7	Nov-97	6.90		
8	May-98	6.70		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-98	4.5	4.70	-3.15	35	Nov-11	4.5	7.05	-0.47
10	Apr-99	4.5	8.50	1.18	36	Jun-12	4.5	7.00	-0.53
11	Nov-99	4.5	7.40	-0.07	37	Dec-12	4.5	7.47	0.01
12	Apr-00	4.5	8.00	0.61	38	Jun-13	4.5	6.78	-0.78
13	Dec-00	4.5	6.70	-0.87	39	Nov-13	4.5	7.34	-0.14
14	May-01	4.5	7.80	0.38	40	Jun-14	4.5	7.27	-0.22
15	Oct-01	4.5	7.40	-0.07	41	Jun-15	4.5	7.10	-0.41
16	May-02	4.5	7.20	-0.30	42	Jun-16	4.5	6.42	-1.19
17	Nov-02	4.5	7.40	-0.07	43	Jun-17	4.5	7.09	-0.42
18	Jun-03	4.5	6.90	-0.64	44	Jun-18	4.5	6.85	-0.70
19	Nov-03	4.5	8.00	0.61	45	Nov-18	4.5	7.60	0.16
20	Jun-04	4.5	6.30	-1.32	46	Jun-19	4.5	7.91	0.51
21	Dec-04	4.5	6.80	-0.75	47	Jun-20	4.5	7.70	0.27
22	Jun-05	4.5	7.30	-0.19	48	Jun-21	4.5	7.47	0.01
23	Dec-05	4.5	6.90	-0.64	49	Jun-22	4.5	7.45	-0.01
24	Jun-06	4.5	7.41	-0.06	50	Jun-23	4.5	7.37	-0.11
25	Nov-06	4.5	7.21	-0.29	51	Jun-24	4.5	7.45	-0.01
26	Jun-07	4.5	6.80	-0.75					
27	Nov-07	4.5	7.10	-0.41					
28	Jun-08	4.5	6.90	-0.64					
29	Nov-08	4.5	6.84	-0.71					
30	Jun-09	4.5	6.95	-0.58					
31	Nov-09	4.5	7.17	-0.33					
32	Jun-10	4.5	7.09	-0.42					
33	Nov-10	4.5	7.17	-0.33					
34	Jun-11	4.5	6.99	-0.54					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

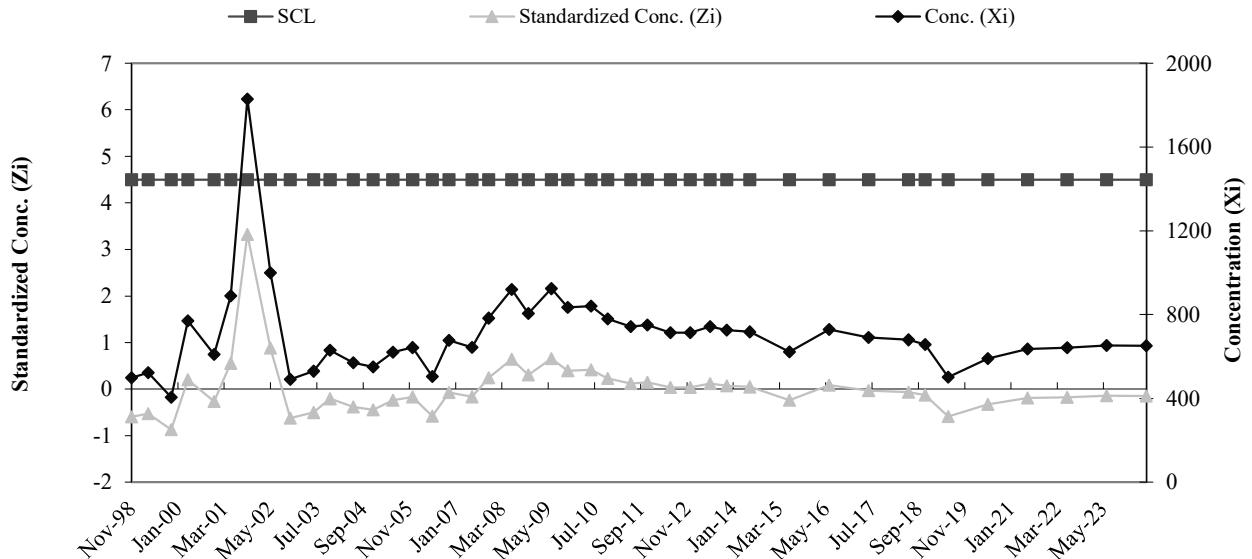


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-2D - OBG-MW-16D SpC

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	434.0	701.50	339.46
2	Aug-95	479.0		
3	Jun-96	580.0		
4	Aug-96	641.0		
5	Nov-96	769.0		
6	May-97	1500.0		
7	Nov-97	660.0		
8	May-98	549.0		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-98	4.5	498.0	-0.60	35	Nov-11	4.5	751.0	0.15
10	Apr-99	4.5	523.0	-0.53	36	Jun-12	4.5	714.0	0.04
11	Nov-99	4.5	405.0	-0.87	37	Dec-12	4.5	714.0	0.04
12	Apr-00	4.5	770.0	0.20	38	Jun-13	4.5	742.0	0.12
13	Dec-00	4.5	610.0	-0.27	39	Nov-13	4.5	726.0	0.07
14	May-01	4.5	890.0	0.56	40	Jun-14	4.5	717.0	0.05
15	Oct-01	4.5	1830.0	3.32	41	Jun-15	4.5	621.0	-0.24
16	May-02	4.5	1000.0	0.88	42	Jun-16	4.5	730.0	0.08
17	Nov-02	4.5	490.0	-0.62	43	Jun-17	4.5	691.0	-0.03
18	Jun-03	4.5	530.0	-0.51	44	Jun-18	4.5	679.0	-0.07
19	Nov-03	4.5	630.0	-0.21	45	Nov-18	4.5	657.0	-0.13
20	Jun-04	4.5	570.0	-0.39	46	Jun-19	4.5	501.0	-0.59
21	Dec-04	4.5	550.0	-0.45	47	Jun-20	4.5	590.0	-0.33
22	Jun-05	4.5	620.0	-0.24	48	Jun-21	4.5	636.0	-0.19
23	Dec-05	4.5	642.0	-0.18	49	Jun-22	4.5	641.0	-0.18
24	Jun-06	4.5	504.1	-0.58	50	Jun-23	4.5	653.0	-0.14
25	Nov-06	4.5	677.0	-0.07	51	Jun-24	4.5	650.0	-0.15
26	Jun-07	4.5	644.0	-0.17					
27	Nov-07	4.5	783.0	0.24					
28	Jun-08	4.5	920.0	0.64					
29	Nov-08	4.5	806.0	0.31					
30	Jun-09	4.5	924.0	0.66					
31	Nov-09	4.5	835.0	0.39					
32	Jun-10	4.5	841.0	0.41					
33	Nov-10	4.5	779.0	0.23					
34	Jun-11	4.5	742.0	0.12					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean



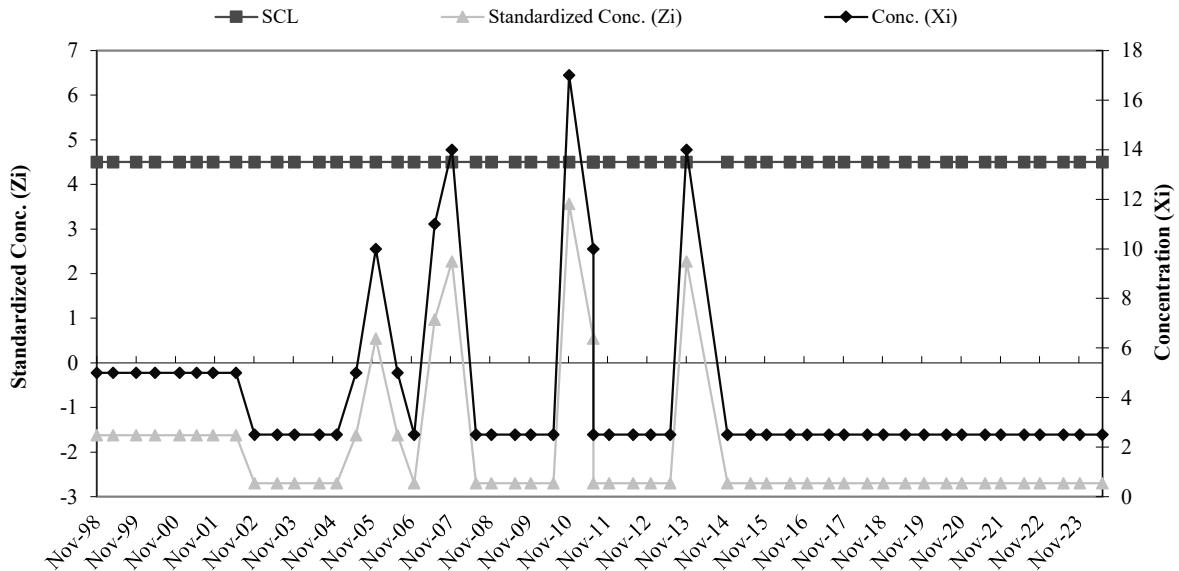
**COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART**

B-7 Cr

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	8.75	2.31
2	Aug-95	10		
3	Feb-96	10		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	May-97	5		
8	May-98	5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-98	4.5	5	-1.62	37	Jun-12	4.5	2.5	-2.70
10	Apr-99	4.5	5	-1.62	38	Dec-12	4.5	2.5	-2.70
11	Nov-99	4.5	5	-1.62	39	Jun-13	4.5	2.5	-2.70
12	Apr-00	4.5	5	-1.62	40	Nov-13	4.5	14	2.27
13	Dec-00	4.5	5	-1.62	41	Nov-14	4.5	2.5	-2.70
14	May-01	4.5	5	-1.62	42	Jun-15	4.5	2.5	-2.70
15	Oct-01	4.5	5	-1.62	43	Nov-15	4.5	2.5	-2.70
16	May-02	4.5	5	-1.62	44	Jun-16	4.5	2.5	-2.70
17	Nov-02	4.5	2.5	-2.70	45	Nov-16	4.5	2.5	-2.70
18	Jun-03	4.5	2.5	-2.70	46	Jun-17	4.5	2.5	-2.70
19	Nov-03	4.5	2.5	-2.70	47	Nov-17	4.5	2.5	-2.70
20	Jun-04	4.5	2.5	-2.70	48	Jun-18	4.5	2.5	-2.70
21	Dec-04	4.5	2.5	-2.70	49	Nov-18	4.5	2.5	-2.70
22	Jun-05	4.5	5	-1.62	50	May-19	4.5	2.5	-2.70
23	Dec-05	4.5	10	0.54	51	Nov-19	4.5	2.5	-2.70
24	Jun-06	4.5	5	-1.62	52	Jun-20	4.5	2.5	-2.70
25	Nov-06	4.5	2.5	-2.70	53	Nov-20	4.5	2.5	-2.70
26	Jun-07	4.5	11	0.97	54	Jun-21	4.5	2.5	-2.70
27	Nov-07	4.5	14	2.27	55	Nov-21	4.5	2.5	-2.70
28	Jun-08	4.5	2.5	-2.70	56	Jun-22	4.5	2.5	-2.70
29	Nov-08	4.5	2.5	-2.70	57	Nov-22	4.5	2.5	-2.70
30	Jun-09	4.5	2.5	-2.70	58	Jun-23	4.5	2.5	-2.70
31	Nov-09	4.5	2.5	-2.70	59	Nov-23	4.5	2.5	-2.70
32	Jun-10	4.5	2.5	-2.70	60	Jun-24	4.5	2.5	-2.70
33	Nov-10	4.5	17	3.56					
34	Jun-11	4.5	10	0.54					
35	Jun-11	4.5	2.5	-2.70					
36	Nov-11	4.5	2.5	-2.70					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

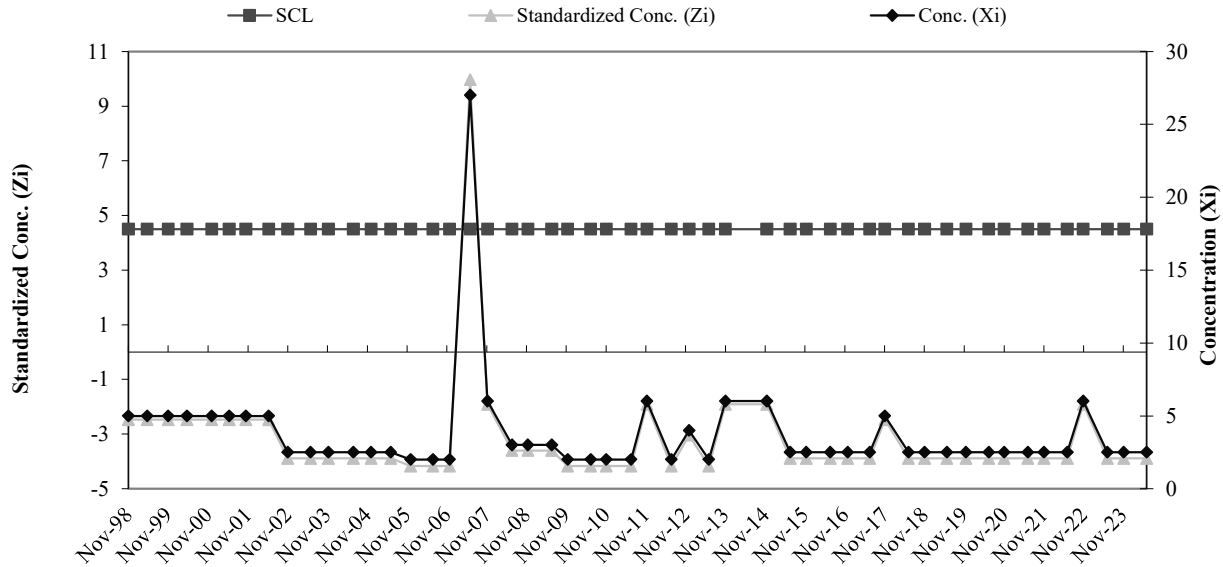


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-7 Cu

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	9.38	1.77
2	Aug-95	10		
3	Feb-96	10		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	May-97	10		
8	May-98	5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-98	4.5	5	-2.47	37	Dec-12	4.5	4	-3.04
10	Apr-99	4.5	5	-2.47	38	Jun-13	4.5	2	-4.17
11	Nov-99	4.5	5	-2.47	39	Nov-13	4.5	6	-1.91
12	Apr-00	4.5	5	-2.47	40	Nov-14	4.5	6	-1.91
13	Dec-00	4.5	5	-2.47	41	Jun-15	4.5	2.5	-3.89
14	May-01	4.5	5	-2.47	42	Nov-15	4.5	2.5	-3.89
15	Oct-01	4.5	5	-2.47	43	Jun-16	4.5	2.5	-3.89
16	May-02	4.5	5	-2.47	44	Nov-16	4.5	2.5	-3.89
17	Nov-02	4.5	2.5	-3.89	45	Jun-17	4.5	2.5	-3.89
18	Jun-03	4.5	2.5	-3.89	46	Nov-17	4.5	5	-2.47
19	Nov-03	4.5	2.5	-3.89	47	Jun-18	4.5	2.5	-3.89
20	Jun-04	4.5	2.5	-3.89	48	Nov-18	4.5	2.5	-3.89
21	Dec-04	4.5	2.5	-3.89	49	May-19	4.5	2.5	-3.89
22	Jun-05	4.5	2.5	-3.89	50	Nov-19	4.5	2.5	-3.89
23	Dec-05	4.5	2	-4.17	51	Jun-20	4.5	2.5	-3.89
24	Jun-06	4.5	2	-4.17	52	Nov-20	4.5	2.5	-3.89
25	Nov-06	4.5	2	-4.17	53	Jun-21	4.5	2.5	-3.89
26	Jun-07	4.5	27	9.97	54	Nov-21	4.5	2.5	-3.89
27	Nov-07	4.5	6	-1.91	55	Jun-22	4.5	2.5	-3.89
28	Jun-08	4.5	3	-3.61	56	Nov-22	4.5	6	-1.91
29	Nov-08	4.5	3	-3.61	57	Jun-23	4.5	2.5	-3.89
30	Jun-09	4.5	3	-3.61	58	Nov-23	4.5	2.5	-3.89
31	Nov-09	4.5	2	-4.17	59	Jun-24	4.5	2.5	-3.89
32	Jun-10	4.5	2	-4.17					
33	Nov-10	4.5	2	-4.17					
34	Jun-11	4.5	2	-4.17					
35	Nov-11	4.5	6	-1.91					
36	Jun-12	4.5	2	-4.17					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean



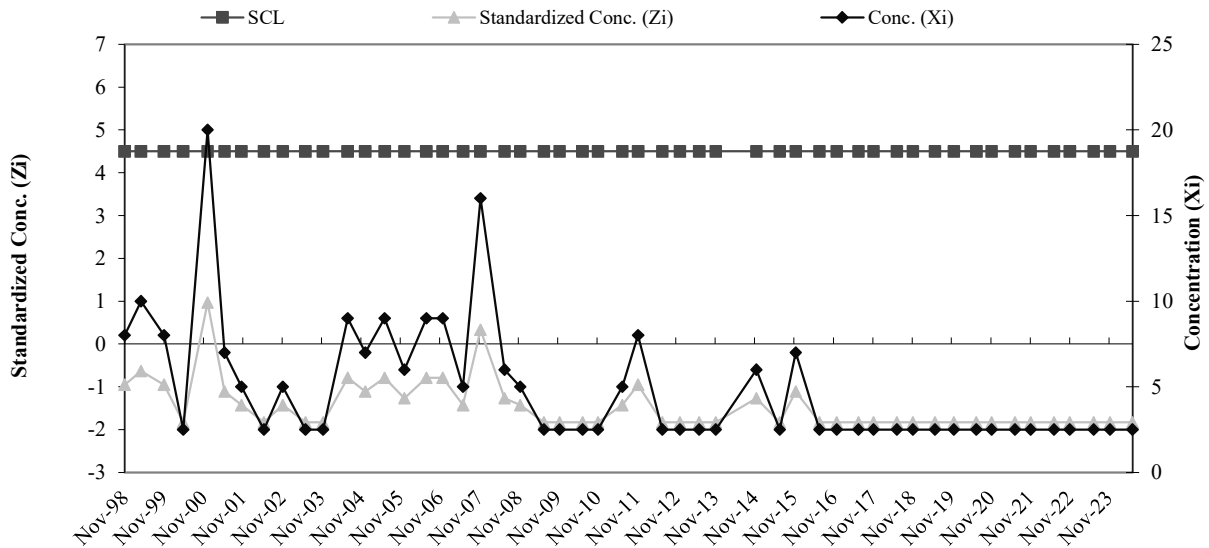
**COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART**

B-7 Ni

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	15	13.94	6.25
2	Aug-95	20		
3	Feb-96	20		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	20		
7	May-97	14		
8	May-98	2.5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-98	4.5	8	-0.95	37	Dec-12	4.5	2.5	-1.83
10	Apr-99	4.5	10	-0.63	38	Jun-13	4.5	2.5	-1.83
11	Nov-99	4.5	8	-0.95	39	Nov-13	4.5	2.5	-1.83
12	Apr-00	4.5	2.5	-1.83	40	Nov-14	4.5	6	-1.27
13	Dec-00	4.5	20	0.97	41	Jun-15	4.5	2.5	-1.83
14	May-01	4.5	7	-1.11	42	Nov-15	4.5	7	-1.11
15	Oct-01	4.5	5	-1.43	43	Jun-16	4.5	2.5	-1.83
16	May-02	4.5	2.5	-1.83	44	Nov-16	4.5	2.5	-1.83
17	Nov-02	4.5	5	-1.43	45	Jun-17	4.5	2.5	-1.83
18	Jun-03	4.5	2.5	-1.83	46	Nov-17	4.5	2.5	-1.83
19	Nov-03	4.5	2.5	-1.83	47	Jun-18	4.5	2.5	-1.83
20	Jun-04	4.5	9	-0.79	48	Nov-18	4.5	2.5	-1.83
21	Dec-04	4.5	7	-1.11	49	May-19	4.5	2.5	-1.83
22	Jun-05	4.5	9	-0.79	50	Nov-19	4.5	2.5	-1.83
23	Dec-05	4.5	6	-1.27	51	Jun-20	4.5	2.5	-1.83
24	Jun-06	4.5	9	-0.79	52	Nov-20	4.5	2.5	-1.83
25	Nov-06	4.5	9	-0.79	53	Jun-21	4.5	2.5	-1.83
26	Jun-07	4.5	5	-1.43	54	Nov-21	4.5	2.5	-1.83
27	Nov-07	4.5	16	0.33	55	Jun-22	4.5	2.5	-1.83
28	Jun-08	4.5	6	-1.27	56	Nov-22	4.5	2.5	-1.83
29	Nov-08	4.5	5	-1.43	57	Jun-23	4.5	2.5	-1.83
30	Jun-09	4.5	2.5	-1.83	58	Nov-23	4.5	2.5	-1.83
31	Nov-09	4.5	2.5	-1.83	59	Jun-24	4.5	2.5	-1.83
32	Jun-10	4.5	2.5	-1.83					
33	Nov-10	4.5	2.5	-1.83					
34	Jun-11	4.5	5	-1.43					
35	Nov-11	4.5	8	-0.95					
36	Jun-12	4.5	2.5	-1.83					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

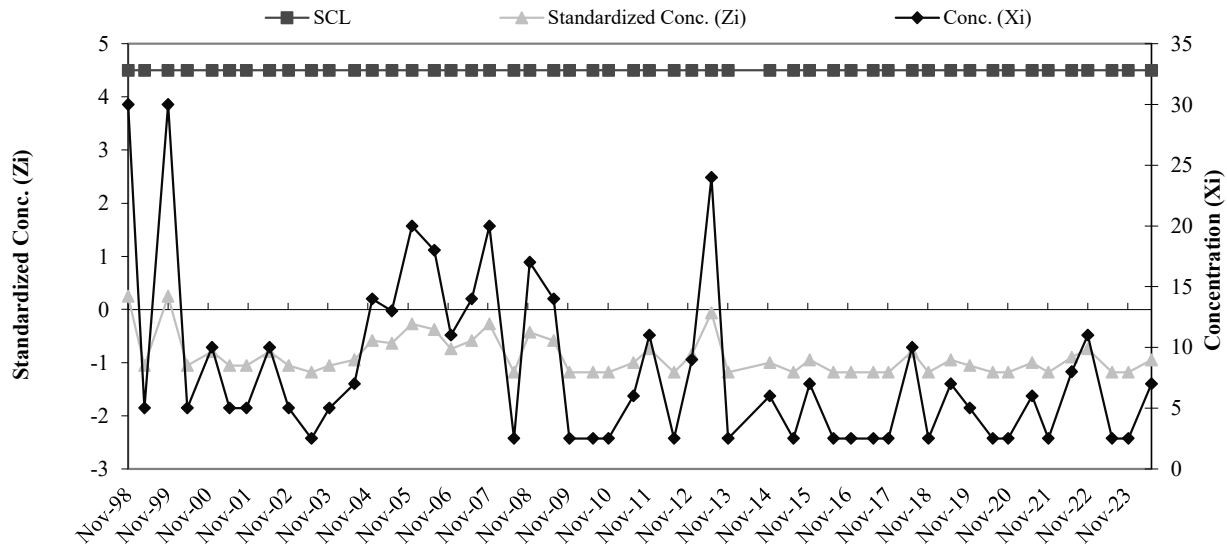


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-7 Zn

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	25.25	19.21
2	Aug-95	10		
3	Feb-96	22		
4	Jun-96	20		
5	Aug-96	60		
6	Nov-96	50		
7	May-97	10		
8	May-98	20		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-98	4.5	30	0.25	37	Dec-12	4.5	9	-0.85
10	Apr-99	4.5	5	-1.05	38	Jun-13	4.5	24	-0.07
11	Nov-99	4.5	30	0.25	39	Nov-13	4.5	2.5	-1.18
12	Apr-00	4.5	5	-1.05	40	Nov-14	4.5	6	-1.00
13	Dec-00	4.5	10	-0.79	41	Jun-15	4.5	2.5	-1.18
14	May-01	4.5	5	-1.05	42	Nov-15	4.5	7	-0.95
15	Oct-01	4.5	5	-1.05	43	Jun-16	4.5	2.5	-1.18
16	May-02	4.5	10	-0.79	44	Nov-16	4.5	2.5	-1.18
17	Nov-02	4.5	5	-1.05	45	Jun-17	4.5	2.5	-1.18
18	Jun-03	4.5	2.5	-1.18	46	Nov-17	4.5	2.5	-1.18
19	Nov-03	4.5	5	-1.05	47	Jun-18	4.5	10	-0.79
20	Jun-04	4.5	7	-0.95	48	Nov-18	4.5	2.5	-1.18
21	Dec-04	4.5	14	-0.59	49	May-19	4.5	7	-0.95
22	Jun-05	4.5	13	-0.64	50	Nov-19	4.5	5	-1.05
23	Dec-05	4.5	20	-0.27	51	Jun-20	4.5	2.5	-1.18
24	Jun-06	4.5	18	-0.38	52	Nov-20	4.5	2.5	-1.18
25	Nov-06	4.5	11	-0.74	53	Jun-21	4.5	6	-1.00
26	Jun-07	4.5	14	-0.59	54	Nov-21	4.5	2.5	-1.18
27	Nov-07	4.5	20	-0.27	55	Jun-22	4.5	8	-0.90
28	Jun-08	4.5	2.5	-1.18	56	Nov-22	4.5	11	-0.74
29	Nov-08	4.5	17	-0.43	57	Jun-23	4.5	2.5	-1.18
30	Jun-09	4.5	14	-0.59	58	Nov-23	4.5	2.5	-1.18
31	Nov-09	4.5	2.5	-1.18	59	Jun-24	4.5	7	-0.95
32	Jun-10	4.5	2.5	-1.18					
33	Nov-10	4.5	2.5	-1.18					
34	Jun-11	4.5	6	-1.00					
35	Nov-11	4.5	11	-0.74					
36	Jun-12	4.5	2.5	-1.18					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

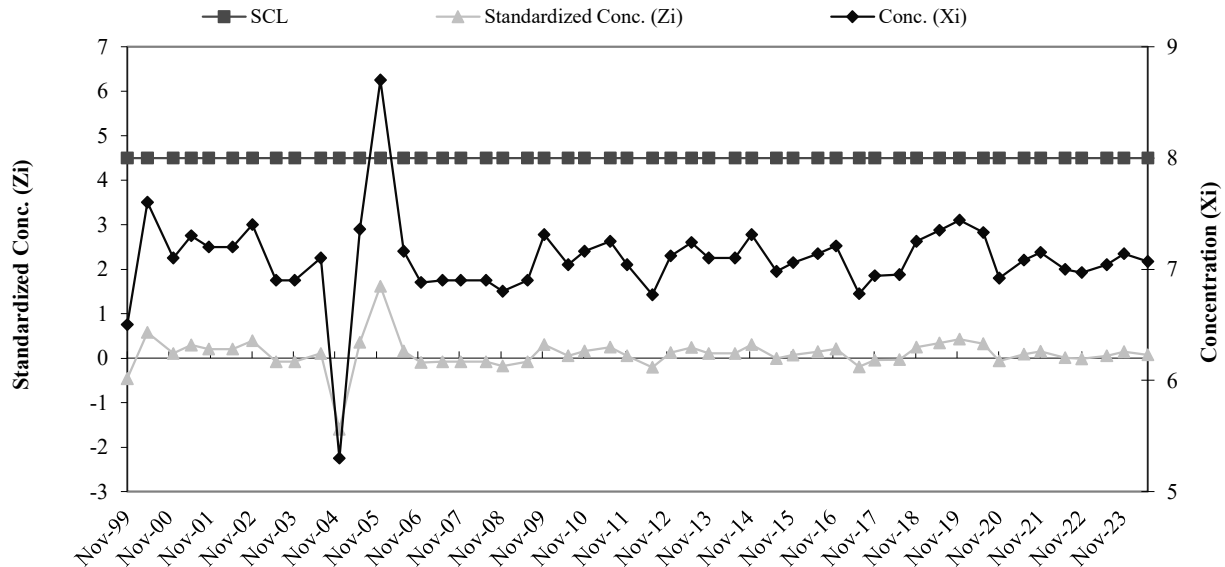


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-7 pH

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	7.50	6.99	1.06
2	Jun-96	6.90		
3	Aug-96	7.60		
4	Nov-96	8.00		
5	May-97	7.20		
6	May-98	6.60		
7	Nov-98	4.60		
8	Apr-99	7.50		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-99	4.5	6.50	-0.46	36	Jun-13	4.5	7.24	0.24
10	Apr-00	4.5	7.60	0.58	37	Nov-13	4.5	7.10	0.11
11	Dec-00	4.5	7.10	0.11	38	Jun-14	4.5	7.10	0.11
12	May-01	4.5	7.30	0.30	39	Nov-14	4.5	7.31	0.30
13	Oct-01	4.5	7.20	0.20	40	Jun-15	4.5	6.98	-0.01
14	May-02	4.5	7.20	0.20	41	Nov-15	4.5	7.06	0.07
15	Nov-02	4.5	7.40	0.39	42	Jun-16	4.5	7.14	0.14
16	Jun-03	4.5	6.90	-0.08	43	Nov-16	4.5	7.21	0.21
17	Nov-03	4.5	6.90	-0.08	44	Jun-17	4.5	6.78	-0.20
18	Jun-04	4.5	7.10	0.11	45	Nov-17	4.5	6.94	-0.04
19	Dec-04	4.5	5.30	-1.60	46	Jun-18	4.5	6.95	-0.04
20	Jun-05	4.5	7.36	0.35	47	Nov-18	4.5	7.25	0.25
21	Dec-05	4.5	8.70	1.62	48	May-19	4.5	7.35	0.34
22	Jun-06	4.5	7.16	0.16	49	Nov-19	4.5	7.44	0.43
23	Nov-06	4.5	6.88	-0.10	50	Jun-20	4.5	7.33	0.32
24	Jun-07	4.5	6.90	-0.08	51	Nov-20	4.5	6.92	-0.06
25	Nov-07	4.5	6.90	-0.08	52	Jun-21	4.5	7.08	0.09
26	Jun-08	4.5	6.90	-0.08	53	Nov-21	4.5	7.15	0.15
27	Nov-08	4.5	6.80	-0.18	54	Jun-22	4.5	7.00	0.01
28	Jun-09	4.5	6.90	-0.08	55	Nov-22	4.5	6.97	-0.02
29	Nov-09	4.5	7.31	0.30	56	Jun-23	4.5	7.04	0.05
30	Jun-10	4.5	7.04	0.05	57	Nov-23	4.5	7.14	0.14
31	Nov-10	4.5	7.16	0.16	58	Jun-24	4.5	7.07	0.08
32	Jun-11	4.5	7.25	0.25					
33	Nov-11	4.5	7.04	0.05					
34	Jun-12	4.5	6.77	-0.21					
35	Dec-12	4.5	7.12	0.13					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

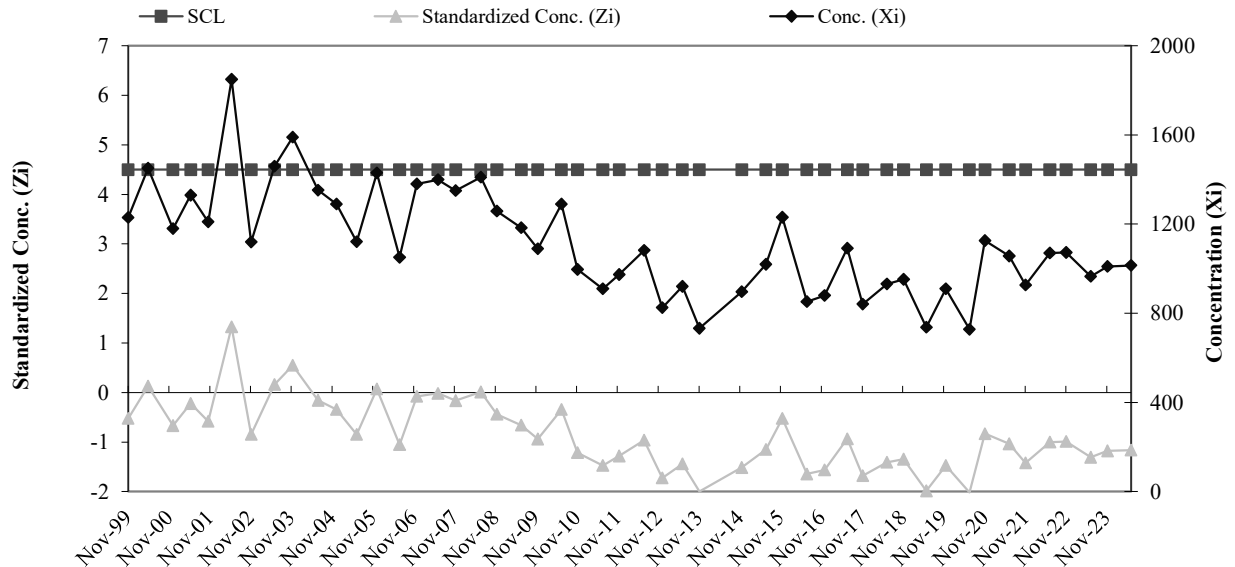


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-7 SpC

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	1509.0	1,405.88	336.33
2	Jun-96	1508.0		
3	Aug-96	1567.0		
4	Nov-96	1960.0		
5	May-97	780.0		
6	May-98	1270.0		
7	Nov-98	1240.0		
8	Apr-99	1413.0		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-99	4.5	1230	-0.52	36	Jun-13	4.5	921	-1.44
10	Apr-00	4.5	1450	0.13	37	Nov-13	4.5	733	-2.00
11	Dec-00	4.5	1180	-0.67	38	Nov-14	4.5	896	-1.52
12	May-01	4.5	1330	-0.23	39	Jun-15	4.5	1019	-1.15
13	Oct-01	4.5	1210	-0.58	40	Nov-15	4.5	1231	-0.52
14	May-02	4.5	1850	1.32	41	Jun-16	4.5	852	-1.65
15	Nov-02	4.5	1120	-0.85	42	Nov-16	4.5	880	-1.56
16	Jun-03	4.5	1460	0.16	43	Jun-17	4.5	1092	-0.93
17	Nov-03	4.5	1590	0.55	44	Nov-17	4.5	841	-1.68
18	Jun-04	4.5	1353	-0.16	45	Jun-18	4.5	932	-1.41
19	Dec-04	4.5	1290	-0.34	46	Nov-18	4.5	952	-1.35
20	Jun-05	4.5	1121	-0.85	47	May-19	4.5	737	-1.99
21	Dec-05	4.5	1430	0.07	48	Nov-19	4.5	910	-1.47
22	Jun-06	4.5	1051	-1.06	49	Jun-20	4.5	728	-2.02
23	Nov-06	4.5	1380	-0.08	50	Nov-20	4.5	1126	-0.83
24	Jun-07	4.5	1400	-0.02	51	Jun-21	4.5	1057	-1.04
25	Nov-07	4.5	1350	-0.17	52	Nov-21	4.5	927	-1.42
26	Jun-08	4.5	1410	0.01	53	Jun-22	4.5	1070	-1.00
27	Nov-08	4.5	1258	-0.44	54	Nov-22	4.5	1073	-0.99
28	Jun-09	4.5	1184	-0.66	55	Jun-23	4.5	965	-1.31
29	Nov-09	4.5	1090	-0.94	56	Nov-23	4.5	1010	-1.18
30	Jun-10	4.5	1290	-0.34	57	Jun-24	4.5	1015	-1.16
31	Nov-10	4.5	997	-1.22					
32	Jun-11	4.5	910	-1.47					
33	Nov-11	4.5	974	-1.28					
34	Jun-12	4.5	1082	-0.96					
35	Dec-12	4.5	825	-1.73					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

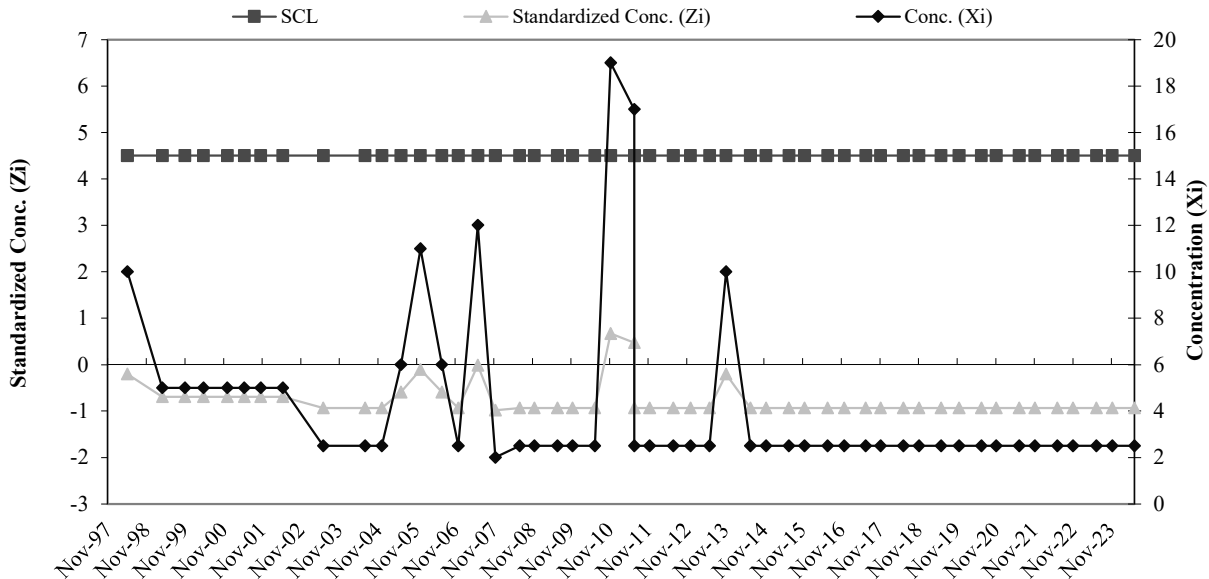


**COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-9 Cr**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	12.13	10.30
2	Aug-95	37		
3	Feb-96	10		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	May-97	5		
8	Nov-97	5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	10	-0.21	36	Dec-12	4.5	2.5	-0.93
10	Apr-99	4.5	5	-0.69	37	Jun-13	4.5	2.5	-0.93
11	Nov-99	4.5	5	-0.69	38	Nov-13	4.5	10	-0.21
12	Apr-00	4.5	5	-0.69	39	Jun-14	4.5	2.5	-0.93
13	Dec-00	4.5	5	-0.69	40	Nov-14	4.5	2.5	-0.93
14	May-01	4.5	5	-0.69	41	Jun-15	4.5	2.5	-0.93
15	Oct-01	4.5	5	-0.69	42	Nov-15	4.5	2.5	-0.93
16	May-02	4.5	5	-0.69	43	Jun-16	4.5	2.5	-0.93
17	Jun-03	4.5	2.5	-0.93	44	Nov-16	4.5	2.5	-0.93
18	Jun-04	4.5	2.5	-0.93	45	Jun-17	4.5	2.5	-0.93
19	Dec-04	4.5	2.5	-0.93	46	Nov-17	4.5	2.5	-0.93
20	Jun-05	4.5	6	-0.59	47	Jun-18	4.5	2.5	-0.93
21	Dec-05	4.5	11	-0.11	48	Nov-18	4.5	2.5	-0.93
22	Jun-06	4.5	6	-0.59	49	Jun-19	4.5	2.5	-0.93
23	Nov-06	4.5	2.5	-0.93	50	Nov-19	4.5	2.5	-0.93
24	Jun-07	4.5	12	-0.01	51	Jun-20	4.5	2.5	-0.93
25	Nov-07	4.5	2	-0.98	52	Nov-20	4.5	2.5	-0.93
26	Jul-08	4.5	2.5	-0.93	53	Jun-21	4.5	2.5	-0.93
27	Nov-08	4.5	2.5	-0.93	54	Nov-21	4.5	2.5	-0.93
28	Jun-09	4.5	2.5	-0.93	55	Jun-22	4.5	2.5	-0.93
29	Nov-09	4.5	2.5	-0.93	56	Nov-22	4.5	2.5	-0.93
30	Jun-10	4.5	2.5	-0.93	57	Jun-23	4.5	2.5	-0.93
31	Nov-10	4.5	19	0.67	58	Nov-23	4.5	2.5	-0.93
32	Jun-11	4.5	17	0.47	59	Jun-24	4.5	2.5	-0.93
33	Jun-11	4.5	2.5	-0.93					
34	Nov-11	4.5	2.5	-0.93					
35	Jun-12	4.5	2.5	-0.93					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

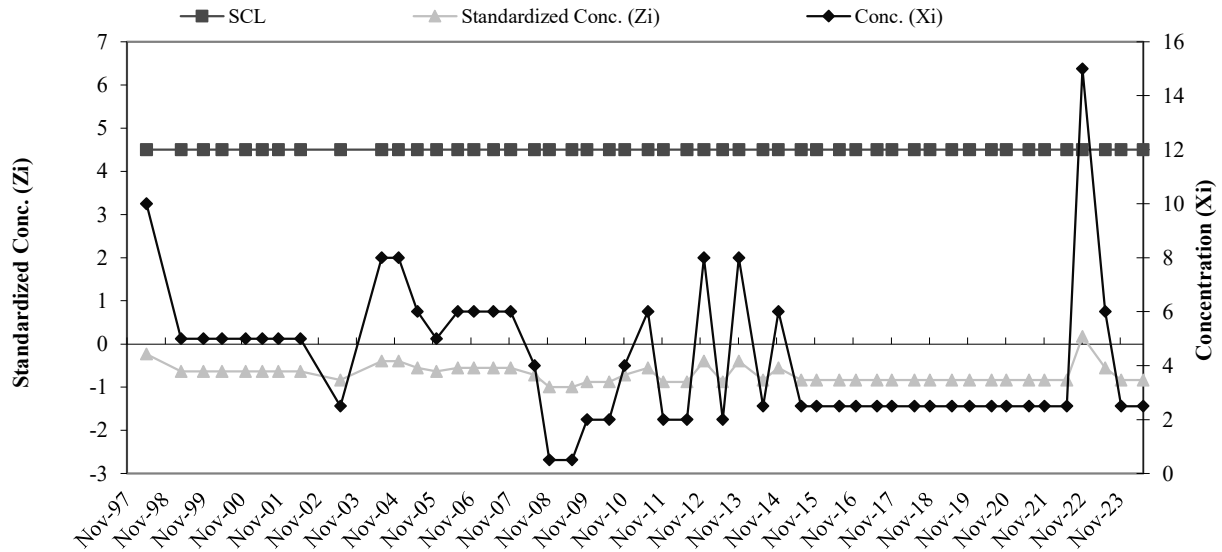


**COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-9 Cu**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	12.88	12.38
2	Aug-95	43		
3	Feb-96	10		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	May-97	5		
8	Nov-97	5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	10	-0.23	36	Jun-13	4.5	2	-0.88
10	Apr-99	4.5	5	-0.64	37	Nov-13	4.5	8	-0.39
11	Nov-99	4.5	5	-0.64	38	Jun-14	4.5	2.5	-0.84
12	Apr-00	4.5	5	-0.64	39	Nov-14	4.5	6	-0.56
13	Dec-00	4.5	5	-0.64	40	Jun-15	4.5	2.5	-0.84
14	May-01	4.5	5	-0.64	41	Nov-15	4.5	2.5	-0.84
15	Oct-01	4.5	5	-0.64	42	Jun-16	4.5	2.5	-0.84
16	May-02	4.5	5	-0.64	43	Nov-16	4.5	2.5	-0.84
17	Jun-03	4.5	2.5	-0.84	44	Jun-17	4.5	2.5	-0.84
18	Jun-04	4.5	8	-0.39	45	Nov-17	4.5	2.5	-0.84
19	Dec-04	4.5	8	-0.39	46	Jun-18	4.5	2.5	-0.84
20	Jun-05	4.5	6	-0.56	47	Nov-18	4.5	2.5	-0.84
21	Dec-05	4.5	5	-0.64	48	Jun-19	4.5	2.5	-0.84
22	Jun-06	4.5	6	-0.56	49	Nov-19	4.5	2.5	-0.84
23	Nov-06	4.5	6	-0.56	50	Jun-20	4.5	2.5	-0.84
24	Jun-07	4.5	6	-0.56	51	Nov-20	4.5	2.5	-0.84
25	Nov-07	4.5	6	-0.56	52	Jun-21	4.5	2.5	-0.84
26	Jul-08	4.5	4	-0.72	53	Nov-21	4.5	2.5	-0.84
27	Nov-08	4.5	0.5	-1.00	54	Jun-22	4.5	2.5	-0.84
28	Jun-09	4.5	0.5	-1.00	55	Nov-22	4.5	15	0.17
29	Nov-09	4.5	2	-0.88	56	Jun-23	4.5	6	-0.56
30	Jun-10	4.5	2	-0.88	57	Nov-23	4.5	2.5	-0.84
31	Nov-10	4.5	4	-0.72	58	Jun-24	4.5	2.5	-0.84
32	Jun-11	4.5	6	-0.56					
33	Nov-11	4.5	2	-0.88					
34	Jun-12	4.5	2	-0.88					
35	Dec-12	4.5	8	-0.39					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean



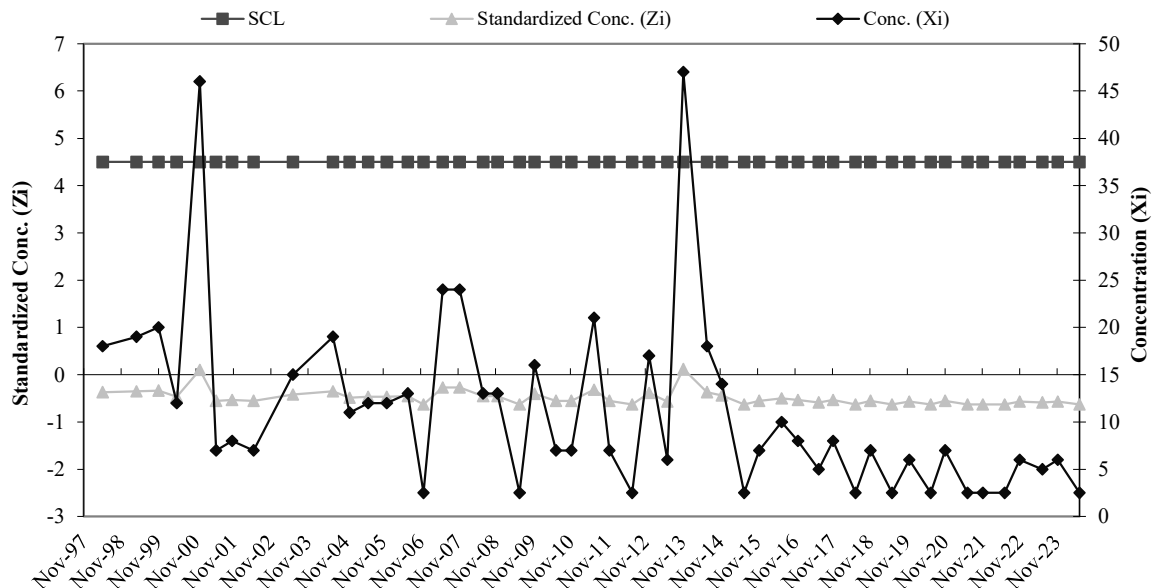
**COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART**

B-9 Ni

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	15	39.88	59.40
2	Aug-95	20		
3	Feb-96	20		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	May-97	51		
8	Nov-97	183		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	18	-0.37	36	Jun-13	4.5	6	-0.57
10	Apr-99	4.5	19	-0.35	37	Nov-13	4.5	47	0.12
11	Nov-99	4.5	20	-0.33	38	Jun-14	4.5	18	-0.37
12	Apr-00	4.5	12	-0.47	39	Nov-14	4.5	14	-0.44
13	Dec-00	4.5	46	0.10	40	Jun-15	4.5	2.5	-0.63
14	May-01	4.5	7	-0.55	41	Nov-15	4.5	7	-0.55
15	Oct-01	4.5	8	-0.54	42	Jun-16	4.5	10	-0.50
16	May-02	4.5	7	-0.55	43	Nov-16	4.5	8	-0.54
17	Jun-03	4.5	15	-0.42	44	Jun-17	4.5	5	-0.59
18	Jun-04	4.5	19	-0.35	45	Nov-17	4.5	8	-0.54
19	Dec-04	4.5	11	-0.49	46	Jun-18	4.5	2.5	-0.63
20	Jun-05	4.5	12	-0.47	47	Nov-18	4.5	7	-0.55
21	Dec-05	4.5	12	-0.47	48	Jun-19	4.5	2.5	-0.63
22	Jun-06	4.5	13	-0.45	49	Nov-19	4.5	6	-0.57
23	Nov-06	4.5	2.5	-0.63	50	Jun-20	4.5	2.5	-0.63
24	Jun-07	4.5	24	-0.27	51	Nov-20	4.5	7	-0.55
25	Nov-07	4.5	24	-0.27	52	Jun-21	4.5	2.5	-0.63
26	Jul-08	4.5	13	-0.45	53	Nov-21	4.5	2.5	-0.63
27	Nov-08	4.5	13	-0.45	54	Jun-22	4.5	2.5	-0.63
28	Jun-09	4.5	2.5	-0.63	55	Nov-22	4.5	6	-0.57
29	Nov-09	4.5	16	-0.40	56	Jun-23	4.5	5	-0.59
30	Jun-10	4.5	7	-0.55	57	Nov-23	4.5	6	-0.57
31	Nov-10	4.5	7	-0.55	58	Jun-24	4.5	2.5	-0.63
32	Jun-11	4.5	21	-0.32					
33	Nov-11	4.5	7	-0.55					
34	Jun-12	4.5	2.5	-0.63					
35	Dec-12	4.5	17	-0.39					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

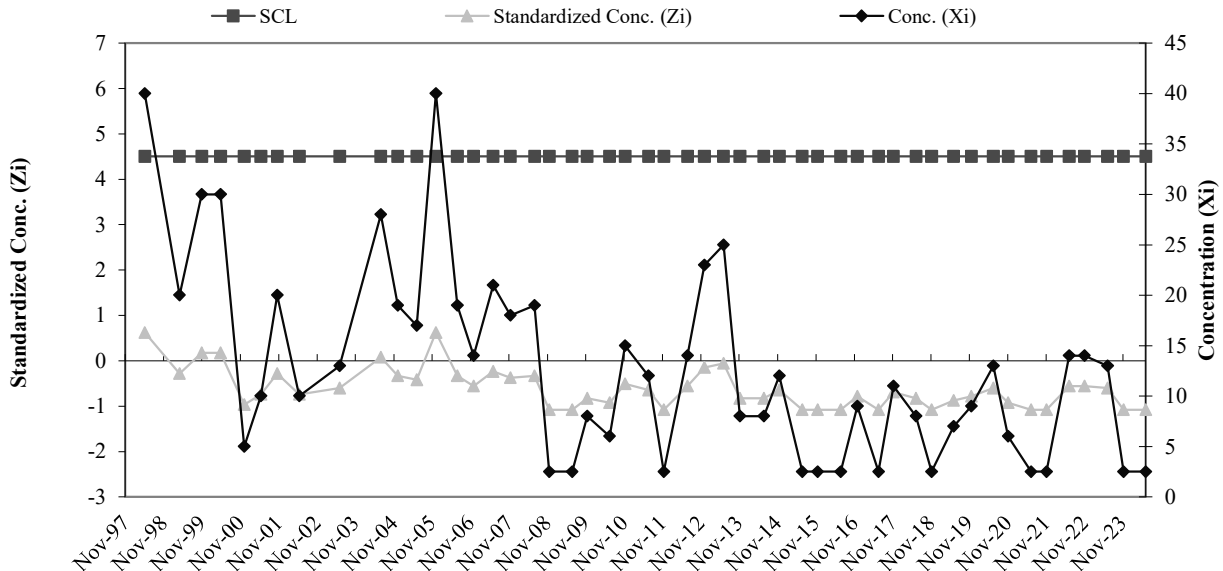


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-9 Zn

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	26.25	22.00
2	Aug-95	10		
3	Feb-96	10		
4	Jun-96	10		
5	Aug-96	70		
6	Nov-96	40		
7	May-97	20		
8	Nov-97	40		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	40	0.63	36	Jun-13	4.5	25	-0.06
10	Apr-99	4.5	20	-0.28	37	Nov-13	4.5	8	-0.83
11	Nov-99	4.5	30	0.17	38	Jun-14	4.5	8	-0.83
12	Apr-00	4.5	30	0.17	39	Nov-14	4.5	12	-0.65
13	Dec-00	4.5	5	-0.97	40	Jun-15	4.5	2.5	-1.08
14	May-01	4.5	10	-0.74	41	Nov-15	4.5	2.5	-1.08
15	Oct-01	4.5	20	-0.28	42	Jun-16	4.5	2.5	-1.08
16	May-02	4.5	10	-0.74	43	Nov-16	4.5	9	-0.78
17	Jun-03	4.5	13	-0.60	44	Jun-17	4.5	2.5	-1.08
18	Jun-04	4.5	28	0.08	45	Nov-17	4.5	11	-0.69
19	Dec-04	4.5	19	-0.33	46	Jun-18	4.5	8	-0.83
20	Jun-05	4.5	17	-0.42	47	Nov-18	4.5	2.5	-1.08
21	Dec-05	4.5	40	0.63	48	Jun-19	4.5	7	-0.88
22	Jun-06	4.5	19	-0.33	49	Nov-19	4.5	9	-0.78
23	Nov-06	4.5	14	-0.56	50	Jun-20	4.5	13	-0.60
24	Jun-07	4.5	21	-0.24	51	Nov-20	4.5	6	-0.92
25	Nov-07	4.5	18	-0.38	52	Jun-21	4.5	2.5	-1.08
26	Jul-08	4.5	19	-0.33	53	Nov-21	4.5	2.5	-1.08
27	Nov-08	4.5	2.5	-1.08	54	Jun-22	4.5	14	-0.56
28	Jun-09	4.5	2.5	-1.08	55	Nov-22	4.5	14	-0.56
29	Nov-09	4.5	8	-0.83	56	Jun-23	4.5	13	-0.60
30	Jun-10	4.5	6	-0.92	57	Nov-23	4.5	2.5	-1.08
31	Nov-10	4.5	15	-0.51	58	Jun-24	4.5	2.5	-1.08
32	Jun-11	4.5	12	-0.65					
33	Nov-11	4.5	2.5	-1.08					
34	Jun-12	4.5	14	-0.56					
35	Dec-12	4.5	23	-0.15					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

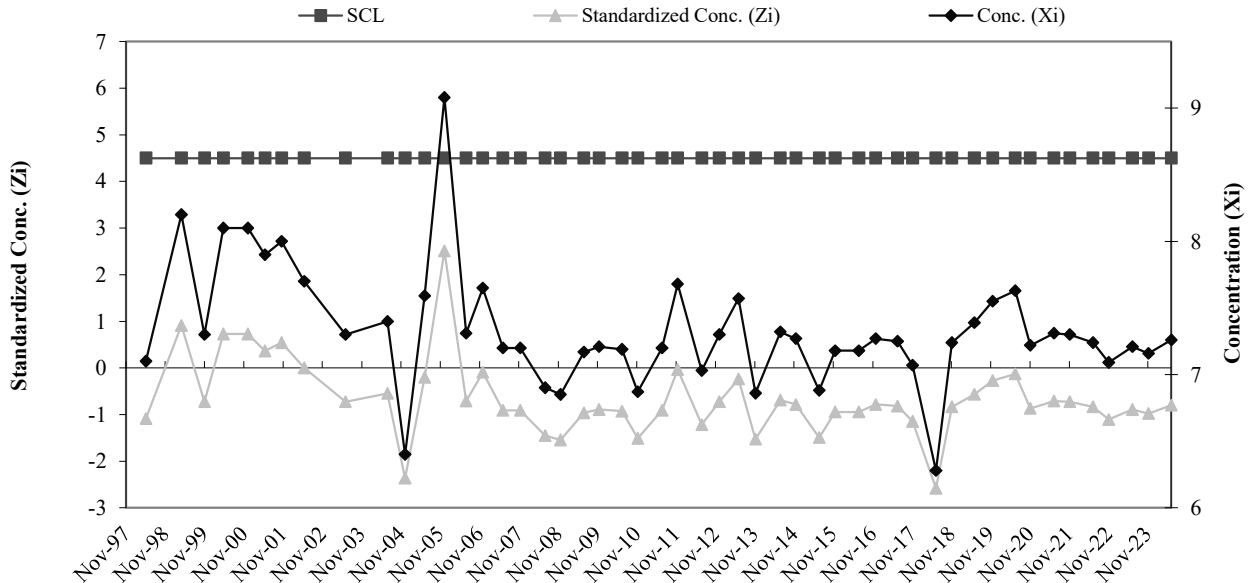


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-9 pH

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	7.70	7.20	0.55
2	Aug-95	7.70		
3	Feb-96	7.30		
4	Jun-96	6.80		
5	Aug-96	8.00		
6	Nov-96	6.80		
7	May-97	6.80		
8	Nov-97	6.50		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	6.60	-1.09	36	Jun-13	4.5	7.07	-0.24
10	Apr-99	4.5	7.70	0.91	37	Nov-13	4.5	6.36	-1.53
11	Nov-99	4.5	6.80	-0.73	38	Jun-14	4.5	6.82	-0.69
12	Apr-00	4.5	7.60	0.73	39	Nov-14	4.5	6.77	-0.78
13	Dec-00	4.5	7.60	0.73	40	Jun-15	4.5	6.38	-1.49
14	May-01	4.5	7.40	0.36	41	Nov-15	4.5	6.68	-0.94
15	Oct-01	4.5	7.50	0.55	42	Jun-16	4.5	6.68	-0.94
16	May-02	4.5	7.20	0.00	43	Nov-16	4.5	6.77	-0.78
17	Jun-03	4.5	6.80	-0.73	44	Jun-17	4.5	6.75	-0.82
18	Jun-04	4.5	6.90	-0.55	45	Nov-17	4.5	6.57	-1.14
19	Dec-04	4.5	5.90	-2.36	46	Jun-18	4.5	5.78	-2.58
20	Jun-05	4.5	7.09	-0.20	47	Nov-18	4.5	6.74	-0.84
21	Dec-05	4.5	8.58	2.51	48	Jun-19	4.5	6.89	-0.56
22	Jun-06	4.5	6.81	-0.71	49	Nov-19	4.5	7.05	-0.27
23	Nov-06	4.5	7.15	-0.09	50	Jun-20	4.5	7.13	-0.13
24	Jun-07	4.5	6.70	-0.91	51	Nov-20	4.5	6.72	-0.87
25	Nov-07	4.5	6.70	-0.91	52	Jun-21	4.5	6.81	-0.71
26	Jul-08	4.5	6.40	-1.45	53	Nov-21	4.5	6.80	-0.73
27	Nov-08	4.5	6.35	-1.54	54	Jun-22	4.5	6.74	-0.84
28	Jun-09	4.5	6.67	-0.96	55	Nov-22	4.5	6.59	-1.11
29	Nov-09	4.5	6.71	-0.89	56	Jun-23	4.5	6.71	-0.89
30	Jun-10	4.5	6.69	-0.93	57	Nov-23	4.5	6.66	-0.98
31	Nov-10	4.5	6.37	-1.51	58	Jun-24	4.5	6.76	-0.80
32	Jun-11	4.5	6.70	-0.91					
33	Nov-11	4.5	7.18	-0.04					
34	Jun-12	4.5	6.53	-1.22					
35	Dec-12	4.5	6.80	-0.73					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

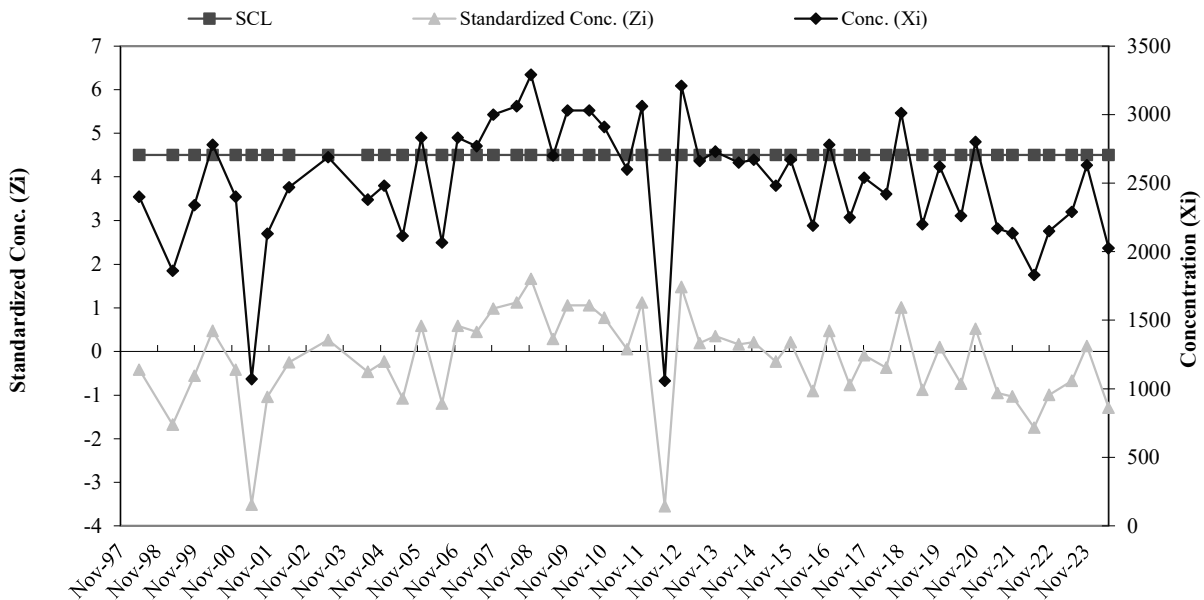


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-9 SpC

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	2400	2,578.63	428.85
2	Aug-95	1829		
3	Feb-96	2860		
4	Jun-96	2550		
5	Aug-96	2310		
6	Nov-96	3280		
7	May-97	2600		
8	Nov-97	2800		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	2400	-0.42	36	Jun-13	4.5	2660	0.19
10	Apr-99	4.5	1860	-1.68	37	Nov-13	4.5	2730	0.35
11	Nov-99	4.5	2340	-0.56	38	Jun-14	4.5	2650	0.17
12	Apr-00	4.5	2780	0.47	39	Nov-14	4.5	2670	0.21
13	Dec-00	4.5	2400	-0.42	40	Jun-15	4.5	2480	-0.23
14	May-01	4.5	1070	-3.52	41	Nov-15	4.5	2670	0.21
15	Oct-01	4.5	2130	-1.05	42	Jun-16	4.5	2190	-0.91
16	May-02	4.5	2470	-0.25	43	Nov-16	4.5	2780	0.47
17	Jun-03	4.5	2690	0.26	44	Jun-17	4.5	2250	-0.77
18	Jun-04	4.5	2379	-0.47	45	Nov-17	4.5	2540	-0.09
19	Dec-04	4.5	2480	-0.23	46	Jun-18	4.5	2420	-0.37
20	Jun-05	4.5	2116	-1.08	47	Nov-18	4.5	3010	1.01
21	Dec-05	4.5	2830	0.59	48	Jun-19	4.5	2200	-0.88
22	Jun-06	4.5	2065	-1.20	49	Nov-19	4.5	2620	0.10
23	Nov-06	4.5	2830	0.59	50	Jun-20	4.5	2260	-0.74
24	Jun-07	4.5	2770	0.45	51	Nov-20	4.5	2800	0.52
25	Nov-07	4.5	3000	0.98	52	Jun-21	4.5	2168	-0.96
26	Jul-08	4.5	3060	1.12	53	Nov-21	4.5	2135	-1.03
27	Nov-08	4.5	3290	1.66	54	Jun-22	4.5	1830	-1.75
28	Jun-09	4.5	2700	0.28	55	Nov-22	4.5	2150	-1.00
29	Nov-09	4.5	3030	1.05	56	Jun-23	4.5	2290	-0.67
30	Jun-10	4.5	3030	1.05	57	Nov-23	4.5	2630	0.12
31	Nov-10	4.5	2910	0.77	58	Jun-24	4.5	2025	-1.29
32	Jun-11	4.5	2600	0.05					
33	Nov-11	4.5	3060	1.12					
34	Jun-12	4.5	1057	-3.55					
35	Dec-12	4.5	3210	1.47					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

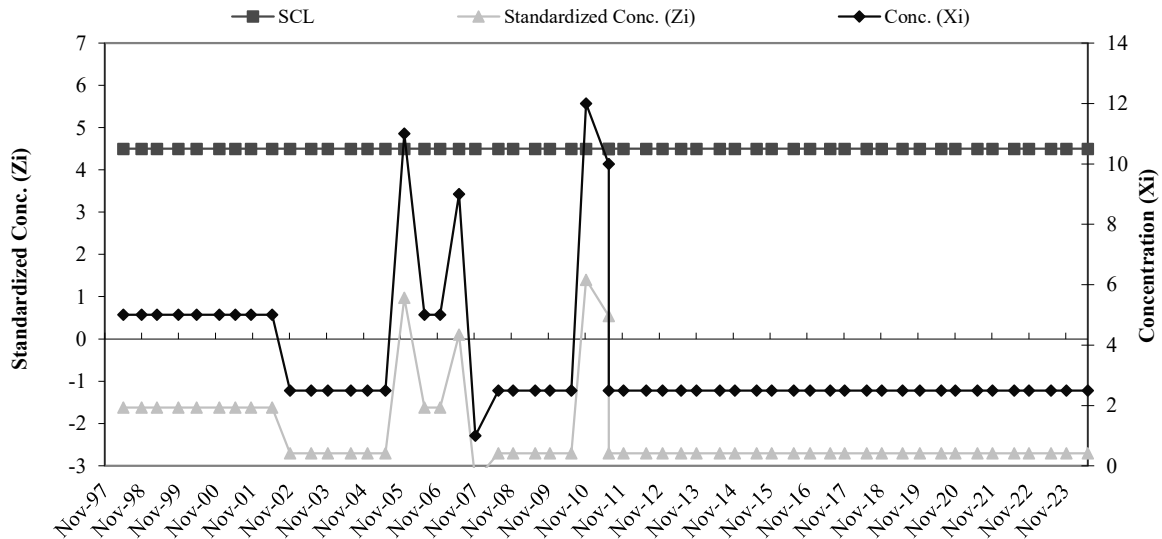


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-18a Cr

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	8.75	2.31
2	Aug-95	10		
3	Feb-96	10		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	May-97	5		
8	Nov-97	5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	5	-1.62	39	Dec-12	4.5	2.5	-2.70
10	Nov-98	4.5	5	-1.62	40	Jun-13	4.5	2.5	-2.70
11	Apr-99	4.5	5	-1.62	41	Nov-13	4.5	2.5	-2.70
12	Nov-99	4.5	5	-1.62	42	Jun-14	4.5	2.5	-2.70
13	Apr-00	4.5	5	-1.62	43	Nov-14	4.5	2.5	-2.70
14	Dec-00	4.5	5	-1.62	44	Jun-15	4.5	2.5	-2.70
15	May-01	4.5	5	-1.62	45	Nov-15	4.5	2.5	-2.70
16	Oct-01	4.5	5	-1.62	46	Jun-16	4.5	2.5	-2.70
17	May-02	4.5	5	-1.62	47	Nov-16	4.5	2.5	-2.70
18	Nov-02	4.5	2.5	-2.70	48	Jun-17	4.5	2.5	-2.70
19	Jun-03	4.5	2.5	-2.70	49	Nov-17	4.5	2.5	-2.70
20	Nov-03	4.5	2.5	-2.70	50	Jun-18	4.5	2.5	-2.70
21	Jun-04	4.5	2.5	-2.70	51	Nov-18	4.5	2.5	-2.70
22	Dec-04	4.5	2.5	-2.70	52	Jun-19	4.5	2.5	-2.70
23	Jun-05	4.5	2.5	-2.70	53	Nov-19	4.5	2.5	-2.70
24	Dec-05	4.5	11	0.97	54	Jun-20	4.5	2.5	-2.70
25	Jun-06	4.5	5	-1.62	55	Nov-20	4.5	2.5	-2.70
26	Nov-06	4.5	5	-1.62	56	Jun-21	4.5	2.5	-2.70
27	Jun-07	4.5	9	0.11	57	Nov-21	4.5	2.5	-2.70
28	Nov-07	4.5	1	-3.35	58	Jun-22	4.5	2.5	-2.70
29	Jun-08	4.5	2.5	-2.70	59	Nov-22	4.5	2.5	-2.70
30	Nov-08	4.5	2.5	-2.70	60	Jun-23	4.5	2.5	-2.70
31	Jun-09	4.5	2.5	-2.70	61	Nov-23	4.5	2.5	-2.70
32	Nov-09	4.5	2.5	-2.70	62	Jun-24	4.5	2.5	-2.70
33	Jun-10	4.5	2.5	-2.70					
34	Nov-10	4.5	12	1.40					
35	Jun-11	4.5	10	0.54					
36	Jun-11	4.5	2.5	-2.70					
37	Nov-11	4.5	2.5	-2.70					
38	Jun-12	4.5	2.5	-2.70					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

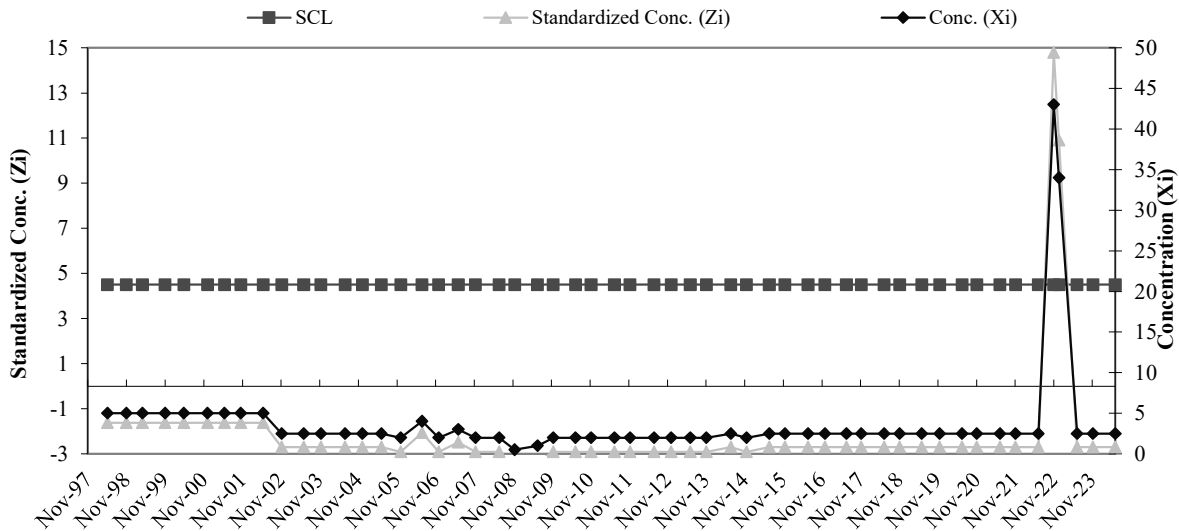


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-18a Cu

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	8.75	2.31
2	Aug-95	10		
3	Feb-96	10		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	May-97	5		
8	Nov-97	5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	5	-1.62	36	Dec-12	4.5	2	-2.92
10	Nov-98	4.5	5	-1.62	37	Jun-13	4.5	2	-2.92
11	Apr-99	4.5	5	-1.62	38	Nov-13	4.5	2	-2.92
12	Nov-99	4.5	5	-1.62	39	Jun-14	4.5	2.5	-2.70
13	Apr-00	4.5	5	-1.62	40	Nov-14	4.5	2	-2.92
14	Dec-00	4.5	5	-1.62	41	Jun-15	4.5	2.5	-2.70
15	May-01	4.5	5	-1.62	42	Nov-15	4.5	2.5	-2.70
16	Oct-01	4.5	5	-1.62	43	Jun-16	4.5	2.5	-2.70
17	May-02	4.5	5	-1.62	44	Nov-16	4.5	2.5	-2.70
18	Nov-02	4.5	2.5	-2.70	45	Jun-17	4.5	2.5	-2.70
19	Jun-03	4.5	2.5	-2.70	46	Nov-17	4.5	2.5	-2.70
20	Nov-03	4.5	2.5	-2.70	47	Jun-18	4.5	2.5	-2.70
21	Jun-04	4.5	2.5	-2.70	48	Nov-18	4.5	2.5	-2.70
22	Dec-04	4.5	2.5	-2.70	49	Jun-19	4.5	2.5	-2.70
23	Jun-05	4.5	2.5	-2.70	50	Nov-19	4.5	2.5	-2.70
24	Dec-05	4.5	2	-2.92	51	Jun-20	4.5	2.5	-2.70
25	Jun-06	4.5	4	-2.05	52	Nov-20	4.5	2.5	-2.70
26	Nov-06	4.5	2	-2.92	53	Jun-21	4.5	2.5	-2.70
27	Jun-07	4.5	3	-2.48	54	Nov-21	4.5	2.5	-2.70
28	Nov-07	4.5	2	-2.92	55	Jun-22	4.5	2.5	-2.70
29	Jun-08	4.5	2	-2.92	56	Nov-22	4.5	43	14.80
30	Nov-08	4.5	0.5	-3.56	57	Dec-22	4.5	34	10.91
31	Jun-09	4.5	1	-3.35	58	Jun-23	4.5	2.5	-2.70
32	Nov-09	4.5	2	-2.92	59	Nov-23	4.5	2.5	-2.70
33	Jun-10	4.5	2	-2.92	60	Jun-24	4.5	2.5	-2.70
34	Nov-10	4.5	2	-2.92					
35	Jun-11	4.5	2	-2.92					
36	Nov-11	4.5	2	-2.92					
37	Jun-12	4.5	2	-2.92					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

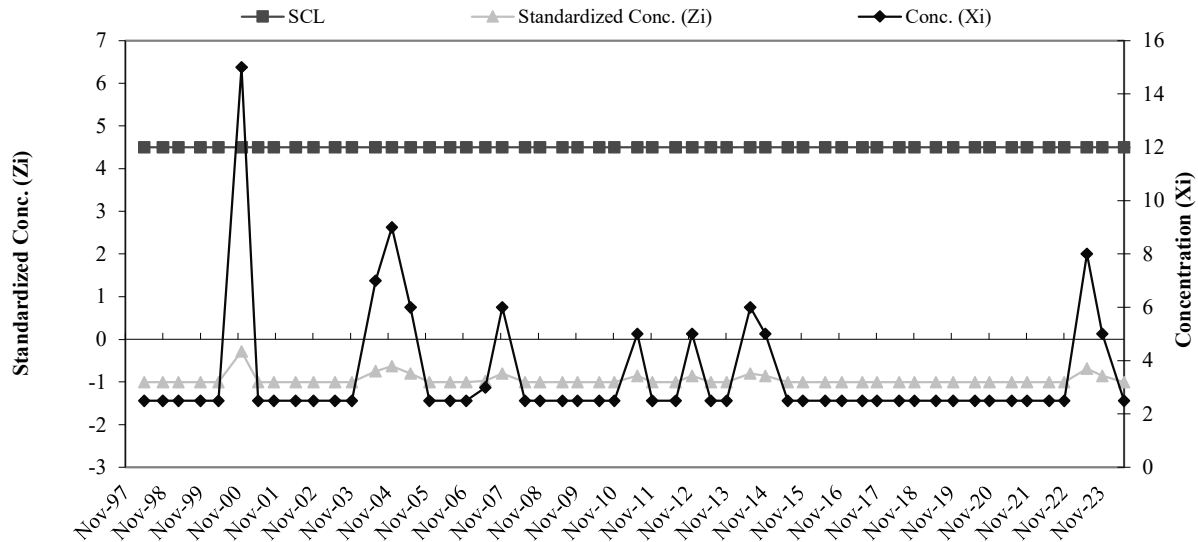


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-18a Ni

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	15	20.00	17.48
2	Aug-95	20		
3	Feb-96	20		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	May-97	13		
8	Nov-97	62		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	2.5	-1.00	36	Dec-12	4.5	5	-0.86
10	Nov-98	4.5	2.5	-1.00	37	Jun-13	4.5	2.5	-1.00
11	Apr-99	4.5	2.5	-1.00	38	Nov-13	4.5	2.5	-1.00
12	Nov-99	4.5	2.5	-1.00	39	Jun-14	4.5	6	-0.80
13	Apr-00	4.5	2.5	-1.00	40	Nov-14	4.5	5	-0.86
14	Dec-00	4.5	15	-0.29	41	Jun-15	4.5	2.5	-1.00
15	May-01	4.5	2.5	-1.00	42	Nov-15	4.5	2.5	-1.00
16	Oct-01	4.5	2.5	-1.00	43	Jun-16	4.5	2.5	-1.00
17	May-02	4.5	2.5	-1.00	44	Nov-16	4.5	2.5	-1.00
18	Nov-02	4.5	2.5	-1.00	45	Jun-17	4.5	2.5	-1.00
19	Jun-03	4.5	2.5	-1.00	46	Nov-17	4.5	2.5	-1.00
20	Nov-03	4.5	2.5	-1.00	47	Jun-18	4.5	2.5	-1.00
21	Jun-04	4.5	7	-0.74	48	Nov-18	4.5	2.5	-1.00
22	Dec-04	4.5	9	-0.63	49	Jun-19	4.5	2.5	-1.00
23	Jun-05	4.5	6	-0.80	50	Nov-19	4.5	2.5	-1.00
24	Dec-05	4.5	2.5	-1.00	51	Jun-20	4.5	2.5	-1.00
25	Jun-06	4.5	2.5	-1.00	52	Nov-20	4.5	2.5	-1.00
26	Nov-06	4.5	2.5	-1.00	53	Jun-21	4.5	2.5	-1.00
27	Jun-07	4.5	3	-0.97	54	Nov-21	4.5	2.5	-1.00
28	Nov-07	4.5	6	-0.80	55	Jun-22	4.5	2.5	-1.00
29	Jun-08	4.5	2.5	-1.00	56	Nov-22	4.5	2.5	-1.00
30	Nov-08	4.5	2.5	-1.00	57	Jun-23	4.5	8	-0.69
31	Jun-09	4.5	2.5	-1.00	58	Nov-23	4.5	5	-0.86
32	Nov-09	4.5	2.5	-1.00	59	Jun-24	4.5	2.5	-1.00
33	Jun-10	4.5	2.5	-1.00					
34	Nov-10	4.5	2.5	-1.00					
35	Jun-11	4.5	5	-0.86					
36	Nov-11	4.5	2.5	-1.00					
37	Jun-12	4.5	2.5	-1.00					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean



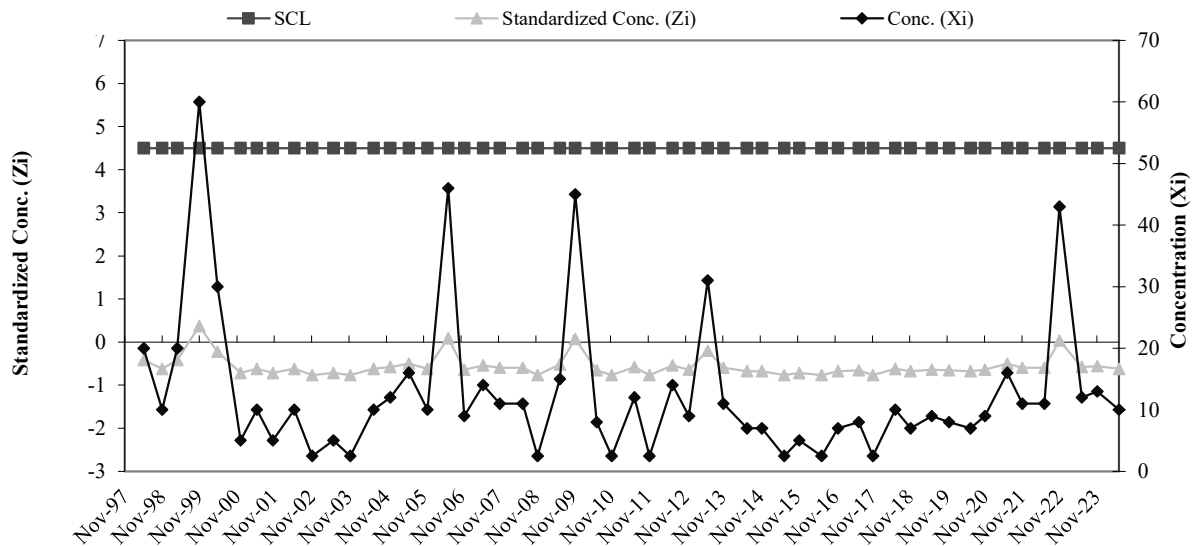
**COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART**

B-18a Zn

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	150	41.25	50.55
2	Aug-95	10		
3	Feb-96	10		
4	Jun-96	10		
5	Aug-96	60		
6	Nov-96	70		
7	May-97	10		
8	Nov-97	10		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	20	-0.42	36	Dec-12	4.5	9	-0.64
10	Nov-98	4.5	10	-0.62	37	Jun-13	4.5	31	-0.20
11	Apr-99	4.5	20	-0.42	38	Nov-13	4.5	11	-0.60
12	Nov-99	4.5	60	0.37	39	Jun-14	4.5	7	-0.68
13	Apr-00	4.5	30	-0.22	40	Nov-14	4.5	7	-0.68
14	Dec-00	4.5	5	-0.72	41	Jun-15	4.5	2.5	-0.77
15	May-01	4.5	10	-0.62	42	Nov-15	4.5	5	-0.72
16	Oct-01	4.5	5	-0.72	43	Jun-16	4.5	2.5	-0.77
17	May-02	4.5	10	-0.62	44	Nov-16	4.5	7	-0.68
18	Nov-02	4.5	2.5	-0.77	45	Jun-17	4.5	8	-0.66
19	Jun-03	4.5	5	-0.72	46	Nov-17	4.5	2.5	-0.77
20	Nov-03	4.5	2.5	-0.77	47	Jun-18	4.5	10	-0.62
21	Jun-04	4.5	10	-0.62	48	Nov-18	4.5	7	-0.68
22	Dec-04	4.5	12	-0.58	49	Jun-19	4.5	9	-0.64
23	Jun-05	4.5	16	-0.50	50	Nov-19	4.5	8	-0.66
24	Dec-05	4.5	10	-0.62	51	Jun-20	4.5	7	-0.68
25	Jun-06	4.5	46	0.09	52	Nov-20	4.5	9	-0.64
26	Nov-06	4.5	9	-0.64	53	Jun-21	4.5	16	-0.50
27	Jun-07	4.5	14	-0.54	54	Nov-21	4.5	11	-0.60
28	Nov-07	4.5	11	-0.60	55	Jun-22	4.5	11	-0.60
29	Jun-08	4.5	11	-0.60	56	Nov-22	4.5	43	0.03
30	Nov-08	4.5	2.5	-0.77	57	Jun-23	4.5	12	-0.58
31	Jun-09	4.5	15	-0.52	58	Nov-23	4.5	13	-0.56
32	Nov-09	4.5	45	0.07	59	Jun-24	4.5	10	-0.62
33	Jun-10	4.5	8	-0.66					
34	Nov-10	4.5	2.5	-0.77					
35	Jun-11	4.5	12	-0.58					
36	Nov-11	4.5	2.5	-0.77					
37	Jun-12	4.5	14	-0.54					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

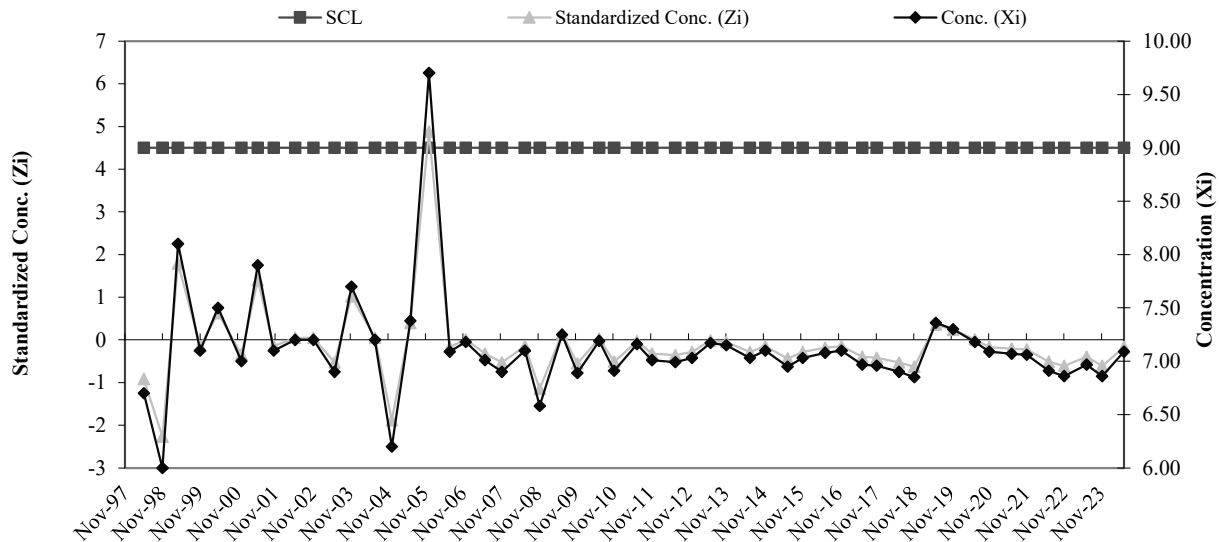


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-18a pH

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	7.50	7.18	0.52
2	Aug-95	7.90		
3	Feb-96	7.40		
4	Jun-96	7.00		
5	Aug-96	7.50		
6	Nov-96	7.20		
7	May-97	6.50		
8	Nov-97	6.40		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	6.70	-0.92	36	Dec-12	4.5	7.03	-0.28
10	Nov-98	4.5	6.00	-2.27	37	Jun-13	4.5	7.17	-0.01
11	Apr-99	4.5	8.10	1.79	38	Nov-13	4.5	7.15	-0.05
12	Nov-99	4.5	7.10	-0.14	39	Jun-14	4.5	7.03	-0.28
13	Apr-00	4.5	7.50	0.63	40	Nov-14	4.5	7.10	-0.14
14	Dec-00	4.5	7.00	-0.34	41	Jun-15	4.5	6.95	-0.43
15	May-01	4.5	7.90	1.40	42	Nov-15	4.5	7.03	-0.28
16	Oct-01	4.5	7.10	-0.14	43	Jun-16	4.5	7.08	-0.18
17	May-02	4.5	7.20	0.05	44	Nov-16	4.5	7.10	-0.14
18	Nov-02	4.5	7.20	0.05	45	Jun-17	4.5	6.97	-0.40
19	Jun-03	4.5	6.90	-0.53	46	Nov-17	4.5	6.96	-0.42
20	Nov-03	4.5	7.70	1.01	47	Jun-18	4.5	6.90	-0.53
21	Jun-04	4.5	7.20	0.05	48	Nov-18	4.5	6.85	-0.63
22	Dec-04	4.5	6.20	-1.88	49	Jun-19	4.5	7.36	0.36
23	Jun-05	4.5	7.38	0.40	50	Nov-19	4.5	7.30	0.24
24	Dec-05	4.5	9.70	4.88	51	Jun-20	4.5	7.18	0.01
25	Jun-06	4.5	7.09	-0.16	52	Nov-20	4.5	7.09	-0.16
26	Nov-06	4.5	7.18	0.01	53	Jun-21	4.5	7.07	-0.20
27	Jun-07	4.5	7.01	-0.32	54	Nov-21	4.5	7.06	-0.22
28	Nov-07	4.5	6.90	-0.53	55	Jun-22	4.5	6.91	-0.51
29	Jun-08	4.5	7.10	-0.14	56	Nov-22	4.5	6.86	-0.61
30	Nov-08	4.5	6.58	-1.15	57	Jun-23	4.5	6.97	-0.40
31	Jun-09	4.5	7.25	0.14	58	Nov-23	4.5	6.86	-0.61
32	Nov-09	4.5	6.89	-0.55	59	Jun-24	4.5	7.09	-0.16
33	Jun-10	4.5	7.19	0.03					
34	Nov-10	4.5	6.91	-0.51					
35	Jun-11	4.5	7.16	-0.03					
36	Nov-11	4.5	7.01	-0.32					
37	Jun-12	4.5	6.99	-0.36					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

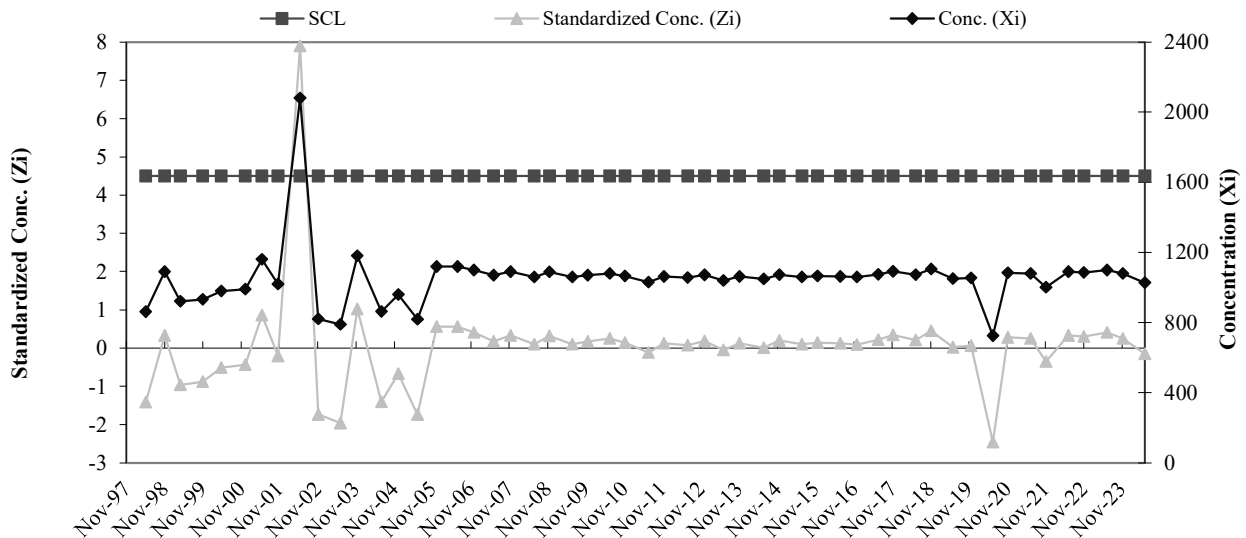


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-18a SpC

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	1048	1,046.75	130.80
2	Aug-95	989		
3	Feb-96	1021		
4	Jun-96	944.0		
5	Aug-96	1041		
6	Nov-96	1331		
7	May-97	900		
8	Nov-97	1100		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	862	-1.41	36	Dec-12	4.5	1071	0.19
10	Nov-98	4.5	1090.0	0.33	37	Jun-13	4.5	1040	-0.05
11	Apr-99	4.5	921	-0.96	38	Nov-13	4.5	1063	0.12
12	Nov-99	4.5	932	-0.88	39	Jun-14	4.5	1048	0.01
13	Apr-00	4.5	980	-0.51	40	Nov-14	4.5	1073	0.20
14	Dec-00	4.5	990.0	-0.43	41	Jun-15	4.5	1060	0.10
15	May-01	4.5	1160	0.87	42	Nov-15	4.5	1065	0.14
16	Oct-01	4.5	1020	-0.20	43	Jun-16	4.5	1063	0.12
17	May-02	4.5	2080	7.90	44	Nov-16	4.5	1059	0.09
18	Nov-02	4.5	820	-1.73	45	Jun-17	4.5	1075	0.22
19	Jun-03	4.5	790	-1.96	46	Nov-17	4.5	1092	0.35
20	Nov-03	4.5	1180	1.02	47	Jun-18	4.5	1074	0.21
21	Jun-04	4.5	863	-1.40	48	Nov-18	4.5	1106	0.45
22	Dec-04	4.5	960	-0.66	49	Jun-19	4.5	1050	0.02
23	Jun-05	4.5	819	-1.74	50	Nov-19	4.5	1055	0.06
24	Dec-05	4.5	1120	0.56	51	Jun-20	4.5	725	-2.46
25	Jun-06	4.5	1120	0.56	52	Nov-20	4.5	1084	0.28
26	Nov-06	4.5	1100	0.41	53	Jun-21	4.5	1080	0.25
27	Jun-07	4.5	1070	0.18	54	Nov-21	4.5	1001	-0.35
28	Nov-07	4.5	1090	0.33	55	Jun-22	4.5	1090	0.33
29	Jun-08	4.5	1060	0.10	56	Nov-22	4.5	1086	0.30
30	Nov-08	4.5	1088	0.32	57	Jun-23	4.5	1100	0.41
31	Jun-09	4.5	1060	0.10	58	Nov-23	4.5	1080	0.25
32	Nov-09	4.5	1070	0.18	59	Jun-24	4.5	1028	-0.14
33	Jun-10	4.5	1080	0.25					
34	Nov-10	4.5	1065	0.14					
35	Jun-11	4.5	1031	-0.12					
35	Nov-11	4.5	1063	0.12					
35	Jun-12	4.5	1057	0.08					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

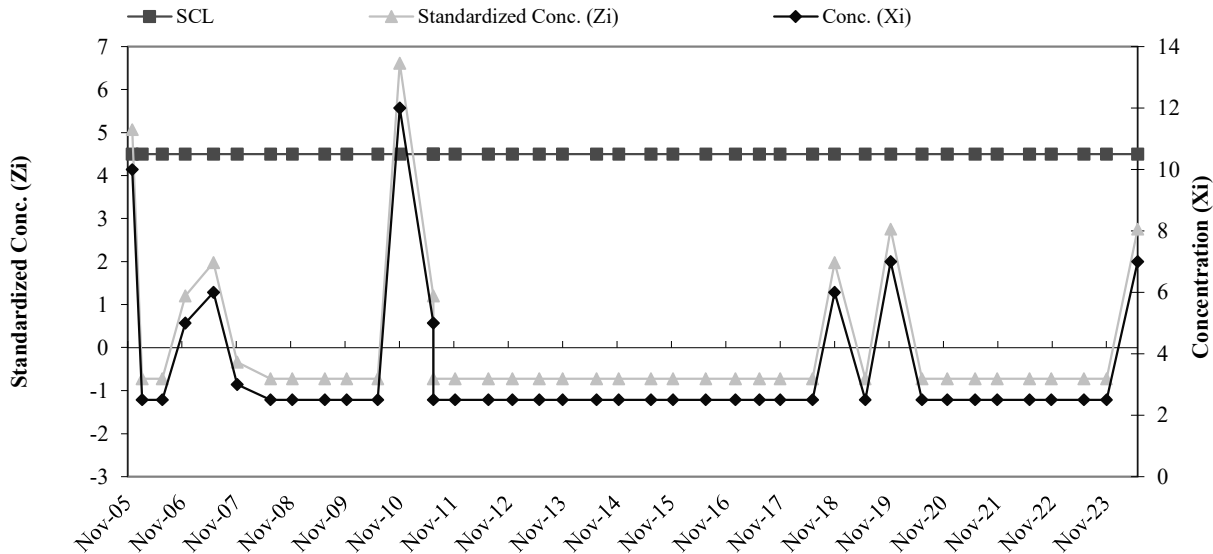


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-19a Cr

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	May-98	5	3.44	1.29
2	May-01	5		
3	May-02	5		
4	Jun-03	2.5		
5	Nov-03	2.5		
6	Jun-04	2.5		
7	Dec-04	2.5		
8	Jun-05	2.5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Dec-05	4.5	10	5.07	37	Nov-18	4.5	6	1.98
10	Feb-06	4.5	2.5	-0.72	38	Jun-19	4.5	2.5	-0.72
11	Jun-06	4.5	2.5	-0.72	39	Nov-19	4.5	7	2.75
12	Nov-06	4.5	5	1.21	40	Jun-20	4.5	2.5	-0.72
13	Jun-07	4.5	6	1.98	41	Dec-20	4.5	2.5	-0.72
14	Nov-07	4.5	3	-0.34	42	Jun-21	4.5	2.5	-0.72
15	Jun-08	4.5	2.5	-0.72	43	Nov-21	4.5	2.5	-0.72
16	Nov-08	4.5	2.5	-0.72	44	Jun-22	4.5	2.5	-0.72
17	Jun-09	4.5	2.5	-0.72	45	Nov-22	4.5	2.5	-0.72
18	Nov-09	4.5	2.5	-0.72	46	Jun-23	4.5	2.5	-0.72
19	Jun-10	4.5	2.5	-0.72	47	Nov-23	4.5	2.5	-0.72
20	Nov-10	4.5	12	6.62	48	Jun-24	4.5	7	2.75
21	Jun-11	4.5	5	1.21					
22	Jun-11	4.5	2.5	-0.72					
23	Nov-11	4.5	2.5	-0.72					
24	Jun-12	4.5	2.5	-0.72					
25	Dec-12	4.5	2.5	-0.72					
26	Jun-13	4.5	2.5	-0.72					
27	Nov-13	4.5	2.5	-0.72					
28	Jun-14	4.5	2.5	-0.72					
29	Nov-14	4.5	2.5	-0.72					
30	Jun-15	4.5	2.5	-0.72					
31	Nov-15	4.5	2.5	-0.72					
32	Jun-16	4.5	2.5	-0.72					
33	Jan-17	4.5	2.5	-0.72					
34	Jun-17	4.5	2.5	-0.72					
35	Nov-17	4.5	2.5	-0.72					
36	Jun-18	4.5	2.5	-0.72					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

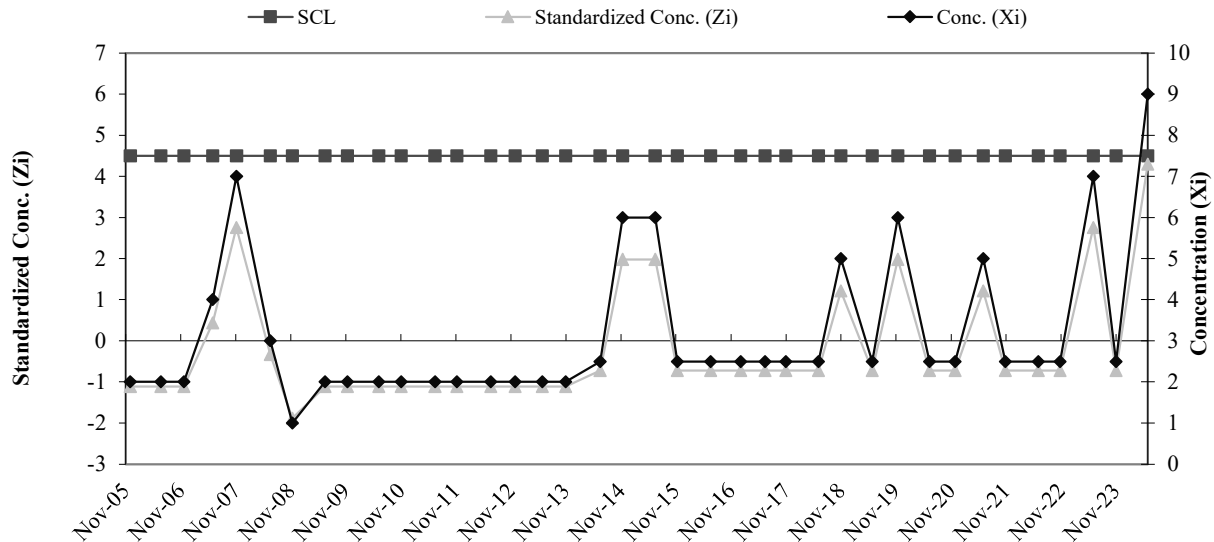


**COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-19a Cu**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	May-98	5	3.44	1.29
2	May-01	5		
3	May-02	5		
4	Jun-03	2.5		
5	Nov-03	2.5		
6	Jun-04	2.5		
7	Dec-04	2.5		
8	Jun-05	2.5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Dec-05	4.5	2	-1.11	36	Jun-19	4.5	2.5	-0.72
10	Jun-06	4.5	2	-1.11	37	Nov-19	4.5	6	1.98
11	Nov-06	4.5	2	-1.11	38	Jun-20	4.5	2.5	-0.72
12	Jun-07	4.5	4	0.43	39	Dec-20	4.5	2.5	-0.72
13	Nov-07	4.5	7	2.75	40	Jun-21	4.5	5	1.21
14	Jun-08	4.5	3	-0.34	41	Nov-21	4.5	2.5	-0.72
15	Nov-08	4.5	1	-1.88	42	Jun-22	4.5	2.5	-0.72
16	Jun-09	4.5	2	-1.11	43	Nov-22	4.5	2.5	-0.72
17	Nov-09	4.5	2	-1.11	44	Jun-23	4.5	7	2.75
18	Jun-10	4.5	2	-1.11	45	Nov-23	4.5	2.5	-0.72
19	Nov-10	4.5	2	-1.11	46	Jun-24	4.5	9	4.30
20	Jun-11	4.5	2	-1.11					
21	Nov-11	4.5	2	-1.11					
22	Jun-12	4.5	2	-1.11					
23	Dec-12	4.5	2	-1.11					
24	Jun-13	4.5	2	-1.11					
25	Nov-13	4.5	2	-1.11					
26	Jun-14	4.5	2.5	-0.72					
27	Nov-14	4.5	6	1.98					
28	Jun-15	4.5	6	1.98					
29	Nov-15	4.5	2.5	-0.72					
30	Jun-16	4.5	2.5	-0.72					
31	Jan-17	4.5	2.5	-0.72					
32	Jun-17	4.5	2.5	-0.72					
33	Nov-17	4.5	2.5	-0.72					
34	Jun-18	4.5	2.5	-0.72					
35	Nov-18	4.5	5	1.21					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean



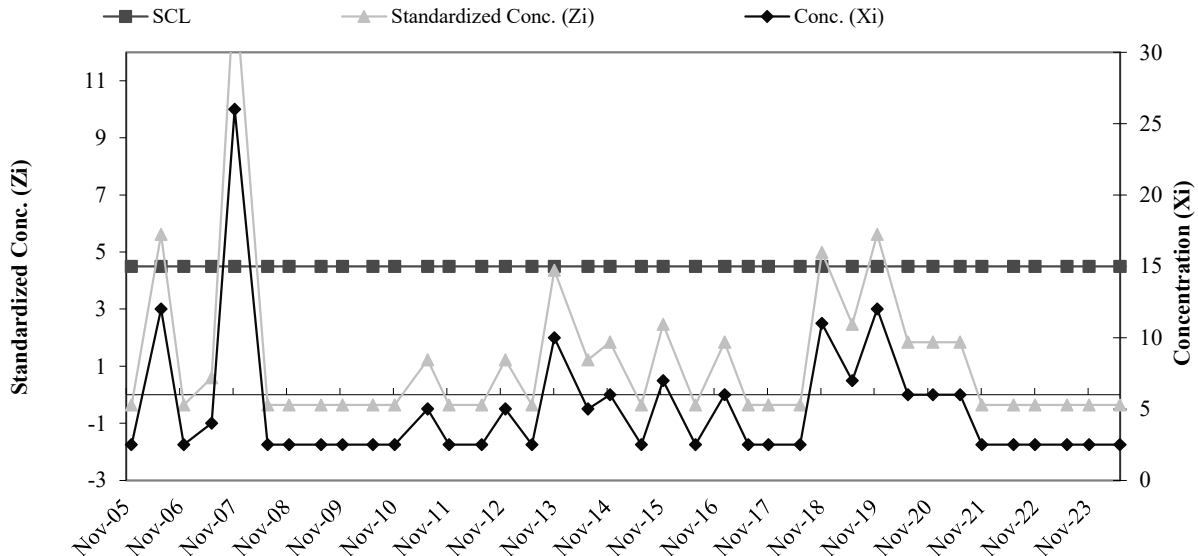
**COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART**

B-19a Ni

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	May-98	2.5	3.06	1.59
2	May-01	2.5		
3	May-02	2.5		
4	Jun-03	2.5		
5	Nov-03	2.5		
6	Jun-04	2.5		
7	Dec-04	2.5		
8	Jun-05	7		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Dec-05	4.5	2.5	-0.35	37	Jun-19	4.5	7	2.47
10	Jun-06	4.5	12	5.62	38	Nov-19	4.5	12	5.62
11	Nov-06	4.5	2.5	-0.35	39	Jun-20	4.5	6	1.85
12	Jun-07	4.5	4	0.59	40	Dec-20	4.5	6	1.85
13	Nov-07	4.5	26	14.42	41	Jun-21	4.5	6	1.85
14	Jun-08	4.5	2.5	-0.35	42	Nov-21	4.5	2.5	-0.35
15	Nov-08	4.5	2.5	-0.35	43	Jun-22	4.5	2.5	-0.35
16	Jun-09	4.5	2.5	-0.35	44	Nov-22	4.5	2.5	-0.35
17	Nov-09	4.5	2.5	-0.35	45	Jun-23	4.5	2.5	-0.35
19	Jun-10	4.5	2.5	-0.35	46	Nov-23	4.5	2.5	-0.35
20	Nov-10	4.5	2.5	-0.35	47	Jun-24	4.5	2.5	-0.35
21	Jun-11	4.5	5	1.22					
22	Nov-11	4.5	2.5	-0.35					
23	Jun-12	4.5	2.5	-0.35					
24	Dec-12	4.5	5	1.22					
25	Jun-13	4.5	2.5	-0.35					
26	Nov-13	4.5	10	4.36					
27	Jun-14	4.5	5	1.22					
28	Nov-14	4.5	6	1.85					
29	Jun-15	4.5	2.5	-0.35					
30	Nov-15	4.5	7	2.47					
31	Jun-16	4.5	2.5	-0.35					
32	Jan-17	4.5	6	1.85					
33	Jun-17	4.5	2.5	-0.35					
34	Nov-17	4.5	2.5	-0.35					
35	Jun-18	4.5	2.5	-0.35					
36	Nov-18	4.5	11	4.99					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

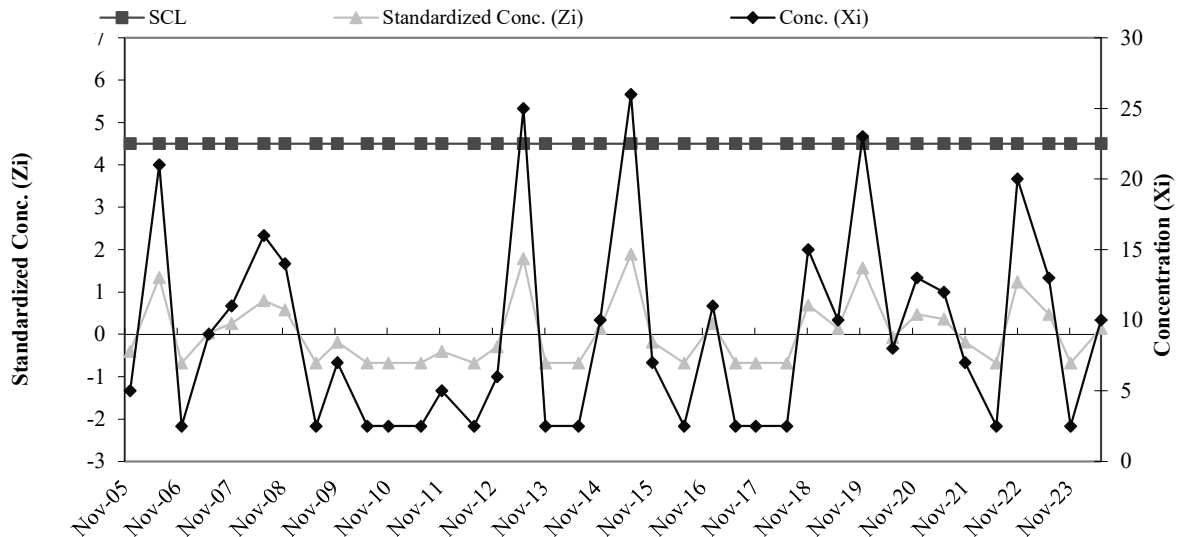


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-19a Zn

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	May-98	30	8.69	9.14
2	May-01	5		
3	May-02	10		
4	Jun-03	2.5		
5	Nov-03	2.5		
6	Jun-04	8		
7	Dec-04	9		
8	Jun-05	2.5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Dec-05	4.5	5	-0.40	37	Nov-19	4.5	23	1.57
10	Jun-06	4.5	21	1.35	38	Jun-20	4.5	8	-0.08
11	Nov-06	4.5	2.5	-0.68	39	Dec-20	4.5	13	0.47
12	Jun-07	4.5	9	0.03	40	Jun-21	4.5	12	0.36
13	Nov-07	4.5	11	0.25	41	Nov-21	4.5	7	-0.18
14	Jun-08	4.5	16	0.80	42	Jun-22	4.5	2.5	-0.68
15	Nov-08	4.5	14	0.58	43	Nov-22	4.5	20	1.24
16	Jun-09	4.5	2.5	-0.68	44	Jun-23	4.5	13	0.47
17	Nov-09	4.5	7	-0.18	45	Nov-23	4.5	2.5	-0.68
18	Jun-10	4.5	2.5	-0.68	46	Jun-24	4.5	10	0.14
19	Nov-10	4.5	2.5	-0.68					
20	Jun-11	4.5	2.5	-0.68					
21	Nov-11	4.5	5	-0.40					
22	Jun-12	4.5	2.5	-0.68					
23	Dec-12	4.5	6	-0.29					
24	Jun-13	4.5	25	1.78					
25	Nov-13	4.5	2.5	-0.68					
26	Jun-14	4.5	2.5	-0.68					
27	Nov-14	4.5	10	0.14					
28	Jun-15	4.5	26	1.89					
29	Nov-15	4.5	7	-0.18					
30	Jun-16	4.5	2.5	-0.68					
31	Jan-17	4.5	11	0.25					
32	Jun-17	4.5	2.5	-0.68					
33	Nov-17	4.5	2.5	-0.68					
34	Jun-18	4.5	2.5	-0.68					
35	Nov-18	4.5	15	0.69					
36	Jun-19	4.5	10	0.14					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

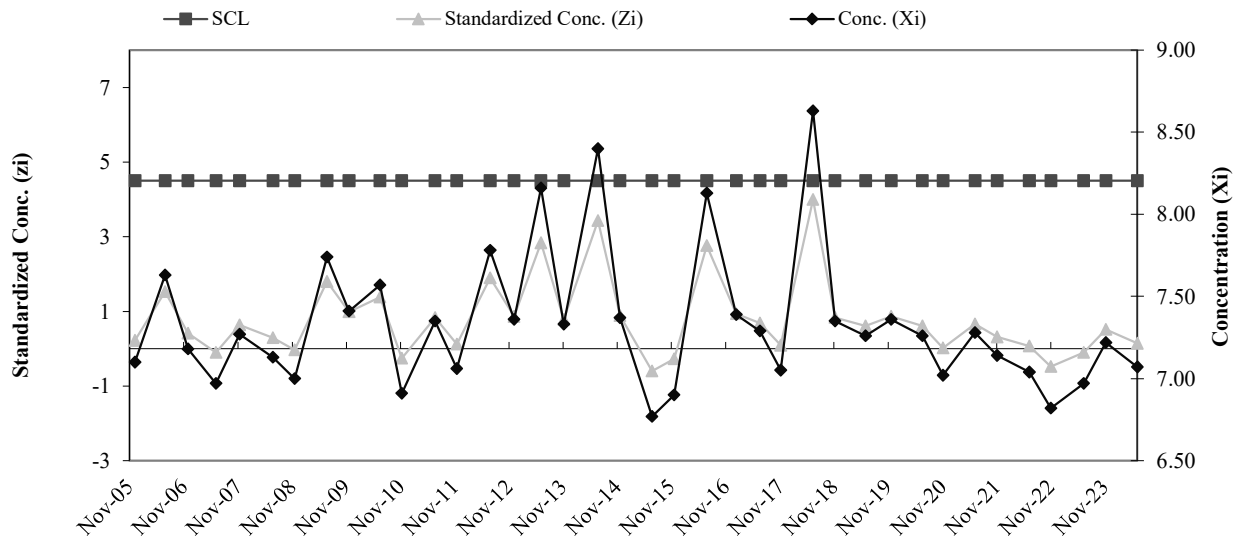


**COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-19a pH**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	May-98	6.80	7.01	0.40
2	May-01	7.10		
3	May-02	7.20		
4	Jun-03	6.90		
5	Nov-03	7.60		
6	Jun-04	7.20		
7	Dec-04	6.20		
8	Jun-05	7.09		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Dec-05	4.5	7.10	0.22	38	Jun-20	4.5	7.26	0.61
10	Jun-06	4.5	7.63	1.53	39	Nov-20	4.5	7.02	0.02
11	Nov-06	4.5	7.18	0.42	40	Jun-21	4.5	7.28	0.66
12	Jun-07	4.5	6.97	-0.10	41	Nov-21	4.5	7.14	0.32
13	Nov-07	4.5	7.27	0.64	42	Jun-22	4.5	7.04	0.07
14	Jun-08	4.5	7.13	0.29	43	Nov-22	4.5	6.82	-0.47
15	Nov-08	4.5	7.00	-0.03	44	Jun-23	4.5	6.97	-0.10
16	Jun-09	4.5	7.74	1.80	45	Nov-23	4.5	7.22	0.52
17	Nov-09	4.5	7.41	0.99	46	Jun-24	4.5	7.07	0.15
18	Jun-10	4.5	7.57	1.38					
19	Nov-10	4.5	6.91	-0.25					
20	Jun-11	4.5	7.35	0.84					
21	Nov-11	4.5	7.06	0.12					
22	Jun-12	4.5	7.78	1.90					
23	Dec-12	4.5	7.36	0.86					
24	Jun-13	4.5	8.16	2.84					
25	Nov-13	4.5	7.33	0.79					
26	Jun-14	4.5	8.40	3.43					
27	Nov-14	4.5	7.37	0.89					
28	Jun-15	4.5	6.77	-0.60					
29	Nov-15	4.5	6.90	-0.27					
30	Jun-16	4.5	8.13	2.76					
31	Jan-17	4.5	7.39	0.94					
32	Jun-17	4.5	7.29	0.69					
33	Nov-17	4.5	7.05	0.10					
34	Jun-18	4.5	8.63	4.00					
35	Nov-18	4.5	7.35	0.84					
36	Jun-19	4.5	7.26	0.61					
37	Nov-19	4.5	7.36	0.86					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

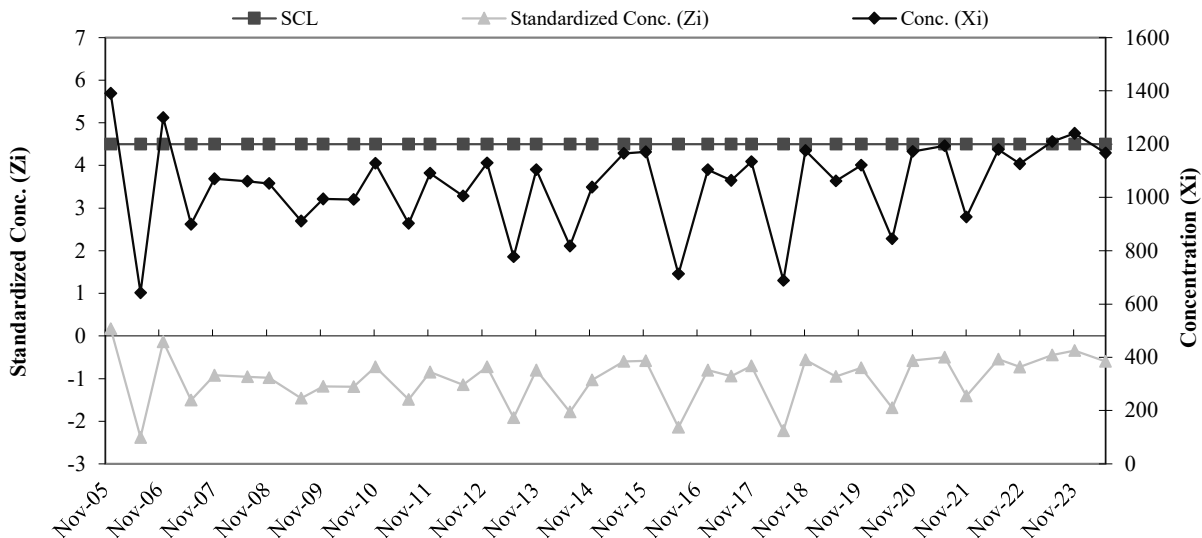


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-19a SpC

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	May-98	1480	1,340.63	293.72
2	May-01	1050		
3	May-02	1740		
4	Jun-03	1350		
5	Nov-03	1620		
6	Jun-04	1316		
7	Dec-04	1340		
8	Jun-05	829		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Dec-05	4.5	1390	0.17	38	Jun-20	4.5	845	-1.69
10	Jun-06	4.5	642	-2.38	39	Nov-20	4.5	1172	-0.57
11	Nov-06	4.5	1300	-0.14	40	Jun-21	4.5	1194	-0.50
12	Jun-07	4.5	899	-1.50	41	Nov-21	4.5	926	-1.41
13	Nov-07	4.5	1070	-0.92	42	Jun-22	4.5	1180	-0.55
14	Jun-08	4.5	1060	-0.96	43	Nov-22	4.5	1126	-0.73
15	Nov-08	4.5	1052	-0.98	44	Jun-23	4.5	1210	-0.44
16	Jun-09	4.5	911	-1.46	45	Nov-23	4.5	1240	-0.34
17	Nov-09	4.5	994	-1.18	46	Jun-24	4.5	1166	-0.59
18	Jun-10	4.5	992	-1.19					
19	Nov-10	4.5	1128	-0.72					
20	Jun-11	4.5	902	-1.49					
21	Nov-11	4.5	1091	-0.85					
22	Jun-12	4.5	1005	-1.14					
23	Dec-12	4.5	1129	-0.72					
24	Jun-13	4.5	777	-1.92					
25	Nov-13	4.5	1104	-0.81					
26	Jun-14	4.5	817	-1.78					
27	Nov-14	4.5	1038	-1.03					
28	Jun-15	4.5	1165	-0.60					
29	Nov-15	4.5	1170	-0.58					
30	Jun-16	4.5	712	-2.14					
31	Jan-17	4.5	1104	-0.81					
32	Jun-17	4.5	1064	-0.94					
33	Nov-17	4.5	1134	-0.70					
34	Jun-18	4.5	688	-2.22					
35	Nov-18	4.5	1176	-0.56					
36	Jun-19	4.5	1062	-0.95					
37	Nov-19	4.5	1121	-0.75					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

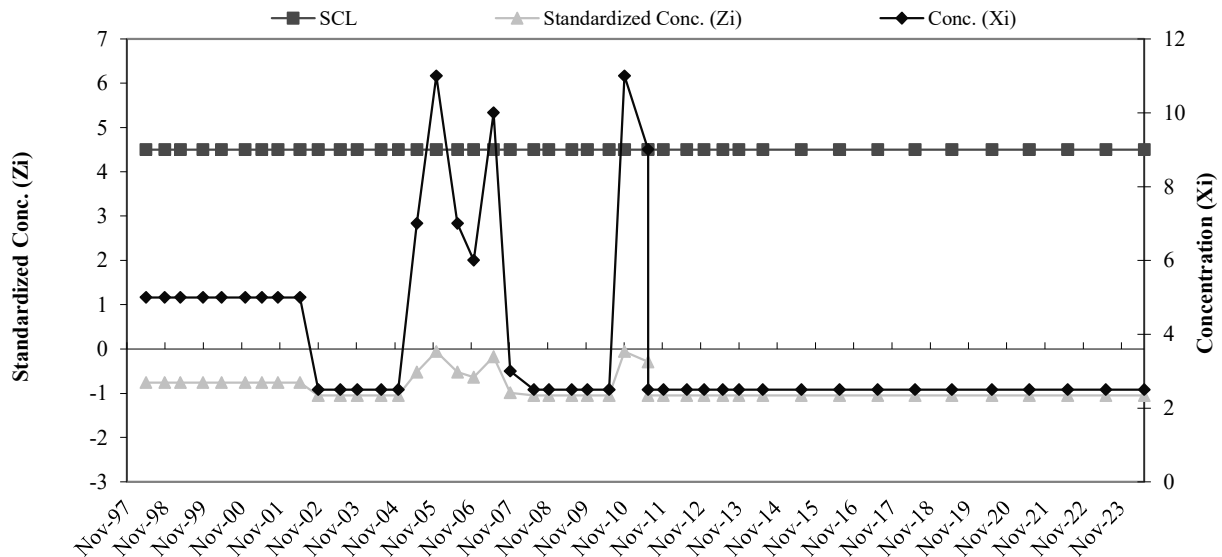


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-20d Cr

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	11.50	8.59
2	Aug-95	10		
3	Feb-96	32		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	May-97	5		
8	Nov-97	5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	5	-0.76	37	Nov-11	4.5	2.5	-1.05
10	Nov-98	4.5	5	-0.76	38	Jun-12	4.5	2.5	-1.05
11	Apr-99	4.5	5	-0.76	39	Dec-12	4.5	2.5	-1.05
12	Nov-99	4.5	5	-0.76	40	Jun-13	4.5	2.5	-1.05
13	Apr-00	4.5	5	-0.76	41	Nov-13	4.5	2.5	-1.05
14	Dec-00	4.5	5	-0.76	42	Jun-14	4.5	2.5	-1.05
15	May-01	4.5	5	-0.76	43	Jun-15	4.5	2.5	-1.05
16	Oct-01	4.5	5	-0.76	44	Jun-16	4.5	2.5	-1.05
17	May-02	4.5	5	-0.76	45	Jun-17	4.5	2.5	-1.05
18	Nov-02	4.5	2.5	-1.05	46	Jun-18	4.5	2.5	-1.05
19	Jun-03	4.5	2.5	-1.05	47	May-19	4.5	2.5	-1.05
20	Nov-03	4.5	2.5	-1.05	48	Jun-20	4.5	2.5	-1.05
21	Jun-04	4.5	2.5	-1.05	49	Jun-21	4.5	2.5	-1.05
22	Dec-04	4.5	2.5	-1.05	50	Jun-22	4.5	2.5	-1.05
23	Jun-05	4.5	7	-0.52	51	Jun-23	4.5	2.5	-1.05
24	Dec-05	4.5	11	-0.06	52	Jun-24	4.5	2.5	-1.05
25	Jun-06	4.5	7	-0.52					
26	Nov-06	4.5	6	-0.64					
27	Jun-07	4.5	10	-0.17					
28	Nov-07	4.5	3	-0.99					
29	Jun-08	4.5	2.5	-1.05					
30	Nov-08	4.5	2.5	-1.05					
31	Jun-09	4.5	2.5	-1.05					
32	Nov-09	4.5	2.5	-1.05					
33	Jun-10	4.5	2.5	-1.05					
34	Nov-10	4.5	11	-0.06					
35	Jun-11	4.5	9	-0.29					
36	Jun-11	4.5	2.5	-1.05					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

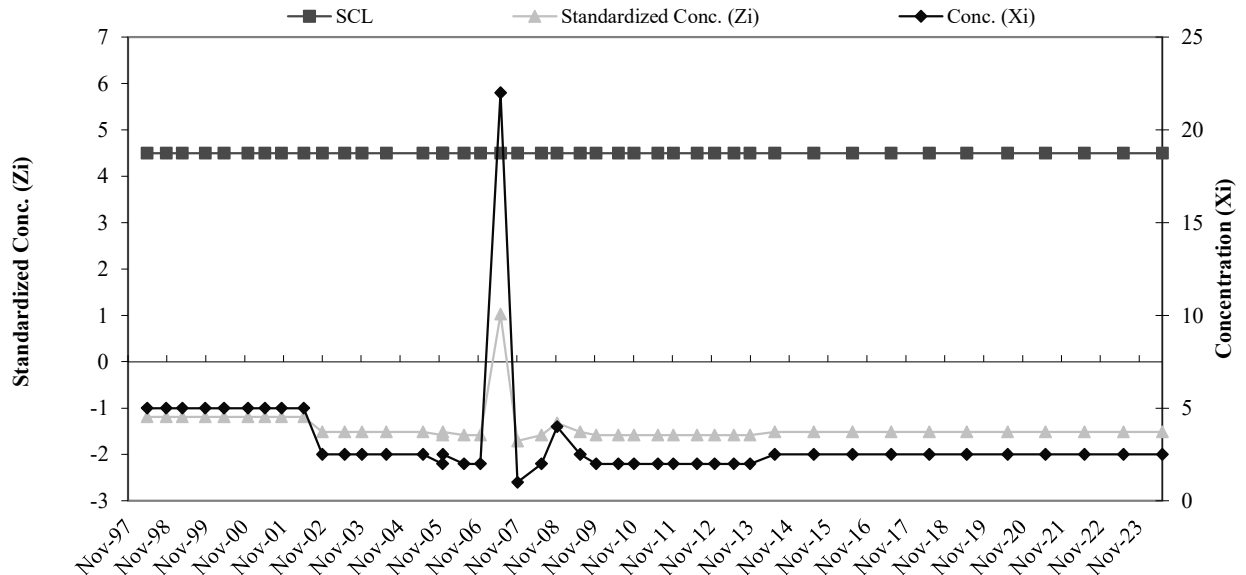


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-20d Cu

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	14.13	7.68
2	Aug-95	20		
3	Feb-96	28		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	May-97	5		
8	Nov-97	20		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	5	-1.19	36	Nov-11	4.5	2	-1.58
10	Nov-98	4.5	5	-1.19	37	Jun-12	4.5	2	-1.58
11	Apr-99	4.5	5	-1.19	38	Dec-12	4.5	2	-1.58
12	Nov-99	4.5	5	-1.19	39	Jun-13	4.5	2	-1.58
13	Apr-00	4.5	5	-1.19	40	Nov-13	4.5	2	-1.58
14	Dec-00	4.5	5	-1.19	41	Jun-14	4.5	2.5	-1.51
15	May-01	4.5	5	-1.19	42	Jun-15	4.5	2.5	-1.51
16	Oct-01	4.5	5	-1.19	43	Jun-16	4.5	2.5	-1.51
17	May-02	4.5	5	-1.19	44	Jun-17	4.5	2.5	-1.51
18	Nov-02	4.5	2.5	-1.51	45	Jun-18	4.5	2.5	-1.51
19	Jun-03	4.5	2.5	-1.51	46	May-19	4.5	2.5	-1.51
20	Nov-03	4.5	2.5	-1.51	47	Jun-20	4.5	2.5	-1.51
21	Jun-04	4.5	2.5	-1.51	48	Jun-21	4.5	2.5	-1.51
22	Dec-05	4.5	2.5	-1.51	49	Jun-22	4.5	2.5	-1.51
23	Jun-05	4.5	2.5	-1.51	50	Jun-23	4.5	2.5	-1.51
24	Dec-05	4.5	2	-1.58	51	Jun-24	4.5	2.5	-1.51
25	Jun-06	4.5	2	-1.58					
26	Nov-06	4.5	2	-1.58					
27	Jun-07	4.5	22	1.03					
28	Nov-07	4.5	1	-1.71					
29	Jun-08	4.5	2	-1.58					
30	Nov-08	4.5	4	-1.32					
31	Jun-09	4.5	2.5	-1.51					
32	Nov-09	4.5	2	-1.58					
33	Jun-10	4.5	2	-1.58					
34	Nov-10	4.5	2	-1.58					
35	Jun-11	4.5	2	-1.58					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

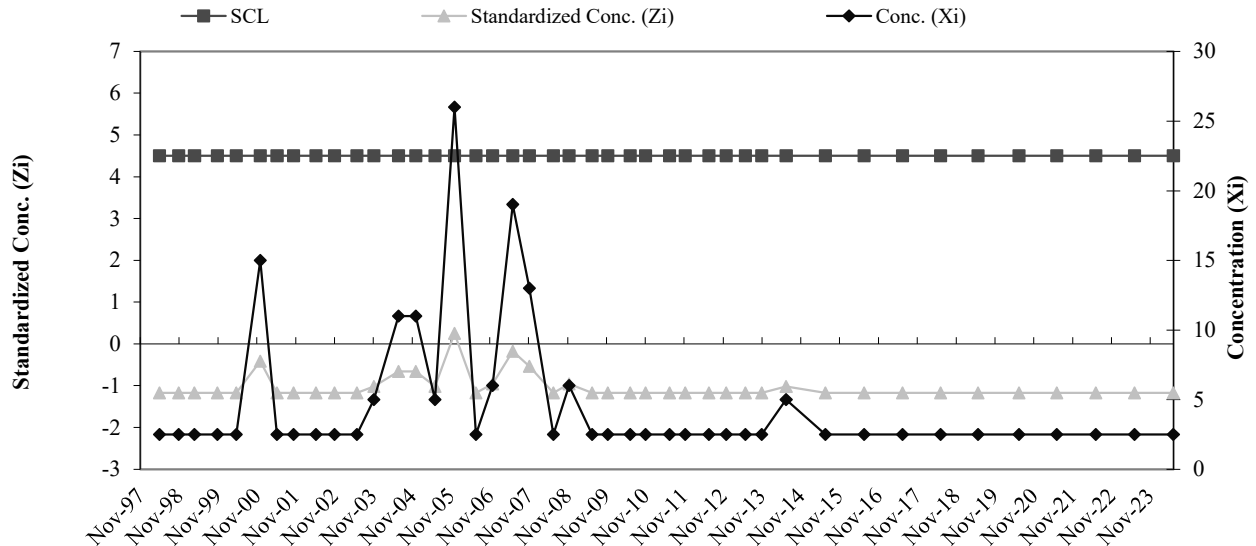


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-20d Ni

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	15	21.88	16.56
2	Aug-95	20		
3	Feb-96	54		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	May-97	15		
8	Nov-97	41		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	2.5	-1.17	36	Nov-11	4.5	2.5	-1.17
10	Nov-98	4.5	2.5	-1.17	37	Jun-12	4.5	2.5	-1.17
11	Apr-99	4.5	2.5	-1.17	38	Dec-12	4.5	2.5	-1.17
12	Nov-99	4.5	2.5	-1.17	39	Jun-13	4.5	2.5	-1.17
13	Apr-00	4.5	2.5	-1.17	40	Nov-13	4.5	2.5	-1.17
14	Dec-00	4.5	15	-0.42	41	Jun-14	4.5	5	-1.02
15	May-01	4.5	2.5	-1.17	42	Jun-15	4.5	2.5	-1.17
16	Oct-01	4.5	2.5	-1.17	43	Jun-16	4.5	2.5	-1.17
17	May-02	4.5	2.5	-1.17	44	Jun-17	4.5	2.5	-1.17
18	Nov-02	4.5	2.5	-1.17	45	Jun-18	4.5	2.5	-1.17
19	Jun-03	4.5	2.5	-1.17	46	May-19	4.5	2.5	-1.17
20	Nov-03	4.5	5	-1.02	47	Jun-20	4.5	2.5	-1.17
21	Jun-04	4.5	11	-0.66	48	Jun-21	4.5	2.5	-1.17
22	Dec-04	4.5	11	-0.66	49	Jun-22	4.5	2.5	-1.17
23	Jun-05	4.5	5	-1.02	50	Jun-23	4.5	2.5	-1.17
24	Dec-05	4.5	26	0.25	51	Jun-24	4.5	2.5	-1.17
25	Jun-06	4.5	2.5	-1.17					
26	Nov-06	4.5	6	-0.96					
27	Jun-07	4.5	19	-0.17					
28	Nov-07	4.5	13	-0.54					
29	Jun-08	4.5	2.5	-1.17					
30	Nov-08	4.5	6	-0.96					
31	Jun-09	4.5	2.5	-1.17					
32	Nov-09	4.5	2.5	-1.17					
33	Jun-10	4.5	2.5	-1.17					
34	Nov-10	4.5	2.5	-1.17					
35	Jun-11	4.5	2.5	-1.17					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

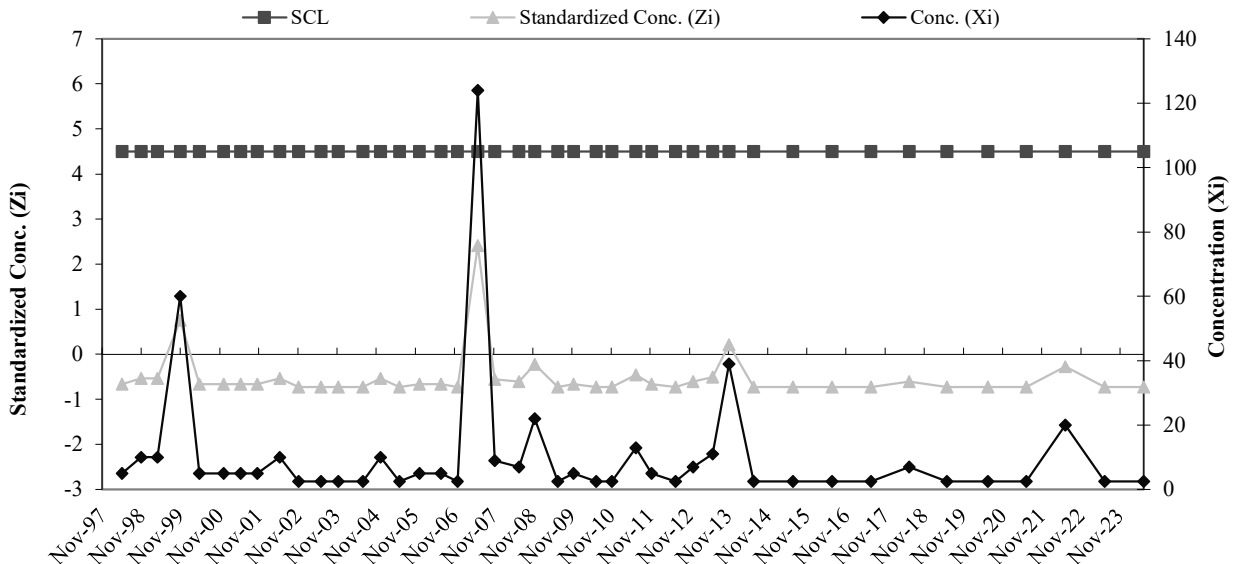


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-20d Zn

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	30.63	38.77
2	Aug-95	10		
3	Feb-96	120		
4	Jun-96	10		
5	Aug-96	40		
6	Nov-96	40		
7	May-97	10		
8	Nov-97	5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	5	-0.66	36	Nov-11	4.5	5	-0.66
10	Nov-98	4.5	10	-0.53	37	Jun-12	4.5	2.5	-0.73
11	Apr-99	4.5	10	-0.53	38	Dec-12	4.5	7	-0.61
12	Nov-99	4.5	60	0.76	39	Jun-13	4.5	11	-0.51
13	Apr-00	4.5	5	-0.66	40	Nov-13	4.5	39	0.22
14	Dec-00	4.5	5	-0.66	41	Jun-14	4.5	2.5	-0.73
15	May-01	4.5	5	-0.66	42	Jun-15	4.5	2.5	-0.73
16	Oct-01	4.5	5	-0.66	43	Jun-16	4.5	2.5	-0.73
17	May-02	4.5	10	-0.53	44	Jun-17	4.5	2.5	-0.73
18	Nov-02	4.5	2.5	-0.73	45	Jun-18	4.5	7	-0.61
19	Jun-03	4.5	2.5	-0.73	46	May-19	4.5	2.5	-0.73
20	Nov-03	4.5	2.5	-0.73	47	Jun-20	4.5	2.5	-0.73
21	Jun-04	4.5	2.5	-0.73	48	Jun-21	4.5	2.5	-0.73
22	Dec-04	4.5	10	-0.53	49	Jun-22	4.5	20	-0.27
23	Jun-05	4.5	2.5	-0.73	50	Jun-23	4.5	2.5	-0.73
24	Dec-05	4.5	5	-0.66	51	Jun-24	4.5	2.5	-0.73
25	Jun-06	4.5	5	-0.66					
26	Nov-06	4.5	2.5	-0.73					
27	Jun-07	4.5	124	2.41					
28	Nov-07	4.5	9	-0.56					
29	Jun-08	4.5	7	-0.61					
30	Nov-08	4.5	22	-0.22					
31	Jun-09	4.5	2.5	-0.73					
32	Nov-09	4.5	5	-0.66					
33	Jun-10	4.5	2.5	-0.73					
34	Nov-10	4.5	2.5	-0.73					
35	Jun-11	4.5	13	-0.45					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

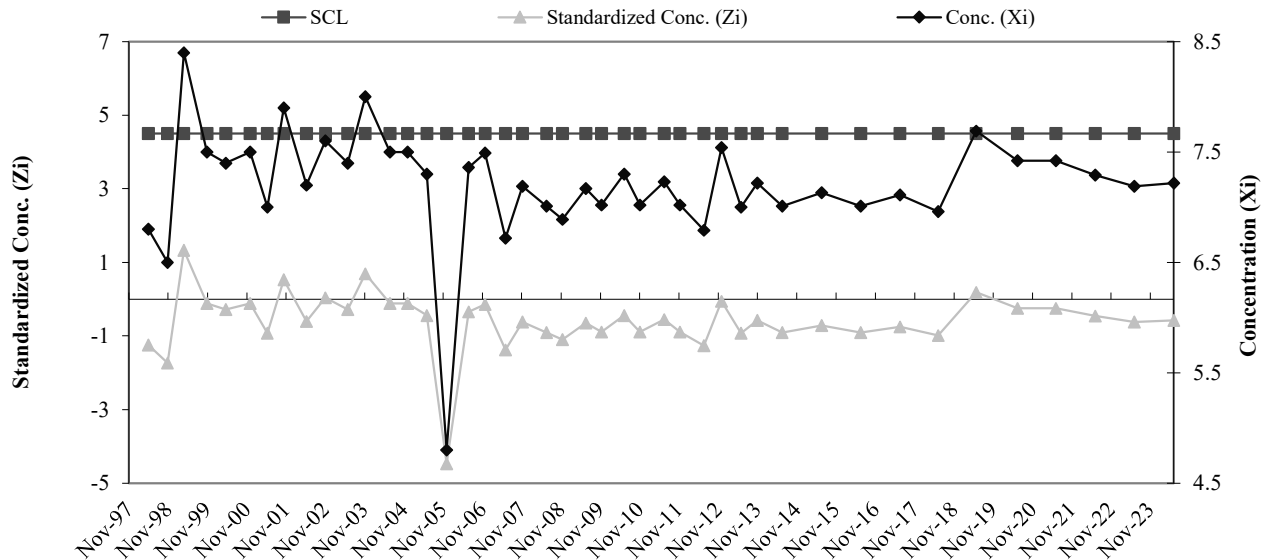


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-20d pH

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	8.3	7.58	0.62
2	Aug-95	8.1		
3	Feb-96	7.1		
4	Jun-96	7.9		
5	Aug-96	8.0		
6	Nov-96	7.7		
7	May-97	6.8		
8	Nov-97	6.7		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	6.8	-1.25	36	Nov-11	4.5	7.0	-0.89
10	Nov-98	4.5	6.5	-1.73	37	Jun-12	4.5	6.8	-1.27
11	Apr-99	4.5	8.4	1.33	38	Dec-12	4.5	7.5	-0.06
12	Nov-99	4.5	7.5	-0.12	39	Jun-13	4.5	7.0	-0.93
13	Apr-00	4.5	7.4	-0.28	40	Nov-13	4.5	7.2	-0.57
14	Dec-00	4.5	7.5	-0.12	41	Jun-14	4.5	7.0	-0.91
15	May-01	4.5	7.0	-0.93	42	Jun-15	4.5	7.1	-0.72
16	Oct-01	4.5	7.9	0.52	43	Jun-16	4.5	7.0	-0.91
17	May-02	4.5	7.2	-0.60	44	Jun-17	4.5	7.1	-0.75
18	Nov-02	4.5	7.6	0.04	45	Jun-18	4.5	7.0	-0.99
19	Jun-03	4.5	7.4	-0.28	46	May-19	4.5	7.7	0.19
20	Nov-03	4.5	8.0	0.68	47	Jun-20	4.5	7.4	-0.25
21	Jun-04	4.5	7.5	-0.12	48	Jun-21	4.5	7.4	-0.25
22	Dec-04	4.5	7.5	-0.12	49	Jun-22	4.5	7.3	-0.46
23	Jun-05	4.5	7.3	-0.44	50	Jun-23	4.5	7.2	-0.62
24	Dec-05	4.5	4.8	-4.47	51	Jun-24	4.5	7.2	-0.57
25	Jun-06	4.5	7.4	-0.35					
26	Nov-06	4.5	7.5	-0.14					
27	Jun-07	4.5	6.7	-1.38					
28	Nov-07	4.5	7.2	-0.62					
29	Jun-08	4.5	7.0	-0.91					
30	Nov-08	4.5	6.9	-1.10					
31	Jun-09	4.5	7.2	-0.65					
32	Nov-09	4.5	7.0	-0.89					
33	Jun-10	4.5	7.3	-0.44					
34	Nov-10	4.5	7.0	-0.89					
35	Jun-11	4.5	7.2	-0.56					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

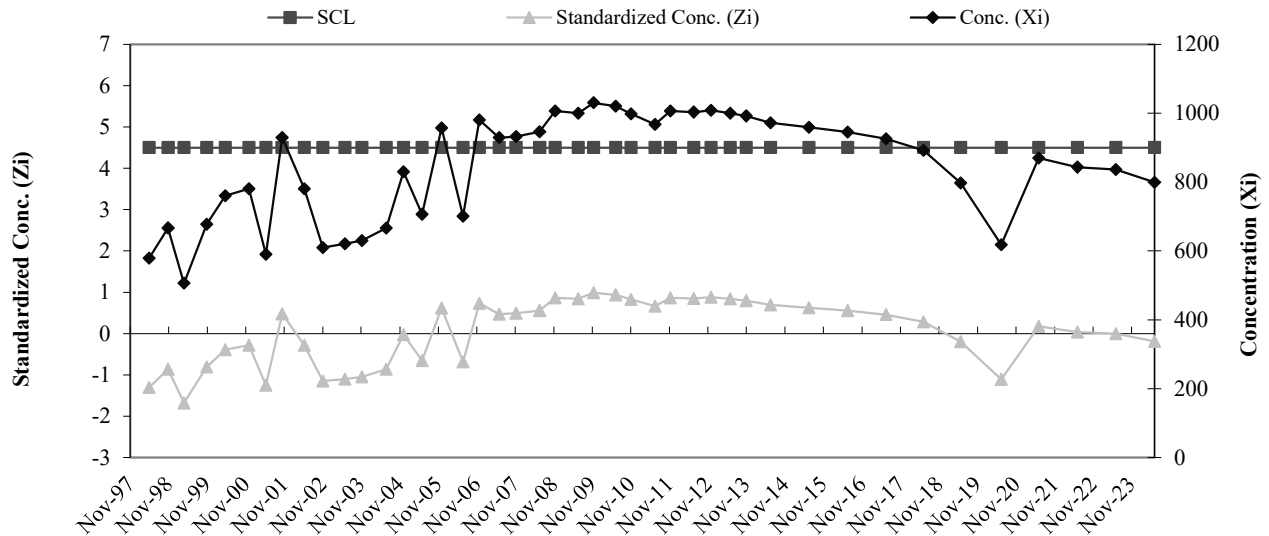


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-20d SpC

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	771	835.75	196.61
2	Aug-95	1204		
3	Feb-96	801		
4	Jun-96	745		
5	Aug-96	750		
6	Nov-96	1075		
7	May-97	640		
8	Nov-97	700		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	579	-1.31	36	Nov-11	4.5	1006	0.87
10	Nov-98	4.5	667	-0.86	37	Jun-12	4.5	1003	0.85
11	Apr-99	4.5	506	-1.68	38	Dec-12	4.5	1008	0.88
12	Nov-99	4.5	677	-0.81	39	Jun-13	4.5	1000	0.84
13	Apr-00	4.5	760	-0.39	40	Nov-13	4.5	992	0.79
14	Dec-00	4.5	780	-0.28	41	Jun-14	4.5	972	0.69
15	May-01	4.5	590	-1.25	42	Jun-15	4.5	959	0.63
16	Oct-01	4.5	930	0.48	43	Jun-16	4.5	945	0.56
17	May-02	4.5	780	-0.28	44	Jun-17	4.5	926	0.46
18	Nov-02	4.5	610	-1.15	45	Jun-18	4.5	892	0.29
19	Jun-03	4.5	620	-1.10	46	May-19	4.5	797	-0.20
20	Nov-03	4.5	630	-1.05	47	Jun-20	4.5	618	-1.11
21	Jun-04	4.5	666	-0.86	48	Jun-21	4.5	870	0.17
22	Dec-04	4.5	830	-0.03	49	Jun-22	4.5	843	0.04
23	Jun-05	4.5	707	-0.65	50	Jun-23	4.5	836	0.00
24	Dec-05	4.5	957	0.62	51	Jun-24	4.5	799	-0.19
25	Jun-06	4.5	701	-0.69					
26	Nov-06	4.5	980	0.73					
27	Jun-07	4.5	929	0.47					
28	Nov-07	4.5	932	0.49					
29	Jun-08	4.5	946	0.56					
30	Nov-08	4.5	1006	0.87					
31	Jun-09	4.5	1000	0.84					
32	Nov-09	4.5	1030	0.99					
33	Jun-10	4.5	1020	0.94					
34	Nov-10	4.5	998	0.83					
35	Jun-11	4.5	967	0.67					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

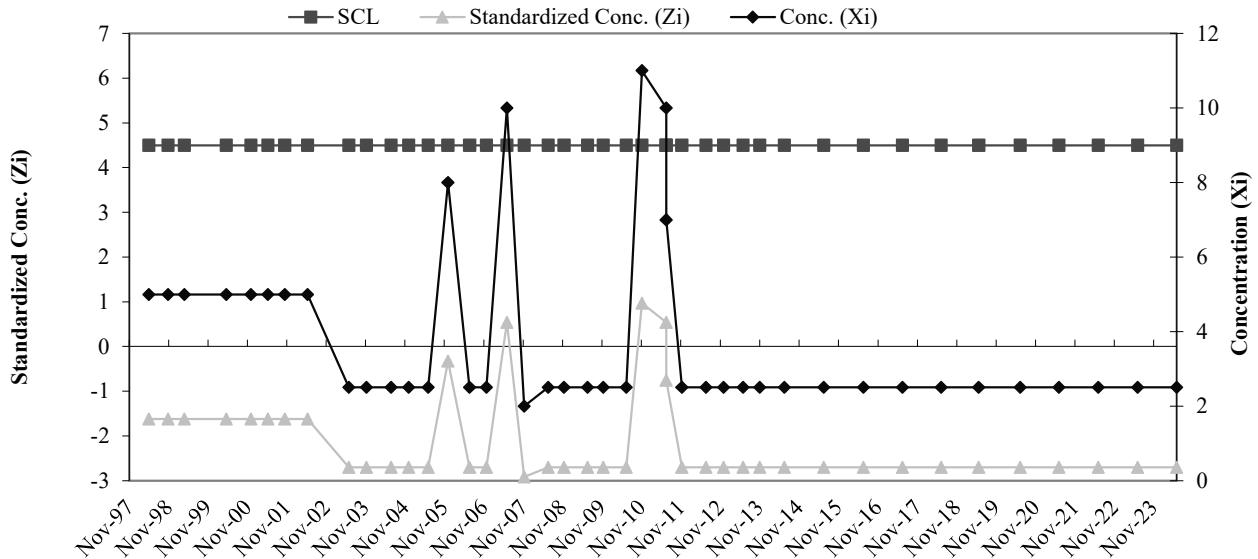


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-21d Cr

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	8.75	2.31
2	Aug-95	10		
3	Feb-96	10		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	May-97	5		
8	Nov-97	5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	5	-1.62	36	Nov-11	4.5	2.5	-2.70
10	Nov-98	4.5	5	-1.62	37	Jun-12	4.5	2.5	-2.70
11	Apr-99	4.5	5	-1.62	38	Dec-12	4.5	2.5	-2.70
12	Apr-00	4.5	5	-1.62	39	Jun-13	4.5	2.5	-2.70
13	Dec-00	4.5	5	-1.62	40	Nov-13	4.5	2.5	-2.70
14	May-01	4.5	5	-1.62	41	Jun-14	4.5	2.5	-2.70
15	Oct-01	4.5	5	-1.62	42	Jun-15	4.5	2.5	-2.70
16	May-02	4.5	5	-1.62	43	Jun-16	4.5	2.5	-2.70
18	Jun-03	4.5	2.5	-2.70	44	Jun-17	4.5	2.5	-2.70
19	Nov-03	4.5	2.5	-2.70	45	Jun-18	4.5	2.5	-2.70
20	Jun-04	4.5	2.5	-2.70	46	May-19	4.5	2.5	-2.70
21	Dec-04	4.5	2.5	-2.70	47	Jun-20	4.5	2.5	-2.70
22	Jun-05	4.5	2.5	-2.70	48	Jun-21	4.5	2.5	-2.70
23	Dec-05	4.5	8	-0.32	49	Jun-22	4.5	2.5	-2.70
24	Jun-06	4.5	2.5	-2.70	50	Jun-23	4.5	2.5	-2.70
25	Nov-06	4.5	2.5	-2.70	51	Jun-24	4.5	2.5	-2.70
26	Jun-07	4.5	10	0.54					
27	Nov-07	4.5	2	-2.92					
28	Jun-08	4.5	2.5	-2.70					
29	Nov-08	4.5	2.5	-2.70					
30	Jun-09	4.5	2.5	-2.70					
31	Nov-09	4.5	2.5	-2.70					
32	Jun-10	4.5	2.5	-2.70					
33	Nov-10	4.5	11	0.97					
34	Jun-11	4.5	10	0.54					
35	Jun-11	4.5	7	-0.76					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

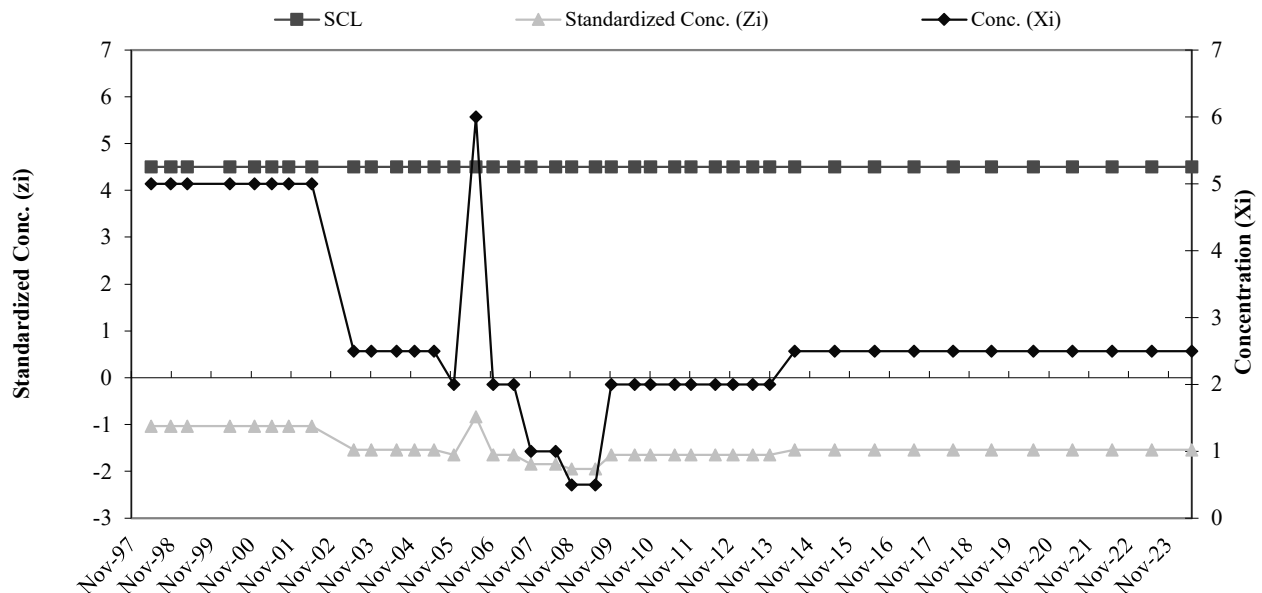


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-21d Cu

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	10.13	4.94
2	Aug-95	21		
3	Feb-96	10		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	May-97	5		
8	Nov-97	5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	5	-1.04	35	Nov-11	4.5	2	-1.64
10	Nov-98	4.5	5	-1.04	36	Jun-12	4.5	2	-1.64
11	Apr-99	4.5	5	-1.04	37	Dec-12	4.5	2	-1.64
12	Apr-00	4.5	5	-1.04	38	Jun-13	4.5	2	-1.64
13	Dec-00	4.5	5	-1.04	39	Nov-13	4.5	2	-1.64
14	May-01	4.5	5	-1.04	40	Jun-14	4.5	2.5	-1.54
15	Oct-01	4.5	5	-1.04	41	Jun-15	4.5	2.5	-1.54
16	May-02	4.5	5	-1.04	42	Jun-16	4.5	2.5	-1.54
18	Jun-03	4.5	2.5	-1.54	43	Jun-17	4.5	2.5	-1.54
19	Nov-03	4.5	2.5	-1.54	44	Jun-18	4.5	2.5	-1.54
20	Jun-04	4.5	2.5	-1.54	45	May-19	4.5	2.5	-1.54
21	Dec-04	4.5	2.5	-1.54	46	Jun-20	4.5	2.5	-1.54
22	Jun-05	4.5	2.5	-1.54	47	Jun-21	4.5	2.5	-1.54
23	Dec-05	4.5	2	-1.64	48	Jun-22	4.5	2.5	-1.54
24	Jun-06	4.5	6	-0.83	49	Jun-23	4.5	2.5	-1.54
25	Nov-06	4.5	2	-1.64	50	Jun-24	4.5	2.5	-1.54
26	Jun-07	4.5	2	-1.64					
27	Nov-07	4.5	1	-1.85					
28	Jun-08	4.5	1	-1.85					
29	Nov-08	4.5	0.5	-1.95					
30	Jun-09	4.5	0.5	-1.95					
31	Nov-09	4.5	2	-1.64					
32	Jun-10	4.5	2	-1.64					
33	Nov-10	4.5	2	-1.64					
34	Jun-11	4.5	2	-1.64					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

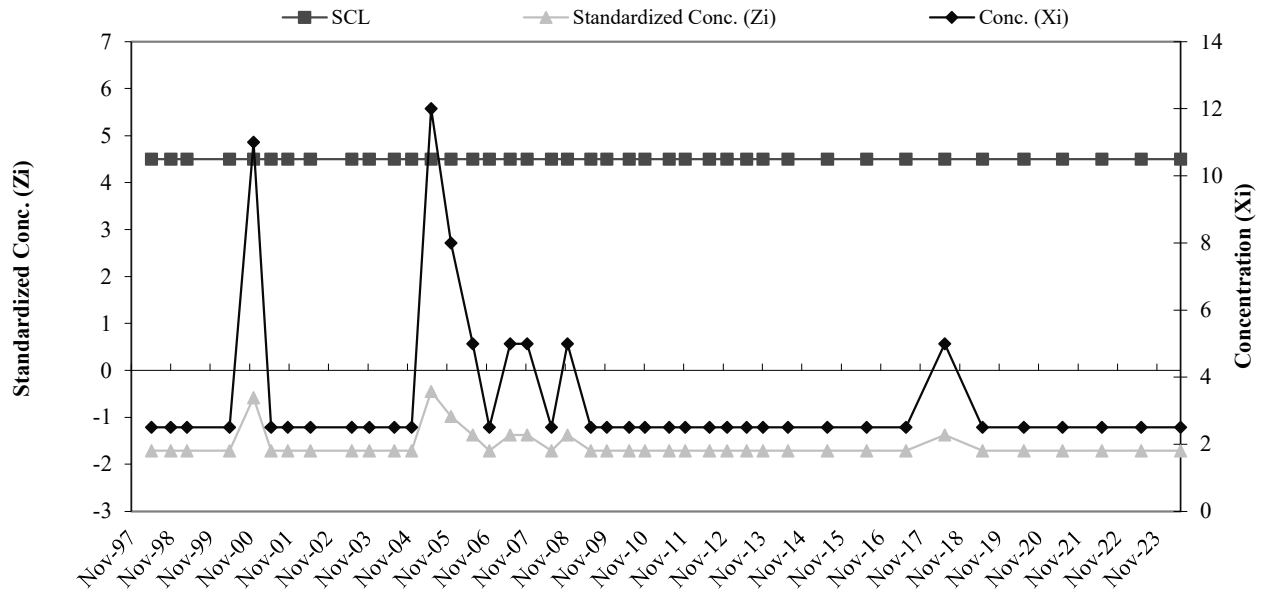


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-21d Ni

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	15	15.38	7.54
2	Aug-95	20		
3	Feb-96	20		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	May-97	8		
8	Nov-97	30		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	2.5	-1.71	35	Nov-11	4.5	2.5	-1.71
10	Nov-98	4.5	2.5	-1.71	36	Jun-12	4.5	2.5	-1.71
11	Apr-99	4.5	2.5	-1.71	37	Dec-12	4.5	2.5	-1.71
12	Apr-00	4.5	2.5	-1.71	38	Jun-13	4.5	2.5	-1.71
13	Dec-00	4.5	11	-0.58	39	Nov-13	4.5	2.5	-1.71
14	May-01	4.5	2.5	-1.71	40	Jun-14	4.5	2.5	-1.71
15	Oct-01	4.5	2.5	-1.71	41	Jun-15	4.5	2.5	-1.71
16	May-02	4.5	2.5	-1.71	42	Jun-16	4.5	2.5	-1.71
18	Jun-03	4.5	2.5	-1.71	43	Jun-17	4.5	2.5	-1.71
19	Nov-03	4.5	2.5	-1.71	44	Jun-18	4.5	5	-1.38
20	Jun-04	4.5	2.5	-1.71	45	May-19	4.5	2.5	-1.71
20	Dec-04	4.5	2.5	-1.71	46	Jun-20	4.5	2.5	-1.71
21	Jun-05	4.5	12	-0.45	47	Jun-21	4.5	2.5	-1.71
22	Dec-05	4.5	8	-0.98	48	Jun-22	4.5	2.5	-1.71
23	Jun-06	4.5	5	-1.38	49	Jun-23	4.5	2.5	-1.71
24	Nov-06	4.5	2.5	-1.71	50	Jun-24	4.5	2.5	-1.71
25	Jun-07	4.5	5	-1.38					
26	Nov-07	4.5	5	-1.38					
27	Jun-08	4.5	2.5	-1.71					
28	Nov-08	4.5	5	-1.38					
30	Jun-09	4.5	2.5	-1.71					
31	Nov-09	4.5	2.5	-1.71					
32	Jun-10	4.5	2.5	-1.71					
33	Nov-10	4.5	2.5	-1.71					
34	Jun-11	4.5	2.5	-1.71					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

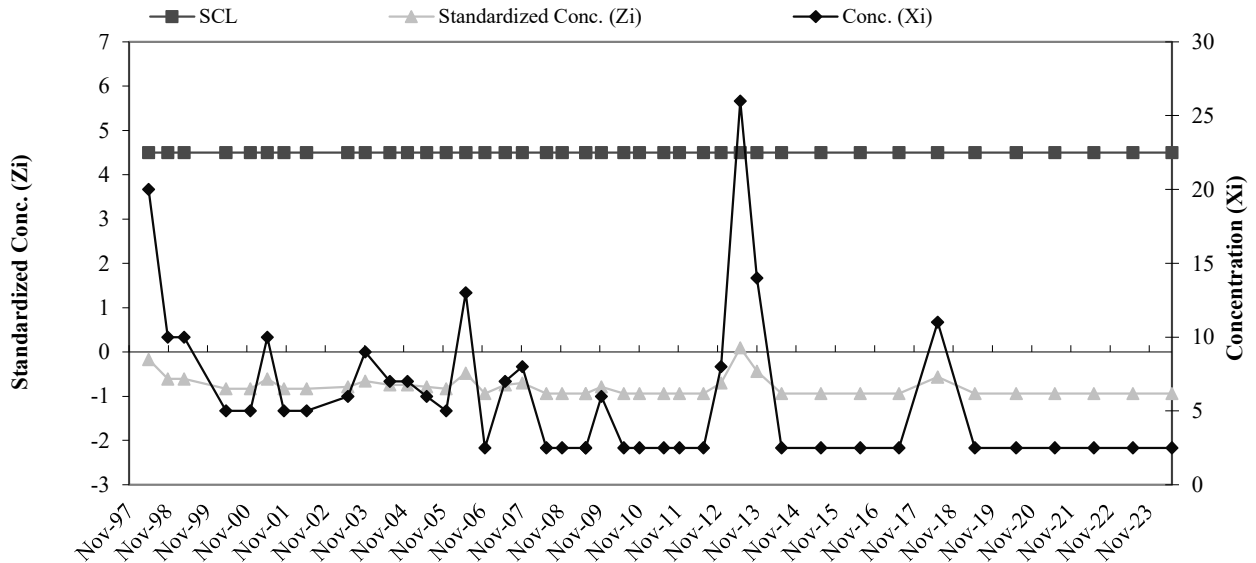


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-21d Zn

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	61	23.88	22.71
2	Aug-95	10		
3	Feb-96	10		
4	Jun-96	10		
5	Aug-96	50		
6	Nov-96	40		
7	May-97	5		
8	Nov-97	5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	20	-0.17	36	Nov-11	4.5	2.5	-0.94
10	Nov-98	4.5	10	-0.61	37	Jun-12	4.5	2.5	-0.94
11	Apr-99	4.5	10	-0.61	38	Dec-12	4.5	8	-0.70
12	Apr-00	4.5	5	-0.83	39	Jun-13	4.5	26	0.09
13	Dec-00	4.5	5	-0.83	40	Nov-13	4.5	14	-0.43
14	May-01	4.5	10	-0.61	41	Jun-14	4.5	2.5	-0.94
15	Oct-01	4.5	5	-0.83	42	Jun-15	4.5	2.5	-0.94
16	May-02	4.5	5	-0.83	43	Jun-16	4.5	2.5	-0.94
18	Jun-03	4.5	6	-0.79	44	Jun-17	4.5	2.5	-0.94
19	Nov-03	4.5	9	-0.65	45	Jun-18	4.5	11	-0.57
20	Jun-04	4.5	7	-0.74	46	May-19	4.5	2.5	-0.94
21	Dec-04	4.5	7	-0.74	47	Jun-20	4.5	2.5	-0.94
22	Jun-05	4.5	6	-0.79	48	Jun-21	4.5	2.5	-0.94
23	Dec-05	4.5	5	-0.83	49	Jun-22	4.5	2.5	-0.94
24	Jun-06	4.5	13	-0.48	50	Jun-23	4.5	2.5	-0.94
25	Nov-06	4.5	2.5	-0.94	51	Jun-24	4.5	2.5	-0.94
26	Jun-07	4.5	7	-0.74					
27	Nov-07	4.5	8	-0.70					
28	Jun-08	4.5	2.5	-0.94					
29	Nov-08	4.5	2.5	-0.94					
30	Jun-09	4.5	2.5	-0.94					
31	Jun-09	4.5	2.5	-0.94					
32	Nov-09	4.5	6	-0.79					
33	Jun-10	4.5	2.5	-0.94					
34	Nov-10	4.5	2.5	-0.94					
35	Jun-11	4.5	2.5	-0.94					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

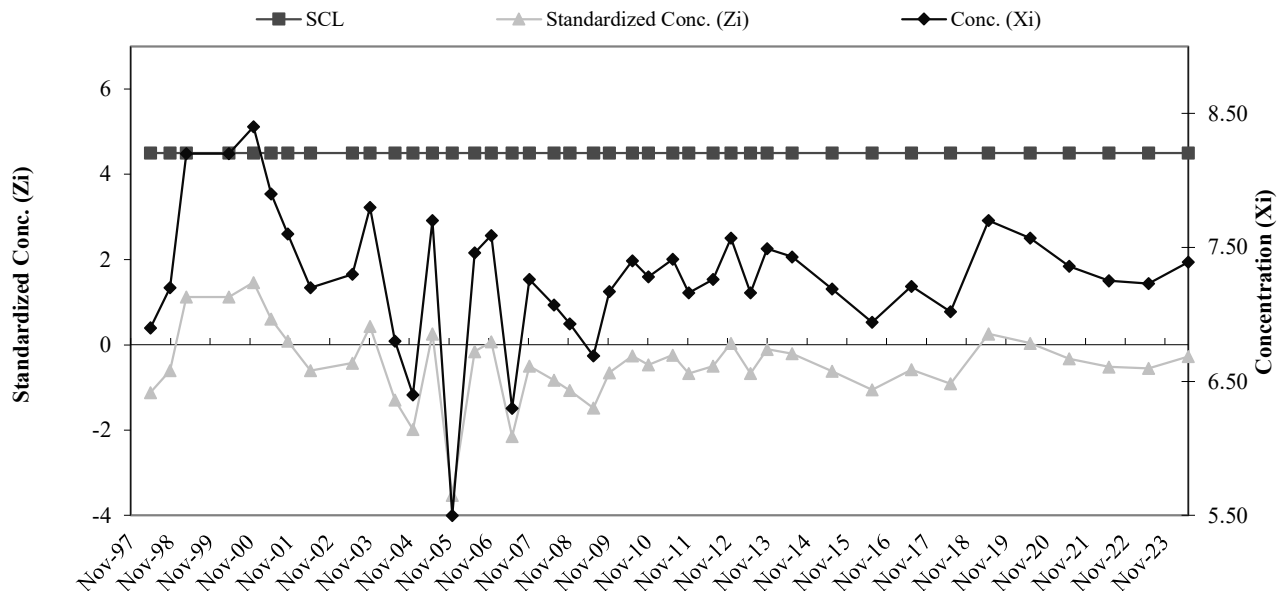


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-21d pH

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	8.30	7.55	0.58
2	Aug-95	8.10		
3	Feb-96	7.70		
4	Jun-96	7.60		
5	Aug-96	7.90		
6	Nov-96	7.30		
7	May-97	6.80		
8	Nov-97	6.70		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	6.90	-1.12	35	Nov-11	4.5	7.16	-0.67
10	Nov-98	4.5	7.20	-0.60	36	Jun-12	4.5	7.26	-0.50
11	Apr-99	4.5	8.20	1.12	37	Dec-12	4.5	7.57	0.03
12	Apr-00	4.5	8.20	1.12	38	Jun-13	4.5	7.16	-0.67
13	Dec-00	4.5	8.40	1.46	39	Nov-13	4.5	7.49	-0.10
14	May-01	4.5	7.90	0.60	40	Jun-14	4.5	7.43	-0.21
15	Oct-01	4.5	7.60	0.09	41	Jun-15	4.5	7.19	-0.62
16	May-02	4.5	7.20	-0.60	42	Jun-16	4.5	6.94	-1.05
18	Jun-03	4.5	7.30	-0.43	43	Jun-17	4.5	7.21	-0.59
19	Nov-03	4.5	7.80	0.43	44	Jun-18	4.5	7.02	-0.91
20	Jun-04	4.5	6.80	-1.29	45	May-19	4.5	7.70	0.26
21	Dec-04	4.5	6.40	-1.98	46	Jun-20	4.5	7.57	0.03
22	Jun-05	4.5	7.70	0.26	47	Jun-21	4.5	7.36	-0.33
23	Dec-05	4.5	5.50	-3.53	48	Jun-22	4.5	7.25	-0.52
24	Jun-06	4.5	7.46	-0.16	49	Jun-23	4.5	7.23	-0.55
25	Nov-06	4.5	7.59	0.07	50	Jun-24	4.5	7.39	-0.28
26	Jun-07	4.5	6.30	-2.15					
27	Nov-07	4.5	7.26	-0.50					
28	Jun-08	4.5	7.07	-0.83					
29	Nov-08	4.5	6.93	-1.07					
30	Jun-09	4.5	6.69	-1.48					
31	Nov-09	4.5	7.17	-0.65					
32	Jun-10	4.5	7.40	-0.26					
33	Nov-10	4.5	7.28	-0.47					
34	Jun-11	4.5	7.41	-0.24					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

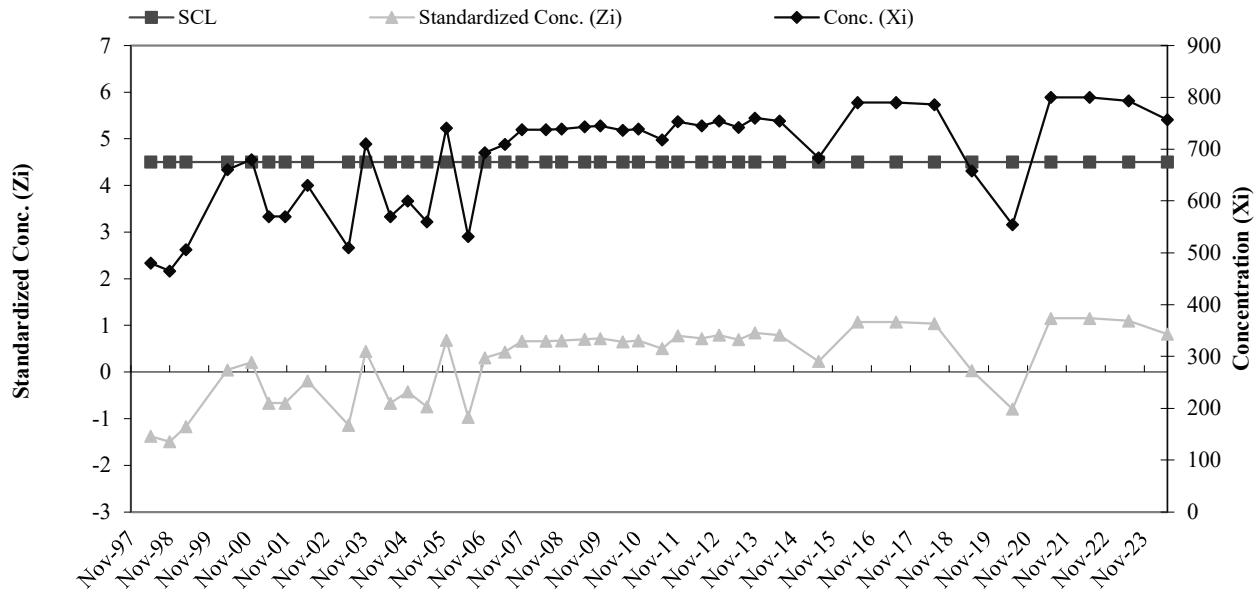


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-21d SpC

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	870	654.13	126.68
2	Aug-95	684		
3	Feb-96	646		
4	Jun-96	577		
5	Aug-96	576		
6	Nov-96	810		
7	May-97	530		
8	Nov-97	540		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	480	-1.37	35	Nov-11	4.5	753	0.78
10	Nov-98	4.5	465	-1.49	36	Jun-12	4.5	745	0.72
11	Apr-99	4.5	506	-1.17	37	Dec-12	4.5	754	0.79
12	Apr-00	4.5	660	0.05	38	Jun-13	4.5	742	0.69
13	Dec-00	4.5	680	0.20	39	Nov-13	4.5	760	0.84
14	May-01	4.5	570	-0.66	40	Jun-14	4.5	754	0.79
15	Oct-01	4.5	570	-0.66	41	Jun-15	4.5	683	0.23
16	May-02	4.5	630	-0.19	42	Jun-16	4.5	790	1.07
18	Jun-03	4.5	510	-1.14	43	Jun-17	4.5	790	1.07
19	Nov-03	4.5	710	0.44	44	Jun-18	4.5	786	1.04
20	Jun-04	4.5	570	-0.66	45	May-19	4.5	658	0.03
21	Dec-04	4.5	600	-0.43	46	Jun-20	4.5	554	-0.79
22	Jun-05	4.5	560	-0.74	47	Jun-21	4.5	800	1.15
23	Dec-05	4.5	741	0.69	48	Jun-22	4.5	800	1.15
24	Jun-06	4.5	531.3	-0.97	49	Jun-23	4.5	793	1.10
25	Nov-06	4.5	693	0.31	50	Jun-24	4.5	757	0.81
26	Jun-07	4.5	709	0.43					
27	Nov-07	4.5	738	0.66					
28	Jun-08	4.5	738	0.66					
29	Nov-08	4.5	739	0.67					
30	Jun-09	4.5	743	0.70					
31	Nov-09	4.5	745	0.72					
32	Jun-10	4.5	736	0.65					
33	Nov-10	4.5	739	0.67					
34	Jun-11	4.5	718	0.50					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

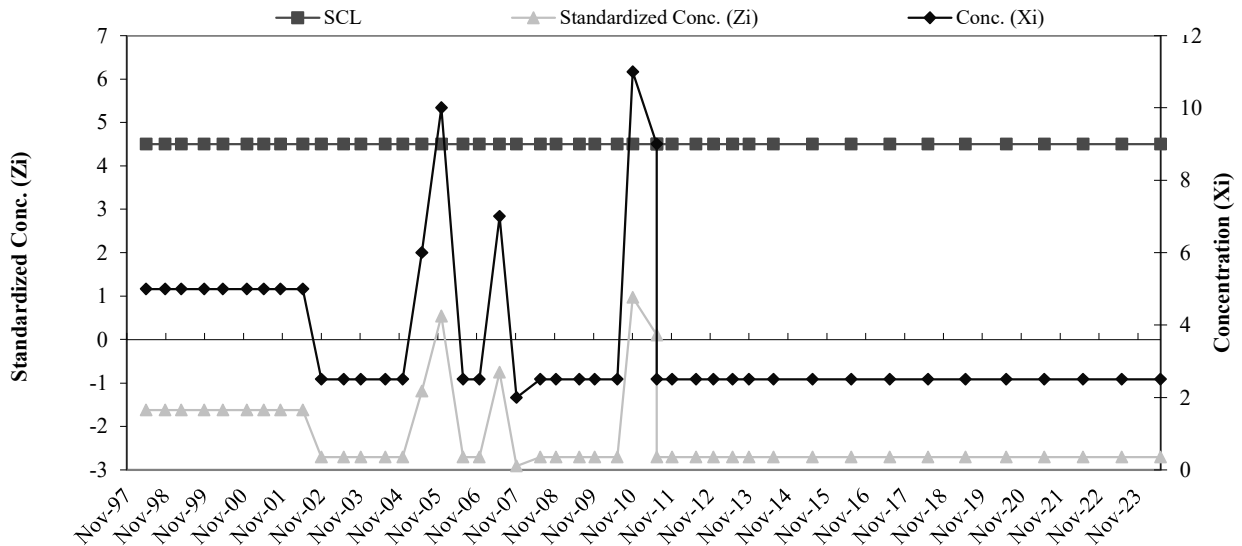


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-22D Cr

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	8.75	2.31
2	Aug-95	10		
3	Feb-96	10		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	May-97	5		
8	Nov-97	5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	5	-1.62	37	Nov-11	4.5	2.5	-2.70
10	Nov-98	4.5	5	-1.62	38	Jun-12	4.5	2.5	-2.70
11	Apr-99	4.5	5	-1.62	39	Dec-12	4.5	2.5	-2.70
12	Nov-99	4.5	5	-1.62	40	Jun-13	4.5	2.5	-2.70
13	Apr-00	4.5	5	-1.62	41	Nov-13	4.5	2.5	-2.70
14	Dec-00	4.5	5	-1.62	42	Jun-14	4.5	2.5	-2.70
15	May-01	4.5	5	-1.62	43	Jun-15	4.5	2.5	-2.70
16	Oct-01	4.5	5	-1.62	44	Jun-16	4.5	2.5	-2.70
17	May-02	4.5	5	-1.62	45	Jun-17	4.5	2.5	-2.70
18	Nov-02	4.5	2.5	-2.70	46	Jun-18	4.5	2.5	-2.70
19	Jun-03	4.5	2.5	-2.70	47	May-19	4.5	2.5	-2.70
20	Nov-03	4.5	2.5	-2.70	48	Jun-20	4.5	2.5	-2.70
21	Jun-04	4.5	2.5	-2.70	49	Jun-21	4.5	2.5	-2.70
22	Dec-04	4.5	2.5	-2.70	50	Jun-22	4.5	2.5	-2.70
23	Jun-05	4.5	6	-1.19	51	Jun-23	4.5	2.5	-2.70
24	Dec-05	4.5	10	0.54	52	Jun-24	4.5	2.5	-2.70
25	Jun-06	4.5	2.5	-2.70					
26	Nov-06	4.5	2.5	-2.70					
27	Jun-07	4.5	7	-0.76					
28	Nov-07	4.5	2	-2.92					
29	Jun-08	4.5	2.5	-2.70					
30	Nov-08	4.5	2.5	-2.70					
31	Jun-09	4.5	2.5	-2.70					
32	Nov-09	4.5	2.5	-2.70					
33	Jun-10	4.5	2.5	-2.70					
34	Nov-10	4.5	11	0.97					
35	Jun-11	4.5	9	0.11					
36	Jun-11	4.5	2.5	-2.70					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

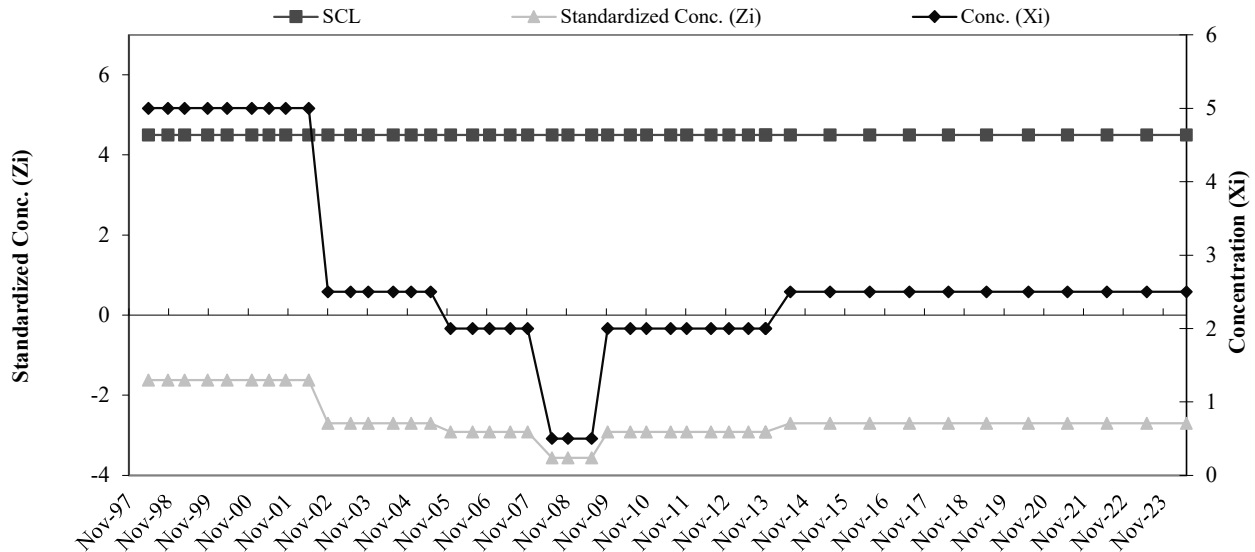


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-22D Cu

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	8.75	2.31
2	Aug-95	10		
3	Feb-96	10		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	May-97	5		
8	Nov-97	5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	5	-1.62	36	Nov-11	4.5	2	-2.92
10	Nov-98	4.5	5	-1.62	37	Jun-12	4.5	2	-2.92
11	Apr-99	4.5	5	-1.62	38	Dec-12	4.5	2	-2.92
12	Nov-99	4.5	5	-1.62	39	Jun-13	4.5	2	-2.92
13	Apr-00	4.5	5	-1.62	40	Nov-13	4.5	2	-2.92
14	Dec-00	4.5	5	-1.62	41	Nov-13	4.5	2	-2.92
15	May-01	4.5	5	-1.62	42	Jun-14	4.5	2.5	-2.70
16	Oct-01	4.5	5	-1.62	43	Jun-15	4.5	2.5	-2.70
17	May-02	4.5	5	-1.62	44	Jun-16	4.5	2.5	-2.70
18	Nov-02	4.5	2.5	-2.70	45	Jun-17	4.5	2.5	-2.70
19	Jun-03	4.5	2.5	-2.70	46	Jun-18	4.5	2.5	-2.70
20	Nov-03	4.5	2.5	-2.70	47	May-19	4.5	2.5	-2.70
21	Jun-04	4.5	2.5	-2.70	48	Jun-20	4.5	2.5	-2.70
22	Dec-04	4.5	2.5	-2.70	49	Jun-21	4.5	2.5	-2.70
23	Jun-05	4.5	2.5	-2.70	50	Jun-22	4.5	2.5	-2.70
24	Dec-05	4.5	2	-2.92	51	Jun-23	4.5	2.5	-2.70
25	Jun-06	4.5	2	-2.92	52	Jun-24	4.5	2.5	-2.70
26	Nov-06	4.5	2	-2.92					
27	Jun-07	4.5	2	-2.92					
28	Nov-07	4.5	2	-2.92					
29	Jun-08	4.5	0.5	-3.56					
30	Nov-08	4.5	0.5	-3.56					
31	Jun-09	4.5	0.5	-3.56					
32	Nov-09	4.5	2	-2.92					
33	Jun-10	4.5	2	-2.92					
34	Nov-10	4.5	2	-2.92					
35	Jun-11	4.5	2	-2.92					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

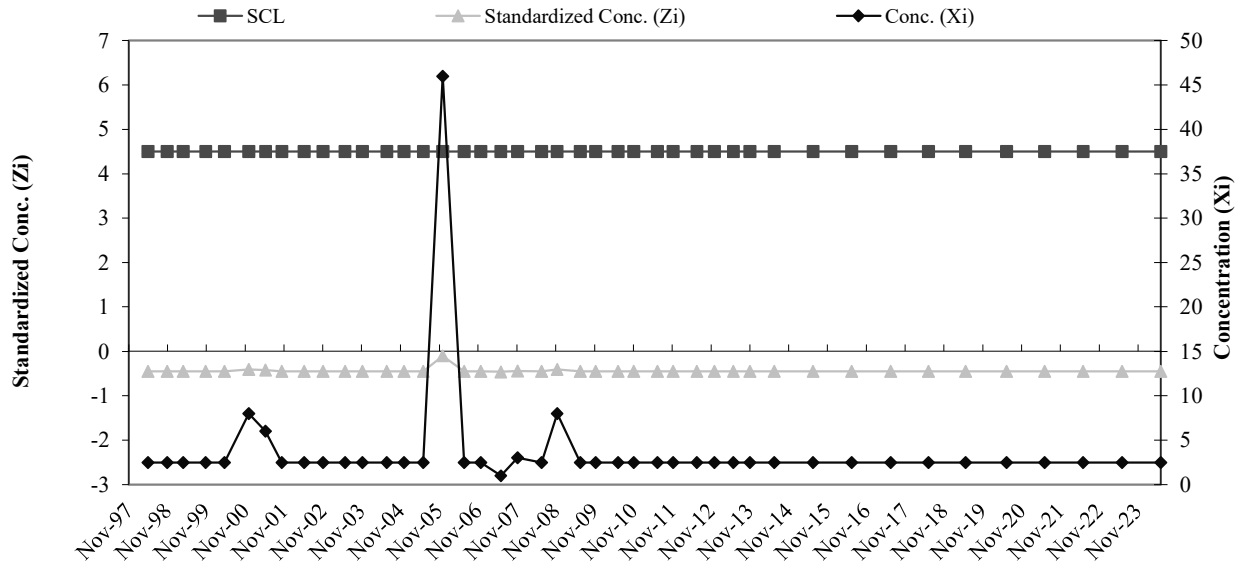


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-22D Ni

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	370	58.94	125.96
2	Aug-95	20		
3	Feb-96	20		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	May-97	2.5		
8	Nov-97	29		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	2.5	-0.45	36	Nov-11	4.5	2.5	-0.45
10	Nov-98	4.5	2.5	-0.45	37	Jun-12	4.5	2.5	-0.45
11	Apr-99	4.5	2.5	-0.45	38	Dec-12	4.5	2.5	-0.45
12	Nov-99	4.5	2.5	-0.45	39	Jun-13	4.5	2.5	-0.45
13	Apr-00	4.5	2.5	-0.45	40	Nov-13	4.5	2.5	-0.45
14	Dec-00	4.5	8	-0.40	41	Jun-14	4.5	2.5	-0.45
15	May-01	4.5	6	-0.42	42	Jun-15	4.5	2.5	-0.45
16	Oct-01	4.5	2.5	-0.45	43	Jun-16	4.5	2.5	-0.45
17	May-02	4.5	2.5	-0.45	44	Jun-17	4.5	2.5	-0.45
18	Nov-02	4.5	2.5	-0.45	45	Jun-18	4.5	2.5	-0.45
19	Jun-03	4.5	2.5	-0.45	46	May-19	4.5	2.5	-0.45
20	Nov-03	4.5	2.5	-0.45	47	Jun-20	4.5	2.5	-0.45
21	Jun-04	4.5	2.5	-0.45	48	Jun-21	4.5	2.5	-0.45
22	Dec-04	4.5	2.5	-0.45	49	Jun-22	4.5	2.5	-0.45
23	Jun-05	4.5	2.5	-0.45	50	Jun-23	4.5	2.5	-0.45
24	Dec-05	4.5	46	-0.10	51	Jun-24	4.5	2.5	-0.45
25	Jun-06	4.5	2.5	-0.45					
26	Nov-06	4.5	2.5	-0.45					
27	Jun-07	4.5	1	-0.46					
28	Nov-07	4.5	3	-0.44					
29	Jun-08	4.5	2.5	-0.45					
30	Nov-08	4.5	8	-0.40					
31	Jun-09	4.5	2.5	-0.45					
32	Nov-09	4.5	2.5	-0.45					
33	Jun-10	4.5	2.5	-0.45					
34	Nov-10	4.5	2.5	-0.45					
35	Jun-11	4.5	2.5	-0.45					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

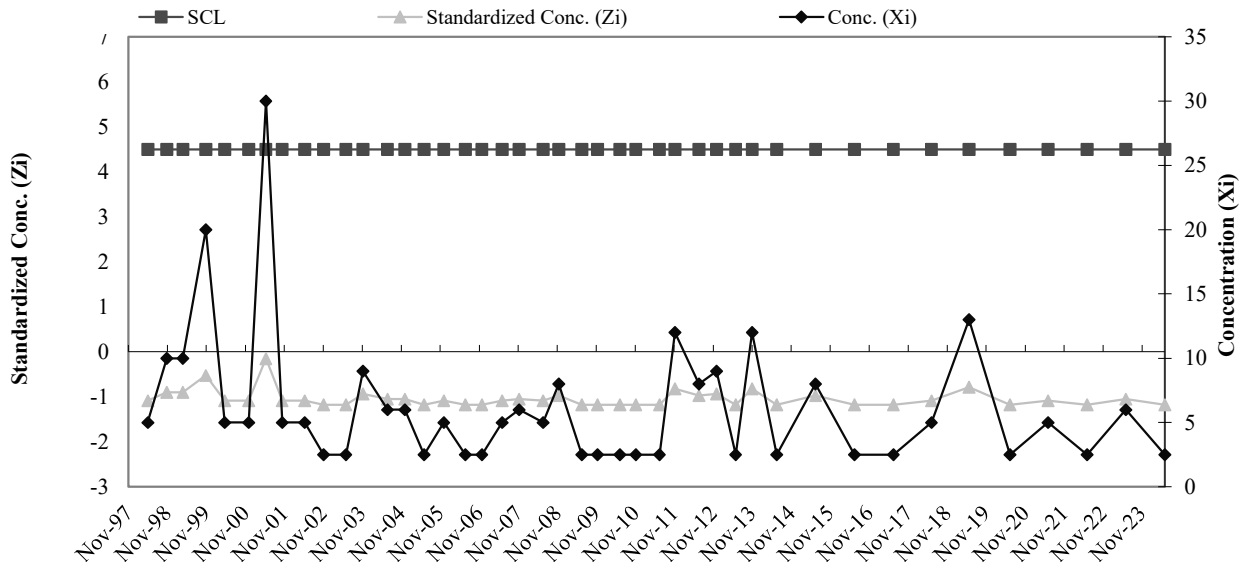


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-22D Zn

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	34.00	26.69
2	Aug-95	47		
3	Feb-96	80		
4	Jun-96	20		
5	Aug-96	50		
6	Nov-96	50		
7	May-97	5		
8	Nov-97	10		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	5	-1.09	36	Nov-11	4.5	12	-0.82
10	Nov-98	4.5	10	-0.90	37	Jun-12	4.5	8	-0.97
11	Apr-99	4.5	10	-0.90	38	Dec-12	4.5	9	-0.94
12	Nov-99	4.5	20	-0.52	39	Jun-13	4.5	2.5	-1.18
13	Apr-00	4.5	5	-1.09	40	Nov-13	4.5	12	-0.82
14	Dec-00	4.5	5	-1.09	41	Jun-14	4.5	2.5	-1.18
15	May-01	4.5	30	-0.15	42	Jun-15	4.5	8	-0.97
16	Oct-01	4.5	5	-1.09	43	Jun-16	4.5	2.5	-1.18
17	May-02	4.5	5	-1.09	44	Jun-17	4.5	2.5	-1.18
18	Nov-02	4.5	2.5	-1.18	45	Jun-18	4.5	5	-1.09
19	Jun-03	4.5	2.5	-1.18	46	May-19	4.5	13	-0.79
20	Nov-03	4.5	9	-0.94	47	Jun-20	4.5	2.5	-1.18
21	Jun-04	4.5	6	-1.05	48	Jun-21	4.5	5	-1.09
22	Dec-04	4.5	6	-1.05	49	Jun-22	4.5	2.5	-1.18
23	Jun-05	4.5	2.5	-1.18	50	Jun-23	4.5	6	-1.05
24	Dec-05	4.5	5	-1.09	51	Jun-24	4.5	2.5	-1.18
25	Jun-06	4.5	2.5	-1.18					
26	Nov-06	4.5	2.5	-1.18					
27	Jun-07	4.5	5	-1.09					
28	Nov-07	4.5	6	-1.05					
29	Jun-08	4.5	5	-1.09					
30	Nov-08	4.5	8	-0.97					
31	Jun-09	4.5	2.5	-1.18					
32	Nov-09	4.5	2.5	-1.18					
33	Jun-10	4.5	2.5	-1.18					
34	Nov-10	4.5	2.5	-1.18					
35	Jun-11	4.5	2.5	-1.18					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

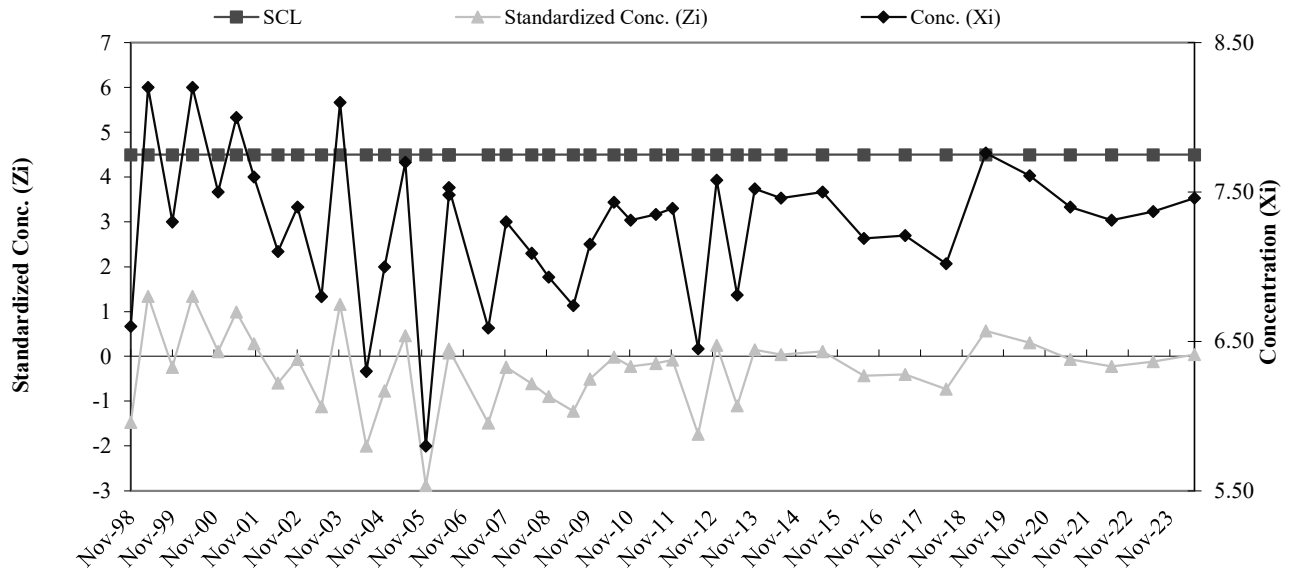


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-22D pH

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	7.70	7.44	0.57
2	Aug-95	8.30		
3	Jun-96	7.50		
4	Aug-96	8.10		
5	Nov-96	7.20		
6	May-97	6.70		
7	Nov-97	6.90		
8	May-98	7.10		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-98	4.5	6.60	-1.47	35	Nov-11	4.5	7.39	-0.08
10	Apr-99	4.5	8.20	1.34	36	Jun-12	4.5	6.45	-1.74
11	Nov-99	4.5	7.30	-0.24	37	Dec-12	4.5	7.58	0.25
12	Apr-00	4.5	8.20	1.34	38	Jun-13	4.5	6.81	-1.10
13	Dec-00	4.5	7.50	0.11	39	Nov-13	4.5	7.52	0.15
14	May-01	4.5	8.00	0.99	40	Jun-14	4.5	7.46	0.04
15	Oct-01	4.5	7.60	0.29	41	Jun-15	4.5	7.50	0.11
16	May-02	4.5	7.10	-0.59	42	Jun-16	4.5	7.19	-0.44
17	Nov-02	4.5	7.40	-0.07	43	Jun-17	4.5	7.21	-0.40
18	Jun-03	4.5	6.80	-1.12	44	Jun-18	4.5	7.02	-0.73
19	Nov-03	4.5	8.10	1.17	45	May-19	4.5	7.76	0.57
20	Jun-04	4.5	6.30	-2.00	46	Jun-20	4.5	7.61	0.30
21	Dec-04	4.5	7.00	-0.77	47	Jun-21	4.5	7.40	-0.07
22	Jun-05	4.5	7.70	0.46	48	Jun-22	4.5	7.31	-0.22
23	Dec-05	4.5	5.80	-2.88	49	Jun-23	4.5	7.37	-0.12
24	Jun-06	4.5	7.48	0.07	50	Jun-24	4.5	7.46	0.04
25	Jun-06	4.5	7.53	0.16					
26	Jun-07	4.5	6.59	-1.49					
27	Nov-07	4.5	7.30	-0.24					
28	Jun-08	4.5	7.09	-0.61					
29	Nov-08	4.5	6.93	-0.89					
30	Jun-09	4.5	6.74	-1.23					
31	Nov-09	4.5	7.15	-0.51					
32	Jun-10	4.5	7.43	-0.01					
33	Nov-10	4.5	7.31	-0.22					
34	Jun-11	4.5	7.35	-0.15					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

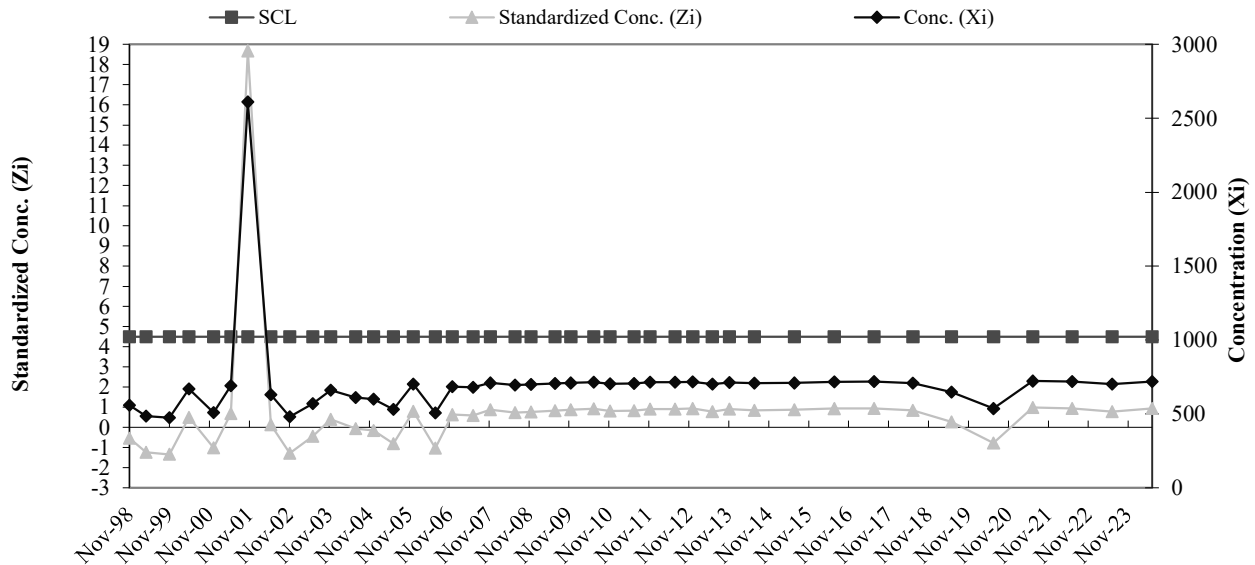


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-22D SpC

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	573	617.25	106.65
2	Aug-95	739		
3	Jun-96	600		
4	Aug-96	608		
5	Nov-96	817		
6	May-97	550		
7	Nov-97	550		
8	May-98	501		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-98	4.5	559	-0.55	35	Nov-11	4.5	714	0.91
10	Apr-99	4.5	485	-1.24	36	Jun-12	4.5	714	0.91
11	Nov-99	4.5	474	-1.34	37	Dec-12	4.5	716	0.93
12	Apr-00	4.5	670	0.49	38	Jun-13	4.5	701	0.79
13	Dec-00	4.5	510	-1.01	39	Nov-13	4.5	713	0.90
14	May-01	4.5	690	0.68	40	Jun-14	4.5	707	0.84
15	Oct-01	4.5	2610	18.68	41	Jun-15	4.5	710	0.87
16	May-02	4.5	630	0.12	42	Jun-16	4.5	716	0.93
17	Nov-02	4.5	480	-1.29	43	Jun-17	4.5	718	0.94
18	Jun-03	4.5	570	-0.44	44	Jun-18	4.5	707	0.84
19	Nov-03	4.5	660	0.40	45	May-19	4.5	647	0.28
20	Jun-04	4.5	610	-0.07	46	Jun-20	4.5	535	-0.77
21	Dec-04	4.5	600	-0.16	47	Jun-21	4.5	722	0.98
22	Jun-05	4.5	531	-0.81	48	Jun-22	4.5	718	0.94
23	Dec-05	4.5	702	0.79	49	Jun-23	4.5	701	0.79
24	Jun-06	4.5	507	-1.04	50	Jun-24	4.5	718	0.94
25	Nov-06	4.5	684	0.63					
26	Jun-07	4.5	680	0.59					
27	Nov-07	4.5	710	0.87					
28	Jun-08	4.5	694	0.72					
29	Nov-08	4.5	699	0.77					
30	Jun-09	4.5	705	0.82					
31	Nov-09	4.5	710	0.87					
32	Jun-10	4.5	715	0.92					
33	Nov-10	4.5	704	0.81					
34	Jun-11	4.5	705	0.82					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

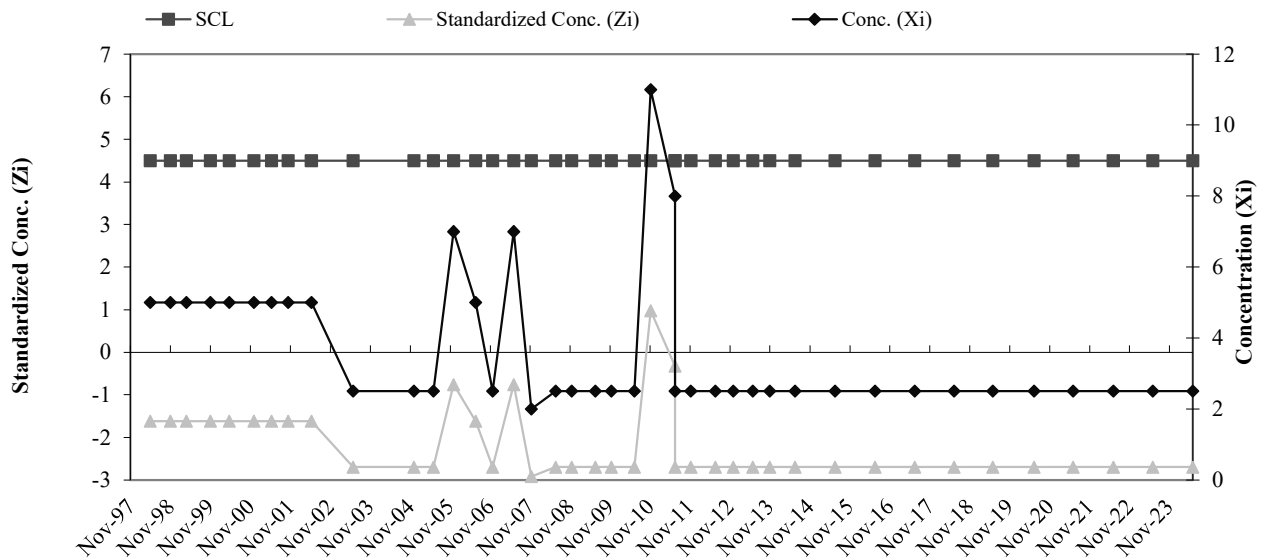


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-23d Cr

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	8.75	2.31
2	Aug-95	10		
3	Feb-96	10		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	May-97	5		
8	Nov-97	5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	5	-1.62	34	Nov-11	4.5	2.5	-2.70
10	Nov-98	4.5	5	-1.62	35	Jun-12	4.5	2.5	-2.70
11	Apr-99	4.5	5	-1.62	36	Dec-12	4.5	2.5	-2.70
12	Nov-99	4.5	5	-1.62	37	Jun-13	4.5	2.5	-2.70
13	Apr-00	4.5	5	-1.62	38	Nov-13	4.5	2.5	-2.70
14	Dec-00	4.5	5	-1.62	39	Jun-14	4.5	2.5	-2.70
15	May-01	4.5	5	-1.62	40	Jun-15	4.5	2.5	-2.70
16	Oct-01	4.5	5	-1.62	41	Jun-16	4.5	2.5	-2.70
17	May-02	4.5	5	-1.62	42	Jun-17	4.5	2.5	-2.70
18	Jun-03	4.5	2.5	-2.70	43	Jun-18	4.5	2.5	-2.70
19	Dec-04	4.5	2.5	-2.70	44	Jun-19	4.5	2.5	-2.70
20	Jun-05	4.5	2.5	-2.70	45	Jun-20	4.5	2.5	-2.70
21	Dec-05	4.5	7.0	-0.76	46	Jun-21	4.5	2.5	-2.70
22	Jun-06	4.5	5.0	-1.62	47	Jun-22	4.5	2.5	-2.70
23	Nov-06	4.5	2.5	-2.70	48	Jun-23	4.5	2.5	-2.70
24	Jun-07	4.5	7	-0.76	49	Jun-24	4.5	2.5	-2.70
25	Nov-07	4.5	2	-2.92					
26	Jun-08	4.5	2.5	-2.70					
27	Nov-08	4.5	2.5	-2.70					
28	Jun-09	4.5	2.5	-2.70					
29	Nov-09	4.5	2.5	-2.70					
30	Jun-10	4.5	2.5	-2.70					
31	Nov-10	4.5	11	0.97					
32	Jun-11	4.5	8	-0.32					
33	Jun-11	4.5	2.5	-2.70					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

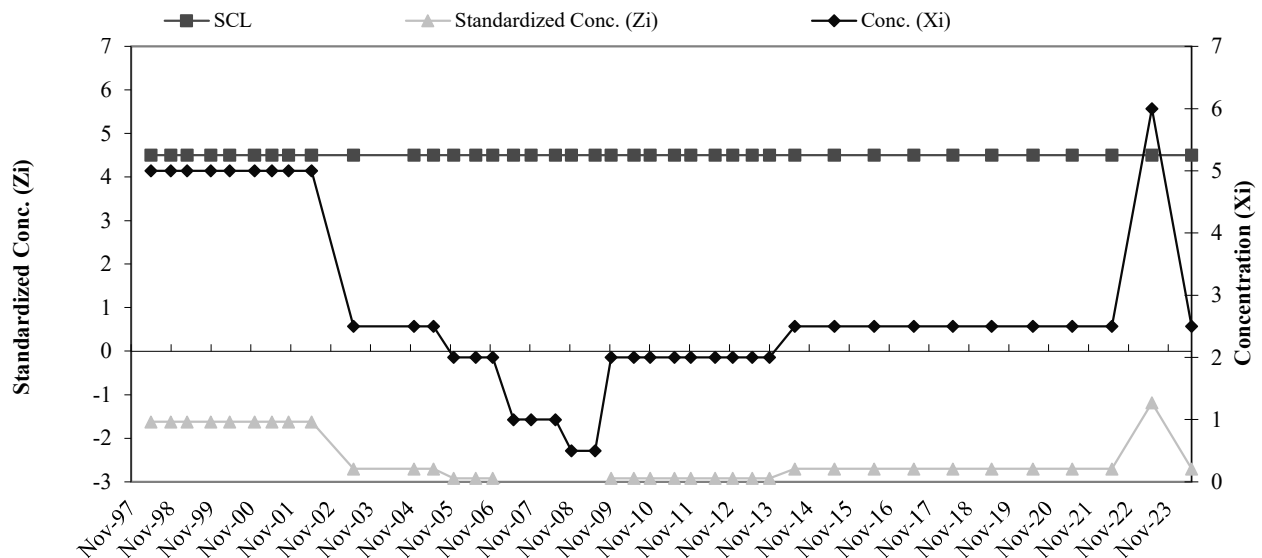


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-23d Cu

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	8.75	2.31
2	Aug-95	10		
3	Feb-96	10		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	May-97	5		
8	Nov-97	5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	5	-1.62	33	Nov-11	4.5	2	-2.92
10	Nov-98	4.5	5	-1.62	34	Jun-12	4.5	2	-2.92
11	Apr-99	4.5	5	-1.62	35	Dec-12	4.5	2	-2.92
12	Nov-99	4.5	5	-1.62	36	Jun-13	4.5	2	-2.92
13	Apr-00	4.5	5	-1.62	37	Nov-13	4.5	2	-2.92
14	Dec-00	4.5	5	-1.62	38	Jun-14	4.5	2.5	-2.70
15	May-01	4.5	5	-1.62	39	Jun-15	4.5	2.5	-2.70
16	Oct-01	4.5	5	-1.62	40	Jun-16	4.5	2.5	-2.70
17	May-02	4.5	5	-1.62	41	Jun-17	4.5	2.5	-2.70
18	Jun-03	4.5	2.5	-2.70	42	Jun-18	4.5	2.5	-2.70
19	Dec-04	4.5	2.5	-2.70	43	Jun-19	4.5	2.5	-2.70
20	Jun-05	4.5	2.5	-2.70	44	Jun-20	4.5	2.5	-2.70
21	Dec-05	4.5	2.0	-2.92	45	Jun-21	4.5	2.5	-2.70
22	Jun-06	4.5	2.0	-2.92	46	Jun-22	4.5	2.5	-2.70
23	Nov-06	4.5	2.0	-2.92	47	Jun-23	4.5	6	-1.19
24	Jun-07	4.5	1	-3.35	48	Jun-24	4.5	2.5	-2.70
25	Nov-07	4.5	1	-3.35					
26	Jun-08	4.5	1	-3.35					
27	Nov-08	4.5	0.5	-3.56					
28	Jun-09	4.5	0.5	-3.56					
29	Nov-09	4.5	2	-2.92					
30	Jun-10	4.5	2	-2.92					
31	Nov-10	4.5	2	-2.92					
32	Jun-11	4.5	2	-2.92					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

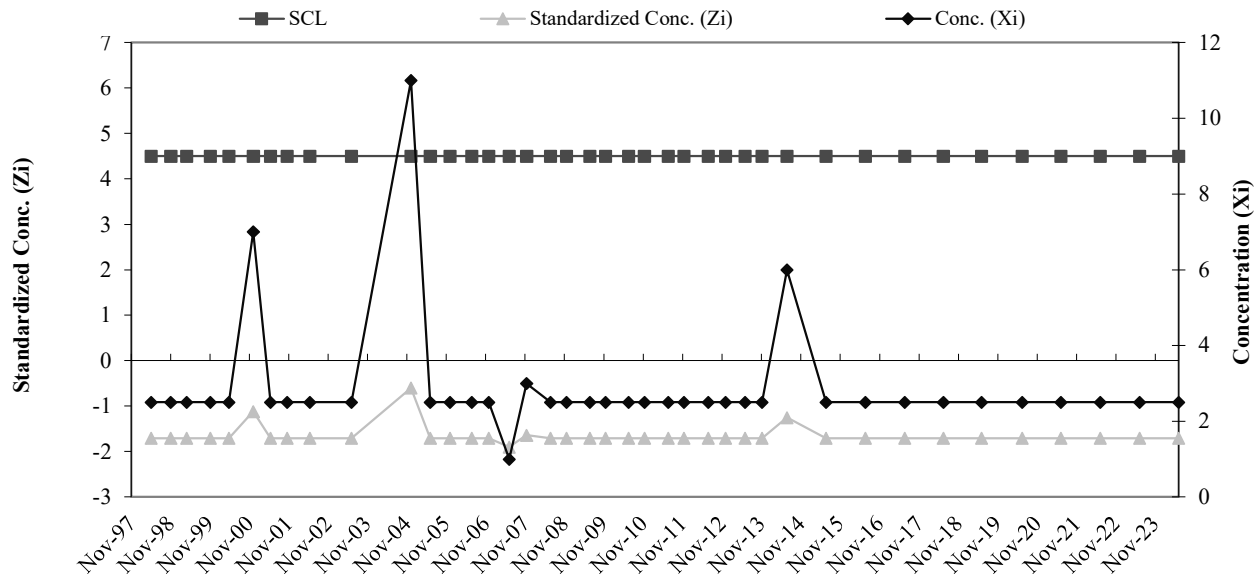


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-23d Ni

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	15	15.63	7.69
2	Aug-95	20		
3	Feb-96	20		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	May-97	9		
8	Nov-97	31		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	2.5	-1.71	33	Nov-11	4.5	2.5	-1.71
10	Nov-98	4.5	2.5	-1.71	34	Jun-12	4.5	2.5	-1.71
11	Apr-99	4.5	2.5	-1.71	35	Dec-12	4.5	2.5	-1.71
12	Nov-99	4.5	2.5	-1.71	36	Jun-13	4.5	2.5	-1.71
13	Apr-00	4.5	2.5	-1.71	37	Nov-13	4.5	2.5	-1.71
14	Dec-00	4.5	7.0	-1.12	38	Jun-14	4.5	6	-1.25
15	May-01	4.5	2.5	-1.71	39	Jun-15	4.5	2.5	-1.71
16	Oct-01	4.5	2.5	-1.71	40	Jun-16	4.5	2.5	-1.71
17	May-02	4.5	2.5	-1.71	41	Jun-17	4.5	2.5	-1.71
18	Jun-03	4.5	2.5	-1.71	42	Jun-18	4.5	2.5	-1.71
19	Dec-04	4.5	11.0	-0.60	43	Jun-19	4.5	2.5	-1.71
20	Jun-05	4.5	2.5	-1.71	44	Jun-20	4.5	2.5	-1.71
21	Dec-05	4.5	2.5	-1.71	45	Jun-21	4.5	2.5	-1.71
22	Jun-06	4.5	2.5	-1.71	46	Jun-22	4.5	2.5	-1.71
23	Nov-06	4.5	2.5	-1.71	47	Jun-23	4.5	2.5	-1.71
24	Jun-07	4.5	1	-1.90	48	Jun-24	4.5	2.5	-1.71
25	Nov-07	4.5	3	-1.64					
26	Jun-08	4.5	2.5	-1.71					
27	Nov-08	4.5	2.5	-1.71					
28	Jun-09	4.5	2.5	-1.71					
29	Nov-09	4.5	2.5	-1.71					
30	Jun-10	4.5	2.5	-1.71					
31	Nov-10	4.5	2.5	-1.71					
32	Jun-11	4.5	2.5	-1.71					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

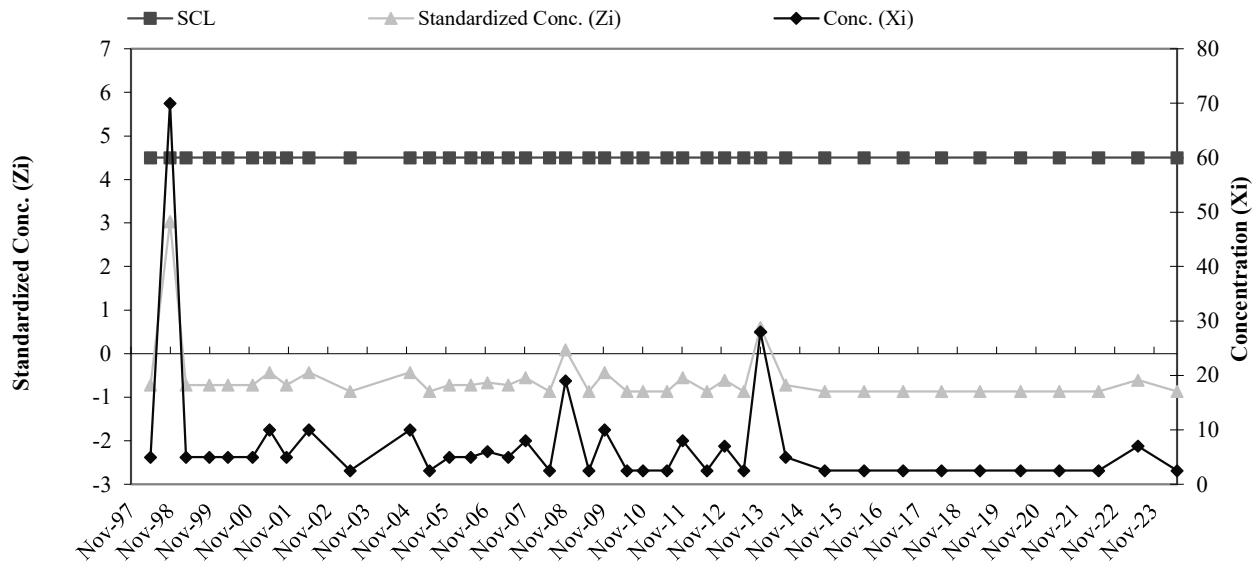


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-23d Zn

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	17.50	17.32
2	Aug-95	10		
3	Feb-96	10		
4	Jun-96	10		
5	Aug-96	50		
6	Nov-96	40		
7	May-97	5		
8	Nov-97	5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	5.0	-0.72	33	Nov-11	4.5	8	-0.55
10	Nov-98	4.5	70.0	3.03	34	Jun-12	4.5	2.5	-0.87
11	Apr-99	4.5	5.0	-0.72	35	Dec-12	4.5	7	-0.61
12	Nov-99	4.5	5.0	-0.72	36	Jun-13	4.5	2.5	-0.87
13	Apr-00	4.5	5.0	-0.72	37	Nov-13	4.5	28	0.61
14	Dec-00	4.5	5.0	-0.72	38	Jun-14	4.5	5	-0.72
15	May-01	4.5	10.0	-0.43	39	Jun-15	4.5	2.5	-0.87
16	Oct-01	4.5	5.0	-0.72	40	Jun-16	4.5	2.5	-0.87
17	May-02	4.5	10.0	-0.43	41	Jun-17	4.5	2.5	-0.87
18	Jun-03	4.5	2.5	-0.87	42	Jun-18	4.5	2.5	-0.87
19	Dec-04	4.5	10.0	-0.43	43	Jun-19	4.5	2.5	-0.87
20	Jun-05	4.5	2.5	-0.87	44	Jun-20	4.5	2.5	-0.87
21	Dec-05	4.5	5.0	-0.72	45	Jun-21	4.5	2.5	-0.87
22	Jun-06	4.5	5.0	-0.72	46	Jun-22	4.5	2.5	-0.87
23	Nov-06	4.5	6.0	-0.66	47	Jun-23	4.5	7	-0.61
24	Jun-07	4.5	5	-0.72	48	Jun-24	4.5	2.5	-0.87
25	Nov-07	4.5	8	-0.55					
26	Jun-08	4.5	2.5	-0.87					
27	Nov-08	4.5	19	0.09					
28	Jun-09	4.5	2.5	-0.87					
29	Nov-09	4.5	10	-0.43					
30	Jun-10	4.5	2.5	-0.87					
31	Nov-10	4.5	2.5	-0.87					
32	Jun-11	4.5	2.5	-0.87					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

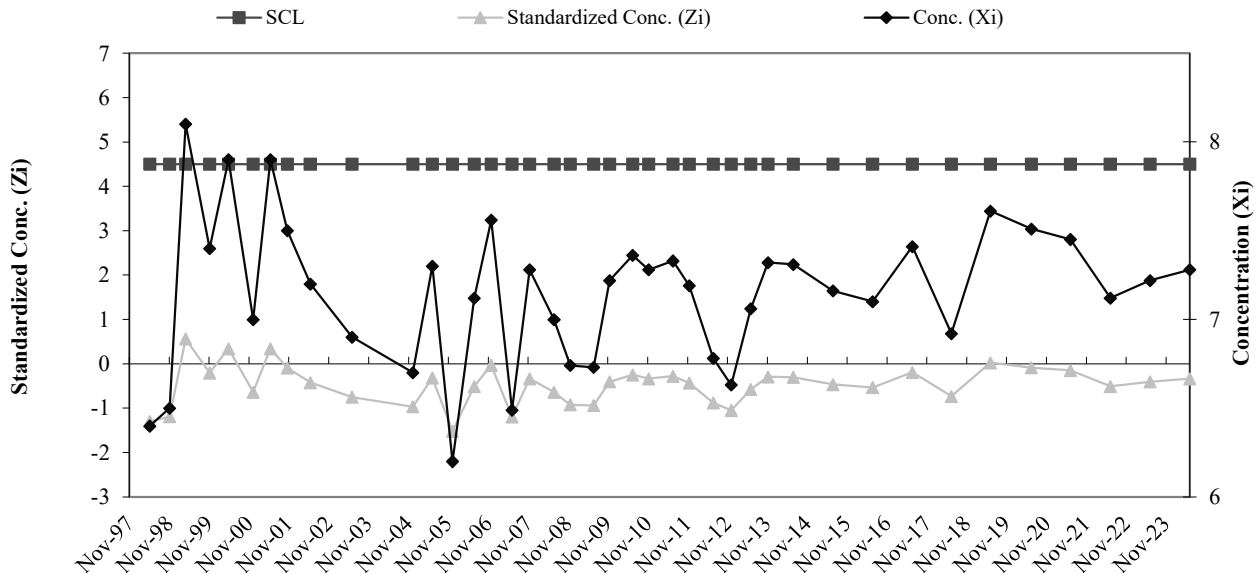


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-23d pH

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	7.30	7.59	0.91
2	Aug-95	8.20		
3	Feb-96	7.50		
4	Jun-96	8.30		
5	Aug-96	8.90		
6	Nov-96	7.70		
7	May-97	6.80		
8	Nov-97	6.00		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	6.40	-1.30	33	Nov-11	4.5	7.19	-0.43
10	Nov-98	4.5	6.50	-1.19	34	Jun-12	4.5	6.78	-0.88
11	Apr-99	4.5	8.10	0.56	35	Dec-12	4.5	6.63	-1.05
12	Nov-99	4.5	7.40	-0.21	36	Jun-13	4.5	7.06	-0.58
13	Apr-00	4.5	7.90	0.34	37	Nov-13	4.5	7.32	-0.29
14	Dec-00	4.5	7.00	-0.64	38	Jun-14	4.5	7.31	-0.30
15	May-01	4.5	7.90	0.34	39	Jun-15	4.5	7.16	-0.47
16	Oct-01	4.5	7.50	-0.10	40	Jun-16	4.5	7.10	-0.53
17	May-02	4.5	7.20	-0.42	41	Jun-17	4.5	7.41	-0.19
18	Jun-03	4.5	6.90	-0.75	42	Jun-18	4.5	6.92	-0.73
19	Dec-04	4.5	6.70	-0.97	43	Jun-19	4.5	7.61	0.02
20	Jun-05	4.5	7.30	-0.31	44	Jun-20	4.5	7.51	-0.08
21	Dec-05	4.5	6.20	-1.52	45	Jun-21	4.5	7.45	-0.15
22	Jun-06	4.5	7.12	-0.51	46	Jun-22	4.5	7.12	-0.51
23	Nov-06	4.5	7.56	-0.03	47	Jun-23	4.5	7.22	-0.40
24	Jun-07	4.5	6.49	-1.20	48	Jun-24	4.5	7.28	-0.34
25	Nov-07	4.5	7.28	-0.34					
26	Jun-08	4.5	7.00	-0.64					
27	Nov-08	4.5	6.74	-0.93					
28	Jun-09	4.5	6.73	-0.94					
29	Nov-09	4.5	7.22	-0.40					
30	Jun-10	4.5	7.36	-0.25					
31	Nov-10	4.5	7.28	-0.34					
32	Jun-11	4.5	7.33	-0.28					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

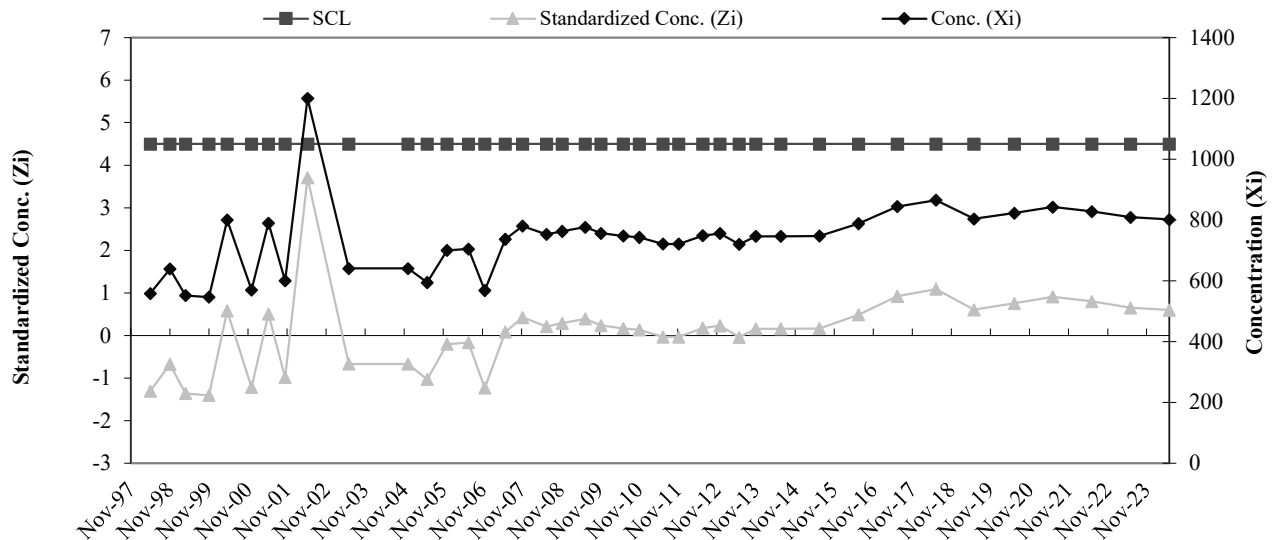


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-23d SpC

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	680	725.75	127.98
2	Aug-95	845		
3	Feb-96	751		
4	Jun-96	632		
5	Aug-96	691		
6	Nov-96	977		
7	May-97	610		
8	Nov-97	620		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	558	-1.31	33	Nov-11	4.5	721	-0.04
10	Nov-98	4.5	639	-0.68	34	Jun-12	4.5	748	0.17
11	Apr-99	4.5	552	-1.36	35	Dec-12	4.5	755	0.23
12	Nov-99	4.5	546	-1.40	36	Jun-13	4.5	720	-0.04
13	Apr-00	4.5	800	0.58	37	Nov-13	4.5	746	0.16
14	Dec-00	4.5	570	-1.22	38	Jun-14	4.5	746	0.16
15	May-01	4.5	790	0.50	39	Jun-15	4.5	747	0.17
16	Oct-01	4.5	600	-0.98	40	Jun-16	4.5	788	0.49
17	May-02	4.5	1200	3.71	41	Jun-17	4.5	844	0.92
18	Jun-03	4.5	640	-0.67	42	Jun-18	4.5	865	1.09
19	Dec-04	4.5	640	-0.67	43	Jun-19	4.5	803	0.60
20	Jun-05	4.5	594	-1.03	44	Jun-20	4.5	822	0.75
21	Dec-05	4.5	700	-0.20	45	Jun-21	4.5	842	0.91
22	Jun-06	4.5	705	-0.16	46	Jun-22	4.5	828	0.80
23	Nov-06	4.5	568	-1.23	47	Jun-23	4.5	809	0.65
24	Jun-07	4.5	736	0.08	48	Jun-24	4.5	802	0.60
25	Nov-07	4.5	780	0.42					
26	Jun-08	4.5	753	0.21					
27	Nov-08	4.5	763	0.29					
28	Jun-09	4.5	776	0.39					
29	Nov-09	4.5	756	0.24					
30	Jun-10	4.5	747	0.17					
31	Nov-10	4.5	743	0.13					
32	Jun-11	4.5	721	-0.04					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

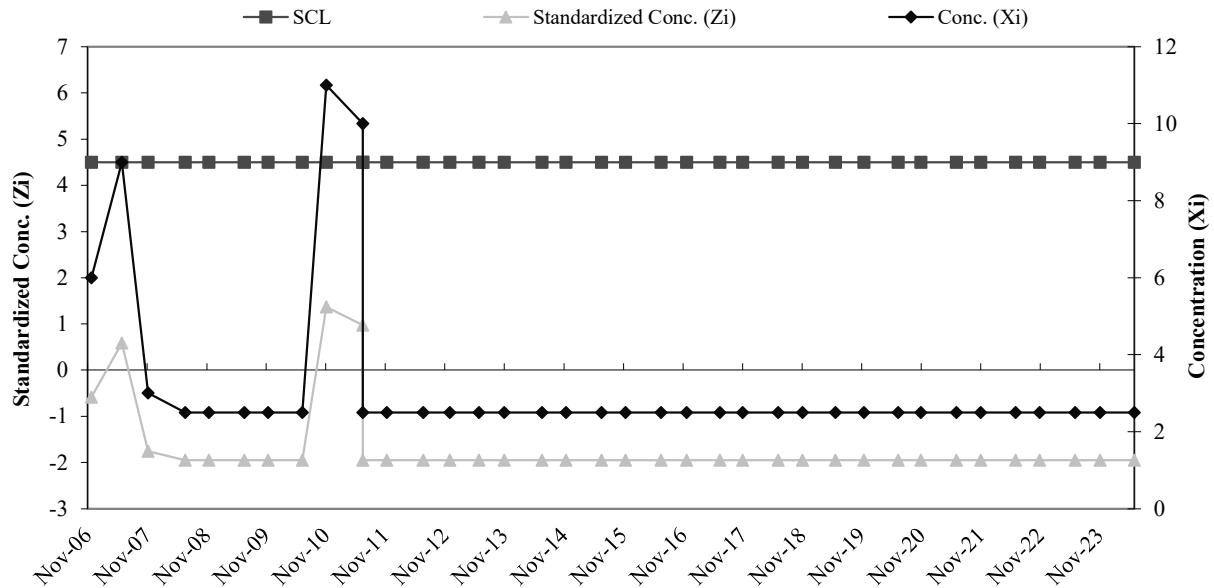


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-24 Cr

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Aug-96	10	7.50	2.56
2	Nov-96	10		
3	May-97	5		
4	May-98	5		
5	Nov-03	5		
6	Jun-05	8		
7	Dec-05	11		
8	Jun-06	6		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-06	4.5	6	-0.59	35	May-19	4.5	2.5	-1.95
10	Jun-07	4.5	9	0.59	36	Nov-19	4.5	2.5	-1.95
11	Nov-07	4.5	3	-1.76	37	Jun-20	4.5	2.5	-1.95
12	Jun-08	4.5	2.5	-1.95	38	Nov-20	4.5	2.5	-1.95
13	Nov-08	4.5	2.5	-1.95	39	Jun-21	4.5	2.5	-1.95
14	Jun-09	4.5	2.5	-1.95	40	Nov-21	4.5	2.5	-1.95
15	Nov-09	4.5	2.5	-1.95	41	Jun-22	4.5	2.5	-1.95
16	Jun-10	4.5	2.5	-1.95	42	Nov-22	4.5	2.5	-1.95
17	Nov-10	4.5	11	1.37	43	Jun-23	4.5	2.5	-1.95
18	Jun-11	4.5	10	0.98	44	Nov-23	4.5	2.5	-1.95
19	Jun-11	4.5	2.5	-1.95	45	Jun-24	4.5	2.5	-1.95
20	Nov-11	4.5	2.5	-1.95					
21	Jun-12	4.5	2.5	-1.95					
22	Dec-12	4.5	2.5	-1.95					
23	Jun-13	4.5	2.5	-1.95					
24	Nov-13	4.5	2.5	-1.95					
25	Jun-14	4.5	2.5	-1.95					
26	Nov-14	4.5	2.5	-1.95					
27	Jun-15	4.5	2.5	-1.95					
28	Nov-15	4.5	2.5	-1.95					
29	Jun-16	4.5	2.5	-1.95					
30	Nov-16	4.5	2.5	-1.95					
31	Jun-17	4.5	2.5	-1.95					
32	Nov-17	4.5	2.5	-1.95					
33	Jun-18	4.5	2.5	-1.95					
34	Nov-18	4.5	2.5	-1.95					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

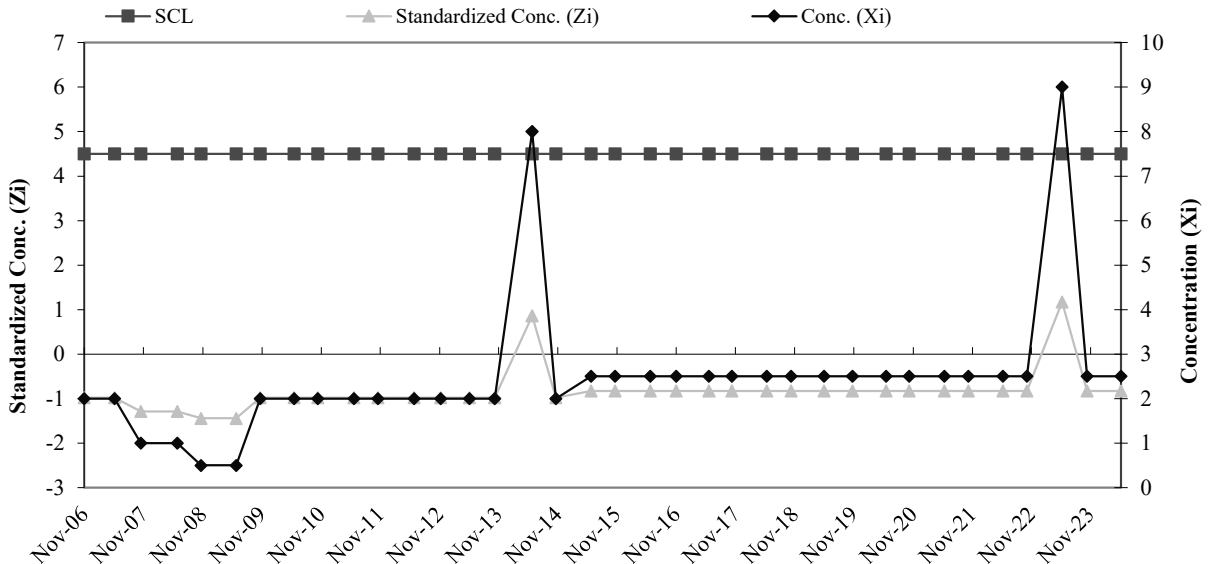


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-24 Cu

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Aug-96	10	5.19	3.25
2	Nov-96	10		
3	May-97	5		
4	May-98	5		
5	Nov-03	5		
6	Jun-05	2.5		
7	Dec-05	2		
8	Jun-06	2		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-06	4.5	2	-0.98	35	Nov-19	4.5	2.5	-0.83
10	Jun-07	4.5	2	-0.98	36	Jun-20	4.5	2.5	-0.83
11	Nov-07	4.5	1	-1.29	37	Nov-20	4.5	2.5	-0.83
12	Jun-08	4.5	1	-1.29	38	Jun-21	4.5	2.5	-0.83
13	Nov-08	4.5	0.5	-1.44	39	Nov-21	4.5	2.5	-0.83
14	Jun-09	4.5	0.5	-1.44	40	Jun-22	4.5	2.5	-0.83
15	Nov-09	4.5	2	-0.98	41	Nov-22	4.5	2.5	-0.83
16	Jun-10	4.5	2	-0.98	42	Jun-23	4.5	9	1.17
17	Nov-10	4.5	2	-0.98	43	Nov-23	4.5	2.5	-0.83
18	Jun-11	4.5	2	-0.98	44	Jun-24	4.5	2.5	-0.83
19	Nov-11	4.5	2	-0.98					
20	Jun-12	4.5	2	-0.98					
21	Dec-12	4.5	2	-0.98					
22	Jun-13	4.5	2	-0.98					
23	Nov-13	4.5	2	-0.98					
24	Jun-14	4.5	8	0.87					
25	Nov-14	4.5	2	-0.98					
26	Jun-15	4.5	2.5	-0.83					
27	Nov-15	4.5	2.5	-0.83					
28	Jun-16	4.5	2.5	-0.83					
29	Nov-16	4.5	2.5	-0.83					
30	Jun-17	4.5	2.5	-0.83					
31	Nov-17	4.5	2.5	-0.83					
32	Jun-18	4.5	2.5	-0.83					
33	Nov-18	4.5	2.5	-0.83					
34	May-19	4.5	2.5	-0.83					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

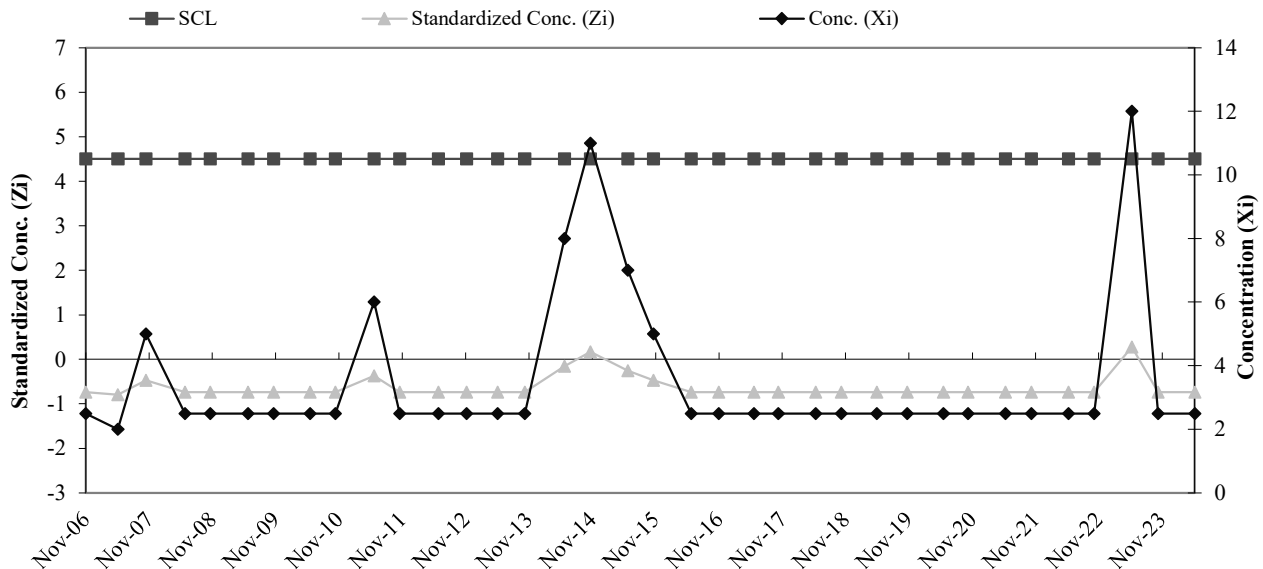


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-24 Ni

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Aug-96	10	9.44	9.35
2	Nov-96	10		
3	May-97	31		
4	May-98	8		
5	Nov-03	9		
6	Jun-05	2.5		
7	Dec-05	2.5		
8	Jun-06	2.5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-06	4.5	2.5	-0.74	35	Nov-19	4.5	2.5	-0.74
10	Jun-07	4.5	2	-0.80	36	Jun-20	4.5	2.5	-0.74
11	Nov-07	4.5	5	-0.47	37	Nov-20	4.5	2.5	-0.74
12	Jun-08	4.5	2.5	-0.74	38	Jun-21	4.5	2.5	-0.74
13	Nov-08	4.5	2.5	-0.74	39	Nov-21	4.5	2.5	-0.74
14	Jun-09	4.5	2.5	-0.74	40	Jun-22	4.5	2.5	-0.74
15	Nov-09	4.5	2.5	-0.74	41	Nov-22	4.5	2.5	-0.74
16	Jun-10	4.5	2.5	-0.74	42	Jun-23	4.5	12	0.27
17	Nov-10	4.5	2.5	-0.74	43	Nov-23	4.5	2.5	-0.74
18	Jun-11	4.5	6	-0.37	44	Jun-24	4.5	2.5	-0.74
19	Nov-11	4.5	2.5	-0.74					
20	Jun-12	4.5	2.5	-0.74					
21	Dec-12	4.5	2.5	-0.74					
22	Jun-13	4.5	2.5	-0.74					
23	Nov-13	4.5	2.5	-0.74					
24	Jun-14	4.5	8	-0.15					
25	Nov-14	4.5	11	0.17					
26	Jun-15	4.5	7	-0.26					
27	Nov-15	4.5	5	-0.47					
28	Jun-16	4.5	2.5	-0.74					
29	Nov-16	4.5	2.5	-0.74					
30	Jun-17	4.5	2.5	-0.74					
31	Nov-17	4.5	2.5	-0.74					
32	Jun-18	4.5	2.5	-0.74					
33	Nov-18	4.5	2.5	-0.74					
34	May-19	4.5	2.5	-0.74					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

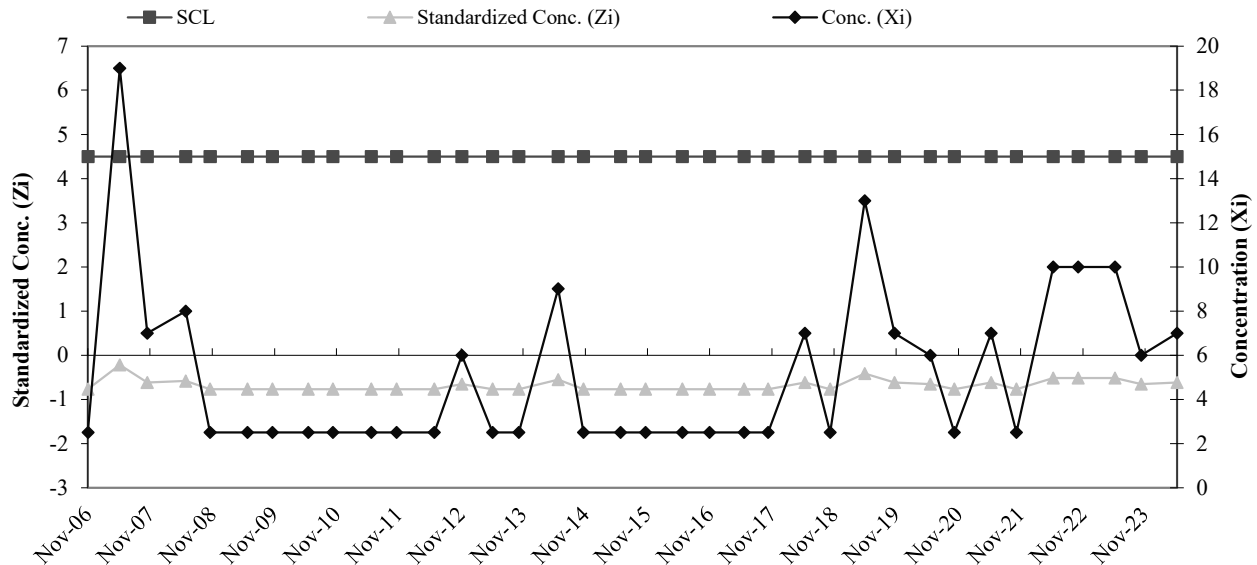


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-24 Zn

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Aug-96	90	25.63	30.14
2	Nov-96	50		
3	May-97	10		
4	May-98	20		
5	Nov-03	20		
6	Jun-05	2.5		
7	Dec-05	10		
8	Jun-06	2.5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-06	4.5	2.5	-0.77	35	Nov-19	4.5	7	-0.62
10	Jun-07	4.5	19	-0.22	36	Jun-20	4.5	6	-0.65
11	Nov-07	4.5	7	-0.62	37	Nov-20	4.5	2.5	-0.77
12	Jun-08	4.5	8	-0.58	38	Jun-21	4.5	7	-0.62
13	Nov-08	4.5	2.5	-0.77	39	Nov-21	4.5	2.5	-0.77
14	Jun-09	4.5	2.5	-0.77	40	Jun-22	4.5	10	-0.52
15	Nov-09	4.5	2.5	-0.77	41	Nov-22	4.5	10	-0.52
16	Jun-10	4.5	2.5	-0.77	42	Jun-23	4.5	10	-0.52
17	Nov-10	4.5	2.5	-0.77	43	Nov-23	4.5	6	-0.65
18	Jun-11	4.5	2.5	-0.77	44	Jun-24	4.5	7	-0.62
19	Nov-11	4.5	2.5	-0.77					
20	Jun-12	4.5	2.5	-0.77					
21	Dec-12	4.5	6	-0.65					
22	Jun-13	4.5	2.5	-0.77					
23	Nov-13	4.5	2.5	-0.77					
24	Jun-14	4.5	9	-0.55					
25	Nov-14	4.5	2.5	-0.77					
26	Jun-15	4.5	2.5	-0.77					
27	Nov-15	4.5	2.5	-0.77					
28	Jun-16	4.5	2.5	-0.77					
29	Nov-16	4.5	2.5	-0.77					
30	Jun-17	4.5	2.5	-0.77					
31	Nov-17	4.5	2.5	-0.77					
32	Jun-18	4.5	7	-0.62					
33	Nov-18	4.5	2.5	-0.77					
34	May-19	4.5	13	-0.42					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

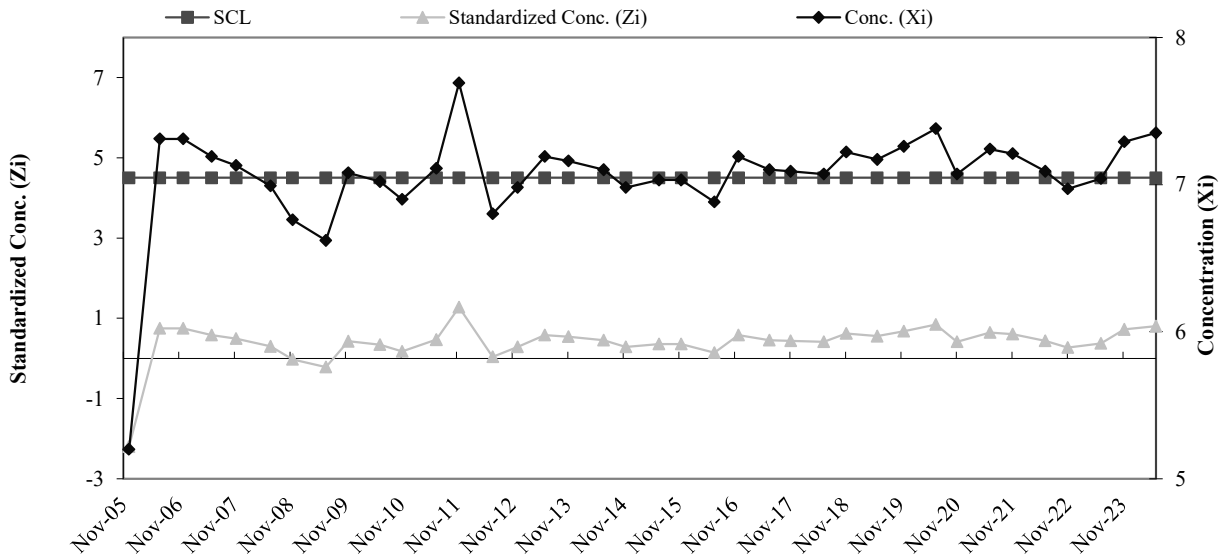


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-24 pH

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Aug-96	7.80	6.78	0.72
2	Nov-96	7.10		
3	May-97	6.40		
4	May-98	6.50		
5	Nov-98	5.50		
6	Nov-99	7.20		
7	May-01	6.40		
8	Jun-05	7.30		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Dec-05	4.5	5.20	-2.20	35	Nov-19	4.5	7.26	0.68
10	Jun-06	4.5	7.31	0.75	36	Jun-20	4.5	7.38	0.84
11	Nov-06	4.5	7.31	0.75	37	Nov-20	4.5	7.07	0.41
12	Jun-07	4.5	7.19	0.58	38	Jun-21	4.5	7.24	0.65
13	Nov-07	4.5	7.13	0.50	39	Nov-21	4.5	7.21	0.61
14	Jun-08	4.5	6.99	0.30	40	Jun-22	4.5	7.09	0.44
15	Nov-08	4.5	6.76	-0.02	41	Nov-22	4.5	6.97	0.27
14	Jun-09	4.5	6.62	-0.22	42	Jun-23	4.5	7.04	0.37
15	Nov-09	4.5	7.08	0.43	43	Nov-23	4.5	7.29	0.72
16	Jun-10	4.5	7.02	0.34	44	Jun-24	4.5	7.35	0.80
17	Nov-10	4.5	6.90	0.17					
18	Jun-11	4.5	7.11	0.47					
19	Nov-11	4.5	7.69	1.28					
20	Jun-12	4.5	6.80	0.03					
21	Dec-12	4.5	6.98	0.29					
22	Jun-13	4.5	7.19	0.58					
23	Nov-13	4.5	7.16	0.54					
24	Jun-14	4.5	7.10	0.45					
25	Nov-14	4.5	6.98	0.29					
26	Jun-15	4.5	7.03	0.36					
27	Nov-15	4.5	7.03	0.36					
28	Jun-16	4.5	6.88	0.15					
29	Nov-16	4.5	7.19	0.58					
30	Jun-17	4.5	7.10	0.45					
31	Nov-17	4.5	7.09	0.44					
32	Jun-18	4.5	7.07	0.41					
33	Nov-18	4.5	7.22	0.62					
34	May-19	4.5	7.17	0.55					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

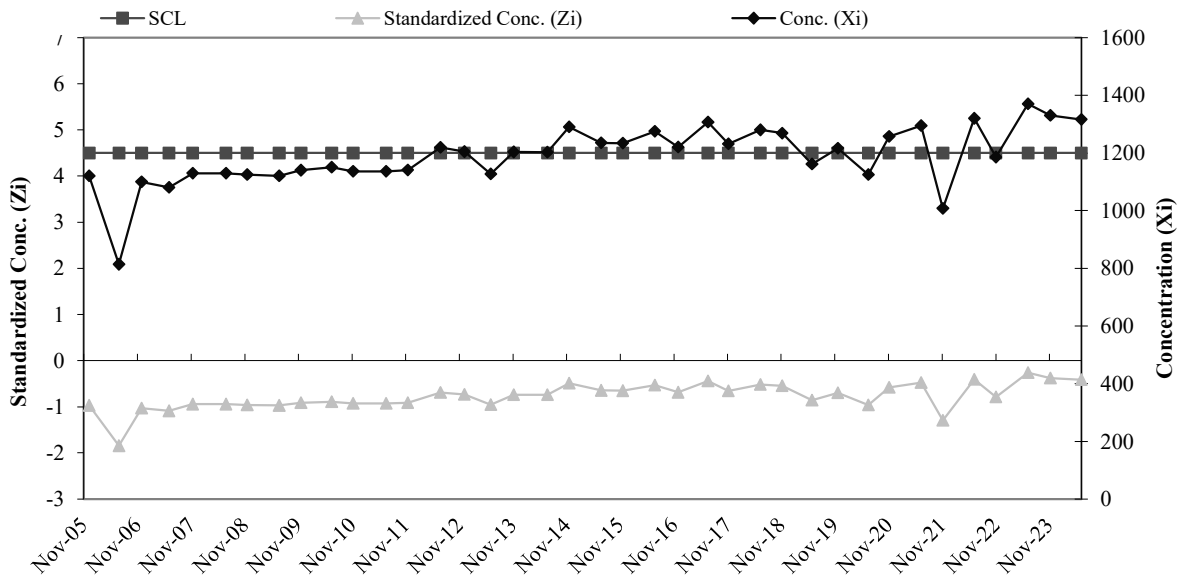


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-24 SpC

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Aug-96	1502	1,462.00	351.23
2	Nov-96	2030		
3	May-97	1700		
4	May-98	1410		
5	Nov-98	1595		
6	Nov-99	1152		
7	May-01	1450		
8	Jun-05	857		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Dec-05	4.5	1120	-0.97	37	Nov-19	4.5	1216	-0.70
10	Jun-06	4.5	814	-1.84	38	Jun-20	4.5	1125	-0.96
11	Nov-06	4.5	1100	-1.03	39	Nov-20	4.5	1257	-0.58
12	Jun-07	4.5	1080	-1.09	40	Jun-21	4.5	1295	-0.48
13	Nov-07	4.5	1130	-0.95	41	Nov-21	4.5	1008	-1.29
14	Jun-08	4.5	1130	-0.95	42	Jun-22	4.5	1320	-0.40
15	Nov-08	4.5	1125	-0.96	43	Nov-22	4.5	1186	-0.79
16	Jun-09	4.5	1120	-0.97	44	Jun-23	4.5	1370	-0.26
17	Nov-09	4.5	1140	-0.92	45	Nov-23	4.5	1330	-0.38
18	Jun-10	4.5	1150	-0.89	46	Jun-24	4.5	1316	-0.42
19	Nov-10	4.5	1136	-0.93					
20	Jun-11	4.5	1136	-0.93					
21	Nov-11	4.5	1141	-0.91					
22	Jun-12	4.5	1219	-0.69					
23	Dec-12	4.5	1204	-0.73					
24	Jun-13	4.5	1127	-0.95					
25	Nov-13	4.5	1203	-0.74					
26	Jun-14	4.5	1202	-0.74					
27	Nov-14	4.5	1290	-0.49					
28	Jun-15	4.5	1235	-0.65					
29	Nov-15	4.5	1234	-0.65					
30	Jun-16	4.5	1275	-0.53					
31	Nov-16	4.5	1220	-0.69					
32	Jun-17	4.5	1307	-0.44					
33	Nov-17	4.5	1231	-0.66					
34	Jun-18	4.5	1280	-0.52					
35	Nov-18	4.5	1269	-0.55					
36	May-19	4.5	1161	-0.86					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

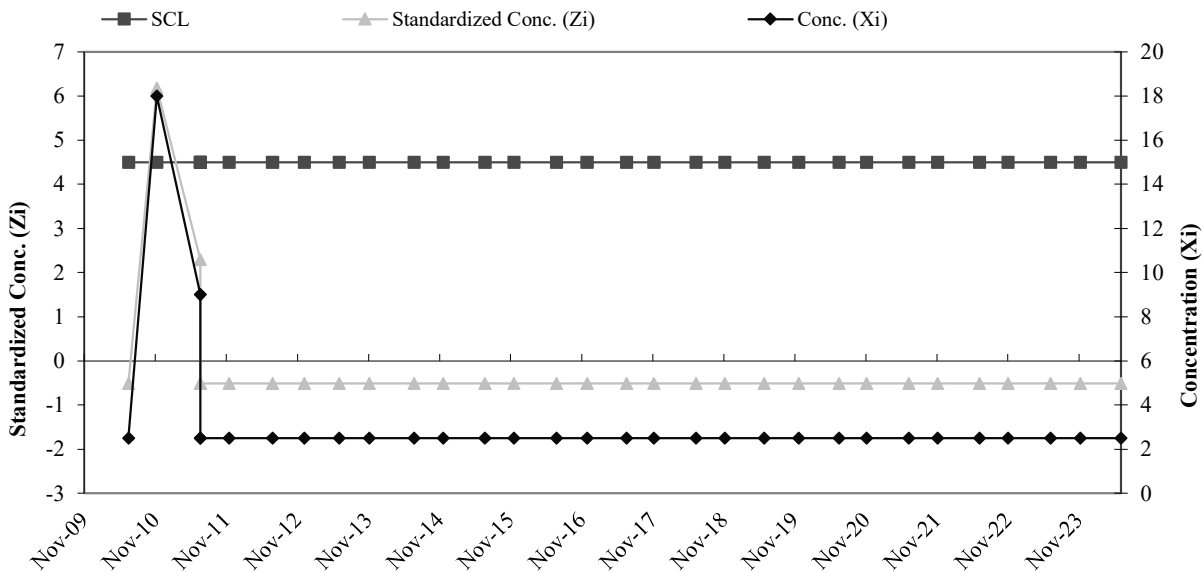


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-28 Cr

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-06	5	3.69	2.31
2	Dec-06	2.5		
3	Jun-07	9		
4	Nov-07	3		
5	Jun-08	2.5		
6	Nov-08	2.5		
7	Jun-09	2.5		
8	Nov-09	2.5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Jun-10	4.5	2.5	-0.51	34	Nov-21	4.5	2.5	-0.51
10	Nov-10	4.5	18	6.19	35	Jun-22	4.5	2.5	-0.51
11	Jun-11	4.5	9	2.30	36	Nov-22	4.5	2.5	-0.51
12	Jun-11	4.5	2.5	-0.51	37	Jun-23	4.5	2.5	-0.51
13	Jun-11	4.5	2.5	-0.51	38	Nov-23	4.5	2.5	-0.51
14	Nov-11	4.5	2.5	-0.51	39	Jun-24	4.5	2.5	-0.51
15	Jun-12	4.5	2.5	-0.51					
16	Dec-12	4.5	2.5	-0.51					
17	Jun-13	4.5	2.5	-0.51					
18	Nov-13	4.5	2.5	-0.51					
19	Jun-14	4.5	2.5	-0.51					
20	Nov-14	4.5	2.5	-0.51					
21	Jun-15	4.5	2.5	-0.51					
22	Nov-15	4.5	2.5	-0.51					
23	Jun-16	4.5	2.5	-0.51					
24	Nov-16	4.5	2.5	-0.51					
25	Jun-17	4.5	2.5	-0.51					
26	Nov-17	4.5	2.5	-0.51					
27	Jun-18	4.5	2.5	-0.51					
28	Nov-18	4.5	2.5	-0.51					
29	May-19	4.5	2.5	-0.51					
30	Nov-19	4.5	2.5	-0.51					
31	Jun-20	4.5	2.5	-0.51					
32	Nov-20	4.5	2.5	-0.51					
33	Jun-21	4.5	2.5	-0.51					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

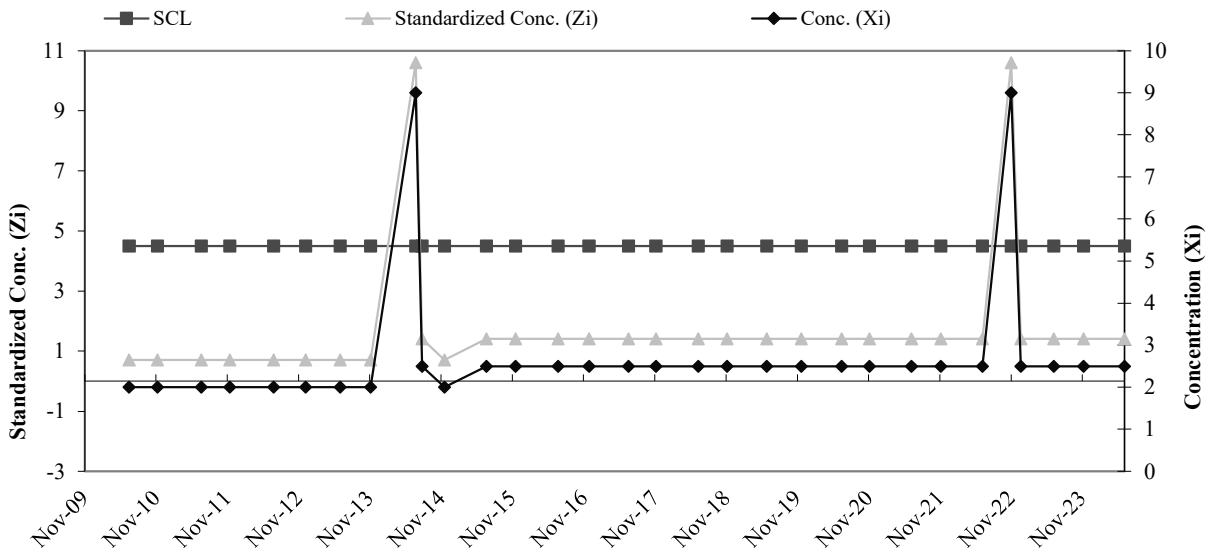


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-28 Cu

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-06	2	1.50	0.71
2	Dec-06	2		
3	Jun-07	2		
4	Nov-07	2		
5	Jun-08	1		
6	Nov-08	0.5		
7	Jun-09	0.5		
8	Nov-09	2		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Jun-10	4.5	2	0.71	33	Nov-21	4.5	2.5	1.41
10	Nov-10	4.5	2	0.71	34	Jun-22	4.5	2.5	1.41
11	Jun-11	4.5	2	0.71	35	Nov-22	4.5	9	10.61
12	Nov-11	4.5	2	0.71	36	Dec-22	4.5	2.5	1.41
13	Jun-12	4.5	2	0.71	37	Jun-23	4.5	2.5	1.41
14	Dec-12	4.5	2	0.71	38	Nov-23	4.5	2.5	1.41
15	Jun-13	4.5	2	0.71	39	Jun-24	4.5	2.5	1.41
16	Nov-13	4.5	2	0.71					
17	Jun-14	4.5	9	10.61					
18	Jul-14	4.5	2.5	1.41					
19	Nov-14	4.5	2	0.71					
20	Jun-15	4.5	2.5	1.41					
21	Nov-15	4.5	2.5	1.41					
22	Jun-16	4.5	2.5	1.41					
23	Nov-16	4.5	2.5	1.41					
24	Jun-17	4.5	2.5	1.41					
25	Nov-17	4.5	2.5	1.41					
26	Jun-18	4.5	2.5	1.41					
27	Nov-18	4.5	2.5	1.41					
28	May-19	4.5	2.5	1.41					
29	Nov-19	4.5	2.5	1.41					
30	Jun-20	4.5	2.5	1.41					
31	Nov-20	4.5	2.5	1.41					
32	Jun-21	4.5	2.5	1.41					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

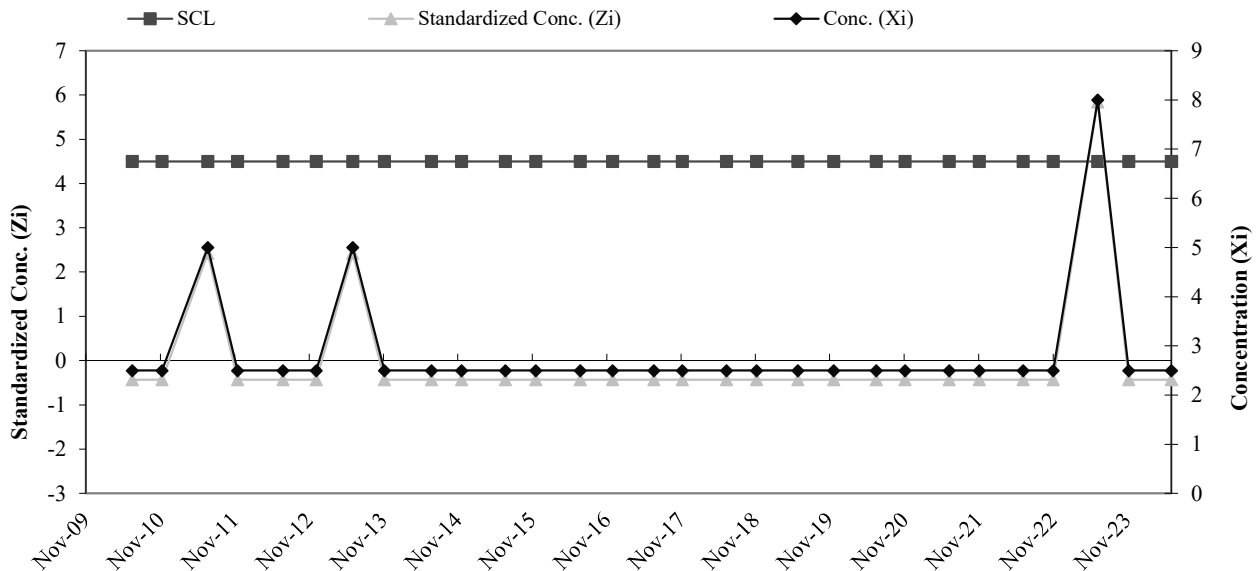


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-28 Ni

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-06	2.5	2.88	0.88
2	Dec-06	2.5		
3	Jun-07	3		
4	Nov-07	5		
5	Jun-08	2.5		
6	Nov-08	2.5		
7	Jun-09	2.5		
8	Nov-09	2.5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Jun-10	4.5	2.5	-0.43	32	Jun-22	4.5	2.5	-0.43
10	Nov-10	4.5	2.5	-0.43	33	Nov-22	4.5	2.5	-0.43
9	Jun-11	4.5	5	2.43	34	Jun-23	4.5	8	5.85
10	Nov-11	4.5	2.5	-0.43	35	Nov-23	4.5	2.5	-0.43
11	Jun-12	4.5	2.5	-0.43	36	Jun-24	4.5	2.5	-0.43
12	Dec-12	4.5	2.5	-0.43					
13	Jun-13	4.5	5	2.43					
14	Nov-13	4.5	2.5	-0.43					
15	Jun-14	4.5	2.5	-0.43					
16	Nov-14	4.5	2.5	-0.43					
17	Jun-15	4.5	2.5	-0.43					
18	Nov-15	4.5	2.5	-0.43					
19	Jun-16	4.5	2.5	-0.43					
20	Nov-16	4.5	2.5	-0.43					
21	Jun-17	4.5	2.5	-0.43					
22	Nov-17	4.5	2.5	-0.43					
23	Jun-18	4.5	2.5	-0.43					
24	Nov-18	4.5	2.5	-0.43					
25	May-19	4.5	2.5	-0.43					
26	Nov-19	4.5	2.5	-0.43					
27	Jun-20	4.5	2.5	-0.43					
28	Nov-20	4.5	2.5	-0.43					
29	Jun-21	4.5	2.5	-0.43					
30	Nov-21	4.5	2.5	-0.43					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

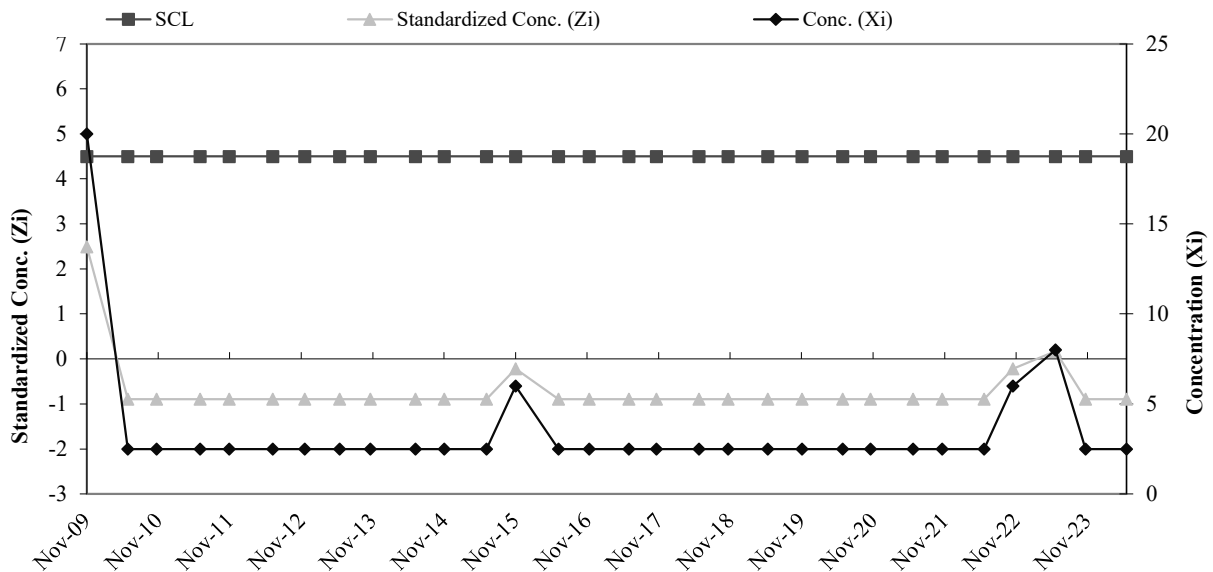


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-28 Zn

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Nov-05	7	7.13	5.16
2	Jun-06	18		
3	Dec-06	5		
4	Jun-07	6		
5	Nov-07	11		
6	Jun-08	5		
7	Nov-08	2.5		
8	Jun-09	2.5		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-09	4.5	20	2.50	34	Jun-22	4.5	2.5	-0.90
10	Jun-10	4.5	2.5	-0.90	35	Nov-22	4.5	6	-0.22
11	Nov-10	4.5	2.5	-0.90	36	Jun-23	4.5	8	0.17
12	Jun-11	4.5	2.5	-0.90	37	Nov-23	4.5	2.5	-0.90
13	Nov-11	4.5	2.5	-0.90	38	Jun-24	4.5	2.5	-0.90
14	Jun-12	4.5	2.5	-0.90					
15	Dec-12	4.5	2.5	-0.90					
16	Jun-13	4.5	2.5	-0.90					
17	Nov-13	4.5	2.5	-0.90					
18	Jun-14	4.5	2.5	-0.90					
19	Nov-14	4.5	2.5	-0.90					
20	Jun-15	4.5	2.5	-0.90					
21	Nov-15	4.5	6	-0.22					
22	Jun-16	4.5	2.5	-0.90					
23	Nov-16	4.5	2.5	-0.90					
24	Jun-17	4.5	2.5	-0.90					
25	Nov-17	4.5	2.5	-0.90					
26	Jun-18	4.5	2.5	-0.90					
27	Nov-18	4.5	2.5	-0.90					
28	May-19	4.5	2.5	-0.90					
29	Nov-19	4.5	2.5	-0.90					
30	Jun-20	4.5	2.5	-0.90					
31	Nov-20	4.5	2.5	-0.90					
32	Jun-21	4.5	2.5	-0.90					
33	Nov-21	4.5	2.5	-0.90					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

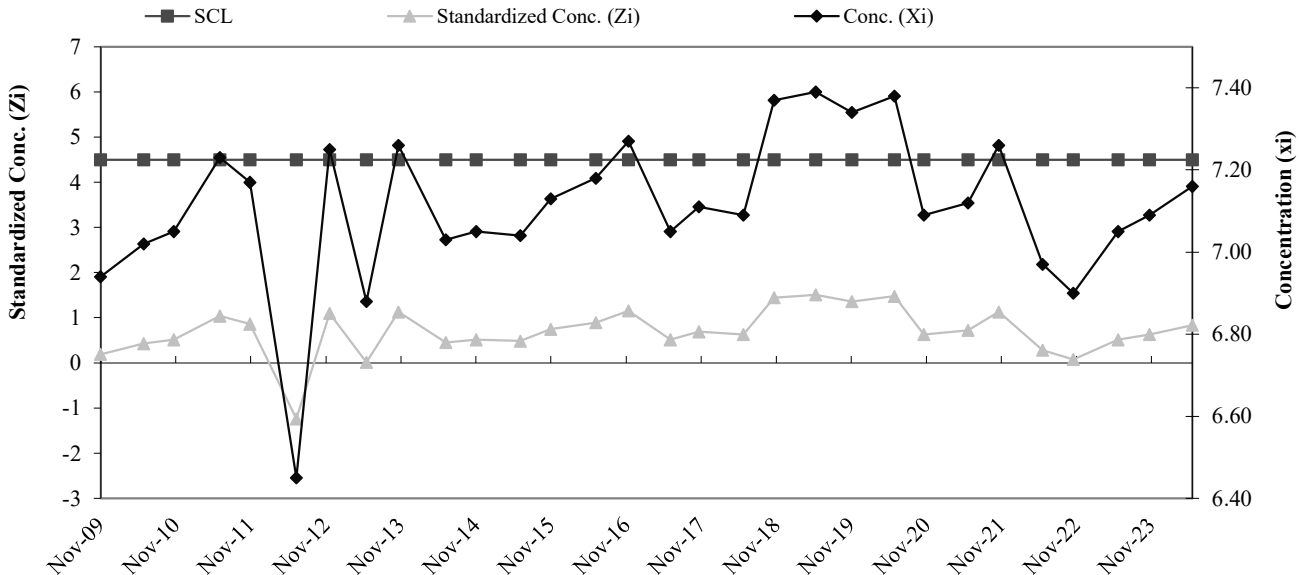


COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-28 pH

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Nov-05	6.21	6.87	0.34
2	Jun-06	7.12		
3	Dec-06	7.41		
4	Jun-07	6.84		
5	Nov-07	6.81		
6	Jun-08	6.87		
7	Nov-08	6.75		
8	Jun-09	6.98		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-09	4.5	6.94	0.19	33	Nov-21	4.5	7.26	1.13
10	Jun-10	4.5	7.02	0.43	34	Jun-22	4.5	6.97	0.28
11	Nov-10	4.5	7.05	0.51	35	Nov-22	4.5	6.90	0.08
12	Jun-11	4.5	7.23	1.04	36	Jun-23	4.5	7.05	0.51
13	Nov-11	4.5	7.17	0.87	37	Nov-23	4.5	7.09	0.63
14	Jun-12	4.5	6.45	-1.24	38	Jun-24	4.5	7.16	0.84
15	Dec-12	4.5	7.25	1.10					
16	Jun-13	4.5	6.88	0.02					
17	Nov-13	4.5	7.26	1.13					
18	Jun-14	4.5	7.03	0.46					
19	Nov-14	4.5	7.05	0.51					
20	Jun-15	4.5	7.04	0.49					
21	Nov-15	4.5	7.13	0.75					
22	Jun-16	4.5	7.18	0.89					
23	Nov-16	4.5	7.27	1.16					
24	Jun-17	4.5	7.05	0.51					
25	Nov-17	4.5	7.11	0.69					
26	Jun-18	4.5	7.09	0.63					
27	Nov-18	4.5	7.37	1.45					
28	May-19	4.5	7.39	1.51					
29	Nov-19	4.5	7.34	1.36					
30	Jun-20	4.5	7.38	1.48					
31	Nov-20	4.5	7.09	0.63					
32	Jun-21	4.5	7.12	0.72					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean



COLDWATER ROAD LANDFILL FACILITY
RCRA GROUND WATER DETECTION MONITORING SYSTEM
SHEWART CONTROL CHART
B-28 SpC

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Nov-05	994	845.13	61.71
2	Jun-06	828		
3	Dec-06	812		
4	Jun-07	845		
5	Nov-07	816		
6	Jun-08	840		
7	Nov-08	804		
8	Jun-09	822		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)	Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-09	4.5	814	-0.50	33	Nov-21	4.5	674	-2.77
10	Jun-10	4.5	841	-0.07	34	Jun-22	4.5	936	1.47
11	Nov-10	4.5	813	-0.52	35	Nov-22	4.5	936	1.47
12	Jun-11	4.5	837	-0.13	36	Jun-23	4.5	949	1.68
13	Nov-11	4.5	823	-0.36	37	Nov-23	4.5	946	1.63
14	Jun-12	4.5	849	0.06	38	Jun-24	4.5	938	1.51
15	Dec-12	4.5	823	-0.36					
16	Jun-13	4.5	834	-0.18					
17	Nov-13	4.5	842	-0.05					
18	Jun-14	4.5	852	0.11					
19	Nov-14	4.5	844	-0.02					
20	Jun-15	4.5	860	0.24					
21	Nov-15	4.5	849	0.06					
22	Jun-16	4.5	866	0.34					
23	Nov-16	4.5	853	0.13					
24	Jun-17	4.5	863	0.29					
25	Nov-17	4.5	859	0.22					
26	Jun-18	4.5	839	-0.10					
27	Nov-18	4.5	880	0.57					
28	May-19	4.5	803	-0.68					
29	Nov-19	4.5	833	-0.20					
30	Jun-20	4.5	862	0.27					
31	Nov-20	4.5	904	0.95					
32	Jun-21	4.5	936	1.47					

h = Decision Value for CUSUM, SCL = Shewart Control Limit, k = Standard Error Shift Detection Parameter, Zi = Standardized Mean

