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**Post-Closure Groundwater Monitoring Annual Report 2024**

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

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

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## CONTENTS

|           |                              |          |
|-----------|------------------------------|----------|
| <b>1.</b> | <b>INTRODUCTION</b>          | <b>1</b> |
| <b>2.</b> | <b>SAMPLING AND ANALYSIS</b> | <b>2</b> |
| <b>3.</b> | <b>SUMMARY</b>               | <b>4</b> |

## TABLES

|          |                               |
|----------|-------------------------------|
| Table 1: | Depth to Groundwater Levels   |
| Table 2: | Historical Analytical Results |

## FIGURES

|           |                                                     |
|-----------|-----------------------------------------------------|
| Figure 1: | Site Location Map                                   |
| Figure 2: | Site Layout                                         |
| Figure 3: | Perched Zone Groundwater Potentiometric Surface Map |
| Figure 4: | Drift Unit Groundwater Potentiometric Surface Map   |

## APPENDICES

|             |                                            |
|-------------|--------------------------------------------|
| Appendix A: | Sampling Procedures                        |
| Appendix B: | Groundwater Sampling Logs                  |
| Appendix C: | Analytical Laboratory Results              |
| Appendix E: | Groundwater Sampling Program QA/QC Summary |
| Appendix F: | Monitoring Well Control Charts             |

## 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 annual groundwater sampling event conducted in November 2024 in accordance with the recently updated and approved 2024 Post-Closure Care Plan (PCCP).

## 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). Samples were collected during the week of November 5, 2024.

The groundwater samples were analyzed for specific conductivity (Method 120.1), total organic carbon (TOC, Method 5310C), total organic halides (TOX, Method 9020B), and dissolved metals (chromium [Cr], copper [Cu], nickel [Ni], zinc [Zn], Method 200.8). The samples were sent to Merit Laboratories, Inc. (Merit) of East Lansing, Michigan for analysis. The TOC samples were subcontracted by Merit to Eurofins Environment Testing of Brighton, Michigan for analysis and the TOX samples were subcontracted to GEL Laboratories, LLC of Charleston, South Carolina.

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.

Samples to be analyzed for dissolved metals were field filtered. Groundwater sampling logs are included in **Appendix B**.

Well gauging was conducted on November 4, 2024, and sampling occurred between November 5, 2024 and November 6, 2024. The results are presented in two separate tables: **Table 1** - Depth to Groundwater Levels in Monitoring Wells and **Table 2** - Post-Closure Monitoring - Historical Analytical Results (Physical Parameters, TOC, TOX, and Metals). Laboratory analytical reports are included in **Appendix C**.

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. Therefore, the contours represent a general indication of flow direction over the area and not necessarily the precise flow direction within a discontinuous saturated zone. Monitoring wells B-19A and B-19AR were not used in developing the groundwater potentiometric surface due to the depth of these wells and vertical gradients between these wells which would cause anomalies in the contours in the area.

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 lower compared to the previous gauging event (June 2024), yet consistent with historical data.

The drift unit static water elevations were consistent with historical data and the previous gauging event (June 2024). 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. 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. 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-7 and B-9 to 9 µg/l in monitoring wells B-18A. 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).
- TOC concentrations ranged from 1.0 mg/l in monitoring well B-18A to 3.9 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-28 to 340 µg/l in monitoring well B-19AR. Two samples (B-18A and GW-DUP-20241105 [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, except B-19AR which was greater than the historical values, which ranged from below the reporting limit to 230 µg/l at B-7 (11/30/2016).
- pH concentrations ranged from 6.94 in monitoring well B-9 to 7.20 in monitoring wells B-24R. 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 942 µs/cm in monitoring well B-28 to 2,260 µs/cm in monitoring well B-9. The results were within the range of the historical results, which ranged from 405 µs/cm in monitoring well OBG MW-16D (11/5/1999) to 3,290 µs/cm in monitoring well B-9 (11/20/2008).

### 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 D**.

The relative percent difference (RPD) for the duplicate sample results for B-24R and GW-DUP-20241105 (B-24R) were within acceptable limits, except for TOX. The original TOX sample concentration was 4.12 µg/l and in the duplicate sample the concentration was 17 µg/l. Therefore, the sample results for TOX in B-24R and GW-DUP-20241105 (B-24R) should be considered as estimated (J).

The concentration of TOX at B-19AR was greater than historical values and seems to be an anomalous result. It does not appear that the elevated result was affected by volatile organic compounds (VOCs) or per- and polyfluoroalkyl substances (PFAS) concentrations in the well, as VOCs were not detected in the June 2024 sample and the last PFAS sample collected in June 2020 was non-detect, except for detections of 5.7 ng/l for 6:2 fluorotelomer sulfonic acid (6:2 FTSA) and 3.2 ng/l for perfluorooctane sulfonic acid (PFOS).

Due to the elevated result, well B-19AR will be resampled for TOX in March 2025, prior to the routine semiannual sampling event currently scheduled for June 2025. The TOX concentration will be reviewed to verify whether the concentration returns to a more normal level, and an update will be provided once the re-sample results have been received. We do not believe from the preliminary evaluation we have already conducted that this is an indication of a leak from the landfill.

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

There was a significant negative (decreasing) trend for specific conductivity in monitoring well B-24R during this monitoring event. The trend was calculated using regression analysis over the last four sampling events per the 2024 PCCP.

The trend does 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 trend will continue to be evaluated during future sampling events. No other trends or spikes were observed during this monitoring event.

The next sampling event (semiannual event) is currently scheduled for June 2025. 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  
Project Manager – Ramboll Americas Engineering Solutions, Inc.  
Agent for RACER Trust

Date: February 28, 2025

cc: file

## **TABLES**

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

November 4, 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                        | 17.71               | 795.96                      |
| B-9                                     | 807.37                        | 7.36                | 800.01                      |
| B-18A                                   | 810.99                        | 20.51               | 790.48                      |
| B-19A                                   | 812.66                        | 12.29               | 800.37                      |
| B-19AR                                  | 811.78                        | 38.67               | 773.11                      |
| B-20D                                   | 815.13                        | 70.08               | 745.05                      |
| B-21D                                   | 821.01                        | 80.15               | 740.86                      |
| B-22D                                   | 822.16                        | 84.06               | 738.10                      |
| B-23DR                                  | 812.09                        | 80.27               | 731.82                      |
| B-24R                                   | 816.09                        | 16.24               | 799.85                      |
| B-27D                                   | 812.62                        | 75.22               | 737.40                      |
| B-28                                    | 816.33                        | 7.25                | 809.08                      |
| OBG MW-16D                              | 807.42                        | 58.22               | 749.20                      |
| <i>former WWTP Monitoring Wells</i>     |                               |                     |                             |
| OBG MW-1                                | 811.56                        | 6.04                | 805.52                      |
| OBG MW-2                                | 813.77                        | 9.36                | 804.41                      |
| OBG MW-3                                | 810.09                        | 5.02                | 805.07                      |
| OBG MW-4                                | 812.66                        | 6.06                | 806.60                      |
| OBG MW-5                                | 816.04                        | 8.80                | 807.24                      |
| OBG MW-6                                | 815.75                        | 13.64               | 802.11                      |
| OBG MW-7                                | 813.47                        | 9.59                | 803.88                      |
| OBG MW-8                                | 817.50                        | 11.87               | 805.63                      |
| OBG MW-9                                | 809.97                        | 4.10                | 805.87                      |
| OBG MW-10                               | 811.54                        | 8.35                | --                          |
| <i>Additional Site Monitoring Wells</i> |                               |                     |                             |
| OBG MW-11                               | 801.94                        | 9.60                | 792.34                      |
| OBG MW-12D                              | 797.13                        | 47.70               | 749.43                      |
| OBG MW-12S                              | 796.88                        | 10.60               | 786.28                      |
| OBG MW-13                               | 801.81                        | 8.45                | 793.36                      |
| OBG MW-14                               | 810.98                        | 10.06               | 800.92                      |
| OBG MW-15D                              | 810.68                        | 70.76               | 739.92                      |
| OBG MW-17D                              | 800.09                        | 50.83               | 749.26                      |
| OBG MW-17S                              | 800.51                        | 13.45               | 787.06                      |
| OBG MW-18D                              | 800.17                        | 50.61               | 749.56                      |
| OBG MW-18S                              | 799.32                        | 15.45               | 783.87                      |
| OBG MW-19D                              | 795.37                        | 47.93               | 747.44                      |
| OBG MW-20                               | 783.93                        | 27.20               | 756.73                      |
| OBG MW-21                               | 797.49                        | 8.07                | 789.42                      |
| OBG MW-22                               | 794.11                        | 5.45                | 788.66                      |
| OBG MW-23 (D)                           | 776.76                        | 28.45               | 748.31                      |
| OBG MW-24                               | 781.50                        | 5.00                | 776.50                      |
| OBG MW-25R                              | 786.61                        | 8.34                | 778.27                      |
| OBG MW-26R                              | 772.38                        | 6.63                | 765.75                      |
| OBG MW-27R (D)                          | 772.46                        | 23.90               | 748.56                      |
| OBG MW-28                               | 800.35                        | 14.08               | 786.27                      |
| OBG MW-29 (D)                           | 773.28                        | 25.29               | 747.99                      |
| <i>Piezometers</i>                      |                               |                     |                             |
| PZ-3R                                   | 788.37                        | 8.79                | 779.58                      |
| <i>Peregrine Site Wells</i>             |                               |                     |                             |
| MW-19-13                                | 807.85                        | 2.54                | 805.31                      |
| MW-20-13                                | 810.81                        | 4.65                | 806.16                      |
| MW-15-10                                | 808.15                        | 76.00               | 732.15                      |
| MW-16-10                                | 798.64                        | 66.39               | 732.25                      |
| PFW-1                                   | 809.51                        | 77.14               | 732.37                      |

**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**  
**Landfill Leak Detection Vaults - Historical Analytical Results**  
**Inorganics and Metals**

| Indicator Parameters                             |             |            |            |      |       |      |     |     |     | Dissolved Metals (µg/L) |     |     |        | Inorganics (mg/L) |         |         |         |    |
|--------------------------------------------------|-------------|------------|------------|------|-------|------|-----|-----|-----|-------------------------|-----|-----|--------|-------------------|---------|---------|---------|----|
| Vault                                            | Sample Date | 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) .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 | --                | --      | --      | --      |    |
| Duplicate                                        | 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      |    |
| Replicate                                        | 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          | 25.3       | 7.31 | 1,090 | 10.3 | <5  | <4  | <5  | <5                      | --  | --  | --     | --                | --      | --      | --      |    |
|                                                  | 6/17/2010   | 5          | <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          | 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          | 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        | 3.3        | 7.00 | 1,070 | 20.0 | <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 | 13.0 | <5  | 6   | <5  | 11                      | --  | --  | --     | 34                | --      | --      | --      | -- |
|                                                  | 6/9/2023    | 4.4        | 18.0       | 7.04 | 965   | 15.2 | <5  | <5  | <5  | <5                      | <20 | 23  | 40,700 | 28                | <0.004  | <0.02   | 160.00  |    |
|                                                  | 11/8/2023   | 5.4        | 24.7       | 7.14 | 1,010 | 8.3  | <5  | <5  | <5  | <5                      | --  | --  | --     | --                | --      | --      | --      | -- |
|                                                  | 6/6/2024    | 4.3        | 11.5       | 7.07 | 1,015 | 16.2 | <5  | <5  | <5  | 7                       | 20  | <5  | 41,700 | 27.2              | <0.004  | <0.02   | 159     |    |
|                                                  | 11/4/2024   | 3.9        | 18.8       | 7.07 | 1,095 | 17.2 | <5  | <5  | <5  | <5                      | --  | --  | --     | --                | --      | --      | --      | -- |

See notes on page 6.

**TABLE 2**  
**RACER Trust - Coldwater Road**  
**Landfill Leak Detection Vaults - Historical Analytical Results**  
**Inorganics and Metals**

| Indicator Parameters                             |             |            |            |       |       |      |         |          |         | Dissolved Metals (µg/L) |       |        |        | Inorganics (mg/L) |         |         |         |       |
|--------------------------------------------------|-------------|------------|------------|-------|-------|------|---------|----------|---------|-------------------------|-------|--------|--------|-------------------|---------|---------|---------|-------|
| Vault                                            | Sample Date | 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) | ,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     | 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      | 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      | 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           | 84.1       | 6.71       | 3,030 | 12.7  | <5   | <4      | 16       | 8       | --                      | --    | --     | --     | --                | --      | --      | --      |       |
| 6/15/2010                                        | 3           | 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           | 37.5       | 6.37       | 2,910 | 12.9  | 19   | 4       | 7        | 15      | --                      | --    | --     | --     | --                | --      | --      | --      |       |
| Replicate                                        | 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           | 50         | 7.18       | 3,060 | 12.9  | <5   | <4      | 7        | <5      | --                      | --    | --     | --     | --                | --      | --      | --      |       |
| 6/26/2012                                        | 2           | 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       | <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       | <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      | <5                      | --    | --     | --     | --                | --      | --      | --      |       |
| 6/8/2022                                         | 7.0         | 7.40 J     | 6.74       | 1,830 | 14.3  | <5   | <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 | 15.0  | <5   | 15      | 6        | 14      | --                      | --    | --     | --     | 62                | --      | --      | --      |       |
| 6/9/2023                                         | 1.8         | 54.1       | 6.71       | 2,290 | 12.7  | <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 | 9.9   | <5   | <5      | 6        | <5      | --                      | --    | --     | --     | --                | --      | --      | --      |       |
| 6/6/2024                                         | 1.2         | 14.8       | 6.76       | 2,025 | 14.6  | <5   | <5      | <5       | <5      | <20                     | 56    | 55,300 | 54.6   | <0.004            | <0.02   | 709     |         |       |
| 11/6/2024                                        | 1.7         | 57.5       | 6.94       | 2,260 | 15.1  | <5   | <5      | <5       | <5      | <5                      | --    | --     | --     | --                | --      | --      | --      |       |

See notes on page 6.

**TABLE 2**  
**RACER Trust - Coldwater Road**  
**Landfill Leak Detection Vaults - Historical Analytical Results**  
**Inorganics and Metals**

| Vault      | 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) ,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  | --  | --     | --                | --       | --      | --      | --      |  |
|            | 12/8/2000   | 2.6                                                                             | <10        | 6.96  | 990   | 9.9  | <10 | <10                     | 15  | <10 | <10 | --     | 34,500            | 7        | <0.005  | <0.020  | 126     |  |
| Duplicate  | 12/8/2000   | 2.6                                                                             | <10        | --    | --    | --   | <10 | <10                     | 13  | <10 | 40  | --     | 35,100            | 7        | <0.005  | <0.020  | 112     |  |
| B-18A      | 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   | --  | --     | --                | --       | --      | --      | --      |  |
|            | 11/13/2003  | 1                                                                               | <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                                                                               | <30        | 6.19  | 960   | 10.5 | <5  | <5                      | 9   | 12  | 900 | 363    | 37,900            | 14       | <0.005  | <0.010  | 127     |  |
|            | 6/8/2005    | 2                                                                               | <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                                                                               | 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          | 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           | <30                                                                             | 6.89       | 1,070 | 11.7  | <5   | <4  | <5                      | 45  | --  | --  | --     | --                | --       | --      | --      |         |  |
| 6/17/2010  | 1           | <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           | 28                                                                              | 6.91       | 1,065 | 9.5   | 12   | <4  | <5                      | <5  | --  | --  | --     | --                | --       | --      | --      |         |  |
| 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           | 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  | <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     |         |  |
| 11/19/2014 | 1.4         | 16                                                                              | 7.10       | 1,073 | 6.27  | <5   | <4  | 5                       | 7   | --  | --  | --     | --                | --       | --      | --      |         |  |
| Duplicate  | 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                      | 10  | 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     |         |  |
| 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 | 13.7  | <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 | 13.4  | <5   | 43  | <5                      | 43  | --  | --  | --     | 21 L              | --       | --      | --      |         |  |
| Duplicate  | 11/2/2022   | 3.2                                                                             | 11.2       | 6.81  | 1,006 | 13.4 | <5  | 40                      | <5  | 45  | --  | --     | --                | 20       | --      | --      | --      |  |
| Re-sample  | 12/22/2022  | --                                                                              | --         | --    | --    | --   | --  | 34                      | --  | --  | --  | --     | --                | --       | --      | --      | --      |  |
| B-18A      | 6/9/2023    | 1.30                                                                            | 4.82 J     | 6.97  | 1,100 | 14.7 | <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 | 8.2  | <5  | <5                      | 5   | 13  | --  | --     | --                | --       | --      | --      | --      |  |
|            | 6/6/2024    | <1.0                                                                            | 8.64 J     | 7.09  | 1,028 | 27.3 | <5  | <5                      | <5  | 10  | 60  | 60     | 33,500            | 29       | <0.004  | <0.02   | 106     |  |
|            | 11/6/2024   | 1.0                                                                             | 4.06 J     | 7.01  | 1,054 | 12.9 | <5  | <5                      | <5  | 9   | --  | --     | --                | --       | --      | --      | --      |  |
|            |             |                                                                                 |            |       |       |      |     |                         |     |     |     |        |                   |          |         |         |         |  |

See notes on page 6.

**TABLE 2**  
**RACER Trust - Coldwater Road**  
**Landfill Leak Detection Vaults - Historical Analytical Results**  
**Inorganics and Metals**

| Indicator Parameters                                                            |             |            |            |       |       |      |     |     |    | Dissolved Metals (µg/L) |       |         |         | Inorganics (mg/L) |         |         |         |
|---------------------------------------------------------------------------------|-------------|------------|------------|-------|-------|------|-----|-----|----|-------------------------|-------|---------|---------|-------------------|---------|---------|---------|
| Vault                                                                           | Sample Date | 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) ,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  | <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     |
|                                                                                 | 12/8/2005   | 5.3        | <30        | 7.13  | 1,390 | 12.3 | 10  | <4  | <5 | <10                     | 150   | <20     | 74,800  | --                | --      | --      | --      |
| Duplicate Re-sample                                                             | 12/8/2005   | 5.5        | <30        | --    | 1,390 | --   | 10  | <4  | <5 | 20                      | 160   | <20     | 81,400  | --                | --      | --      | --      |
|                                                                                 | 2/14/2006   | --         | --         | 7.95  | 840   | 5.9  | <5  | --  | -- | --                      | --    | --      | --      | --                | --      | --      | --      |
| 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  | <5 | --                      | --    | --      | --      | --                | --      | --      |         |
| 6/7/2007                                                                        | 2           | <30        | 6.97       | 899   | 11.4  | 6    | 4   | 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           | <30        | 7.41       | 994   | 10.4  | <5   | <4  | <5  | 7  | --                      | --    | --      | --      | --                | --      | --      |         |
| 6/15/2010                                                                       | 2           | <30        | 7.57       | 992   | 16.1  | <5   | <4  | <5  | <5 | <20                     | <5    | 19,800  | 59      | <0.005            | <0.020  | 154     |         |
| 11/10/2010                                                                      | 2           | <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           | 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 | 15.2  | <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 | 13.8  | <5   | <5  | <5  | 20 | --                      | --    | --      | 88      | --                | --      | --      |         |
| Duplicate                                                                       | 6/12/2023   | 1.6        | 37.3       | 6.97  | 1,210 | 17.0 | <5  | 7   | <5 | 13                      | 360   | 11      | 19,100  | 93                | <0.004  | <0.02   | 156     |
|                                                                                 | 11/8/2023   | 1.6        | 7.40 J     | 7.22  | 1,230 | 11.1 | <5  | <5  | <5 | 5 J                     | --    | --      | --      | --                | --      | --      | --      |
| 6/6/2024                                                                        | 1.1         | 8.26 J     | 7.07       | 1,166 | 22.8  | 7    | 9   | <5  | 10 | 150                     | 44    | 20,900  | 99      | <0.004            | <0.02   | 140     |         |
|                                                                                 | 11/6/2024   | 1.3        | 340        | 7.12  | 1,194 | 13.2 | <5  | <5  | <5 | 6                       | --    | --      | --      | --                | --      | --      | --      |

See notes on page 6.

**TABLE 2**  
**RACER Trust - Coldwater Road**  
**Landfill Leak Detection Vaults - Historical Analytical Results**  
**Inorganics and Metals**

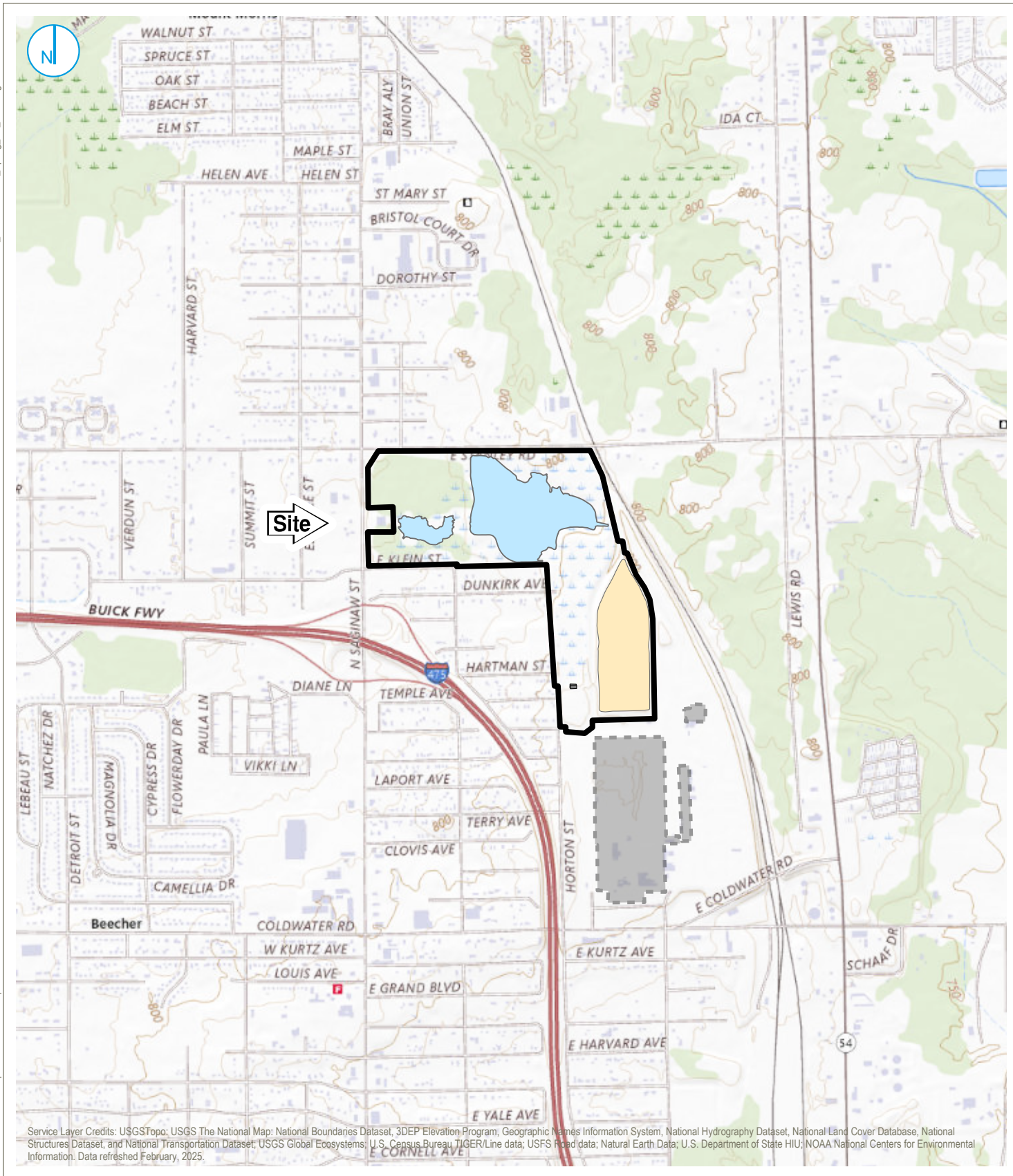
| Vault                                            | Sample Date    | Indicator Parameters |            |        |       |       | Dissolved Metals (µg/L) |     |     |    |        | Inorganics (mg/L) |        |          |         |         |         |     |
|--------------------------------------------------|----------------|----------------------|------------|--------|-------|-------|-------------------------|-----|-----|----|--------|-------------------|--------|----------|---------|---------|---------|-----|
|                                                  |                | 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) .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     | --       | --      | --      | --      |     |
|                                                  | 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                    | 86.4       | 7.08   | 1,140 | 12.9  | <5                      | <4  | <5  | <5 | --     | --                | --     | --       | --      | --      | --      |     |
|                                                  | 6/16/2010      | 4                    | 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                    | 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     |     |
|                                                  | 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     |     |
|                                                  | Duplicate      | 6/21/2011            | --         | --     | --    | --    | --                      | <5  | --  | -- | --     | --                | --     | --       | --      | --      | --      | --  |
|                                                  | Dup. Replicate | 6/21/2011            | --         | --     | --    | --    | --                      | <5  | --  | -- | --     | --                | --     | --       | --      | --      | --      | --  |
|                                                  |                | 11/16/2011           | 4          | 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          | 4.8    | 7.19  | 1,127 | 11.4                    | <5  | <4  | <5 | <5     | 110               | 130    | 38,600   | 45      | <0.005  | <0.02   | 227 |
|                                                  | Duplicate      | 11/5/2013            | 4          | 5.5    | 7.16  | 1,203 | 12.6                    | <5  | <4  | <5 | <5     | --                | --     | --       | --      | --      | --      | --  |
|                                                  |                | 11/5/2013            | 4          | <10    | 7.16  | 1,203 | 12.6                    | <5  | <4  | <5 | <5     | --                | --     | --       | --      | --      | --      | --  |
|                                                  | Duplicate      | 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 |
|                                                  |                | 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 |
|                                                  | Duplicate      | 11/18/2015           | 3.6        | 19     | 7.03  | 1,234 | 12.9                    | <5  | <5  | 5  | <5     | --                | --     | --       | --      | --      | --      | --  |
|                                                  |                | 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 |
|                                                  | Duplicate      | 11/5/2020            | 5.2        | 18.5   | 7.07  | 1,257 | 14.4                    | <5  | <5  | <5 | <5     | --                | --     | --       | --      | --      | --      | --  |
|                                                  |                | 11/5/2020            | 5.2        | 4.26   | 7.07  | 1,226 | 14.4                    | <5  | <5  | <5 | <5     | --                | --     | --       | --      | --      | --      | --  |
|                                                  | Duplicate      | 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 |
|                                                  |                | 11/5/2021            | 4.0        | 9.72 J | 7.21  | 1,008 | 11.9                    | <5  | <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 | 12.9                    | <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 | 13.8                    | <5  | <5  | <5 | 10     | --                | --     | --       | 46      | --      | --      | --  |
|                                                  |                | 6/8/2023             | 2.7        | 12.8   | 7.04  | 1,370 | 19.5                    | <5  | 9   | 12 | 10     | 30                | 20.00  | 67,800   | 51      | <0.004  | <0.02   | 287 |
|                                                  |                | 11/8/2023            | 3.2        | 11.1   | 7.29  | 1,330 | 7.9                     | <5  | <5  | <5 | 6      | --                | --     | --       | --      | --      | --      | --  |
|                                                  |                | 6/5/2024             | 2.7        | 3.54 J | 7.35  | 1,316 | 18.4                    | <5  | <5  | <5 | 7      | <20               | 58     | 67,400   | 48.5    | <0.004  | <0.02   | 294 |
|                                                  |                | 11/6/2024            | 2.7        | 4.12 J | 7.20  | 1,194 | 14.6                    | <5  | <5  | <5 | 6      | --                | --     | --       | --      | --      | --      | --  |
|                                                  | Duplicate      | 11/6/2024            | 2.9        | 17     | 7.20  | 1,303 | 14.6                    | <5  | <5  | <5 | 6      | --                | --     | --       | --      | --      | --      | --  |

See notes on page 6.

**TABLE 2**  
**RACER Trust - Coldwater Road**  
**Landfill Leak Detection Vaults - Historical Analytical Results**  
**Inorganics and Metals**

| Indicator Parameters                             |                 |            |            |      |       |      |         |          |         | Dissolved Metals (µg/L) |       |     |        | Inorganics (mg/L) |         |         |         |    |
|--------------------------------------------------|-----------------|------------|------------|------|-------|------|---------|----------|---------|-------------------------|-------|-----|--------|-------------------|---------|---------|---------|----|
| Vault                                            | Sample Date     | 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) | .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<br>B-28                                | 6/27/2006       | 3          | <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          | <30        | 6.94 | 814   | 11.6 | <5      | <4       | <5      | 20                      | --    | --  | --     | --                | --      | --      | --      |    |
|                                                  | 6/16/2010       | 2          | <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          | <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          | 160        | 7.17 | 823   | 12.5 | <5      | <4       | <5      | <5                      | --    | --  | --     | --                | --      | --      | --      |    |
| Duplicate                                        | 6/26/2012       | 2          | <40        | 6.45 | 849   | 13.0 | <5      | <4       | <5      | <5                      | 1,960 | 84  | 29,800 | 12                | <0.005  | <0.02   | 80      |    |
|                                                  | 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                      | --    | --  | --     | --                | --      | --      | --      |    |
|                                                  | 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      |    |
| Replicate                                        | 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                      | --    | --  | --     | --                | --      | --      | --      |    |
| Duplicate                                        | 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      |    |
|                                                  | 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                      | --    | --  | --     | --                | --      | --      | --      |    |
| Duplicate                                        | 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                      | --    | --  | --     | --                | --      | --      | --      |    |
| Duplicate                                        | 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                      | --    | --  | --     | --                | --      | --      | --      |    |
|                                                  | 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        | 42         | 7.34 | 833   | 12.2 | <5      | <5       | <5      | <5                      | --    | --  | --     | --                | --      | --      | --      |    |
|                                                  | 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     |    |
|                                                  | 11/5/2020       | 3.8        | <10        | 7.09 | 904   | 13.8 | <5      | <5       | <5      | <5                      | --    | --  | --     | --                | --      | --      | --      |    |
| Re-sample                                        | 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   | 11.1 | <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   | 15.2 | <5      | 9        | <5      | 6                       | --    | --  | --     | 11 L              | --      | --      | --      |    |
|                                                  | 12/21/2022      | --         | --         | --   | --    | --   | --      | <5       | --      | --                      | --    | --  | --     | --                | --      | --      | --      |    |
|                                                  | 6/8/2023        | 1.6        | <10        | 7.05 | 949   | 16.4 | <5      | <5       | 8       | 8                       | 30    | 85  | 19,300 | 11                | <0.004  | <0.02   | 172     |    |
|                                                  | 11/8/2023       | 1.6        | 13.4       | 7.13 | 946   | 12.5 | <5      | <5       | <5      | <5                      | --    | --  | --     | --                | --      | --      | --      |    |
|                                                  | 6/4/2024        | 1.1        | <10        | 7.16 | 938   | 11.8 | <5      | <5       | <5      | <5                      | 930   | 85  | 18,400 | 11.3              | <0.004  | <0.02   | 169     |    |
|                                                  | 11/5/2024       | 1.3        | <10        | 7.05 | 942   | 13.4 | <5      | <5       | <5      | 6                       | --    | --  | --     | --                | --      | --      | --      |    |
|                                                  | 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                      | --    | --  | --     | --                | --      | --      | --      |    |
| 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  | 6350   | <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                      | <5    | --  | --     | --                | --      | --      | --      | -- |
| 6/14/2018                                        |                 | 1.2        | <60        | --   | 28.8  | --   | <5      | <5       | <5      | <5                      | <20   | <5  | <250   | <2.5              | <0.005  | <0.02   | <2.5    |    |
| 11/7/2018                                        |                 | 39.3       | <150       | --   | 5.40  | --   | <5      | <5       | <5      | <5                      |       |     |        |                   |         |         |         |    |

## **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. Data refreshed February, 2025.

Map Scale: 1:24,000 | Map Center: 83°41'17"W 43°6'2"N



KEY MAP (not to scale)

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

0 1,000 2,000 Feet

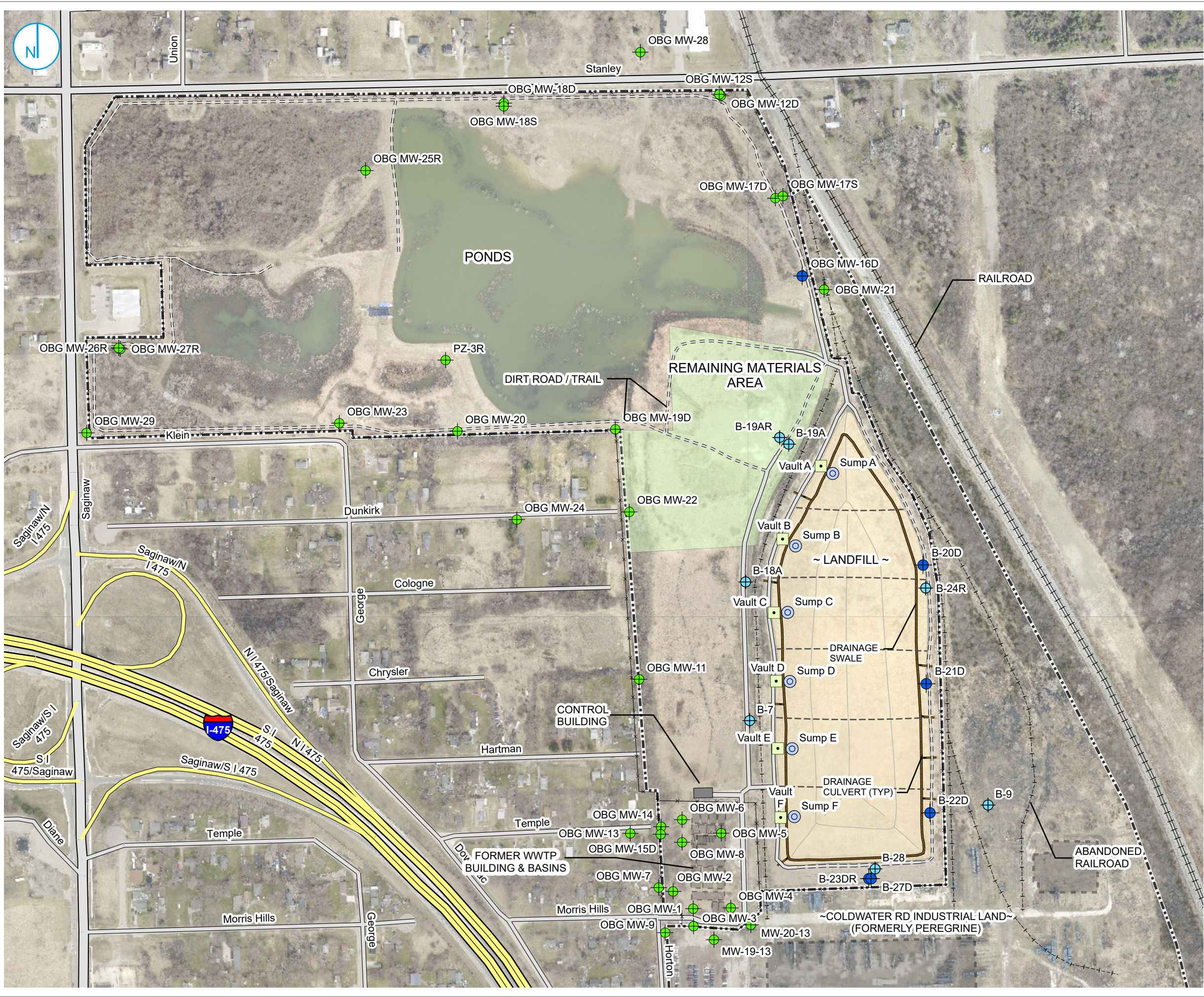
## SITE LOCATION

## 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



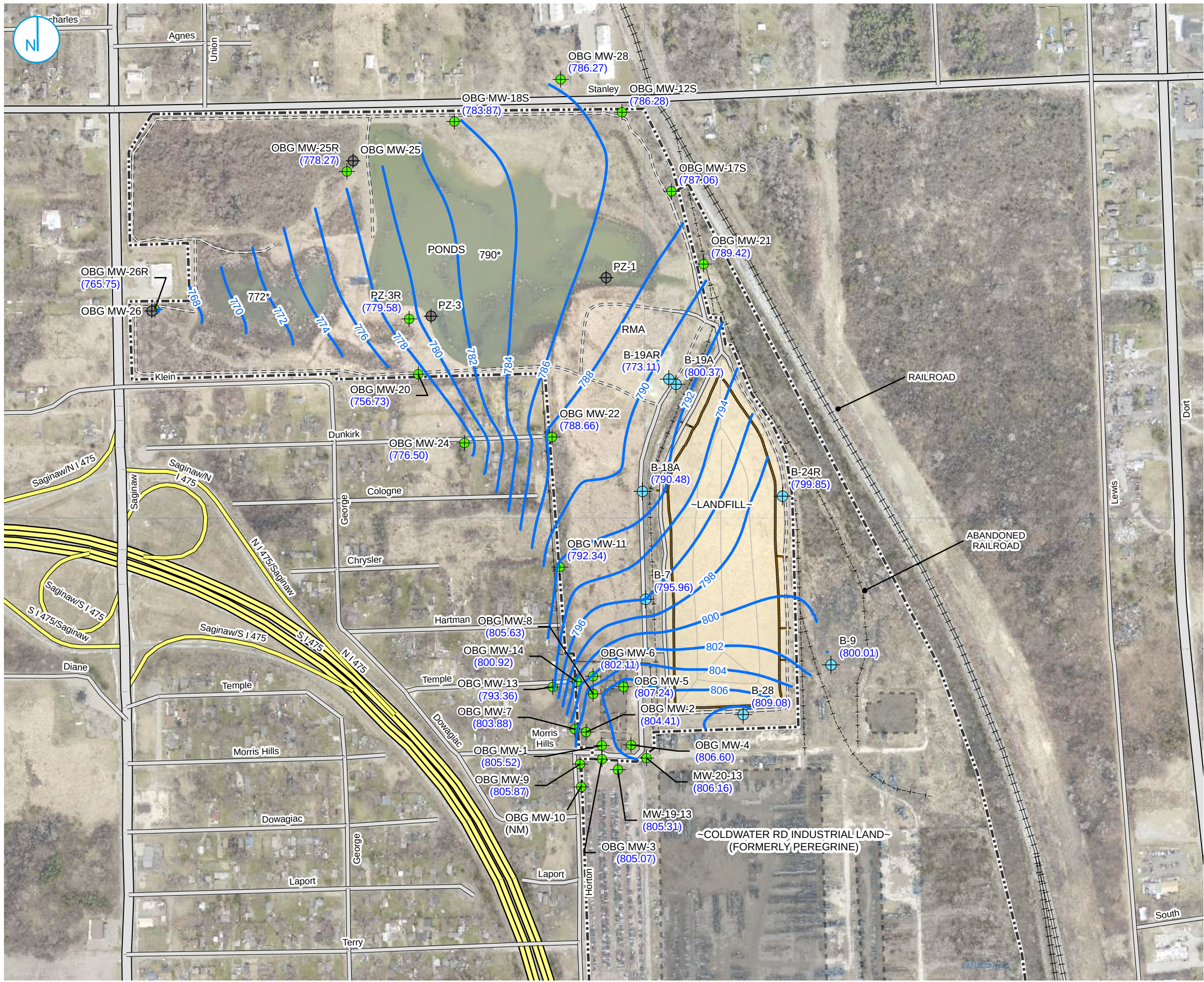
SITE LAYOUT

RACER TRUST  
COLDWATER ROAD  
FLINT, MICHIGAN

FIGURE 2

RAMBOLL AMERICAS  
ENGINEERING SOLUTIONS, INC.  
A RAMBOLL COMPANY





- LANDFILL MONITORING WELL / PIEZOMETER
- OTHER MONITORING WELL / PIEZOMETER
- ABANDONED WELL
- GROUNDWATER CONTOUR (NOVEMBER 4, 2024)
- PROPERTY BOUNDARY
- FORMER BUILDING

(799.85) GROUNDWATER ELEVATION

NOTES

THE GROUNDWATER ELEVATIONS FOR MONITORING WELLS B-19A AND B-19AR WERE NOT USED IN DEVELOPING THE GROUNDWATER POTENTIOMETRIC SURFACE DUE TO THE DEPTH OF THESE WELLS 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.



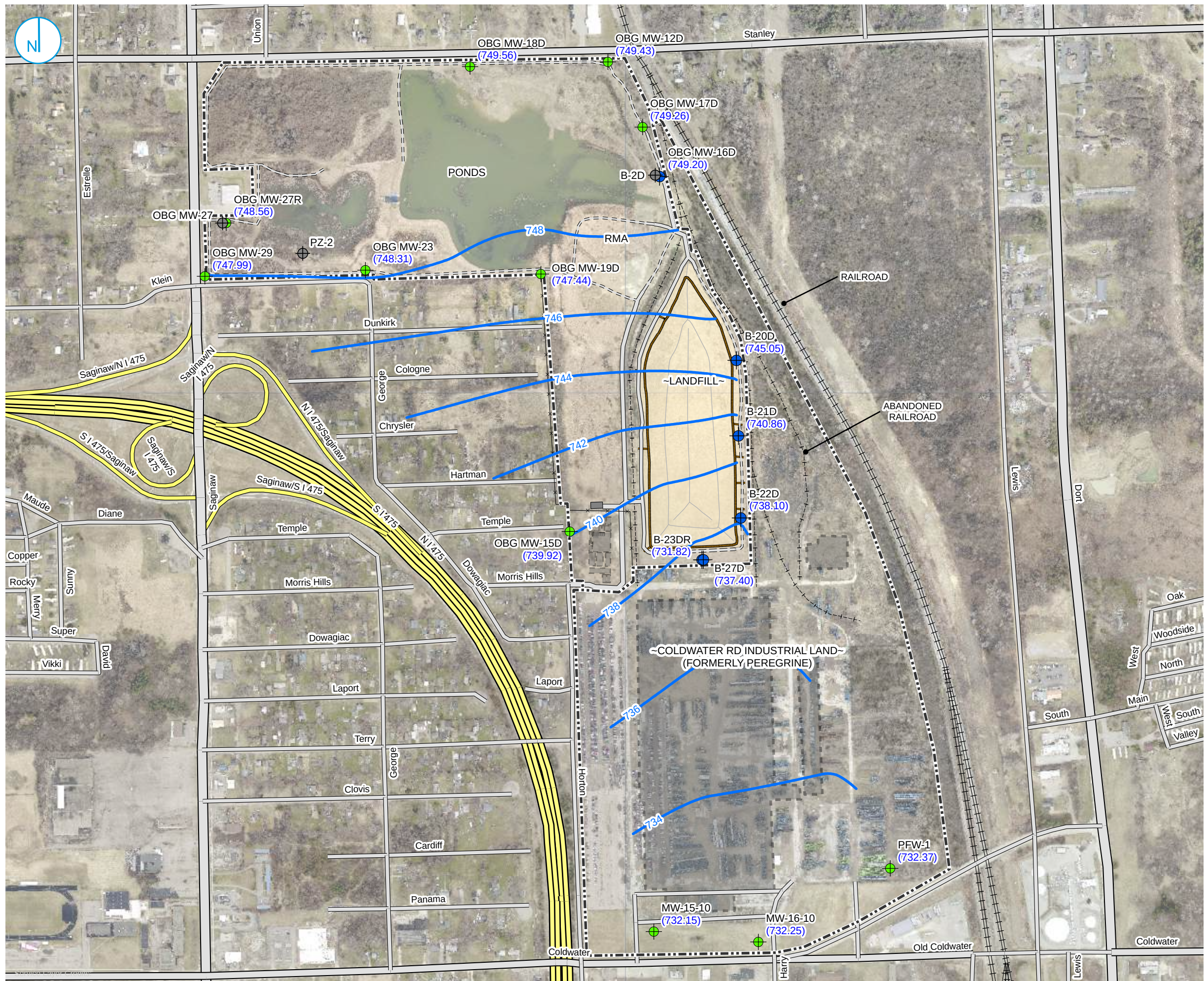
PERCHED ZONE GROUNDWATER ELEVATION MAP  
NOVEMBER 4, 2024

RACER TRUST  
COLDWATER ROAD  
FLINT, MICHIGAN

FIGURE 3

RAMBOLL AMERICAS  
ENGINEERING SOLUTIONS, INC.  
A RAMBOLL COMPANY





- LANDFILL MONITORING WELL / PIEZOMETER
- OTHER MONITORING WELL / PIEZOMETER
- ABANDONED WELL
- GROUNDWATER CONTOUR (NOVEMBER 4, 2024)
- PROPERTY BOUNDARY
- FORMER BUILDING

(745.05) 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  
NOVEMBER 4, 2024

RACER TRUST  
COLDWATER ROAD  
FLINT, MICHIGAN

FIGURE 4

RAMBOLL AMERICAS  
ENGINEERING SOLUTIONS, INC.  
A RAMBOLL COMPANY



## **APPENDIX A SAMPLING PROCEDURES**

## Table of Contents

|                                                                                         |   |
|-----------------------------------------------------------------------------------------|---|
| <u>1 Introduction</u> .....                                                             | 2 |
| <u>2 Procedural Guidelines</u> .....                                                    | 3 |
| <u>2.1 Preparatory Requirements</u> .....                                               | 3 |
| <u>2.2 Well Purging and Stabilization Monitoring (Low Stress/Low Flow Method)</u> ..... | 3 |
| <u>2.3 Sample Preservation</u> .....                                                    | 5 |
| <u>2.4 Sample Management and Chain-of-Custody</u> .....                                 | 6 |
| <u>2.5 Quality Assurance/Quality Control (QA/QC) Measures</u> .....                     | 6 |
| <u>3 References</u> .....                                                               | 7 |

## 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**

## Standard Groundwater Sampling Log

|             |                       |
|-------------|-----------------------|
| Date        | 11/4/2024   11/6/2024 |
| Site Name   | RACER Coldwater Rd    |
| Location    | Flint, MI             |
| Project No. | 1940107203            |
| Personnel   | KBS                   |

|                   |                        |
|-------------------|------------------------|
| Weather           | Cloudy/ Windy          |
| Well #            | B-7                    |
| Evacuation Method | Whale Pump-Peristaltic |
| Sampling Method   | Purged Dry             |

**Well Information:**

|                            |                         |         |
|----------------------------|-------------------------|---------|
| Depth of Well *            | 29.95                   | ft.     |
| Depth to Water *           | 17.36   (11/6/24) 23.99 | ft.     |
| Length of Water Column     | 12.59                   | ft.     |
| Volume of Water in Well    | 2.05                    | gal.(s) |
| 3X Volume of Water in Well | 6.16                    | 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 3.5 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<br>measured | Temperature<br>Celsius | Conductivity<br>mS/cm | Dissolved Oxygen<br>mg/L | pH            | ORP<br>mV      | Turbidity<br>NTUs |
|---------|----------------------|------------------------|-----------------------|--------------------------|---------------|----------------|-------------------|
|         | 0.3 feet or less     | ±3 percent             | ±3 percent            | ±10 percent              | ±0.1 pH units | ±10 millivolts | ±10 percent       |
| initial |                      | initial 17.17          | initial 0.94          | initial 2.82             | initial 6.32  | initial 160.9  | initial 123       |
| 5 min   | 23.59                | 13.85                  | 0.86                  | 3.88                     | 6.63          | 105.1          | 44.2              |
| 10 min  |                      | 13.58                  | 1.08                  | 2.81                     | 6.76          | 77.9           | 88.3              |
| 15 min  |                      | 14.44                  | 1.09                  | 2.14                     | 6.84          | 63.9           | 266               |
| 20 min  | 28.20                |                        |                       |                          |               |                |                   |
| 25 min  |                      |                        |                       |                          |               |                |                   |
| 30 min  | 11/6/2024            |                        |                       |                          |               |                |                   |
| 35 min  | 23.99                | 19.32                  | 1.06                  | 4.25                     | 7.16          | 49.2           | 58.6              |
| 40 min  |                      |                        |                       |                          |               |                | 24.6              |
| 45 min  | 24.78                |                        |                       |                          |               | 53.1           | 13.1              |
| 50 min  |                      | 17.24                  | 1.09                  | 1.59                     | 7.07          | After Filter   | 1.67              |
| 55 min  |                      |                        |                       |                          |               |                |                   |
| 60 min  |                      |                        |                       |                          |               |                |                   |

**Water Sample:**

Time Collected 14:40

Physical Appearance at Start

Physical Appearance at Sampling

|                       |            |
|-----------------------|------------|
| Color                 | Light Gray |
| Odor                  | None       |
| Turbidity (> 100 NTU) | 123        |
| Sheen/Free Product    | None       |

|                       |                      |
|-----------------------|----------------------|
| Color                 | Brown then to cloudy |
| Odor                  | None                 |
| Turbidity (> 100 NTU) | 13.1                 |
| Sheen/Free Product    | None                 |

**Samples collected:**

| Analyses                                      | # Bottles | Bottle size/type | Preservative                   | Field Filtered |
|-----------------------------------------------|-----------|------------------|--------------------------------|----------------|
| Dissolved Metals - Cu, Cr, Ni, Zn, Fe, Mn, Na | 1         | 125 ml Plastic   | HNO <sub>3</sub>               | yes            |
| TOC                                           | 2         | 40 ml Glass      | H <sub>2</sub> SO <sub>4</sub> |                |
| TOX                                           | 1         | 125 ml Plastic   | H <sub>2</sub> SO <sub>4</sub> |                |
| SpC                                           | 1         | 500 ml Plastic   | None                           |                |

Notes:

RAMBOLL

Standard Groundwater Sampling Log

Date11/5/2024 | 11/6/2024

Site NameRACER Coldwater Rd

LocationFlint, MI

Project No.1940107203

PersonnelKBS

WeatherCloudy, 60's °F

Well #B-9

Evacuation MethodWhale Pump-Peristaltic

Sampling MethodPurged Dry

Well Information:

Depth of Well \*25.13ft.

Depth to Water \*6.71 | (11/6/24) 8.82ft.

Length of Water Column16.31ft.

Volume of Water in Well2.66gal.(s)

3X Volume of Water in Well7.98gal.(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 sampling5.0gal.(s)

Did well go dry?yes

\* Measurements taken from

Well Casing

XProtective Casing

(Other, Specify)

Instrument Calibration:

Calibrated within range

pHYes

ORPYes

ConductivityYes

DOYes

Water parameters:

Drawdown measured0.3 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 | 9.91      | initial | 18.38 | initial | 2.36 | initial | 2.65 | initial | 7.15 | initial | 42.6         | initial | 353   |
| 5 min   | 16.64     |         | 14.66 |         | 2.18 |         | 3.38 |         | 6.72 |         | 62.5         |         | 158   |
| 10 min  | 20.79     |         | 14.78 |         | 2.27 |         | 2.88 |         | 6.68 |         | 21.2         |         | 537   |
| 15 min  | 23.62     |         |       |         |      |         |      |         |      |         |              |         |       |
| 20 min  | 11/6/2024 |         |       |         |      |         |      |         |      |         |              |         |       |
| 25 min  | 9.39      |         | 15.47 |         | 2.32 |         | 6.46 |         | 6.83 |         | 57.6         |         | >1000 |
| 30 min  | 9.91      |         | 15.15 |         | 2.32 |         | 5.94 |         | 6.77 |         | 56.1         |         | 121   |
| 35 min  | 10.25     |         | 15.08 |         | 2.33 |         | 5.32 |         | 6.74 |         | 56.0         |         | 42.6  |
| 40 min  |           |         |       |         |      |         |      |         |      |         | After Filter |         | 5.67  |
| 45 min  |           |         |       |         |      |         |      |         |      |         |              |         |       |
| 50 min  |           |         |       |         |      |         |      |         |      |         |              |         |       |
| 55 min  |           |         |       |         |      |         |      |         |      |         |              |         |       |
| 60 min  |           |         |       |         |      |         |      |         |      |         |              |         |       |

Water Sample:

Time Collected11:22

Physical Appearance at Start

Physical Appearance at Sampling

ColorLight Gray

OdorNone

Turbidity (> 100 NTU)253

Sheen/Free ProductNone

ColorClear

OdorNone

Turbidity (> 100 NTU)42.6

Sheen/Free ProductNone

Samples collected:

|                                               |           |                  |              |                |
|-----------------------------------------------|-----------|------------------|--------------|----------------|
| Analyses                                      | # Bottles | Bottle size/type | Preservative | Field Filtered |
| Dissolved Metals - Cu, Cr, Ni, Zn, Fe, Mn, Na | 1         | 125 ml Plastic   | HNO3         | yes            |
| TOC                                           | 2         | 40 ml Glass      | H2SO4        |                |
| TOX                                           | 1         | 125 ml Plastic   | H2SO4        |                |
| SpC                                           | 1         | 500 ml Plasic    | None         |                |

Notes:

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RAMBOLL

Standard Groundwater Sampling Log

Date11/4/2024 | 11/6/2024

Site NameRACER Coldwater Rd

LocationFlint, MI

Project No.1940107203

PersonnelKBS

WeatherCloudy/ Windy

Well #B-18A

Evacuation MethodWhale Pump-Peristaltic

Sampling MethodPurged Dry

Well Information:

Depth of Well \*43.58ft.

Depth to Water \*20.02 | (11/6/24) 30.20ft.

Length of Water Column23.56ft.

Volume of Water in Well3.84gal.(s)

3X Volume of Water in Well11.52gal.(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 sampling5.75gal.(s)

Did well go dry?Yes

\* Measurements taken fromWell CasingXProtective Casing(Other, Specify)

Instrument Calibration:

Calibrated within range

pHYes

ORPYes

ConductivityYes

DOYes

Water parameters:

| Drawdown<br>measured | Temperature<br>Celsius | Conductivity<br>mS/cm | Dissolved Oxygen<br>mg/L | pH            | ORP<br>mV                | Turbidity<br>NTUs |
|----------------------|------------------------|-----------------------|--------------------------|---------------|--------------------------|-------------------|
| 0.3 feet or less     | ±3 percent             | ±3 percent            | ±10 percent              | ±0.1 pH units | ±10 millivolts           | ±10 percent       |
| initial22.25         | initial14.26           | initial0.94           | initial1.71              | initial7.12   | initial55.5              | initial613        |
| 5 min28.90           | 12.15                  | 0.97                  | 0.26                     | 6.90          | 25.9                     | 79.6              |
| 10 min30.75          | 12.25                  | 0.97                  | 0.40                     | 6.89          | 25.0                     | 27.3              |
| 15 min35.56          | 12.44                  | 0.96                  | 1.03                     | 6.91          | 31.4                     | 50.2              |
| 20 min39.42          | 12.62                  | 0.96                  | 1.48                     | 6.93          | 37.4                     | 62.6              |
| 25 min40.24          | 12.51                  | 0.97                  | 0.37                     | 6.91          | 35.6                     |                   |
| 30 min39.38          |                        |                       |                          |               |                          |                   |
| 35 min11/6/2024      |                        |                       |                          |               |                          |                   |
| 40 min30.20          | 15.83                  | 1.02                  | 1.63                     | 7.08          | 35.7                     | 171               |
| 45 min31.05          | 12.88                  | 1.07                  | 1.16                     | 7.01          | 46.0                     | 153               |
| 50 min               |                        |                       |                          |               | During sample collection | 53.9              |
| 55 min               |                        |                       |                          |               | After filter             | 7.35              |
| 60 min               |                        |                       |                          |               |                          |                   |

Water Sample:

Time Collected13:25

Physical Appearance at Start

Physical Appearance at Sampling

ColorLight gray to cloudy

OdorNone

Turbidity (> 100 NTU)613

Sheen/Free ProductNone

ColorCloudy

OdorNone

Turbidity (> 100 NTU)53.9

Sheen/Free ProductNone

Samples collected:

| Analyses                                      | # Bottles | Bottle size/type | Preservative | Field Filtered |
|-----------------------------------------------|-----------|------------------|--------------|----------------|
| Dissolved Metals - Cu, Cr, Ni, Zn, Fe, Mn, Na | 1         | 125 ml Plastic   | HNO3         | yes            |
| TOC                                           | 2         | 40 ml Glass      | H2SO4        |                |
| TOX                                           | 1         | 125 ml Plastic   | H2SO4        |                |
| SpC                                           | 1         | 500 ml Plasic    | None         |                |

Notes:

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|                   |                        |
|-------------------|------------------------|
| Weather           | Cloudy/ Rain           |
| Well #            | B-19AR                 |
| Evacuation Method | Whale Pump-Peristaltic |
| Sampling Method   | Purged Dry             |

|                            |                         |         |
|----------------------------|-------------------------|---------|
| Depth of Well *            | 47.15                   | ft.     |
| Depth to Water *           | 38.26   (11/6/24) 28.88 | ft.     |
| Length of Water Column     | 8.89                    | ft.     |
| Volume of Water in Well    | 1.45                    | gal.(s) |
| 3X Volume of Water in Well | 4.35                    | 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 | <u>3.5</u> gal.(s) |
| Did well go dry?               | Yes                |

(Other, Specify)

|              |     |
|--------------|-----|
| pH           | Yes |
| ORP          | Yes |
| Conductivity | Yes |
| DO           | Yes |

|         | Drawdown<br>measured | Temperature<br>Celsius | Conductivity<br>mS/cm | Dissolved Oxygen<br>mg/L | pH            | ORP<br>mV                | Turbidity<br>NTUs |      |
|---------|----------------------|------------------------|-----------------------|--------------------------|---------------|--------------------------|-------------------|------|
|         | 0.3 feet or less     | ±3 percent             | ±3 percent            | ±10 percent              | ±0.1 pH units | ±10 millivolts           | ±10 percent       |      |
| initial | 40.09                | initial 14.79          | initial 0.02          | initial 10.28            | initial 7.38  | initial 59.8             | initial 300       |      |
| 5 min   | 41.32                | 13.55                  | 1.08                  | 2.71                     | 7.09          | 47.5                     | 288               |      |
| 10 min  | 43.35                | 12.68                  | 1.09                  | 1.09                     | 7.00          | 48.2                     | 180               |      |
| 15 min  | 45.41                | 12.71                  | 1.09                  | 1.13                     | 7.00          | 42.4                     | 117.0             |      |
| 20 min  | 46.13                |                        |                       |                          |               |                          |                   |      |
| 25 min  |                      |                        |                       |                          |               |                          |                   |      |
| 30 min  | 11/6/2024            |                        |                       |                          |               |                          |                   |      |
| 35 min  | 39.31                | 15.05                  | 1.17                  | 5.16                     | 7.17          | 63.7                     | 53.7              |      |
| 40 min  | 40.50                | 13.18                  | 1.23                  | 5.52                     | 7.12          | 55.6                     | 38.0              |      |
| 45 min  |                      |                        |                       |                          |               | During sample collection |                   | 64.4 |
| 50 min  |                      |                        |                       |                          |               | After Filter             |                   | 2.02 |
| 55 min  |                      |                        |                       |                          |               |                          |                   |      |
| 60 min  |                      |                        |                       |                          |               |                          |                   |      |

## Time Collected 10:25

Physical Appearance at Sampling

|                       |                 |
|-----------------------|-----------------|
| Color                 | Slightly Cloudy |
| Odor                  | None            |
| Turbidity (> 100 NTU) | 64.4            |
| Sheen/Free Product    | None            |

| Analyses                                      | # Bottles | Bottle size/type | Preservative                   | Field Filtered |
|-----------------------------------------------|-----------|------------------|--------------------------------|----------------|
| Dissolved Metals - Cu, Cr, Ni, Zn, Fe, Mn, Na | 1         | 125 ml Plastic   | HNO <sub>3</sub>               | yes            |
| TOC                                           | 2         | 40 ml Glass      | H <sub>2</sub> SO <sub>4</sub> |                |
| TOX                                           | 1         | 125 ml Plastic   | H <sub>2</sub> SO <sub>4</sub> |                |
| SpC                                           | 1         | 500 ml Plastic   | None                           |                |

Notes:

|                   |                        |
|-------------------|------------------------|
| Weather           | Cloudy 60's            |
| Well #            | B-24R                  |
| Evacuation Method | Whale Pump-Peristaltic |
| Sampling Method   | Purge Dry              |

|                            |                         |         |
|----------------------------|-------------------------|---------|
| Depth of Well *            | 30.41                   | ft.     |
| Depth to Water *           | 15.94   (11/6/24) 16.30 | ft.     |
| Length of Water Column     | 14.47                   | ft.     |
| Volume of Water in Well    | 2.36                    | gal.(s) |
| 3X Volume of Water in Well | 7.08                    | 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 | <u>7 1/4</u> gal.(s) |
| Did well go dry?               | <u>yes</u>           |

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

Calibrated within range

|              |     |
|--------------|-----|
| pH           | Yes |
| ORP          | Yes |
| Conductivity | Yes |
| DO           | Yes |

| Drawdown measured |           | Temperature Celsius |       | Conductivity mS/cm |      | Dissolved Oxygen mg/L |      | pH            |      | ORP mV                   |      | Turbidity NTUs |       |
|-------------------|-----------|---------------------|-------|--------------------|------|-----------------------|------|---------------|------|--------------------------|------|----------------|-------|
| 0.3 feet or less  |           | ±3 percent          |       | ±3 percent         |      | ±10 percent           |      | ±0.1 pH units |      | ±10 millivolts           |      | ±10 percent    |       |
| initial           | 17.24     | initial             | 15.03 | initial            | 1.20 | initial               | 0.99 | initial       | 7.22 | initial                  | 33.8 | initial        | >1000 |
| 5 min             | 20.59     |                     | 13.26 |                    | 1.26 |                       | 0.12 |               | 7.00 |                          | 33.9 |                | 41.4  |
| 10 min            | 23.51     |                     | 13.59 |                    | 1.29 |                       | 0.51 |               | 6.98 |                          | 33.2 |                | 95.6  |
| 15 min            | 26.24     |                     | 13.17 |                    | 1.26 |                       | 0.08 |               | 6.98 |                          | 18.3 |                | 42.3  |
| 20 min            |           |                     | 12.95 |                    | 1.25 |                       | 0.10 |               | 6.98 |                          | 22.0 |                | 98.9  |
| 25 min            | 29.26     |                     |       |                    |      |                       |      |               |      |                          |      |                |       |
| 30 min            |           |                     |       |                    |      |                       |      |               |      |                          |      |                |       |
| 35 min            | 11/6/2024 |                     |       |                    |      |                       |      |               |      |                          |      |                |       |
| 40 min            | 16.49     |                     | 16.71 |                    | 1.32 |                       | 8.28 |               | 7.24 |                          | 24.6 |                | 131   |
| 45 min            | 16.64     |                     | 15.23 |                    | 1.33 |                       | 7.79 |               | 7.24 |                          | 41.6 |                | 93.8  |
| 50 min            | 16.76     |                     | 14.60 |                    | 1.34 |                       | 8.08 |               | 7.2  |                          | 49.8 |                | 67.6  |
| 55 min            |           |                     |       |                    |      |                       |      |               |      | During sample collection |      |                | 42.0  |
| 60 min            |           |                     |       |                    |      |                       |      |               |      | After Filter             |      |                | 8.16  |

## Time Collected 12:08

Physical Appearance at Start

Physical Appearance at Sampling

|                       |             |
|-----------------------|-------------|
| Color                 | Light Brown |
| Odor                  | None        |
| Turbidity (> 100 NTU) | >1000       |
| Sheen/Free Product    | None        |

|                       |                 |
|-----------------------|-----------------|
| Color                 | Slightly cloudy |
| Odor                  | None            |
| Turbidity (> 100 NTU) | 42.0            |
| Sheen/Free Product    | None            |

| Analyses                                      | # Bottles | Bottle size/type | Preservative                   | Field Filtered |
|-----------------------------------------------|-----------|------------------|--------------------------------|----------------|
| Dissolved Metals - Cu, Cr, Ni, Zn, Fe, Mn, Na | 1         | 125 ml Plastic   | HNO <sub>3</sub>               | yes            |
| TOC                                           | 2         | 40 ml Glass      | H <sub>2</sub> SO <sub>4</sub> |                |
| TOX                                           | 1         | 125 ml Plastic   | H <sub>2</sub> SO <sub>4</sub> |                |
| SpC                                           | 1         | 500 ml Plastic   | None                           |                |

Notes:

DUP Collected

## Standard Groundwater Sampling Log

|             |                    |                   |                 |
|-------------|--------------------|-------------------|-----------------|
| Date        | 11/5/2024          | Weather           | Cloudy, 60's °F |
| Site Name   | RACER Coldwater Rd | Well #            | B-28            |
| Location    | Flint, MI          | Evacuation Method | Whale Pump      |
| Project No. | 1940107203         | Sampling Method   | 3X Well Volumes |
| Personnel   | KBS                |                   |                 |

## Well Information:

|                            |       |         |
|----------------------------|-------|---------|
| Depth of Well *            | 30.95 | ft.     |
| Depth to Water *           | 6.51  | ft.     |
| Length of Water Column     | 24.44 | ft.     |
| Volume of Water in Well    | 3.98  | gal.(s) |
| 3X Volume of Water in Well | 11.95 | 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 13 gal.(s)  
 Did well go dry? No

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

**Instrument Calibration:**

Calibrated within range

|              |     |
|--------------|-----|
| pH           | Yes |
| ORP          | Yes |
| Conductivity | Yes |
| DO           | Yes |

## Water parameters:

|         | Drawdown measured | Temperature Celsius | Conductivity mS/cm | Dissolved Oxygen mg/L | pH            | ORP mV         | Turbidity NTUs |
|---------|-------------------|---------------------|--------------------|-----------------------|---------------|----------------|----------------|
|         | 0.3 feet or less  | ±3 percent          | ±3 percent         | ±10 percent           | ±0.1 pH units | ±10 millivolts | ±10 percent    |
| initial | 10.63             | initial 14.67       | initial 0.91       | initial 0.33          | initial 7.24  | initial -37.4  | initial 50     |
| 5 min   | 16.81             | 13.62               | 0.94               | 0.05                  | 7.06          | -45.2          | 27.1           |
| 10 min  | 20.51             | 13.85               | 0.94               | 0.22                  | 7.03          | -53.0          | 15.9           |
| 15 min  | 22.7              | 13.76               | 0.94               | 0.70                  | 7.05          | -49.0          | 12.3           |
| 20 min  | 23.29             | 13.64               | 0.94               | 0.53                  | 7.05          | -56.6          | 8.46           |
| 25 min  | 23.29             | 13.43               | 0.94               | 0.12                  | 7.04          | -73.9          | 4.78           |
| 30 min  | 23.29             | 13.40               | 0.94               | 0.30                  | 7.05          | -67.3          | 10.8           |
| 35 min  |                   |                     |                    |                       |               |                |                |
| 40 min  |                   |                     |                    |                       |               |                |                |
| 45 min  |                   |                     |                    |                       |               |                |                |
| 50 min  |                   |                     |                    |                       |               |                |                |
| 55 min  |                   |                     |                    |                       |               |                |                |
| 60 min  |                   |                     |                    |                       |               |                |                |

**Water Sample:**

Time Collected 12:50

Physical Appearance at Start

Physical Appearance at Sampling

|                       |                    |                       |       |
|-----------------------|--------------------|-----------------------|-------|
| Color                 | Cloudy/ Light Gray | Color                 | Clear |
| Odor                  | None               | Odor                  | None  |
| Turbidity (> 100 NTU) | 49.8               | Turbidity (> 100 NTU) | 10.8  |
| Sheen/Free Product    | None               | Sheen/Free Product    | None  |

**Samples collected:**

|                         |   |                |                                |  |
|-------------------------|---|----------------|--------------------------------|--|
| VOCs                    | 3 | 40 ml Glass    | HCL                            |  |
| Phenols                 | 1 | 125 ml Plastic | H <sub>2</sub> SO <sub>4</sub> |  |
| TOC                     | 2 | 40 ml Glass    | H <sub>2</sub> SO <sub>4</sub> |  |
| SpC                     | 1 | 125 ml Plastic | H <sub>2</sub> SO <sub>4</sub> |  |
| Sulfate, Chlorides, SpC | 1 | 500 ml Plasic  | None                           |  |

Notes:

Purged 3 well volumes prior to sample collection

## **APPENDIX C**

### **ANALYTICAL LABORATORY RESULTS**



# Analytical Laboratory Report

Report ID: S68320.01(01)  
Generated on 12/02/2024

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): S68320.01-S68320.07  
Project: RACER Coldwater Road  
Collected Date(s): 11/05/2024 - 11/06/2024  
Submitted Date/Time: 11/07/2024 16:45  
Sampled by: Kevin Schneider  
P.O. #: 1940008845 TASK 001

Table of Contents

- Cover Page (Page 1)
- General Report Notes (Page 2)
- Report Narrative (Page 2)
- Laboratory Accreditations (Page 3)
- Qualifier Descriptions (Page 3)
- Glossary of Abbreviations (Page 3)
- Method Summary (Page 4)
- Sample Summary (Page 5)

  
Maya Murshak  
Technical Director



# Analytical Laboratory Report

## General Report Notes

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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

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There is no additional narrative for this analytical 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                 |
| SW3015A | SW 846 Method 3015A Revision 1 February 2007  |
| SW9020B | SW 846 Method 9020B Revision 2 September 1994 |



# Analytical Laboratory Report

## Sample Summary (7 samples)

| Sample ID | Sample Tag      | Matrix      | Collected Date/Time |
|-----------|-----------------|-------------|---------------------|
| S68320.01 | B-28-20241105   | Groundwater | 11/05/24 12:50      |
| S68320.02 | B-19AR-20241105 | Groundwater | 11/06/24 10:25      |
| S68320.03 | B-9-20241106    | Groundwater | 11/06/24 11:22      |
| S68320.04 | B-24R-20241105  | Groundwater | 11/06/24 12:08      |
| S68320.05 | B-18A-20241105  | Groundwater | 11/06/24 13:25      |
| S68320.06 | B-7-20241105    | Groundwater | 11/06/24 14:40      |
| S68320.07 | GW-DUP-20241105 | Groundwater | 11/06/24 00:01      |



# Analytical Laboratory Report

Lab Sample ID: S68320.01  
Sample Tag: B-28-20241105  
Collected Date/Time: 11/05/2024 12:50  
Matrix: Groundwater  
COC Reference: 176243

Sample Containers

| # | Type          | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|---------------|-----------------|---------------|-------------------|---------------|
| 2 | 40mL Glass    | H2SO4           | Yes           | 5.0               | IR            |
| 1 | 250mL Amber   | H2SO4           | Yes           | 5.0               | IR            |
| 1 | 125mL Plastic | HNO3            | Yes           | 5.0               | IR            |
| 1 | 500mL Plastic | None            | Yes           | 5.0               | IR            |

Extraction / Prep.

| Parameter       | Result    | Method  | Run Date       | Analyst | Flags |
|-----------------|-----------|---------|----------------|---------|-------|
| Metal Digestion | Completed | SW3015A | 11/12/24 15:30 | CCM     |       |
| Metal Digestion | Completed | SW3015A | 11/12/24 15:30 | CCM     |       |

Inorganics

Method: , Run Date: 11/21/24 01:30, Analyst: EF

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

Method: E120.1, Run Date: 11/14/24 13:56, Analyst: JKB

| Parameter    | Result | RL | MDL | Units    | Dilution | CAS# | Flags |
|--------------|--------|----|-----|----------|----------|------|-------|
| Conductivity | 942    | 1  |     | umhos/cm | 1        |      |       |

Metals

Method: E200.8, Run Date: 11/12/24 16:38, 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 |       |
| Nickel, Dissolved   | Not detected | 0.005 |     | mg/L  | 5        | 7440-02-0 |       |
| Zinc, Dissolved     | 0.006        | 0.005 |     | mg/L  | 5        | 7440-66-6 |       |

Organics

Method: SW9020B, Run Date: 11/27/24 01:11, 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: S68320.02  
Sample Tag: B-19AR-20241105  
Collected Date/Time: 11/06/2024 10:25  
Matrix: Groundwater  
COC Reference: 176243

Sample Containers

| # | Type          | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|---------------|-----------------|---------------|-------------------|---------------|
| 2 | 40mL Glass    | H2SO4           | Yes           | 5.0               | IR            |
| 1 | 250mL Amber   | H2SO4           | Yes           | 5.0               | IR            |
| 1 | 125mL Plastic | HNO3            | Yes           | 5.0               | IR            |
| 1 | 500mL Plastic | None            | Yes           | 5.0               | IR            |

Extraction / Prep.

| Parameter       | Result    | Method  | Run Date       | Analyst | Flags |
|-----------------|-----------|---------|----------------|---------|-------|
| Metal Digestion | Completed | SW3015A | 11/12/24 15:30 | CCM     |       |
| Metal Digestion | Completed | SW3015A | 11/12/24 15:30 | CCM     |       |

Inorganics

Method: , Run Date: 11/21/24 01:55, Analyst: EF

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

Method: E120.1, Run Date: 11/14/24 14:00, Analyst: JKB

| Parameter    | Result | RL | MDL | Units    | Dilution | CAS# | Flags |
|--------------|--------|----|-----|----------|----------|------|-------|
| Conductivity | 1,194  | 1  |     | umhos/cm | 1        |      |       |

Metals

Method: E200.8, Run Date: 11/12/24 16:39, 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 |       |
| Nickel, Dissolved   | Not detected | 0.005 |     | mg/L  | 5        | 7440-02-0 |       |
| Zinc, Dissolved     | 0.006        | 0.005 |     | mg/L  | 5        | 7440-66-6 |       |

Organics

Method: SW9020B, Run Date: 11/27/24 07:09, 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: S68320.03  
Sample Tag: B-9-20241106  
Collected Date/Time: 11/06/2024 11:22  
Matrix: Groundwater  
COC Reference: 176243

Sample Containers

| # | Type          | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|---------------|-----------------|---------------|-------------------|---------------|
| 2 | 40mL Glass    | H2SO4           | Yes           | 5.0               | IR            |
| 1 | 250mL Amber   | H2SO4           | Yes           | 5.0               | IR            |
| 1 | 125mL Plastic | HNO3            | Yes           | 5.0               | IR            |
| 1 | 500mL Plastic | None            | Yes           | 5.0               | IR            |

Extraction / Prep.

| Parameter       | Result    | Method  | Run Date       | Analyst | Flags |
|-----------------|-----------|---------|----------------|---------|-------|
| Metal Digestion | Completed | SW3015A | 11/12/24 15:30 | CCM     |       |
| Metal Digestion | Completed | SW3015A | 11/12/24 15:30 | CCM     |       |

Inorganics

Method: , Run Date: 11/21/24 02:19, Analyst: EF

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

Method: E120.1, Run Date: 11/14/24 14:02, Analyst: JKB

| Parameter    | Result | RL | MDL | Units    | Dilution | CAS# | Flags |
|--------------|--------|----|-----|----------|----------|------|-------|
| Conductivity | 2,260  | 1  |     | umhos/cm | 1        |      |       |

Metals

Method: E200.8, Run Date: 11/12/24 16:39, 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 |       |
| 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

Method: SW9020B, Run Date: 11/27/24 02:09, 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: S68320.04  
Sample Tag: B-24R-20241105  
Collected Date/Time: 11/06/2024 12:08  
Matrix: Groundwater  
COC Reference: 176243

Sample Containers

| # | Type          | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|---------------|-----------------|---------------|-------------------|---------------|
| 2 | 40mL Glass    | H2SO4           | Yes           | 5.0               | IR            |
| 1 | 250mL Amber   | H2SO4           | Yes           | 5.0               | IR            |
| 1 | 125mL Plastic | HNO3            | Yes           | 5.0               | IR            |
| 1 | 500mL Plastic | None            | Yes           | 5.0               | IR            |

Extraction / Prep.

| Parameter       | Result    | Method  | Run Date       | Analyst | Flags |
|-----------------|-----------|---------|----------------|---------|-------|
| Metal Digestion | Completed | SW3015A | 11/12/24 15:30 | CCM     |       |
| Metal Digestion | Completed | SW3015A | 11/12/24 15:30 | CCM     |       |

Inorganics

Method: , Run Date: 11/21/24 18:37, Analyst: EF

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

Method: E120.1, Run Date: 11/14/24 14:04, Analyst: JKB

| Parameter    | Result | RL | MDL | Units    | Dilution | CAS# | Flags |
|--------------|--------|----|-----|----------|----------|------|-------|
| Conductivity | 1,301  | 1  |     | umhos/cm | 1        |      |       |

Metals

Method: E200.8, Run Date: 11/12/24 16:40, 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 |       |
| Nickel, Dissolved   | Not detected | 0.005 |     | mg/L  | 5        | 7440-02-0 |       |
| Zinc, Dissolved     | 0.005        | 0.005 |     | mg/L  | 5        | 7440-66-6 |       |

Organics

Method: SW9020B, Run Date: 11/27/24 07:40, 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: S68320.05  
Sample Tag: B-18A-20241105  
Collected Date/Time: 11/06/2024 13:25  
Matrix: Groundwater  
COC Reference: 176243

Sample Containers

| # | Type          | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|---------------|-----------------|---------------|-------------------|---------------|
| 2 | 40mL Glass    | H2SO4           | Yes           | 5.0               | IR            |
| 1 | 250mL Amber   | H2SO4           | Yes           | 5.0               | IR            |
| 1 | 125mL Plastic | HNO3            | Yes           | 5.0               | IR            |
| 1 | 500mL Plastic | None            | Yes           | 5.0               | IR            |

Extraction / Prep.

| Parameter       | Result    | Method  | Run Date       | Analyst | Flags |
|-----------------|-----------|---------|----------------|---------|-------|
| Metal Digestion | Completed | SW3015A | 11/12/24 15:30 | CCM     |       |
| Metal Digestion | Completed | SW3015A | 11/12/24 15:30 | CCM     |       |

Inorganics

Method: , Run Date: 11/21/24 19:02, Analyst: EF

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

Method: E120.1, Run Date: 11/14/24 14:06, Analyst: JKB

| Parameter    | Result | RL | MDL | Units    | Dilution | CAS# | Flags |
|--------------|--------|----|-----|----------|----------|------|-------|
| Conductivity | 1,054  | 1  |     | umhos/cm | 1        |      |       |

Metals

Method: E200.8, Run Date: 11/12/24 16:41, 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 |       |
| Nickel, Dissolved   | Not detected | 0.005 |     | mg/L  | 5        | 7440-02-0 |       |
| Zinc, Dissolved     | 0.009        | 0.005 |     | mg/L  | 5        | 7440-66-6 |       |

Organics

Method: SW9020B, Run Date: 11/27/24 05:00, 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: S68320.06  
Sample Tag: B-7-20241105  
Collected Date/Time: 11/06/2024 14:40  
Matrix: Groundwater  
COC Reference: 176243

Sample Containers

| # | Type          | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|---------------|-----------------|---------------|-------------------|---------------|
| 2 | 40mL Glass    | H2SO4           | Yes           | 5.0               | IR            |
| 1 | 250mL Amber   | H2SO4           | Yes           | 5.0               | IR            |
| 1 | 125mL Plastic | HNO3            | Yes           | 5.0               | IR            |
| 1 | 500mL Plastic | None            | Yes           | 5.0               | IR            |

Extraction / Prep.

| Parameter       | Result    | Method  | Run Date       | Analyst | Flags |
|-----------------|-----------|---------|----------------|---------|-------|
| Metal Digestion | Completed | SW3015A | 11/12/24 15:30 | CCM     |       |
| Metal Digestion | Completed | SW3015A | 11/12/24 15:30 | CCM     |       |

Inorganics

Method: , Run Date: 11/21/24 19:27, Analyst: EF

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

Method: E120.1, Run Date: 11/14/24 14:08, Analyst: JKB

| Parameter    | Result | RL | MDL | Units    | Dilution | CAS# | Flags |
|--------------|--------|----|-----|----------|----------|------|-------|
| Conductivity | 1,095  | 1  |     | umhos/cm | 1        |      |       |

Metals

Method: E200.8, Run Date: 11/12/24 16:42, 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 |       |
| 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

Method: SW9020B, Run Date: 11/27/24 05:35, 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: S68320.07  
Sample Tag: GW-DUP-20241105  
Collected Date/Time: 11/06/2024 00:01  
Matrix: Groundwater  
COC Reference: 176243

Sample Containers

| # | Type          | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|---------------|-----------------|---------------|-------------------|---------------|
| 2 | 40mL Glass    | H2SO4           | Yes           | 5.0               | IR            |
| 1 | 250mL Amber   | H2SO4           | Yes           | 5.0               | IR            |
| 1 | 125mL Plastic | HNO3            | Yes           | 5.0               | IR            |
| 1 | 500mL Plastic | None            | Yes           | 5.0               | IR            |

Extraction / Prep.

| Parameter       | Result    | Method  | Run Date       | Analyst | Flags |
|-----------------|-----------|---------|----------------|---------|-------|
| Metal Digestion | Completed | SW3015A | 11/12/24 15:30 | CCM     |       |
| Metal Digestion | Completed | SW3015A | 11/12/24 15:30 | CCM     |       |

Inorganics

Method: , Run Date: 11/21/24 19:51, Analyst: EF

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

Method: E120.1, Run Date: 11/14/24 14:10, Analyst: JKB

| Parameter    | Result | RL | MDL | Units    | Dilution | CAS# | Flags |
|--------------|--------|----|-----|----------|----------|------|-------|
| Conductivity | 1,303  | 1  |     | umhos/cm | 1        |      |       |

Metals

Method: E200.8, Run Date: 11/12/24 16:42, 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 |       |
| Nickel, Dissolved   | Not detected | 0.005 |     | mg/L  | 5        | 7440-02-0 |       |
| Zinc, Dissolved     | 0.006        | 0.005 |     | mg/L  | 5        | 7440-66-6 |       |

Organics

Method: SW9020B, Run Date: 11/27/24 06:39, 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.

# Merit Laboratories Login Checklist

Lab Set ID:S68320

Client:RAMBOLL (Ramboll Americas)

Project: RACER Coldwater Road

Submitted: 11/07/2024 16:45 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                                                     |
|--------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <b>Sample Receiving</b>  |                                                                                                  |                                                          |
| 01.                      | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Samples are received at 4C +/- 2C Thermometer # IR 5.0   |
| 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   |
| <b>Chain of Custody</b>  |                                                                                                  |                                                          |
| 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? Subcontacted to: Eurofins and GEL |
| <b>Preservation</b>      |                                                                                                  |                                                          |
| 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?         |
| <b>Bottle Conditions</b> |                                                                                                  |                                                          |
| 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, TOX, DO or Alkalinity bottles contain      |

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: S68320      Submitted: 11/07/2024 16:45

Client: RAMBOLL (Ramboll Americas)

Project: RACER Coldwater Road

Attention: Clifford Yantz

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

Initial Preservation Check: 11/08/2024 10:01 PFD

Preservation Recheck (E200.8): N/A

Phone: 313-333-0211

FAX:

Email: Clifford.Yantz@ramboll.com

| Sample ID | Bottle / Preservation | pH (Orig) | Add ml | pH (New) | Notes |
|-----------|-----------------------|-----------|--------|----------|-------|
| S68320.01 | 125mL Plastic HNO3    | <2        |        |          |       |
| S68320.01 | 250mL Amber H2SO4     | <2        |        |          |       |
| S68320.02 | 125mL Plastic HNO3    | <2        |        |          |       |
| S68320.02 | 250mL Amber H2SO4     | <2        |        |          |       |
| S68320.03 | 125mL Plastic HNO3    | <2        |        |          |       |
| S68320.03 | 250mL Amber H2SO4     | <2        |        |          |       |
| S68320.04 | 125mL Plastic HNO3    | <2        |        |          |       |
| S68320.04 | 250mL Amber H2SO4     | <2        |        |          |       |
| S68320.05 | 125mL Plastic HNO3    | <2        |        |          |       |
| S68320.05 | 250mL Amber H2SO4     | <2        |        |          |       |
| S68320.06 | 125mL Plastic HNO3    | <2        |        |          |       |
| S68320.06 | 250mL Amber H2SO4     | <2        |        |          |       |
| S68320.07 | 125mL Plastic HNO3    | <2        |        |          |       |
| S68320.07 | 250mL Amber H2SO4     | <2        |        |          |       |



C.O.C. PAGE # 1 OF 1

176243

## REPORT TO

## CHAIN OF CUSTODY RECORD

**INVOICE TO**

|                                                                             |                          |                                                  |  |
|-----------------------------------------------------------------------------|--------------------------|--------------------------------------------------|--|
| CONTACT NAME<br>Clifford Yantz / Kevin Schneider                            |                          | CONTACT NAME<br>X SAME                           |  |
| COMPANY<br>Ramboll                                                          |                          | COMPANY                                          |  |
| ADDRESS<br>2090 Commonwealth Blvd                                           |                          | ADDRESS                                          |  |
| CITY<br>Ann Arbor                                                           | STATE<br>MI              | ZIP CODE<br>48105                                |  |
| PHONE NO.                                                                   | CELL NO.<br>313-333-0211 | P.O. NO.<br>1940008845 TASK 1                    |  |
| E-MAIL ADDRESS<br>Kevin.Schneider@Ramboll.com<br>Clifford.Yantz@Ramboll.com |                          | QUOTE NO.                                        |  |
|                                                                             |                          | ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED) |  |

|                          |                                                                                                                                                                                     |                                     |                     |  |  |  |  |  |  |  |                                                                           |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------|--|--|--|--|--|--|--|---------------------------------------------------------------------------|
| PROJECT NO./NAME         | RACER Coldwater Road                                                                                                                                                                | SAMPLER(S) - PLEASE PRINT/SIGN NAME | Kevin Schneider KSK |  |  |  |  |  |  |  | Certifications                                                            |
| TURNAROUND TIME REQUIRED | <input type="checkbox"/> 1 DAY <input type="checkbox"/> 2 DAYS <input type="checkbox"/> 3 DAYS <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> OTHER _____    |                                     |                     |  |  |  |  |  |  |  | <input type="checkbox"/> OHIO VAP <input type="checkbox"/> Drinking Water |
| DELIVERABLES REQUIRED    | <input checked="" type="checkbox"/> LEVEL II <input type="checkbox"/> LEVEL III <input type="checkbox"/> LEVEL IV <input type="checkbox"/> EDD <input type="checkbox"/> OTHER _____ |                                     |                     |  |  |  |  |  |  |  | <input type="checkbox"/> DoD <input type="checkbox"/> NPDES               |

|              |                      |                                     |                        |                   |                   |                      |                              |                                                                                         |
|--------------|----------------------|-------------------------------------|------------------------|-------------------|-------------------|----------------------|------------------------------|-----------------------------------------------------------------------------------------|
| MATRIX CODE: | W=WATER<br>SL=SLUDGE | GW=GROUNDWATER<br>DW=DRINKING WATER | WW=WASTEWATER<br>O=OIL | S=SOIL<br>WP=WIPE | L=LIQUID<br>A=AIR | SD=SOLID<br>WS=WASTE | # Containers & Preservatives | Project Locations<br><input type="checkbox"/> Detroit <input type="checkbox"/> New York |
|--------------|----------------------|-------------------------------------|------------------------|-------------------|-------------------|----------------------|------------------------------|-----------------------------------------------------------------------------------------|

| MERIT<br>LAB NO.<br><small>FOR LAB USE ONLY</small> | COLLECTION |      | SAMPLE TAG<br>IDENTIFICATION-DESCRIPTION | MATRIX | # OF<br>BOTTLES | NONE | HCl | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | MeOH | OTHER | DISS | TOC | SPEC | TOX |  |  |  |  |  |  | <input type="checkbox"/> Other _____<br>Special Instructions |                                                                              |
|-----------------------------------------------------|------------|------|------------------------------------------|--------|-----------------|------|-----|------------------|--------------------------------|------|------|-------|------|-----|------|-----|--|--|--|--|--|--|--------------------------------------------------------------|------------------------------------------------------------------------------|
|                                                     | DATE       | TIME |                                          |        |                 |      |     |                  |                                |      |      |       |      |     |      |     |  |  |  |  |  |  |                                                              |                                                                              |
| 68320.01                                            | 11/5/24    | 1250 | B-28-20241105                            | GW     | 5               | 1    |     | 1                | 3                              |      |      |       | X    | X   | X    | X   |  |  |  |  |  |  |                                                              | Dissolved Metals<br>were field filtered<br><br>Metals ARE:<br>Cr, Cu, Ni, Zn |
| .02                                                 | 11/6/24    | 1025 | B-19AR-20241106                          |        |                 |      |     |                  |                                |      |      |       | X    | X   | X    | X   |  |  |  |  |  |  |                                                              |                                                                              |
| .03                                                 | 11/6/24    | 1122 | B-9-20241106                             |        |                 |      |     |                  |                                |      |      |       | X    | X   | X    | X   |  |  |  |  |  |  |                                                              |                                                                              |
| .04                                                 | 11/6/24    | 1208 | B-24R-20241106                           |        |                 |      |     |                  |                                |      |      |       | X    | X   | X    | X   |  |  |  |  |  |  |                                                              |                                                                              |
| .05                                                 | 11/6/24    | 1325 | B-18A-20241106                           |        |                 |      |     |                  |                                |      |      |       | X    | X   | X    | X   |  |  |  |  |  |  |                                                              |                                                                              |
| .06                                                 | 11/6/24    | 1440 | B-7-20241106                             |        |                 |      |     |                  |                                |      |      |       | X    | X   | X    | X   |  |  |  |  |  |  |                                                              |                                                                              |
| .07                                                 | 11/6/24    | —    | GW-DUP-20241106                          |        |                 |      |     |                  |                                |      |      |       | X    | X   | X    | X   |  |  |  |  |  |  |                                                              |                                                                              |

|                                                                                                                                                                                                                                                                                                   |                                                                   |                                          |                                                                                                                                                                                                                                                                                          |                          |                          |                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|---------------------------------------|
| RELINQUISHED BY:<br>SIGNATURE/ORGANIZATION <i>[Signature]</i> <span style="float: right;"><input checked="" type="checkbox"/> Sampler</span><br>RECEIVED BY:<br>SIGNATURE/ORGANIZATION <i>[Signature]</i><br>RELINQUISHED BY:<br>SIGNATURE/ORGANIZATION<br>RECEIVED BY:<br>SIGNATURE/ORGANIZATION | DATE<br>11/7/24<br>DATE<br>11/7/24<br>DATE<br>11/7/24<br>DATE<br> | TIME<br>1641<br>TIME<br>1641<br>TIME<br> | RELINQUISHED BY:<br>SIGNATURE/ORGANIZATION<br>RECEIVED BY:<br>SIGNATURE/ORGANIZATION<br>SEAL NO.      SEAL INTACT<br>YES <input type="checkbox"/> NO <input type="checkbox"/> INITIALS<br>SEAL NO.      SEAL INTACT<br>YES <input type="checkbox"/> NO <input type="checkbox"/> INITIALS | DATE<br>DATE<br>DATE<br> | TIME<br>TIME<br>TIME<br> | NOTES:<br>TEMP. ON ARRIVAL <i>5.0</i> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|---------------------------------------|

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

Rev. 05/24

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Lab Results  
Merit Laboratories  
2680 E Lansing Drive  
East Lansing, Michigan 48823

Generated 11/22/2024 2:50:52 PM

## JOB DESCRIPTION

S68320 TOC

## JOB NUMBER

190-35728-1

# Eurofins Michigan

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

## Authorization



Generated  
11/22/2024 2:50:52 PM

Authorized for release by  
Sue Schafer, Project Manager II  
[Sue.Schafer@et.eurofinsus.com](mailto:Sue.Schafer@et.eurofinsus.com)  
(810)229-2763



# Table of Contents

|                                  |    |
|----------------------------------|----|
| Cover Page . . . . .             | 1  |
| Table of Contents . . . . .      | 3  |
| Sample Summary . . . . .         | 4  |
| Case Narrative . . . . .         | 5  |
| Client Sample Results . . . . .  | 6  |
| QC Sample Results . . . . .      | 8  |
| Definitions/Glossary . . . . .   | 9  |
| QC Association Summary . . . . . | 10 |
| Lab Chronicle . . . . .          | 11 |
| Certification Summary . . . . .  | 13 |
| Method Summary . . . . .         | 14 |
| Chain of Custody . . . . .       | 15 |

## Sample Summary

Client: Merit Laboratories  
Project/Site: S68320 TOC

Job ID: 190-35728-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 190-35728-1   | S68320.01        | Water  | 11/05/24 12:50 | 11/11/24 12:21 |
| 190-35728-2   | S68320.02        | Water  | 11/06/24 10:25 | 11/11/24 12:21 |
| 190-35728-3   | S68320.03        | Water  | 11/06/24 11:22 | 11/11/24 12:21 |
| 190-35728-4   | S68320.04        | Water  | 11/06/24 12:08 | 11/11/24 12:21 |
| 190-35728-5   | S68320.05        | Water  | 11/06/24 13:25 | 11/11/24 12:21 |
| 190-35728-6   | S68320.06        | Water  | 11/06/24 14:40 | 11/11/24 12:21 |
| 190-35728-7   | S68320.07        | Water  | 11/06/24 00:01 | 11/11/24 12:21 |

## Case Narrative

Client: Merit Laboratories  
Project: S68320 TOC

Job ID: 190-35728-1

**Job ID: 190-35728-1**

**Eurofins Michigan**

### **Job Narrative 190-35728-1**

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 11/11/2024 12:21 PM. 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 6.0°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: S68320 TOC

Job ID: 190-35728-1

**Client Sample ID: S68320.01**

**Lab Sample ID: 190-35728-1**

Date Collected: 11/05/24 12:50

Matrix: Water

Date Received: 11/11/24 12:21

## General Chemistry

| Analyte                              | Result | Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|-----|------|---|----------|----------------|---------|
| Total Organic Carbon (SM 5310C-2011) | 1.3    |           | 1.0 | mg/L |   |          | 11/21/24 01:30 | 1       |

**Client Sample ID: S68320.02**

**Lab Sample ID: 190-35728-2**

Date Collected: 11/06/24 10:25

Matrix: Water

Date Received: 11/11/24 12:21

## General Chemistry

| Analyte                              | Result | Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|-----|------|---|----------|----------------|---------|
| Total Organic Carbon (SM 5310C-2011) | 1.3    |           | 1.0 | mg/L |   |          | 11/21/24 01:55 | 1       |

**Client Sample ID: S68320.03**

**Lab Sample ID: 190-35728-3**

Date Collected: 11/06/24 11:22

Matrix: Water

Date Received: 11/11/24 12:21

## General Chemistry

| Analyte                              | Result | Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|-----|------|---|----------|----------------|---------|
| Total Organic Carbon (SM 5310C-2011) | 1.7    |           | 1.0 | mg/L |   |          | 11/21/24 02:19 | 1       |

**Client Sample ID: S68320.04**

**Lab Sample ID: 190-35728-4**

Date Collected: 11/06/24 12:08

Matrix: Water

Date Received: 11/11/24 12:21

## General Chemistry

| Analyte                              | Result | Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|-----|------|---|----------|----------------|---------|
| Total Organic Carbon (SM 5310C-2011) | 2.7    |           | 1.0 | mg/L |   |          | 11/21/24 18:37 | 1       |

**Client Sample ID: S68320.05**

**Lab Sample ID: 190-35728-5**

Date Collected: 11/06/24 13:25

Matrix: Water

Date Received: 11/11/24 12:21

## General Chemistry

| Analyte                              | Result | Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|-----|------|---|----------|----------------|---------|
| Total Organic Carbon (SM 5310C-2011) | 1.0    |           | 1.0 | mg/L |   |          | 11/21/24 19:02 | 1       |

**Client Sample ID: S68320.06**

**Lab Sample ID: 190-35728-6**

Date Collected: 11/06/24 14:40

Matrix: Water

Date Received: 11/11/24 12:21

## General Chemistry

| Analyte                              | Result | Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|-----|------|---|----------|----------------|---------|
| Total Organic Carbon (SM 5310C-2011) | 3.9    |           | 1.0 | mg/L |   |          | 11/21/24 19:27 | 1       |

Eurofins Michigan

Client Sample Results

Client: Merit Laboratories  
Project/Site: S68320 TOC

Job ID: 190-35728-1

Client Sample ID: S68320.07

Lab Sample ID: 190-35728-7

Date Collected: 11/06/24 00:01

Matrix: Water

Date Received: 11/11/24 12:21

| General Chemistry                    |        |           |     |      |   |          |                |     |     |
|--------------------------------------|--------|-----------|-----|------|---|----------|----------------|-----|-----|
| Analyte                              | Result | Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil | Fac |
| Total Organic Carbon (SM 5310C-2011) | 2.9    |           | 1.0 | mg/L |   |          | 11/21/24 19:51 | 1   |     |

# QC Sample Results

Client: Merit Laboratories  
Project/Site: S68320 TOC

Job ID: 190-35728-1

## Method: 5310C-2011 - Total Organic Carbon/Persulfate - Ultrav

Lab Sample ID: MB 240-636239/28

Matrix: Water

Analysis Batch: 636239

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte              | MB<br>Result | MB<br>Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------------|-----------------|-----|------|---|----------|----------------|---------|
| Total Organic Carbon | <1.0         |                 | 1.0 | mg/L |   |          | 11/20/24 13:35 | 1       |

Lab Sample ID: MB 240-636239/5

Matrix: Water

Analysis Batch: 636239

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte              | MB<br>Result | MB<br>Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------------|-----------------|-----|------|---|----------|----------------|---------|
| Total Organic Carbon | <1.0         |                 | 1.0 | mg/L |   |          | 11/19/24 19:11 | 1       |

Lab Sample ID: LCS 240-636239/44

Matrix: Water

Analysis Batch: 636239

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte              | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|----------------------|----------------|---------------|------------------|------|---|------|----------------|
| Total Organic Carbon | 26.6           | 27.6          |                  | mg/L |   | 104  | 85 - 115       |
| TOC Result 1         | 26.6           | 27.8          |                  | mg/L |   | 104  | 85 - 115       |
| TOC Result 2         | 26.6           | 27.4          |                  | mg/L |   | 103  | 85 - 115       |

Lab Sample ID: LCS 240-636239/6

Matrix: Water

Analysis Batch: 636239

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte              | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|----------------------|----------------|---------------|------------------|------|---|------|----------------|
| Total Organic Carbon | 26.6           | 26.3          |                  | mg/L |   | 99   | 85 - 115       |
| TOC Result 1         | 26.6           | 26.3          |                  | mg/L |   | 99   | 85 - 115       |
| TOC Result 2         | 26.6           | 26.1          |                  | mg/L |   | 98   | 85 - 115       |

Lab Sample ID: MB 240-636417/5

Matrix: Water

Analysis Batch: 636417

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte              | MB<br>Result | MB<br>Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------------|-----------------|-----|------|---|----------|----------------|---------|
| Total Organic Carbon | <1.0         |                 | 1.0 | mg/L |   |          | 11/21/24 16:35 | 1       |

Lab Sample ID: LCS 240-636417/6

Matrix: Water

Analysis Batch: 636417

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte              | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|----------------------|----------------|---------------|------------------|------|---|------|----------------|
| Total Organic Carbon | 26.6           | 27.0          |                  | mg/L |   | 101  | 85 - 115       |
| TOC Result 1         | 26.6           | 26.9          |                  | mg/L |   | 101  | 85 - 115       |
| TOC Result 2         | 26.6           | 26.9          |                  | mg/L |   | 101  | 85 - 115       |

## Definitions/Glossary

Client: Merit Laboratories  
Project/Site: S68320 TOC

Job ID: 190-35728-1

### 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: S68320 TOC

Job ID: 190-35728-1

### General Chemistry

#### Analysis Batch: 636239

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method     | Prep Batch |
|-------------------|--------------------|-----------|--------|------------|------------|
| 190-35728-1       | S68320.01          | Total/NA  | Water  | 5310C-2011 |            |
| 190-35728-2       | S68320.02          | Total/NA  | Water  | 5310C-2011 |            |
| 190-35728-3       | S68320.03          | Total/NA  | Water  | 5310C-2011 |            |
| MB 240-636239/28  | Method Blank       | Total/NA  | Water  | 5310C-2011 |            |
| MB 240-636239/5   | Method Blank       | Total/NA  | Water  | 5310C-2011 |            |
| LCS 240-636239/44 | Lab Control Sample | Total/NA  | Water  | 5310C-2011 |            |
| LCS 240-636239/6  | Lab Control Sample | Total/NA  | Water  | 5310C-2011 |            |

#### Analysis Batch: 636417

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method     | Prep Batch |
|------------------|--------------------|-----------|--------|------------|------------|
| 190-35728-4      | S68320.04          | Total/NA  | Water  | 5310C-2011 |            |
| 190-35728-5      | S68320.05          | Total/NA  | Water  | 5310C-2011 |            |
| 190-35728-6      | S68320.06          | Total/NA  | Water  | 5310C-2011 |            |
| 190-35728-7      | S68320.07          | Total/NA  | Water  | 5310C-2011 |            |
| MB 240-636417/5  | Method Blank       | Total/NA  | Water  | 5310C-2011 |            |
| LCS 240-636417/6 | Lab Control Sample | Total/NA  | Water  | 5310C-2011 |            |

# Lab Chronicle

Client: Merit Laboratories  
Project/Site: S68320 TOC

Job ID: 190-35728-1

**Client Sample ID: S68320.01**

**Lab Sample ID: 190-35728-1**

Date Collected: 11/05/24 12:50

Matrix: Water

Date Received: 11/11/24 12:21

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 5310C-2011   |     | 1               | 636239       | JWW     | EET CLE | 11/21/24 01:30       |

**Client Sample ID: S68320.02**

**Lab Sample ID: 190-35728-2**

Date Collected: 11/06/24 10:25

Matrix: Water

Date Received: 11/11/24 12:21

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 5310C-2011   |     | 1               | 636239       | JWW     | EET CLE | 11/21/24 01:55       |

**Client Sample ID: S68320.03**

**Lab Sample ID: 190-35728-3**

Date Collected: 11/06/24 11:22

Matrix: Water

Date Received: 11/11/24 12:21

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 5310C-2011   |     | 1               | 636239       | JWW     | EET CLE | 11/21/24 02:19       |

**Client Sample ID: S68320.04**

**Lab Sample ID: 190-35728-4**

Date Collected: 11/06/24 12:08

Matrix: Water

Date Received: 11/11/24 12:21

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 5310C-2011   |     | 1               | 636417       | JWW     | EET CLE | 11/21/24 18:37       |

**Client Sample ID: S68320.05**

**Lab Sample ID: 190-35728-5**

Date Collected: 11/06/24 13:25

Matrix: Water

Date Received: 11/11/24 12:21

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 5310C-2011   |     | 1               | 636417       | JWW     | EET CLE | 11/21/24 19:02       |

**Client Sample ID: S68320.06**

**Lab Sample ID: 190-35728-6**

Date Collected: 11/06/24 14:40

Matrix: Water

Date Received: 11/11/24 12:21

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 5310C-2011   |     | 1               | 636417       | JWW     | EET CLE | 11/21/24 19:27       |

**Client Sample ID: S68320.07**

**Lab Sample ID: 190-35728-7**

Date Collected: 11/06/24 00:01

Matrix: Water

Date Received: 11/11/24 12:21

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 5310C-2011   |     | 1               | 636417       | JWW     | EET CLE | 11/21/24 19:51       |

Eurofins Michigan

# Lab Chronicle

Client: Merit Laboratories  
Project/Site: S68320 TOC

Job ID: 190-35728-1

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 240-636239/28**

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               | 636239       | JWW     | EET CLE | 11/20/24 13:35       |

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 240-636239/5**

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               | 636239       | JWW     | EET CLE | 11/19/24 19:11       |

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 240-636417/5**

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               | 636417       | JWW     | EET CLE | 11/21/24 16:35       |

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 240-636239/44**

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               | 636239       | JWW     | EET CLE | 11/20/24 20:32       |

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 240-636239/6**

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               | 636239       | JWW     | EET CLE | 11/19/24 19:35       |

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 240-636417/6**

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               | 636417       | JWW     | EET CLE | 11/21/24 16:59       |

## 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

JWW = Joshua Weimer

Eurofins Michigan

## Accreditation/Certification Summary

Client: Merit Laboratories  
Project/Site: S68320 TOC

Job ID: 190-35728-1

### 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        |
| Connecticut       | State               | PH-0806               | 12-31-26        |
| Georgia           | State               | 4062                  | 02-27-25        |
| Illinois          | NELAP               | 200004                | 08-31-25        |
| 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 Hampshire     | NELAP               | 225024                | 09-30-25        |
| New Jersey        | NELAP               | OH001                 | 07-03-25        |
| 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              | 08-31-25        |
| Texas             | NELAP               | T104704517-22-19      | 08-31-25        |
| USDA              | US Federal Programs | P330-18-00281         | 01-05-27        |
| Virginia          | NELAP               | 460175                | 09-14-25        |
| West Virginia DEP | State               | 210                   | 12-31-24        |

# Method Summary

Client: Merit Laboratories  
Project/Site: S68320 TOC

Job ID: 190-35728-1

| 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

|    |
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| 12 |



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

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



Environment Testing  
TestAmerica

☐ 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: SP Date: 11/11 Time: 12:20

Client ID: Ment Laboratory

Work Order #: 35728

### 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 / 3<sup>rd</sup> Party Courier: \_\_\_\_\_

Fed Ex Tracking #: \_\_\_\_\_

UPS Tracking #: \_\_\_\_\_

Other: \_\_\_\_\_

#### Shipping Container Type:

☒ Cooler ☐ Box

☐ None ☐ Other: \_\_\_\_\_

#### 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<br>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 |
|-----------------|---------------|----------------|------------|-------------|-------------------|-----------|------------------|
| <u>CP313207</u> | <u>6.0</u>    | <u>6.0</u>     |            |             | <u>Y</u> <u>N</u> |           |                  |
|                 |               |                |            |             | <u>Y</u> <u>N</u> |           |                  |
|                 |               |                |            |             | <u>Y</u> <u>N</u> |           |                  |

| Receipt Questions**                                                                                                                                                                                       | Y                                   | N                                   | NA                                  | "No" answers require additional comment   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------------|
| CoC present and ETA receipt signature, date, and time properly documented?                                                                                                                                | <input checked="" type="checkbox"/> |                                     |                                     |                                           |
| Containers and Labels in good condition? (unbroken, not leaking, appropriately filled, labels legible & attached)                                                                                         | <input checked="" type="checkbox"/> |                                     |                                     |                                           |
| Appropriate containers used and adequate volume provided?                                                                                                                                                 | <input checked="" type="checkbox"/> |                                     |                                     | Preserved bottles checked for pH?* Yes No |
| Number of sample containers match CoC?                                                                                                                                                                    | <input checked="" type="checkbox"/> |                                     |                                     | pH strip lot # _____                      |
| Samples received within hold?                                                                                                                                                                             |                                     |                                     | <input checked="" type="checkbox"/> |                                           |
| Samples submitted for GRO and Volatiles analysis (8260, 624, 524) received without headspace?                                                                                                             | <input checked="" type="checkbox"/> |                                     |                                     |                                           |
| Was a Trip Blank received with VOA samples?                                                                                                                                                               |                                     | <input checked="" type="checkbox"/> |                                     |                                           |
| 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.) | <input checked="" type="checkbox"/> |                                     |                                     |                                           |
| 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?                                          | <input checked="" type="checkbox"/> |                                     |                                     |                                           |
| **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 [Signature] Date: 11/11/24

WI-MI-010\_020720

## Chain of Custody Record



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                |               |                                                                               |                                                          |                             |  |                     |  |                                                                                                                                      |  |  |  |  |                        |  |  |   |  |                          |  |  |  |  |               |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------|---------------|-------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------|--|---------------------|--|--------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|------------------------|--|--|---|--|--------------------------|--|--|--|--|---------------|--|--|--|--|
| <b>Client Information (Sub Contract Lab)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | Sampler: N/A                   |               | Lab PM: Schafer, Sue                                                          |                                                          | Carrier Tracking No(s): N/A |  | COC No: 190-40679.1 |  |                                                                                                                                      |  |  |  |  |                        |  |  |   |  |                          |  |  |  |  |               |  |  |  |  |
| Client Contact: Shipping/Receiving                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | Phone: N/A                     |               | 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): N/A                                       |                                                          |                             |  | Job #: 190-35728-1  |  |                                                                                                                                      |  |  |  |  |                        |  |  |   |  |                          |  |  |  |  |               |  |  |  |  |
| Address: 180 S. Van Buren Avenue,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | Due Date Requested: 11/25/2024 |               | Analysis Requested                                                            |                                                          |                             |  | Preservation Codes: |  |                                                                                                                                      |  |  |  |  |                        |  |  |   |  |                          |  |  |  |  |               |  |  |  |  |
| City: Barberton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | TAT Requested (days): N/A      |               |                                                                               |                                                          |                             |  |                     |  |                                                                                                                                      |  |  |  |  |                        |  |  |   |  |                          |  |  |  |  |               |  |  |  |  |
| State, Zip: OH, 44203                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | PO #: N/A                      |               | Field Filtered Sample (Yes or No)<br>Perform MS/MSD (Yes or No)<br>5310C/ TOC |                                                          | Total Number of containers  |  | Other: N/A          |  |                                                                                                                                      |  |  |  |  |                        |  |  |   |  |                          |  |  |  |  |               |  |  |  |  |
| Phone: 330-497-9396(Tel) 330-497-0772(Fax)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | WO #: N/A                      |               |                                                                               |                                                          |                             |  |                     |  |                                                                                                                                      |  |  |  |  |                        |  |  |   |  |                          |  |  |  |  |               |  |  |  |  |
| Email: N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | Project #: 19001249            |               |                                                                               |                                                          |                             |  |                     |  |                                                                                                                                      |  |  |  |  |                        |  |  |   |  |                          |  |  |  |  |               |  |  |  |  |
| Project Name: S68320                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | SSOW#: N/A                     |               |                                                                               |                                                          |                             |  |                     |  |                                                                                                                                      |  |  |  |  |                        |  |  |   |  |                          |  |  |  |  |               |  |  |  |  |
| Site: N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                |               |                                                                               |                                                          |                             |  |                     |  |                                                                                                                                      |  |  |  |  |                        |  |  |   |  |                          |  |  |  |  |               |  |  |  |  |
| Sample Identification - Client ID (Lab ID)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | Sample Date                    | Sample Time   | Sample Type (C=comp, G=grab)                                                  | Matrix (W=water, S=solid, O=waste/oil, B=biomass, A=air) |                             |  |                     |  | Special Instructions/Note:                                                                                                           |  |  |  |  |                        |  |  |   |  |                          |  |  |  |  |               |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                |               | Preservation Code:                                                            |                                                          |                             |  |                     |  |                                                                                                                                      |  |  |  |  |                        |  |  |   |  |                          |  |  |  |  |               |  |  |  |  |
| S68320.01 (190-35728-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 11/5/24                        | 12:50 Eastern | G                                                                             | Water                                                    |                             |  | X                   |  |                                                                                                                                      |  |  |  |  |                        |  |  | 2 |  |                          |  |  |  |  |               |  |  |  |  |
| S68320.02 (190-35728-2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 11/6/24                        | 10:25 Eastern | G                                                                             | Water                                                    |                             |  | X                   |  |                                                                                                                                      |  |  |  |  |                        |  |  | 2 |  |                          |  |  |  |  |               |  |  |  |  |
| S68320.03 (190-35728-3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 11/6/24                        | 11:22 Eastern | G                                                                             | Water                                                    |                             |  | X                   |  |                                                                                                                                      |  |  |  |  |                        |  |  | 2 |  |                          |  |  |  |  |               |  |  |  |  |
| S68320.04 (190-35728-4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 11/6/24                        | 12:08 Eastern | G                                                                             | Water                                                    |                             |  | X                   |  |                                                                                                                                      |  |  |  |  |                        |  |  | 2 |  |                          |  |  |  |  |               |  |  |  |  |
| S68320.05 (190-35728-5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 11/6/24                        | 13:25 Eastern | G                                                                             | Water                                                    |                             |  | X                   |  |                                                                                                                                      |  |  |  |  |                        |  |  | 2 |  |                          |  |  |  |  |               |  |  |  |  |
| S68320.06 (190-35728-6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 11/6/24                        | 14:40 Eastern | G                                                                             | Water                                                    |                             |  | X                   |  |                                                                                                                                      |  |  |  |  |                        |  |  | 2 |  |                          |  |  |  |  |               |  |  |  |  |
| S68320.07 (190-35728-7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 11/6/24                        | 00:01 Eastern | G                                                                             | Water                                                    |                             |  | X                   |  |                                                                                                                                      |  |  |  |  |                        |  |  | 2 |  |                          |  |  |  |  |               |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                |               |                                                                               |                                                          |                             |  |                     |  |                                                                                                                                      |  |  |  |  |                        |  |  |   |  |                          |  |  |  |  |               |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                |               |                                                                               |                                                          |                             |  |                     |  |                                                                                                                                      |  |  |  |  |                        |  |  |   |  |                          |  |  |  |  |               |  |  |  |  |
| <p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte &amp; 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> |  |                                |               |                                                                               |                                                          |                             |  |                     |  |                                                                                                                                      |  |  |  |  |                        |  |  |   |  |                          |  |  |  |  |               |  |  |  |  |
| <b>Possible Hazard Identification</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                |               |                                                                               |                                                          |                             |  |                     |  | <b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>                                          |  |  |  |  |                        |  |  |   |  |                          |  |  |  |  |               |  |  |  |  |
| 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>Upde Vayron</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                |               |                                                                               | Date/Time: 11/11/24 12:50                                |                             |  |                     |  | Company: EETA                                                                                                                        |  |  |  |  | Received by: <i>JS</i> |  |  |   |  | Date/Time: 11/12/24 9/10 |  |  |  |  | Company: Euro |  |  |  |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                |               |                                                                               | Date/Time:                                               |                             |  |                     |  | Company:                                                                                                                             |  |  |  |  | Received by:           |  |  |   |  | Date/Time:               |  |  |  |  | Company:      |  |  |  |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                |               |                                                                               | Date/Time:                                               |                             |  |                     |  | Company:                                                                                                                             |  |  |  |  | Received by:           |  |  |   |  | Date/Time:               |  |  |  |  | Company:      |  |  |  |  |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                |               |                                                                               | Custody Seal No.:                                        |                             |  |                     |  | Cooler Temperature(s) °C and Other Remarks:                                                                                          |  |  |  |  |                        |  |  |   |  |                          |  |  |  |  |               |  |  |  |  |

Eurofins - Cleveland Sample Receipt Form/Narrative  
Barberton Facility

LogIn # \_\_\_\_\_

Client Interlab MT

Site Name \_\_\_\_\_

Cooler unpacked by: TF

Cooler Received on 11/12/24

Opened on 11/12/24

FedEx: 1<sup>st</sup> 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 \_\_\_\_\_

Wet Ice

Blue Ice

Dry Ice

Water

None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 17

(CF 10.1 °C)

Observed Cooler Temp. 2.2 °C

Corrected Cooler Temp. 2.3 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1

-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)

-Were tamper/custody seals intact and uncompromised?

Yes No (NA)

3 Shippers' packing slip attached to the cooler(s)?

(Yes) No (Yes)

4. Did custody papers accompany the sample(s)?

(Yes) No (Yes)

5 Were the custody papers relinquished & signed in the appropriate place?

Yes (Yes) No (No)

6. Was/were the person(s) who collected the samples clearly identified on the COC?

Yes (Yes) No (No)

7 Did all bottles arrive in good condition (Unbroken)?

(Yes) No (Yes)

8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?

(Yes) No (Yes)

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 (Yes)

10 Were correct bottle(s) used for the test(s) indicated?

(Yes) No (Yes)

11 Sufficient quantity received to perform indicated analyses?

(Yes) No (Yes)

12. Are these work share samples and all listed on the COC?

(Yes) No (Yes)

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# HC448976

14 Were VOAs on the COC?

Yes No

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

17 Was a LL Hg or Me Hg trip blank present? \_\_\_\_\_

Yes No

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) \_\_\_\_\_

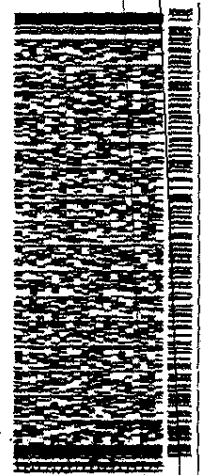
VOA Sample Preservation - Date/Time VOAs Frozen \_\_\_\_\_

UNITED STATES  
TO: EUROFINS BARBERTON  
EUROFINS BARBERTON  
180 S. VAN BUREN AVENUE

BARBERTON OH 44203  
CSD 487-4388  
FBI

1030323237066

Part # 159468-434 MTW EXP 10/25

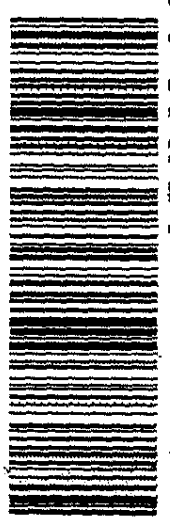


TRK# 7798 7506 7301  
PDI

TUE - 12 NOV 10:30A  
PRIORITY OVERNIGHT

64 CAKA

44203  
OH-US  
CLE



November 27, 2024

John Laverty  
Merit Laboratories Inc.  
2680 East Lansing Drive  
East Lansing, Michigan 48823

Re: Halogen Analysis  
Work Order: 695246  
SDG: S68320

Dear John Laverty:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on November 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](https://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,



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: S68320 GEL Work Order: 695246

**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: November 27, 2024

Company : Merit Laboratories Inc.  
Address : 2680 East Lansing Drive

East Lansing, Michigan 48823  
Contact: John Lavery  
Project: Halogen Analysis

Client Sample ID: S68320.01 Project: MERI00220  
Sample ID: 695246001 Client ID: MERI001  
Matrix: Ground Water  
Collect Date: 05-NOV-24 12:50  
Receive Date: 12-NOV-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     | 11/27/24 | 0111 | 2712588 | 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: November 27, 2024

Company : Merit Laboratories Inc.  
Address : 2680 East Lansing Drive

East Lansing, Michigan 48823  
Contact: John Lavery  
Project: Halogen Analysis

Client Sample ID: S68320.02 Project: MERI00220  
Sample ID: 695246002 Client ID: MERI001  
Matrix: Ground Water  
Collect Date: 06-NOV-24 10:25  
Receive Date: 12-NOV-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                      |           | 340    | 16.7 | 50.0 | ug/L  |    | 5  | RMJ     | 11/27/24 | 0709 | 2712588 | 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: November 27, 2024

Company : Merit Laboratories Inc.  
Address : 2680 East Lansing Drive

East Lansing, Michigan 48823  
Contact: John Lavery  
Project: Halogen Analysis

Client Sample ID: S68320.03 Project: MERI00220  
Sample ID: 695246003 Client ID: MERI001  
Matrix: Ground Water  
Collect Date: 06-NOV-24 11:22  
Receive Date: 12-NOV-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                      |           | 57.5   | 3.33 | 10.0 | ug/L  |    | 1  | RMJ     | 11/27/24 | 0209 | 2712588 | 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: November 27, 2024

Company : Merit Laboratories Inc.  
Address : 2680 East Lansing Drive

Contact: East Lansing, Michigan 48823  
Project: John Lavery  
Project: Halogen Analysis

Client Sample ID: S68320.04 Project: MERI00220  
Sample ID: 695246004 Client ID: MERI001  
Matrix: Ground Water  
Collect Date: 06-NOV-24 12:08  
Receive Date: 12-NOV-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         | 4.12   | 3.33 | 10.0 | ug/L  |    | 1  | RMJ     | 11/27/24 | 0740 | 2712588 | 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: November 27, 2024

Company : Merit Laboratories Inc.  
Address : 2680 East Lansing Drive

Contact: East Lansing, Michigan 48823  
Project: John Lavery  
Project: Halogen Analysis

Client Sample ID: S68320.05 Project: MERI00220  
Sample ID: 695246005 Client ID: MERI001  
Matrix: Ground Water  
Collect Date: 06-NOV-24 13:25  
Receive Date: 12-NOV-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         | 4.06   | 3.33 | 10.0 | ug/L  |    | 1  | RMJ     | 11/27/24 | 0500 | 2712588 | 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: November 27, 2024

Company : Merit Laboratories Inc.  
Address : 2680 East Lansing Drive

East Lansing, Michigan 48823  
Contact: John Lavery  
Project: Halogen Analysis

Client Sample ID: S68320.06 Project: MERI00220  
Sample ID: 695246006 Client ID: MERI001  
Matrix: Ground Water  
Collect Date: 06-NOV-24 14:40  
Receive Date: 12-NOV-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                      |           | 18.8   | 3.33 | 10.0 | ug/L  |    | 1  | RMJ     | 11/27/24 | 0535 | 2712588 | 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: November 27, 2024

Company : Merit Laboratories Inc.  
Address : 2680 East Lansing Drive

Contact: East Lansing, Michigan 48823  
Project: John Lavery  
Project: Halogen Analysis

Client Sample ID: S68320.07 Project: MERI00220  
Sample ID: 695246007 Client ID: MERI001  
Matrix: Ground Water  
Collect Date: 06-NOV-24 00:01  
Receive Date: 12-NOV-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                      |           | 17.0   | 3.33 | 10.0 | ug/L  |    | 1  | RMJ     | 11/27/24 | 0639 | 2712588 | 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: November 27, 2024

Page 1 of 2

Merit Laboratories Inc.  
2680 East Lansing Drive  
East Lansing, Michigan

Contact: John Lavery

Workorder: 695246

| Parmname                | NOM       | Sample | Qual | QC   | Units | RPD/D% | REC% | Range            | Anlst | Date     | Time  |
|-------------------------|-----------|--------|------|------|-------|--------|------|------------------|-------|----------|-------|
| <b>Halogen Analysis</b> |           |        |      |      |       |        |      |                  |       |          |       |
| Batch                   | 2712588   |        |      |      |       |        |      |                  |       |          |       |
| QC1205933016            | 695246003 | DUP    |      |      |       |        |      |                  |       |          |       |
| Total Organic Halogens  |           | 57.5   |      | 38.7 | ug/L  | 39.1   | *^   | (+/-10.0)        | RMJ   | 11/27/24 | 02:24 |
| QC1205933015            | LCS       |        |      |      |       |        |      |                  |       |          |       |
| Total Organic Halogens  | 100       |        |      | 100  | ug/L  |        |      | (73%-117%)       |       | 11/27/24 | 00:38 |
| QC1205933014            | MB        |        |      |      |       |        |      |                  |       |          |       |
| Total Organic Halogens  |           |        | U    | ND   | ug/L  |        |      |                  |       | 11/27/24 | 00:18 |
| QC1205933017            | 695246003 | MS     |      |      |       |        |      |                  |       |          |       |
| Total Organic Halogens  | 100       | 57.5   |      | 101  | ug/L  |        |      | 43.6* (55%-128%) |       | 11/27/24 | 02:38 |

### 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

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Workorder: 695246

Page 2 of 2

| Parmname | NOM                                                                                                                                                               | Sample | Qual | QC | Units | RPD/D% | REC% | Range | Anlst | Date | Time |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|----|-------|--------|------|-------|-------|------|------|
| N1       | 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 #: S68320  
Work Order #: 695246**

**Product:** Total Organic Halogens (TOX)

**Analytical Method:** SW846 9020B

**Analytical Procedure:** GL-GC-E-007 REV# 17

**Analytical Batch:** 2712588

The following samples were analyzed using the above methods and analytical procedure(s).

| <b><u>GEL Sample ID#</u></b> | <b><u>Client Sample Identification</u></b>  |
|------------------------------|---------------------------------------------|
| 695246001                    | S68320.01                                   |
| 695246002                    | S68320.02                                   |
| 695246003                    | S68320.03                                   |
| 695246004                    | S68320.04                                   |
| 695246005                    | S68320.05                                   |
| 695246006                    | S68320.06                                   |
| 695246007                    | S68320.07                                   |
| 1205933014                   | Method Blank (MB)                           |
| 1205933015                   | Laboratory Control Sample (LCS)             |
| 1205933016                   | 695246003(S68320.03) Sample Duplicate (DUP) |
| 1205933017                   | 695246003(S68320.03) 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.

**Quality Control (QC) Information**

**Matrix Spike (MS)/Post Spike (PS) Recovery Statement**

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity. 1205933017 (S68320.03MS).

**Duplicate Relative Percent Difference (RPD) Statement**

The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

| Analyte                | Sample                    | Value                          |
|------------------------|---------------------------|--------------------------------|
| Total Organic Halogens | 1205933016 (S68320.03DUP) | abs(38.7 - 57.5)* (+/-10 ug/L) |

**Technical Information**

**Sample Dilutions**

The following sample 695246002 (S68320.02) was diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring

over range target analyte concentrations into the linear calibration range.

|                        |               |
|------------------------|---------------|
| Analyte                | <b>695246</b> |
|                        | <b>002</b>    |
| Total Organic Halogens | 5X            |

### **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.

095246



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

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

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517-332-0167

E-MAIL ADDRESS  
juliet@meritlabs.com

PROJECT NO./NAME  
S68320

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  
SL=SLUDGE  
WW=WASTEWATER  
S=SOIL  
O=OIL  
WP=WPE  
A=AIR

SD=SOLID  
L=LIQUID  
W=WASTE

YEAR

DATE

TIME

IDENTIFICATION-DESCRIPTION

MATRIX

DO

BOTTLES

NONE

OH

CH

H<sub>2</sub>SO<sub>4</sub>

H<sub>2</sub>O

NaOH

KOH

OTHER

# Containers & Preservatives

RELINQUISHED BY:

SIGNATURE/ORGANIZATION

DATE

TIME

RECEIVED BY:

SIGNATURE/ORGANIZATION

DATE

TIME

RELINQUISHED BY:

SIGNATURE/ORGANIZATION

DATE

TIME

RECEIVED BY:

SIGNATURE/ORGANIZATION

DATE

TIME

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

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

Page 14 of 16 SDG: S68320

## SAMPLE RECEIPT &amp; REVIEW FORM

|                                                                            |                                                                                |                                                                                                                                         |                                     |            |                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Client: <b>NERI</b>                                                        |                                                                                | SDG/AR/COC/Work Order: <b>095246</b>                                                                                                    |                                     | <b>DS.</b> |                                                                                                                                                                                                                                                                                                                   |
| Received By: <b>Thyasia Tatum</b>                                          |                                                                                | Date Received: <b>11-12-24</b>                                                                                                          |                                     |            |                                                                                                                                                                                                                                                                                                                   |
| Carrier and Tracking Number                                                |                                                                                | FedEx Express    FedEx Ground <u>UPS</u> Field Services    Courier    Other<br><b>1Z 400 477 15 0255 3028</b>                           |                                     |            |                                                                                                                                                                                                                                                                                                                   |
| Suspected Hazard Information                                               | Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> | *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#: _____<br>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<br>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.<br>PCB's    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"/> |            | 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:<br>*all temperatures are recorded in Celsius    TEMP: <u>1°C</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><br>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:<br>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)<br>Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)<br>Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___<br>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)<br><b>Received 1 Sample Per ID. COC has 2.</b>                                                                                                                                                                                                |
| 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 11/13/24 Page 1 of 1

**List of current GEL Certifications as of 27 November 2024**

| <b>State</b>              | <b>Certification</b>         |
|---------------------------|------------------------------|
| 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                    | NV-C24-00175                 |
| 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                | SC000122024-43               |
| Vermont                   | VT87156                      |
| Virginia NELAP            | 460202                       |
| Washington                | C780                         |



# Quality Control Report

Report ID: QC-S68320-01  
Generated on 12/02/2024

## Report to

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

Phone: 313-333-0211 FAX:

## Report Produced by

Merit Laboratories  
2680 East Lansing Drive  
East Lansing, MI 48823

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

## Report Summary

Lab Sample ID(s): S68320.01-S68320.07  
Project: RACER Coldwater Road  
Submitted Date/Time: 11/07/2024 16:45  
Sampled by: Kevin Schneider  
P.O. #: 1940008845 TASK 001

## QC Report Sections

Cover Page (Page 1)  
Analysis Summary (Pages 2-8)  
Prep Batch Summary (Page 9)  
Batch QC Results (Pages 10-12)

## 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: S68320.01  
Sample Tag: B-28-20241105  
Collected Date/Time: 11/05/2024 12:50  
Matrix: Groundwater  
COC Reference: 176243

| Analysis            | Method | Run Date/Time  | Batch ID       | Prep ID        | Surr | QC Types       |
|---------------------|--------|----------------|----------------|----------------|------|----------------|
| <b>Inorganics</b>   |        |                |                |                |      |                |
| Conductivity        | E120.1 | 11/14/24 13:56 | COND2411114-W2 | COND2411114-W2 | No   | BLK/LCS/DUP    |
| <b>Metals</b>       |        |                |                |                |      |                |
| Chromium, Dissolved | E200.8 | 11/12/24 16:38 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |
| Copper, Dissolved   | E200.8 | 11/12/24 16:38 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |
| Nickel, Dissolved   | E200.8 | 11/12/24 16:38 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |
| Zinc, Dissolved     | E200.8 | 11/12/24 16:38 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |

## QC Report - Analysis Summary

Lab Sample ID: S68320.02

Sample Tag: B-19AR-20241105

Collected Date/Time: 11/06/2024 10:25

Matrix: Groundwater

COC Reference: 176243

| Analysis                 | Method | Run Date/Time  | Batch ID       | Prep ID        | Surr | QC Types       |
|--------------------------|--------|----------------|----------------|----------------|------|----------------|
| <b><i>Inorganics</i></b> |        |                |                |                |      |                |
| Conductivity             | E120.1 | 11/14/24 14:00 | COND2411114-W2 | COND2411114-W2 | No   | BLK/LCS/DUP    |
| <b><i>Metals</i></b>     |        |                |                |                |      |                |
| Chromium, Dissolved      | E200.8 | 11/12/24 16:39 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |
| Copper, Dissolved        | E200.8 | 11/12/24 16:39 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |
| Nickel, Dissolved        | E200.8 | 11/12/24 16:39 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |
| Zinc, Dissolved          | E200.8 | 11/12/24 16:39 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |

QC Report - Analysis Summary

Lab Sample ID: S68320.03  
Sample Tag: B-9-20241106  
Collected Date/Time: 11/06/2024 11:22  
Matrix: Groundwater  
COC Reference: 176243

| Analysis            | Method | Run Date/Time  | Batch ID       | Prep ID        | Surr | QC Types       |
|---------------------|--------|----------------|----------------|----------------|------|----------------|
| <b>Inorganics</b>   |        |                |                |                |      |                |
| Conductivity        | E120.1 | 11/14/24 14:02 | COND2411114-W2 | COND2411114-W2 | No   | BLK/LCS/DUP    |
| <b>Metals</b>       |        |                |                |                |      |                |
| Chromium, Dissolved | E200.8 | 11/12/24 16:39 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |
| Copper, Dissolved   | E200.8 | 11/12/24 16:39 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |
| Nickel, Dissolved   | E200.8 | 11/12/24 16:39 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |
| Zinc, Dissolved     | E200.8 | 11/12/24 16:39 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |

QC Report - Analysis Summary

Lab Sample ID: S68320.04  
Sample Tag: B-24R-20241105  
Collected Date/Time: 11/06/2024 12:08  
Matrix: Groundwater  
COC Reference: 176243

| Analysis            | Method | Run Date/Time  | Batch ID       | Prep ID        | Surr | QC Types       |
|---------------------|--------|----------------|----------------|----------------|------|----------------|
| <b>Inorganics</b>   |        |                |                |                |      |                |
| Conductivity        | E120.1 | 11/14/24 14:04 | COND2411114-W2 | COND2411114-W2 | No   | BLK/LCS/DUP    |
| <b>Metals</b>       |        |                |                |                |      |                |
| Chromium, Dissolved | E200.8 | 11/12/24 16:40 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |
| Copper, Dissolved   | E200.8 | 11/12/24 16:40 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |
| Nickel, Dissolved   | E200.8 | 11/12/24 16:40 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |
| Zinc, Dissolved     | E200.8 | 11/12/24 16:40 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |

## QC Report - Analysis Summary

Lab Sample ID: S68320.05

Sample Tag: B-18A-20241105

Collected Date/Time: 11/06/2024 13:25

Matrix: Groundwater

COC Reference: 176243

| Analysis            | Method | Run Date/Time  | Batch ID       | Prep ID        | Surr | QC Types       |
|---------------------|--------|----------------|----------------|----------------|------|----------------|
| <b>Inorganics</b>   |        |                |                |                |      |                |
| Conductivity        | E120.1 | 11/14/24 14:06 | COND2411114-W2 | COND2411114-W2 | No   | BLK/LCS/DUP    |
| <b>Metals</b>       |        |                |                |                |      |                |
| Chromium, Dissolved | E200.8 | 11/12/24 16:41 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |
| Copper, Dissolved   | E200.8 | 11/12/24 16:41 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |
| Nickel, Dissolved   | E200.8 | 11/12/24 16:41 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |
| Zinc, Dissolved     | E200.8 | 11/12/24 16:41 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |

## QC Report - Analysis Summary

**Lab Sample ID: S68320.06**

Sample Tag: B-7-20241105

Collected Date/Time: 11/06/2024 14:40

Matrix: Groundwater

COC Reference: 176243

| Analysis                 | Method | Run Date/Time  | Batch ID       | Prep ID        | Surr | QC Types       |
|--------------------------|--------|----------------|----------------|----------------|------|----------------|
| <b><i>Inorganics</i></b> |        |                |                |                |      |                |
| Conductivity             | E120.1 | 11/14/24 14:08 | COND2411114-W2 | COND2411114-W2 | No   | BLK/LCS/DUP    |
| <b><i>Metals</i></b>     |        |                |                |                |      |                |
| Chromium, Dissolved      | E200.8 | 11/12/24 16:42 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |
| Copper, Dissolved        | E200.8 | 11/12/24 16:42 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |
| Nickel, Dissolved        | E200.8 | 11/12/24 16:42 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |
| Zinc, Dissolved          | E200.8 | 11/12/24 16:42 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |

QC Report - Analysis Summary

Lab Sample ID: S68320.07  
Sample Tag: GW-DUP-20241105  
Collected Date/Time: 11/06/2024 00:01  
Matrix: Groundwater  
COC Reference: 176243

| Analysis            | Method | Run Date/Time  | Batch ID       | Prep ID        | Surr | QC Types       |
|---------------------|--------|----------------|----------------|----------------|------|----------------|
| <b>Inorganics</b>   |        |                |                |                |      |                |
| Conductivity        | E120.1 | 11/14/24 14:10 | COND2411114-W2 | COND2411114-W2 | No   | BLK/LCS/DUP    |
| <b>Metals</b>       |        |                |                |                |      |                |
| Chromium, Dissolved | E200.8 | 11/12/24 16:42 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |
| Copper, Dissolved   | E200.8 | 11/12/24 16:42 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |
| Nickel, Dissolved   | E200.8 | 11/12/24 16:42 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |
| Zinc, Dissolved     | E200.8 | 11/12/24 16:42 | MT4-24-1112C   | MTD-111224-8   | No   | BLK/LCS/MS/MSD |

# QC Report - Prep Batch Summary

## Inorganics, Prep Batch ID: COND241114-W2

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

| Sample ID | Analysis     | Method | Run Date/Time  | Batch ID      |
|-----------|--------------|--------|----------------|---------------|
| S68320.01 | Conductivity | E120.1 | 11/14/24 13:56 | COND241114-W2 |
| S68320.02 | Conductivity | E120.1 | 11/14/24 14:00 | COND241114-W2 |
| S68320.03 | Conductivity | E120.1 | 11/14/24 14:02 | COND241114-W2 |
| S68320.04 | Conductivity | E120.1 | 11/14/24 14:04 | COND241114-W2 |
| S68320.05 | Conductivity | E120.1 | 11/14/24 14:06 | COND241114-W2 |
| S68320.06 | Conductivity | E120.1 | 11/14/24 14:08 | COND241114-W2 |
| S68320.07 | Conductivity | E120.1 | 11/14/24 14:10 | COND241114-W2 |

## Metals, Prep Batch ID: MTD-111224-8

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

| Sample ID | Analysis            | Method | Run Date/Time  | Batch ID     |
|-----------|---------------------|--------|----------------|--------------|
| S68320.01 | Chromium, Dissolved | E200.8 | 11/12/24 16:38 | MT4-24-1112C |
| S68320.01 | Copper, Dissolved   | E200.8 | 11/12/24 16:38 | MT4-24-1112C |
| S68320.01 | Nickel, Dissolved   | E200.8 | 11/12/24 16:38 | MT4-24-1112C |
| S68320.01 | Zinc, Dissolved     | E200.8 | 11/12/24 16:38 | MT4-24-1112C |
| S68320.02 | Chromium, Dissolved | E200.8 | 11/12/24 16:39 | MT4-24-1112C |
| S68320.02 | Copper, Dissolved   | E200.8 | 11/12/24 16:39 | MT4-24-1112C |
| S68320.02 | Nickel, Dissolved   | E200.8 | 11/12/24 16:39 | MT4-24-1112C |
| S68320.02 | Zinc, Dissolved     | E200.8 | 11/12/24 16:39 | MT4-24-1112C |
| S68320.03 | Chromium, Dissolved | E200.8 | 11/12/24 16:39 | MT4-24-1112C |
| S68320.03 | Copper, Dissolved   | E200.8 | 11/12/24 16:39 | MT4-24-1112C |
| S68320.03 | Nickel, Dissolved   | E200.8 | 11/12/24 16:39 | MT4-24-1112C |
| S68320.03 | Zinc, Dissolved     | E200.8 | 11/12/24 16:39 | MT4-24-1112C |
| S68320.04 | Chromium, Dissolved | E200.8 | 11/12/24 16:40 | MT4-24-1112C |
| S68320.04 | Copper, Dissolved   | E200.8 | 11/12/24 16:40 | MT4-24-1112C |
| S68320.04 | Nickel, Dissolved   | E200.8 | 11/12/24 16:40 | MT4-24-1112C |
| S68320.04 | Zinc, Dissolved     | E200.8 | 11/12/24 16:40 | MT4-24-1112C |
| S68320.05 | Chromium, Dissolved | E200.8 | 11/12/24 16:41 | MT4-24-1112C |
| S68320.05 | Copper, Dissolved   | E200.8 | 11/12/24 16:41 | MT4-24-1112C |
| S68320.05 | Nickel, Dissolved   | E200.8 | 11/12/24 16:41 | MT4-24-1112C |
| S68320.05 | Zinc, Dissolved     | E200.8 | 11/12/24 16:41 | MT4-24-1112C |
| S68320.06 | Chromium, Dissolved | E200.8 | 11/12/24 16:42 | MT4-24-1112C |
| S68320.06 | Copper, Dissolved   | E200.8 | 11/12/24 16:42 | MT4-24-1112C |
| S68320.06 | Nickel, Dissolved   | E200.8 | 11/12/24 16:42 | MT4-24-1112C |
| S68320.06 | Zinc, Dissolved     | E200.8 | 11/12/24 16:42 | MT4-24-1112C |
| S68320.07 | Chromium, Dissolved | E200.8 | 11/12/24 16:42 | MT4-24-1112C |
| S68320.07 | Copper, Dissolved   | E200.8 | 11/12/24 16:42 | MT4-24-1112C |
| S68320.07 | Nickel, Dissolved   | E200.8 | 11/12/24 16:42 | MT4-24-1112C |
| S68320.07 | Zinc, Dissolved     | E200.8 | 11/12/24 16:42 | MT4-24-1112C |

## QC Report - Batch QC Results

### Inorganics, Prep Batch ID: COND241114-W2

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

#### Blank (BLK)

Lab Sample ID: COND241114-W2.LRB1

Run in Batch: COND241114-W2, Run Date: 11/14/2024 13:46, Prep Date: 11/14/2024, Matrix: Liquid, Dilution: 1

| Analyte      | Flags | Conc | RDL | Units |
|--------------|-------|------|-----|-------|
| Conductivity |       | ND   | 1   | mg/L  |

#### Laboratory Control Sample (LCS)

Lab Sample ID: COND241114-W2.LCS1

Run in Batch: COND241114-W2, Run Date: 11/14/2024 13:52, Prep Date: 11/14/2024, Matrix: Liquid, Dilution: 1

| Analyte      | Flags | % Rec | LCL | UCL |
|--------------|-------|-------|-----|-----|
| Conductivity |       | 97    | 90  | 110 |

#### Laboratory Control Sample (LCS)

Lab Sample ID: COND241114-W2.LCS2

Run in Batch: COND241114-W2, Run Date: 11/14/2024 13:54, Prep Date: 11/14/2024, Matrix: Liquid, Dilution: 1

| Analyte      | Flags | % Rec | LCL | UCL |
|--------------|-------|-------|-----|-----|
| Conductivity |       | 91    | 90  | 110 |

#### Duplicate (DUP)

Lab Sample ID: COND241114-W2.DP1, Parent Sample ID: S68320.01

Run in Batch: COND241114-W2, Run Date: 11/14/2024 13:58, Prep Date: 11/14/2024, Matrix: Liquid, Dilution: 1

| Analyte      | Flags | RPD | RPD CL |
|--------------|-------|-----|--------|
| Conductivity |       | 0   | 15     |

## QC Report - Batch QC Results

### Metals, Prep Batch ID: MTD-111224-8

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

#### Blank (BLK)

Lab Sample ID: MT4-24-1112C.016.LRB

Run in Batch: MT4-24-1112C, Run Date: 11/12/2024 16:32, Prep Date: 11/12/2024, Matrix: Liquid, Dilution: 1

| Analyte  | Flags | Conc | RDL   | Units |
|----------|-------|------|-------|-------|
| Chromium |       | ND   | 0.001 | mg/L  |
| Copper   |       | ND   | 0.001 | mg/L  |
| Nickel   |       | ND   | 0.001 | mg/L  |
| Zinc     |       | ND   | 0.001 | mg/L  |

#### Laboratory Control Sample (LCS)

Lab Sample ID: MT4-24-1112C.015.LCS

Run in Batch: MT4-24-1112C, Run Date: 11/12/2024 16:31, Prep Date: 11/12/2024, Matrix: Liquid, Dilution: 1

| Analyte  | Flags | % Rec | LCL | UCL |
|----------|-------|-------|-----|-----|
| Chromium |       | 100   | 85  | 115 |
| Copper   |       | 100   | 85  | 115 |
| Nickel   |       | 101   | 85  | 115 |
| Zinc     |       | 100   | 85  | 115 |

#### Matrix Spike (MS)

Lab Sample ID: MT4-24-1112C.027.MS, Parent Sample ID: S68320.07

Run in Batch: MT4-24-1112C, Run Date: 11/12/2024 16:45, Prep Date: 11/12/2024, Matrix: Liquid, Dilution: 5

| Analyte  | Flags | % Rec | LCL | UCL |
|----------|-------|-------|-----|-----|
| Chromium |       | 106   | 75  | 125 |
| Copper   |       | 96    | 75  | 125 |
| Nickel   |       | 106   | 75  | 125 |
| Zinc     |       | 98    | 75  | 125 |

#### Matrix Spike (MS)

Lab Sample ID: MT4-24-1112C.041.MS, Parent Sample ID: S68364.10

Run in Batch: MT4-24-1112C, Run Date: 11/12/2024 16:57, Prep Date: 11/12/2024, Matrix: Liquid, Dilution: 5

| Analyte  | Flags | % Rec | LCL | UCL |
|----------|-------|-------|-----|-----|
| Chromium |       | 102   | 75  | 125 |
| Copper   |       | 98    | 75  | 125 |
| Nickel   |       | 99    | 75  | 125 |
| Zinc     |       | 94    | 75  | 125 |

#### Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-24-1112C.028.MSD, Parent Sample ID: MT4-24-1112C.027.MS

Run in Batch: MT4-24-1112C, Run Date: 11/12/2024 16:45, Prep Date: 11/12/2024, Matrix: Liquid, Dilution: 5

| Analyte  | Flags | % Rec | LCL | UCL | RPD | RPD CL |
|----------|-------|-------|-----|-----|-----|--------|
| Chromium |       | 103   | 75  | 125 | 3   | 20     |
| Copper   |       | 94    | 75  | 125 | 2   | 20     |
| Nickel   |       | 101   | 75  | 125 | 4   | 20     |
| Zinc     |       | 97    | 75  | 125 | 2   | 20     |

## QC Report - Batch QC Results

**Metals, Prep Batch ID: MTD-111224-8 (continued)**

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

### Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-24-1112C.042.MSD, Parent Sample ID: MT4-24-1112C.041.MS

Run in Batch: MT4-24-1112C, Run Date: 11/12/2024 16:58, Prep Date: 11/12/2024, Matrix: Liquid, Dilution: 5

| Analyte  | Flags | % Rec | LCL | UCL | RPD | RPD CL |
|----------|-------|-------|-----|-----|-----|--------|
| Chromium |       | 100   | 75  | 125 | 1   | 20     |
| Copper   |       | 99    | 75  | 125 | 1   | 20     |
| Nickel   |       | 102   | 75  | 125 | 3   | 20     |
| Zinc     |       | 102   | 75  | 125 | 2   | 20     |



C.O.C. PAGE # 1 OF 1

176243

## REPORT TO

## CHAIN OF CUSTODY RECORD

**INVOICE TO**

|                                                                             |                          |                               |                |
|-----------------------------------------------------------------------------|--------------------------|-------------------------------|----------------|
| CONTACT NAME<br>Clifford Yantz / Kevin Schneider                            |                          | CONTACT NAME<br>X SAME        |                |
| COMPANY<br>Ramboll                                                          |                          | COMPANY                       |                |
| ADDRESS<br>2090 Commonwealth Blvd                                           |                          | ADDRESS                       |                |
| CITY<br>Ann Arbor                                                           | STATE<br>MI              | ZIP CODE<br>48105             |                |
| PHONE NO.                                                                   | CELL NO.<br>313-333-0211 | P.O. NO.<br>1940008845 TASK 1 | E-MAIL ADDRESS |
| E-MAIL ADDRESS<br>Kevin.Schneider@Ramboll.com<br>Clifford.Yantz@Ramboll.com |                          | QUOTE NO.                     |                |
| ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)                            |                          |                               |                |

|                                                                                                                                                                                                           |  |                                                                   |                  |                     |  |  |  |  |  |  |  |                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------|------------------|---------------------|--|--|--|--|--|--|--|---------------------------------------------------------------------------|
| PROJECT NO./NAME<br><b>RACER Coldwater Road</b>                                                                                                                                                           |  | SAMPLER(S) - PLEASE PRINT/SIGN NAME<br><b>Kevin Schneider KSK</b> | <b>d details</b> | <b>conductivity</b> |  |  |  |  |  |  |  | Certifications                                                            |
| TURNAROUND TIME REQUIRED <input type="checkbox"/> 1 DAY <input type="checkbox"/> 2 DAYS <input type="checkbox"/> 3 DAYS <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> OTHER _____ |  |                                                                   |                  |                     |  |  |  |  |  |  |  | <input type="checkbox"/> OHIO VAP <input type="checkbox"/> Drinking Water |
| DELIVERABLES REQUIRED <input checked="" type="checkbox"/> LEVEL II <input type="checkbox"/> LEVEL III <input type="checkbox"/> LEVEL IV <input type="checkbox"/> EDD <input type="checkbox"/> OTHER _____ |  |                                                                   |                  |                     |  |  |  |  |  |  |  | <input type="checkbox"/> DoD <input type="checkbox"/> NPDES               |

|              |                      |                                     |                        |                   |                   |                      |                              |                                                                    |
|--------------|----------------------|-------------------------------------|------------------------|-------------------|-------------------|----------------------|------------------------------|--------------------------------------------------------------------|
| MATRIX CODE: | W=WATER<br>SL=SLUDGE | GW=GROUNDWATER<br>DW=DRINKING WATER | WW=WASTEWATER<br>O=OIL | S=SOIL<br>WP=WIPE | L=LIQUID<br>A=AIR | SD=SOLID<br>WS=WASTE | # Containers & Preservatives | Project Locations                                                  |
|              |                      |                                     |                        |                   |                   |                      |                              | <input type="checkbox"/> Detroit <input type="checkbox"/> New York |

| MERIT<br>LAB NO.<br><small>FOR LAB USE ONLY</small> | COLLECTION |      | SAMPLE TAG<br>IDENTIFICATION-DESCRIPTION | MATRIX | # OF<br>BOTTLES | NONE | HCl | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | MeOH | OTHER | <input type="checkbox"/> Diss TOC spec TOI |   |   |   |   |  |  | <input type="checkbox"/> Other _____    |
|-----------------------------------------------------|------------|------|------------------------------------------|--------|-----------------|------|-----|------------------|--------------------------------|------|------|-------|--------------------------------------------|---|---|---|---|--|--|-----------------------------------------|
|                                                     | DATE       | TIME |                                          |        |                 |      |     |                  |                                |      |      |       | Special Instructions                       |   |   |   |   |  |  |                                         |
| 68320.01                                            | 11/5/24    | 1250 | B-28-20241105                            | GW     | 5               | 1    | 1   | 3                |                                |      |      |       | X                                          | X | X | X | ↗ |  |  | Dissolved Metals<br>were field filtered |
| .02                                                 | 11/6/24    | 1025 | B-19AR-20241106                          |        |                 |      |     |                  |                                |      |      |       | X                                          | X | X | X |   |  |  |                                         |
| .03                                                 | 11/6/24    | 1122 | B-9-20241106                             |        |                 |      |     |                  |                                |      |      |       | X                                          | X | X | X |   |  |  |                                         |
| .04                                                 | 11/6/24    | 1208 | B-24R-20241106                           |        |                 |      |     |                  |                                |      |      |       | X                                          | X | X | X |   |  |  |                                         |
| .05                                                 | 11/6/24    | 1325 | B-18A-20241106                           |        |                 |      |     |                  |                                |      |      |       | X                                          | X | X | X |   |  |  |                                         |
| .06                                                 | 11/6/24    | 1440 | B-7-20241106                             |        |                 |      |     |                  |                                |      |      |       | X                                          | X | X | X |   |  |  |                                         |
| .07                                                 | 11/6/24    | -    | GW-DUP-20241106                          |        |                 |      |     |                  |                                |      |      |       | X                                          | X | X | X |   |  |  |                                         |
|                                                     |            |      |                                          | /      | /               | /    | /   | /                |                                |      |      |       | BS                                         |   |   |   |   |  |  |                                         |

|                                            |                    |                                             |                 |              |                                            |                                                                         |          |                                   |
|--------------------------------------------|--------------------|---------------------------------------------|-----------------|--------------|--------------------------------------------|-------------------------------------------------------------------------|----------|-----------------------------------|
| RELINQUISHED BY:<br>SIGNATURE/ORGANIZATION | <i>[Signature]</i> | <input checked="" type="checkbox"/> Sampler | DATE<br>11/7/24 | TIME<br>1641 | RELINQUISHED BY:<br>SIGNATURE/ORGANIZATION |                                                                         | DATE     | TIME                              |
| RECEIVED BY:<br>SIGNATURE/ORGANIZATION     | <i>[Signature]</i> |                                             | DATE<br>11/7/24 | TIME<br>1641 | RECEIVED BY:<br>SIGNATURE/ORGANIZATION     |                                                                         | DATE     | TIME                              |
| RELINQUISHED BY:<br>SIGNATURE/ORGANIZATION |                    |                                             | DATE            | TIME         | SEAL NO.                                   | SEAL INTACT<br>YES <input type="checkbox"/> NO <input type="checkbox"/> | INITIALS | NOTES:<br>TEMP. ON ARRIVAL<br>5.0 |
| RECEIVED BY:<br>SIGNATURE/ORGANIZATION     |                    |                                             | DATE            | TIME         | SEAL NO.                                   | SEAL INTACT<br>YES <input type="checkbox"/> NO <input type="checkbox"/> | INITIALS |                                   |

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

Rev. 05/24



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

## REPORT TO

## CHAIN OF CUSTODY RECORD

## INVOICE TO

|                                             |                 |                       |  |
|---------------------------------------------|-----------------|-----------------------|--|
| CONTACT NAME <b>Project Management Team</b> |                 |                       |  |
| COMPANY <b>Merit Laboratories</b>           |                 |                       |  |
| ADDRESS <b>2680 East Lansing Drive</b>      |                 |                       |  |
| CITY <b>East Lansing</b>                    | STATE <b>MI</b> | ZIP CODE <b>48823</b> |  |
| PHONE NO. <b>517-332-0167</b>               | FAX NO.         | P.O. NO.              |  |
| E-MAIL ADDRESS <b>results@meritlabs.com</b> |                 | QUOTE NO.             |  |

|                                        |                                            |                       |                                          |
|----------------------------------------|--------------------------------------------|-----------------------|------------------------------------------|
| CONTACT NAME <b>Julie Teague</b>       |                                            |                       | <input checked="" type="checkbox"/> SAME |
| COMPANY <b>Merit Laboratories</b>      |                                            |                       |                                          |
| ADDRESS <b>2680 East Lansing Drive</b> |                                            |                       |                                          |
| CITY <b>East Lansing</b>               | STATE <b>MI</b>                            | ZIP CODE <b>48823</b> |                                          |
| PHONE NO. <b>517-332-0167</b>          | E-MAIL ADDRESS <b>juliet@meritlabs.com</b> |                       |                                          |

|                                                                                                                                                                                                                                  |                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| PROJECT NO./NAME <b>S68320</b>                                                                                                                                                                                                   | SAMPLER(S) - PLEASE PRINT/SIGN NAME |
| TURNAROUND TIME REQUIRED <input type="checkbox"/> 1 DAY <input type="checkbox"/> 2 DAYS <input type="checkbox"/> 3 DAYS <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> OTHER                              |                                     |
| DELIVERABLES REQUIRED <input type="checkbox"/> STD <input checked="" type="checkbox"/> LEVEL II <input type="checkbox"/> LEVEL III <input type="checkbox"/> LEVEL IV <input type="checkbox"/> EDD <input type="checkbox"/> 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 |

## ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

| MERIT<br>LAB NO.<br><small>FOR LAB USE ONLY</small> | YEAR    |      | SAMPLE TAG<br>IDENTIFICATION-DESCRIPTION | MATRIX | # OF<br>BOTTLES | NONE | HCl | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | MeOH | OTHER | TOC |  |  |  |  |  |  |  |  |  |  | <input type="checkbox"/> Other _____ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                                                     | DATE    | TIME |                                          |        |                 |      |     |                  |                                |      |      |       |     |  |  |  |  |  |  |  |  |  |  | Special Instructions                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                     | 11/5/24 | 1250 | S68320.01                                | GW     | 2               |      |     |                  | 2                              |      |      |       | ✓   |  |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



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## REPORT TO

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| 517-332-0167            |  |  |  |                         |  |           |    |          |       |
| E-MAIL ADDRESS          |  |  |  |                         |  | QUOTE NO. |    |          |       |
| results@meritlabs.com   |  |  |  |                         |  |           |    |          |       |

|              |  |                         |  |                                          |       |
|--------------|--|-------------------------|--|------------------------------------------|-------|
| CONTACT NAME |  | Julie Teague            |  | <input checked="" type="checkbox"/> 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 <b>S68320</b>                                                                                                                                                                                                         | SAMPLER(S) - PLEASE PRINT/SIGN NAME |
| TURNAROUND TIME REQUIRED <input type="checkbox"/> 1 DAY <input type="checkbox"/> 2 DAYS <input type="checkbox"/> 3 DAYS <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> OTHER _____                              |                                     |
| DELIVERABLES REQUIRED <input type="checkbox"/> STD <input checked="" type="checkbox"/> LEVEL II <input type="checkbox"/> LEVEL III <input type="checkbox"/> LEVEL IV <input type="checkbox"/> EDD <input type="checkbox"/> OTHER _____ |                                     |

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

## # Containers & Preservatives

**Certifications**

☐ OHIO VAP      ☐ Drinking Water

☐ DoD      ☐ NPDES

**Project Locations**

☐ Detroit      ☐ New York

☐ Other \_\_\_\_\_

**Special Instructions**

[illegible]

|                        |                                  |          |      |
|------------------------|----------------------------------|----------|------|
| RELINQUISHED BY:       | <input type="checkbox"/> Sampler | DATE     | TIME |
| SIGNATURE/ORGANIZATION |                                  | 11/16/24 | 1700 |
| RECEIVED BY:           |                                  | DATE     | TIME |
| SIGNATURE/ORGANIZATION |                                  | 11/16/24 | 1700 |
| 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 | NOTES: TEMP. ON ARRIVAL _____ |      |      |
|                        | YES <input type="checkbox"/> NO <input type="checkbox"/> |          |                               |      |      |
| SEAL NO.               | SEAL INTACT                                              | INITIALS |                               |      |      |
|                        | YES <input type="checkbox"/> NO <input type="checkbox"/> |          |                               |      |      |

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

Rev. 5.18.12

## **APPENDIX D**

### **GROUNDWATER SAMPLING PROGRAM QA/QC SUMMARY**

## Appendix D

### 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 November 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.
- No breakthroughs exceeding 25% for TOX samples were reported.

The relative percent difference (RPD) for the duplicate sample results for B-24R and GW-DUP-20241105 (B-24R) were within acceptable limits except for TOX, which should be qualified as estimated (J) due to the exceedance of acceptable limits (51%) for the RPD. The original TOX sample concentration was 4.12 µg/L in the original sample and in the duplicate sample the concentration was 17 µg/L. The difference is likely due to natural variations in the samples and do not cause the rejection of the data.

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.

## **APPENDIX E**

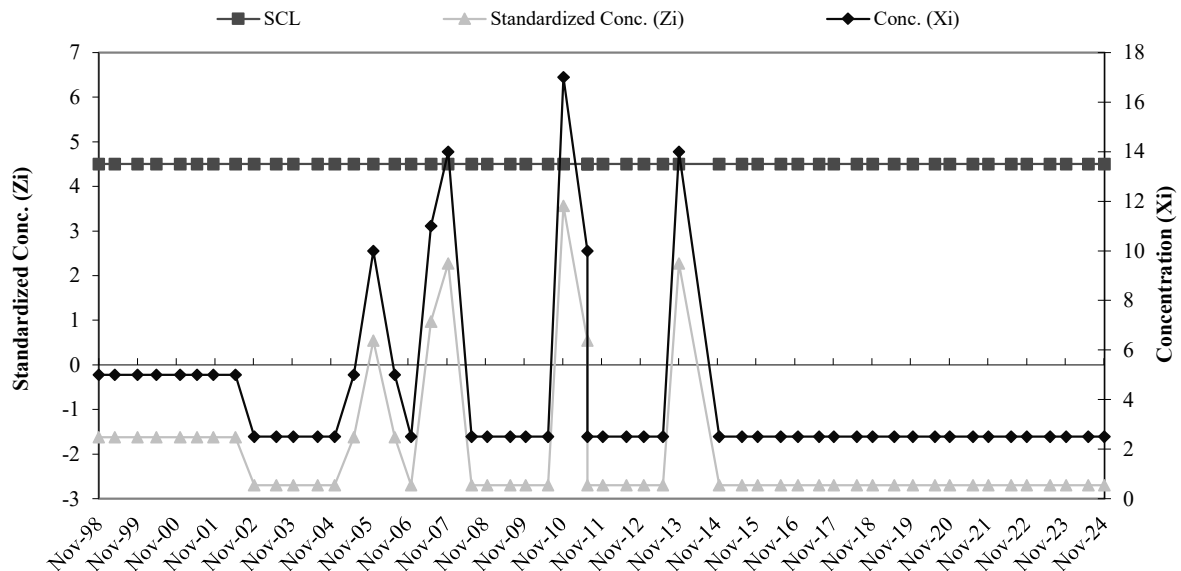
### **MONITORING WELL CONTROL CHARTS**

**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                    | 61 | Nov-24 | 4.5 | 2.5        | -2.70                   |
| 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

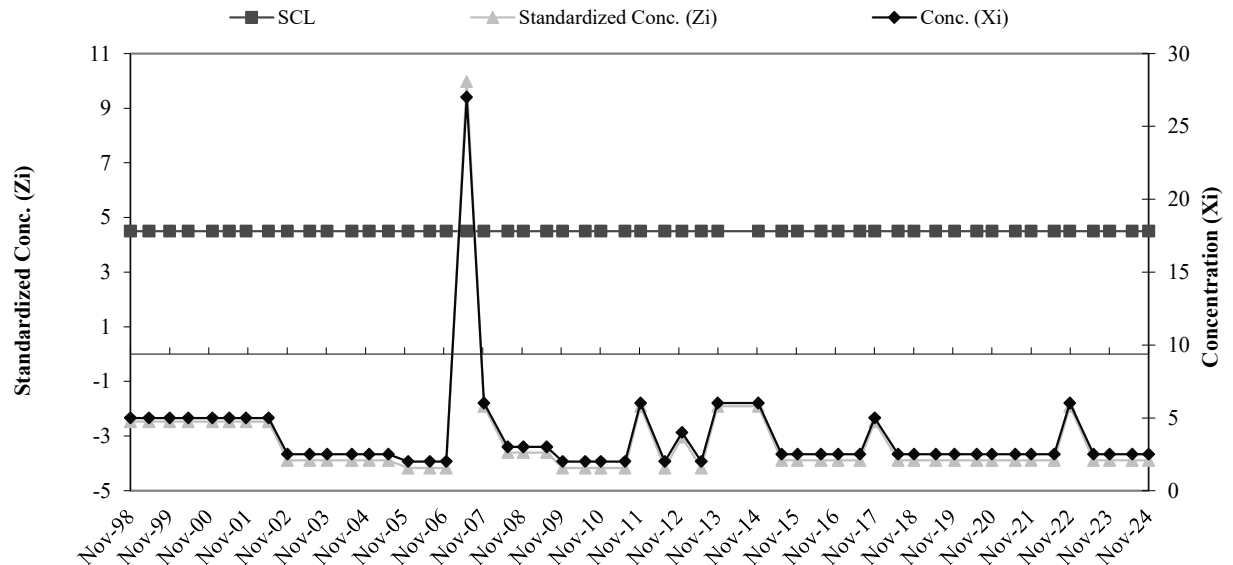


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-7 Cu**

| 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                   | 60 | Nov-24 | 4.5 | 2.5        | -3.89                   |
| 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



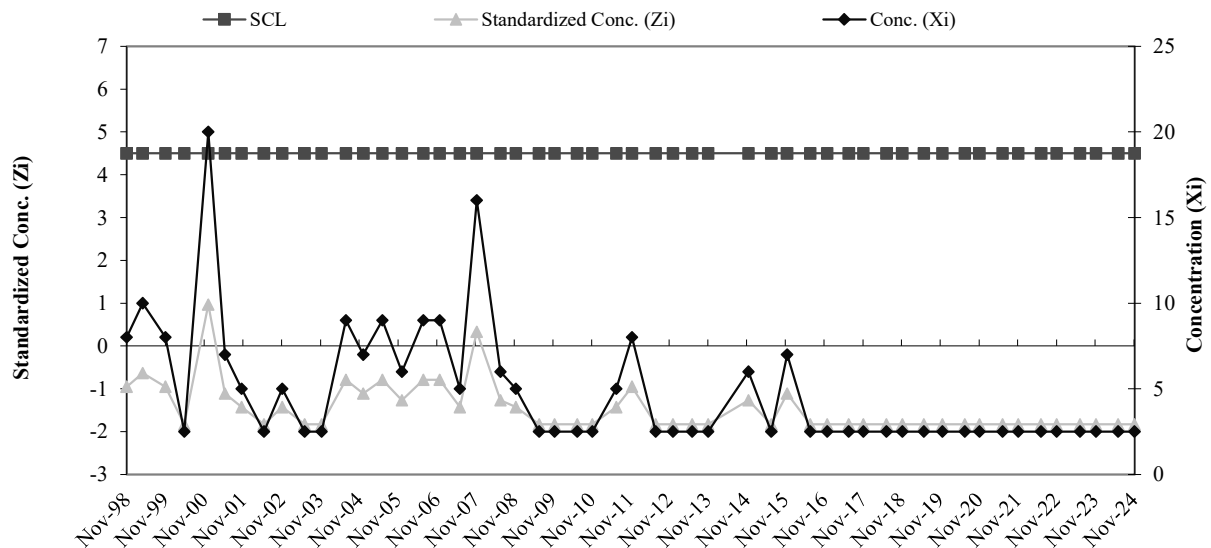
**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**

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                   | 60 | Nov-24 | 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

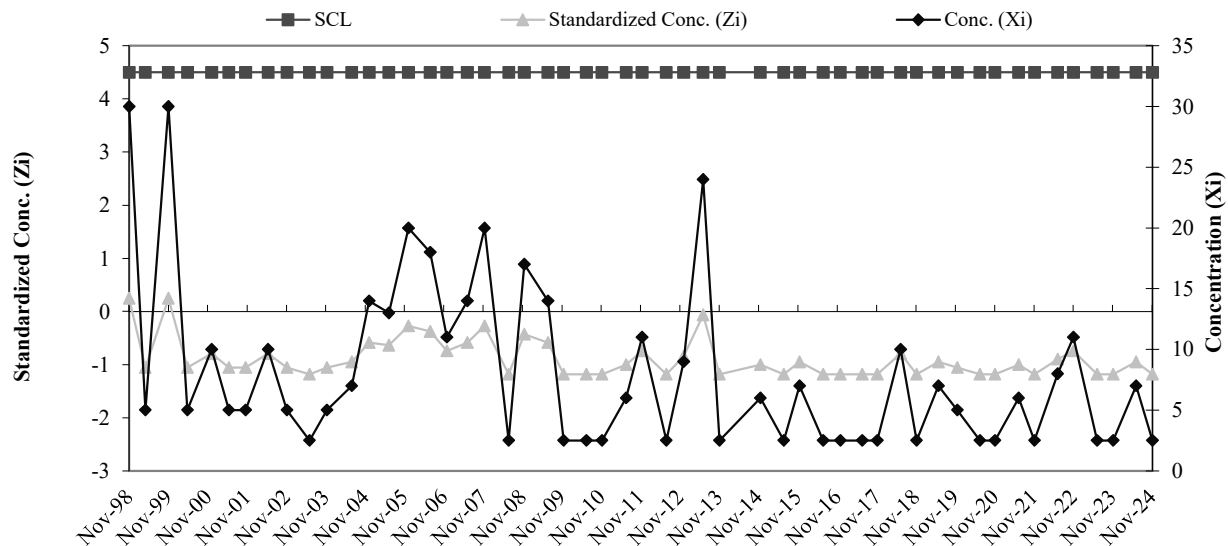


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-7 Zn**

| 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                   | 60 | Nov-24 | 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

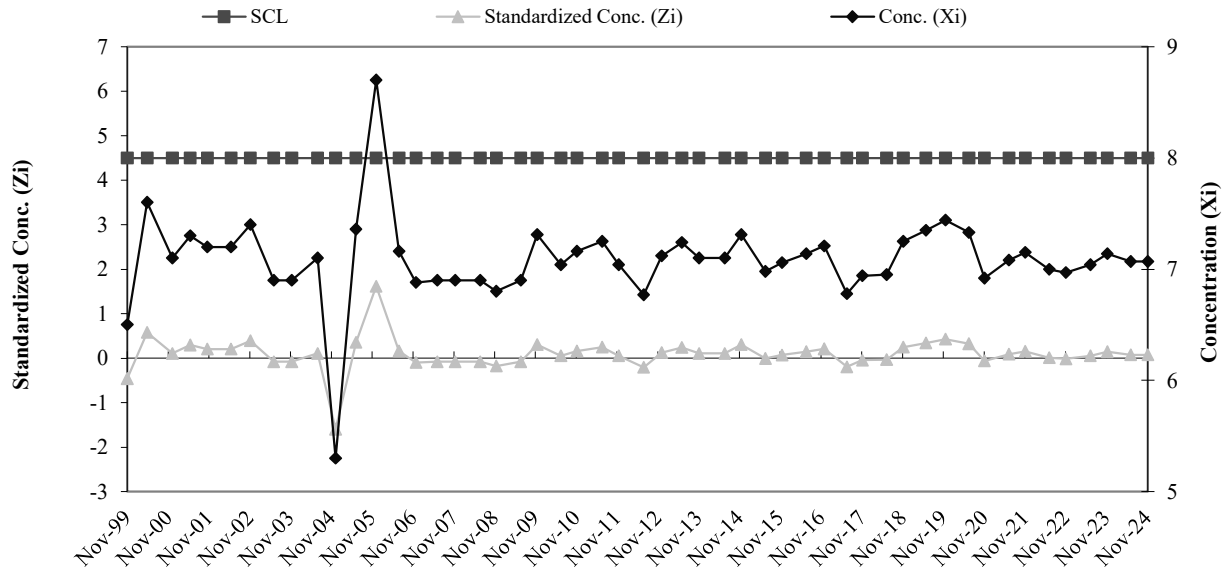


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-7 pH**

| 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                    | 59 | Nov-24 | 4.5 | 7.07       | 0.08                    |
| 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

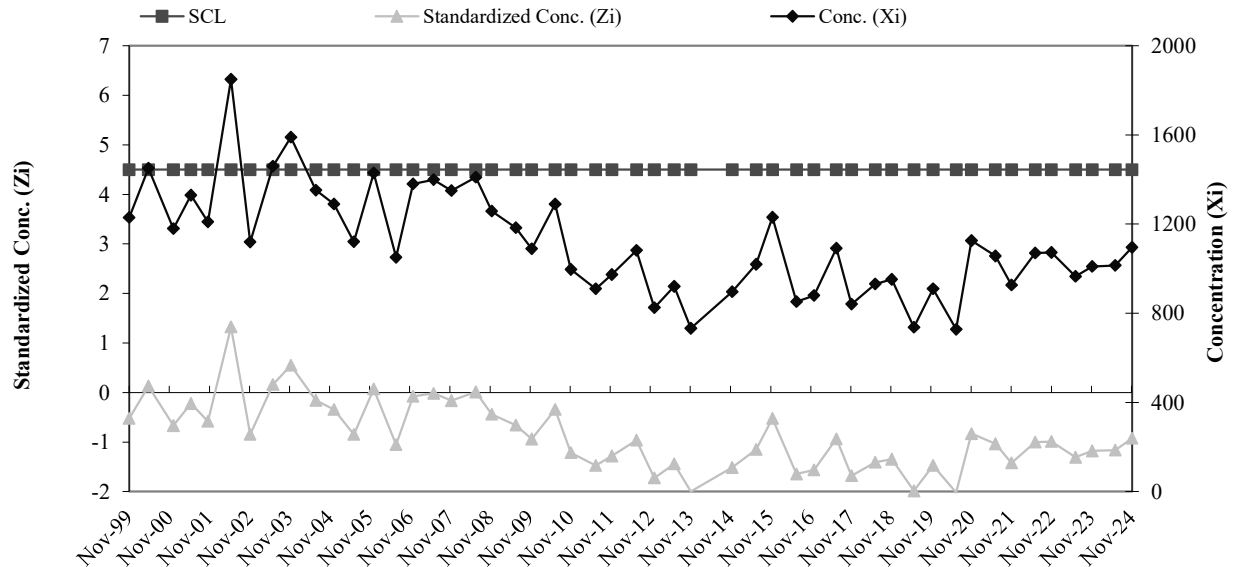


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-7 SpC**

| 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                   | 58 | Nov-24 | 4.5 | 1095       | -0.92                   |
| 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

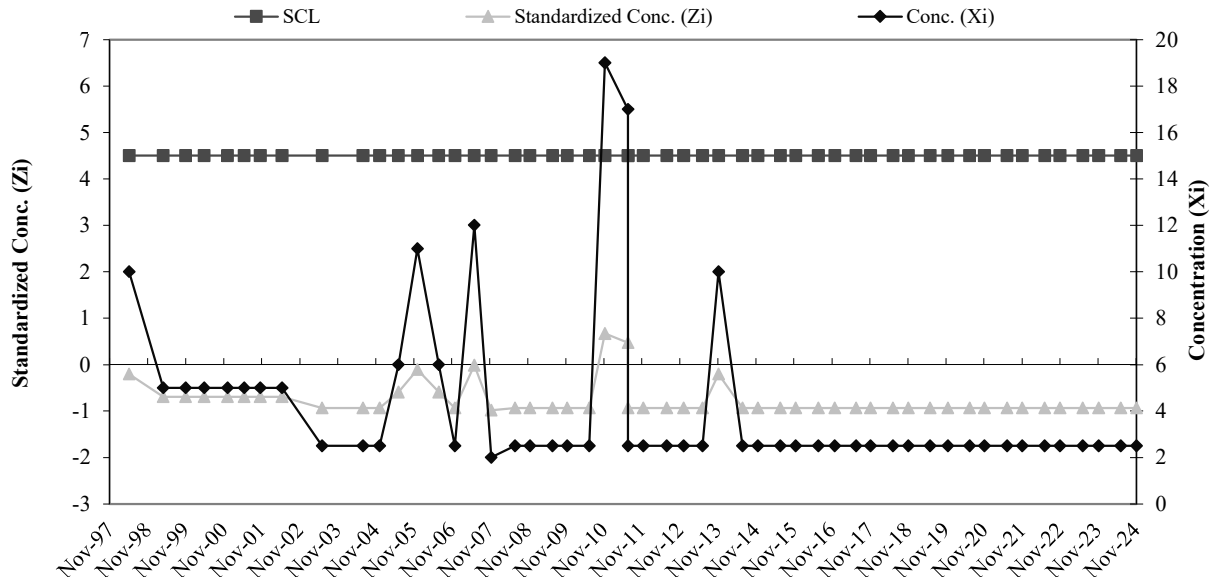


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-9 Cr**

| 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                   | 60 | Nov-24 | 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

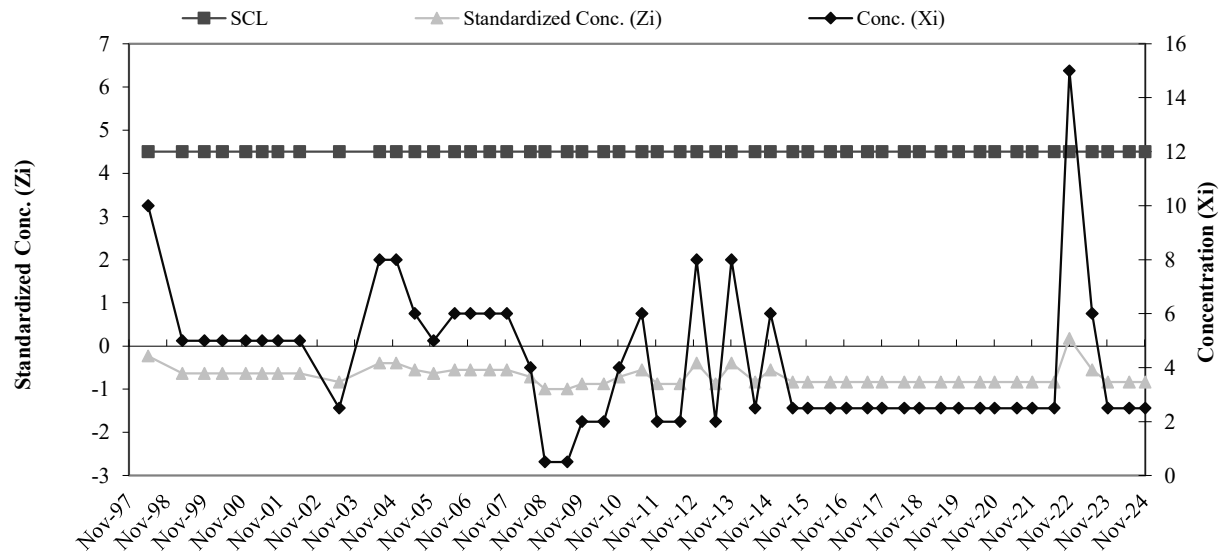


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-9 Cu**

| 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                   | 59 | Nov-24 | 4.5 | 2.5        | -0.84                   |
| 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



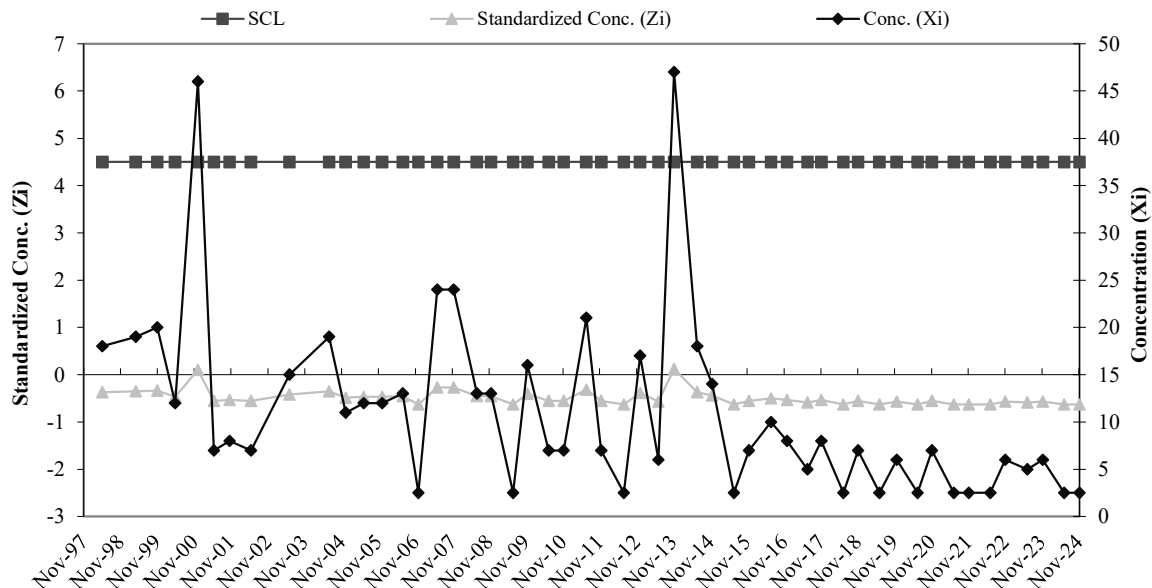
**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**

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                   | 59 | Nov-24 | 4.5 | 2.5        | -0.63                   |
| 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

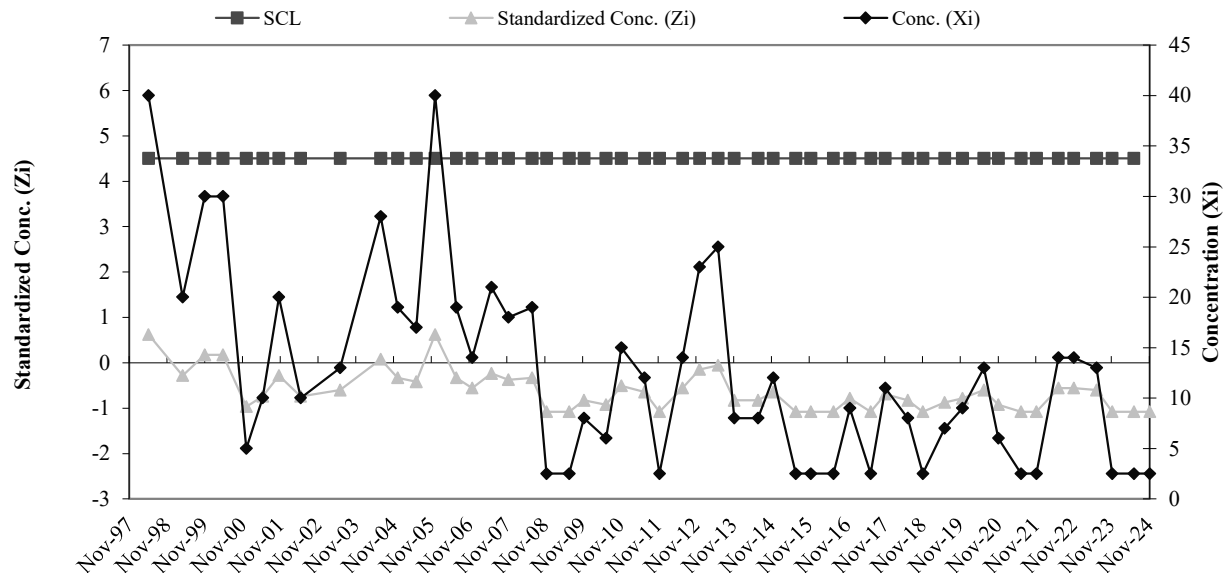


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-9 Zn**

| 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                   | 59 | Nov-24 | 4.5 | 2.5        | -1.08                   |
| 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

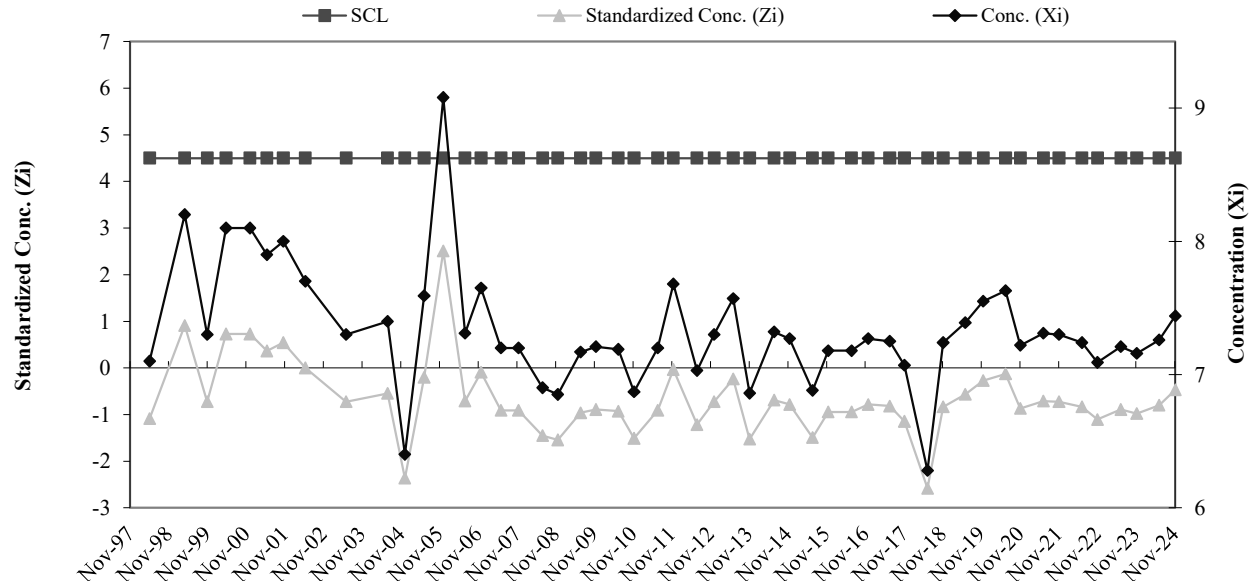


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-9 pH**

| 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                   | 59 | Nov-24 | 4.5 | 6.94       | -0.47                   |
| 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

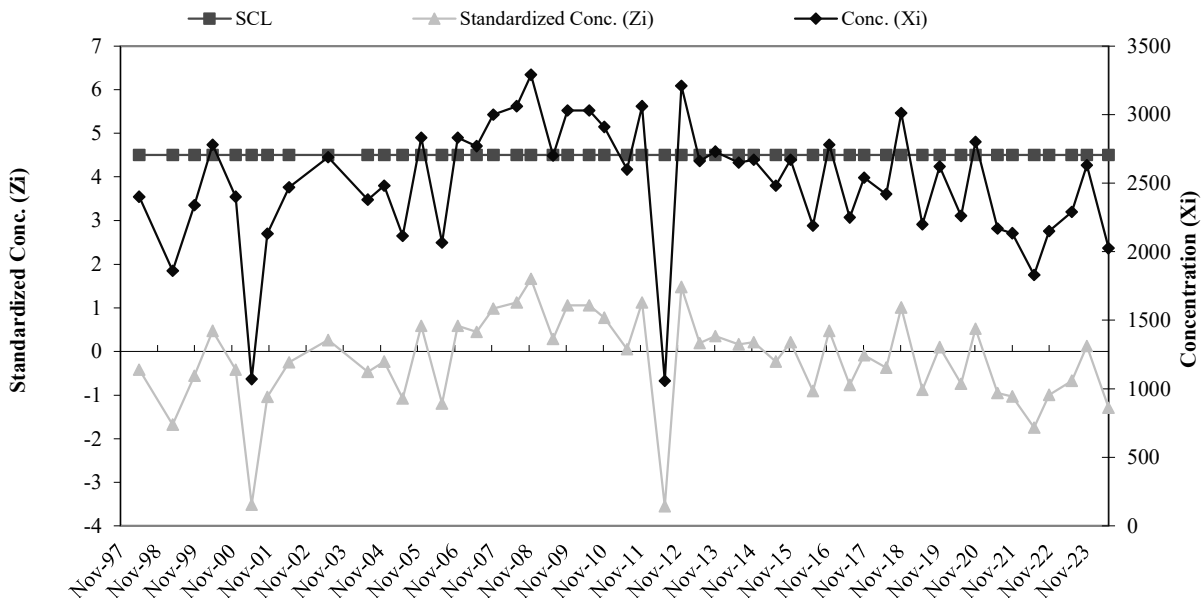


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-9 SpC**

| 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                    | 59 | Nov-24 | 4.5 | 2260       | -0.74                   |
| 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

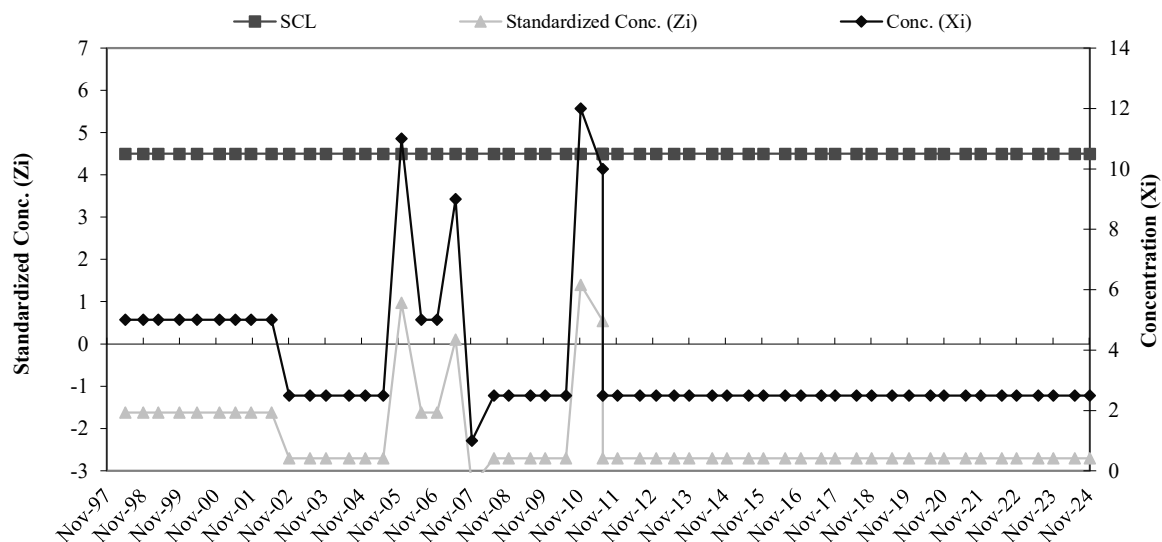


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-18A Cr**

| 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                   | 63 | Nov-24 | 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

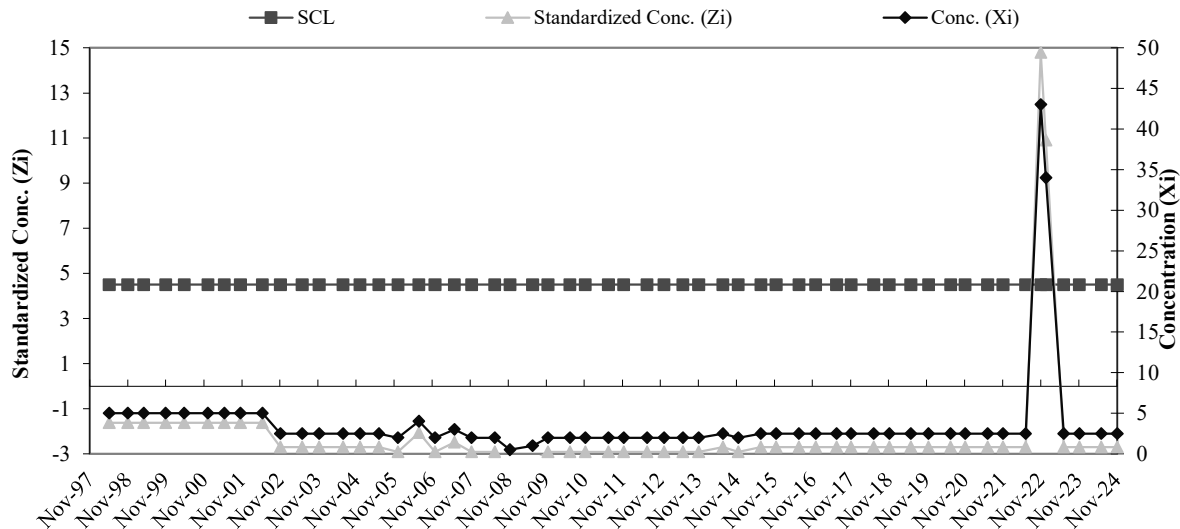


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-18A Cu**

| 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     | 8.75 | 2.31     |
| 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 | Nov-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                   | 61 | Nov-24 | 4.5 | 2.5        | -2.70                   |
| 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

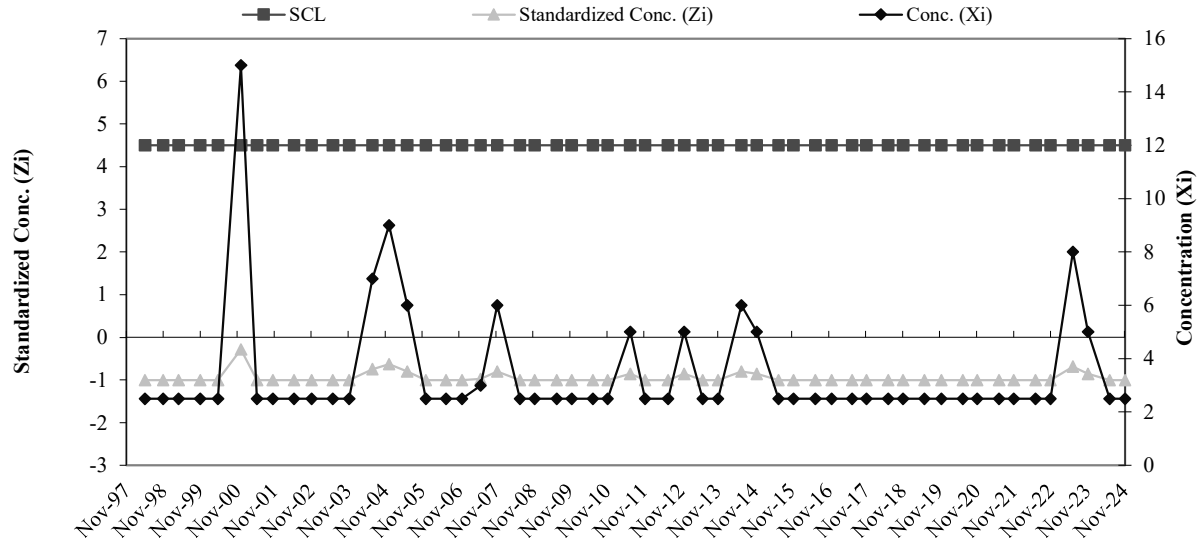


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-18A Ni**

| 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                   | 60 | Nov-24 | 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

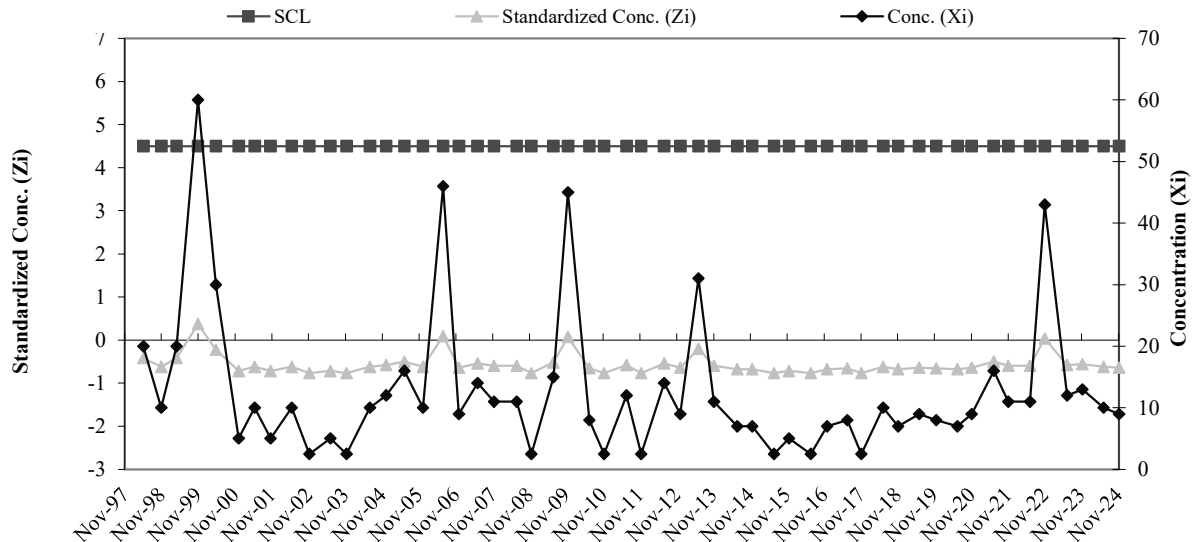


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-18A Zn**

| 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                   | 60 | Nov-24 | 4.5 | 9          | -0.64                   |
| 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

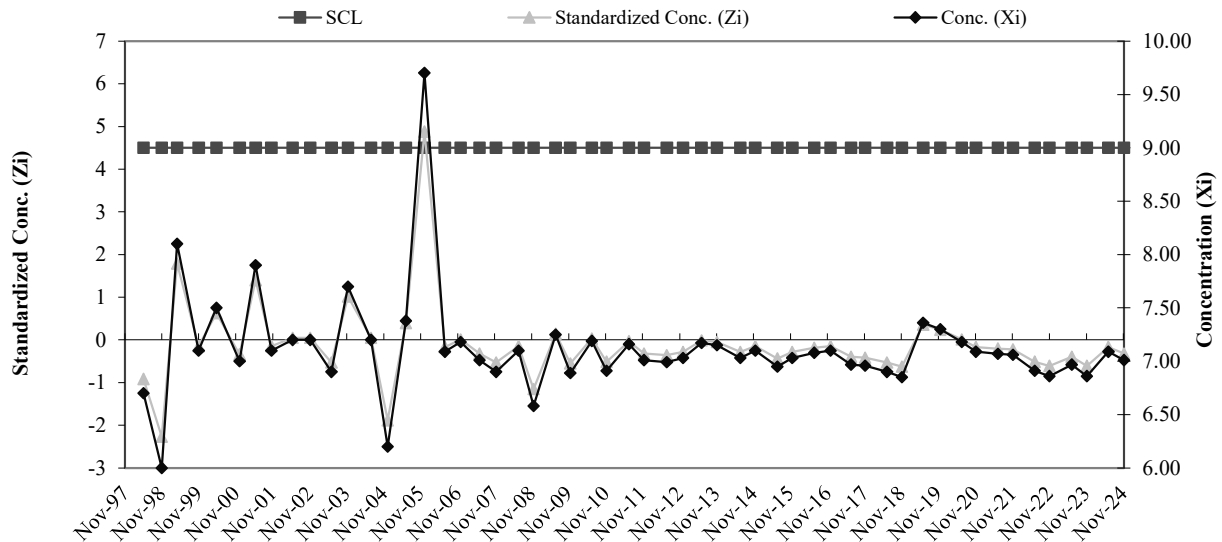


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-18A pH**

| 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                    | 60 | Nov-24 | 4.5 | 7.01       | -0.32                   |
| 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

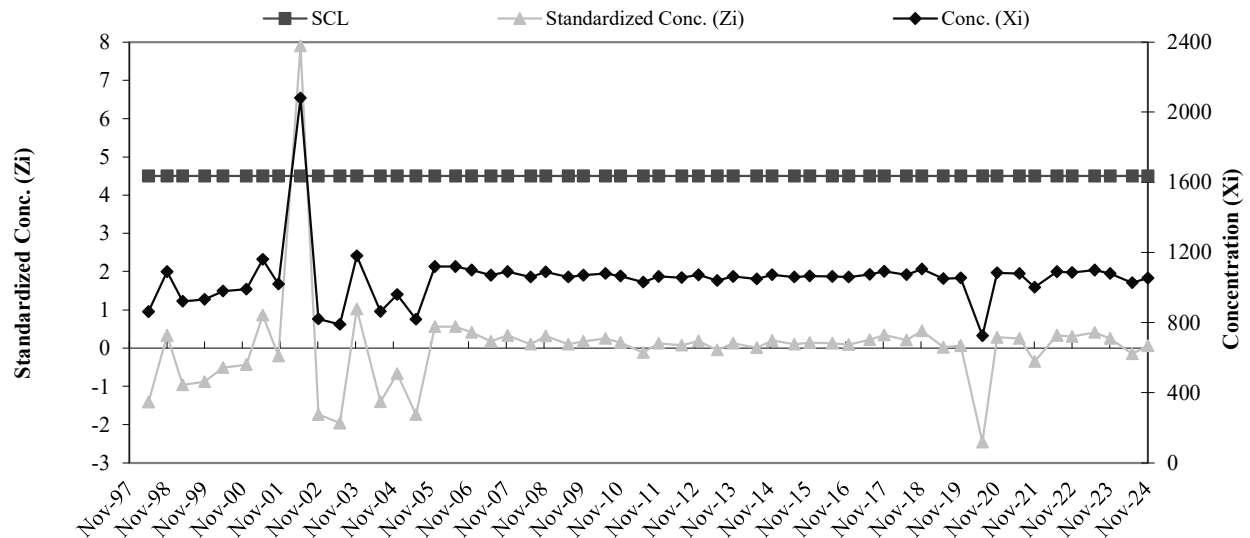


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-18A SpC**

| 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                    | 60 | Nov-24 | 4.5 | 1054       | 0.06                    |
| 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

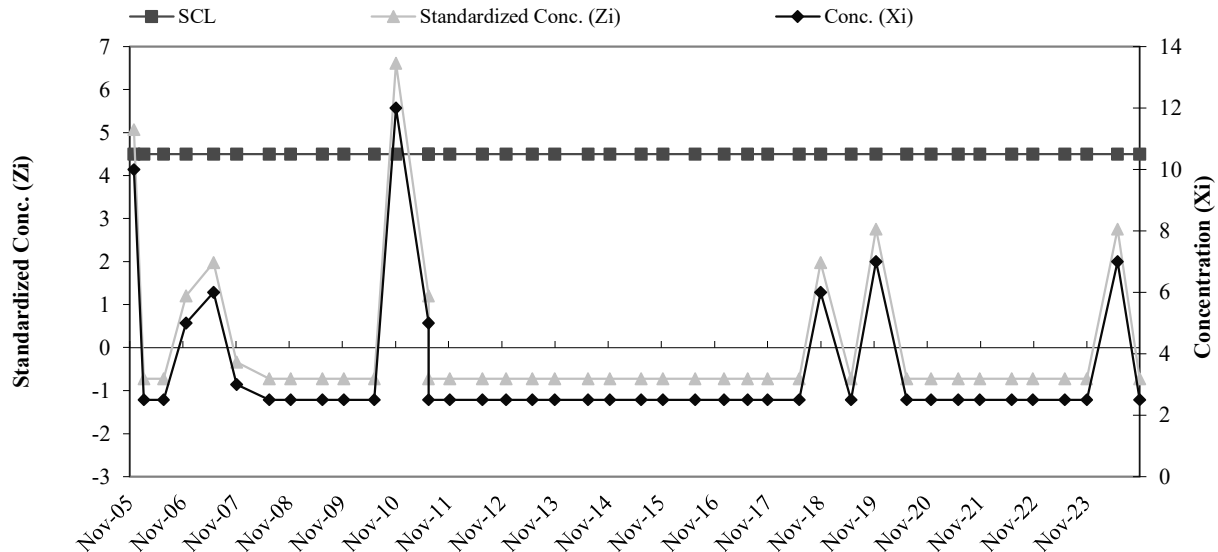


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-19AR Cr**

| 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                    | 49 | Nov-24 | 4.5 | 2.5        | -0.72                   |
| 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

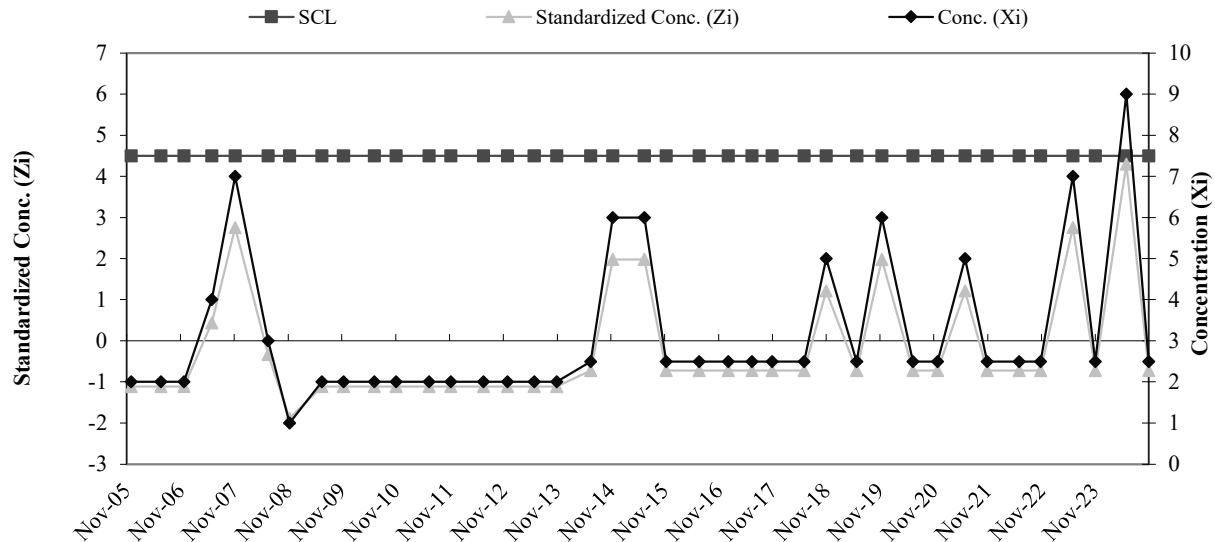


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-19AR Cu**

| 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                   | 47 | Nov-24 | 4.5 | 2.5        | -0.72                   |
| 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

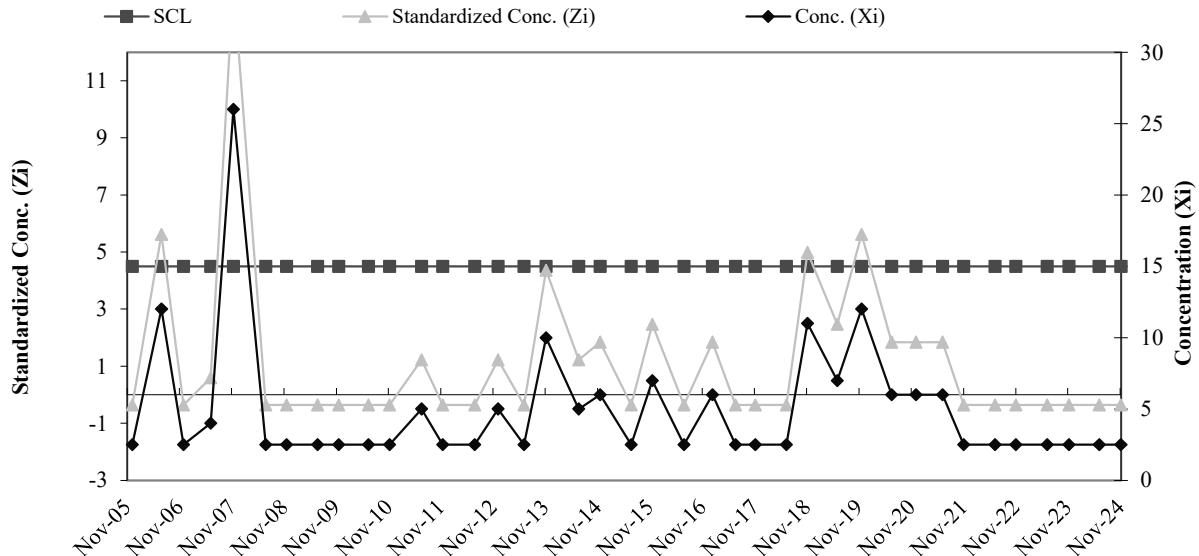


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-19AR Ni**

| 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                    | 48 | Nov-24 | 4.5 | 2.5        | -0.35                   |
| 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

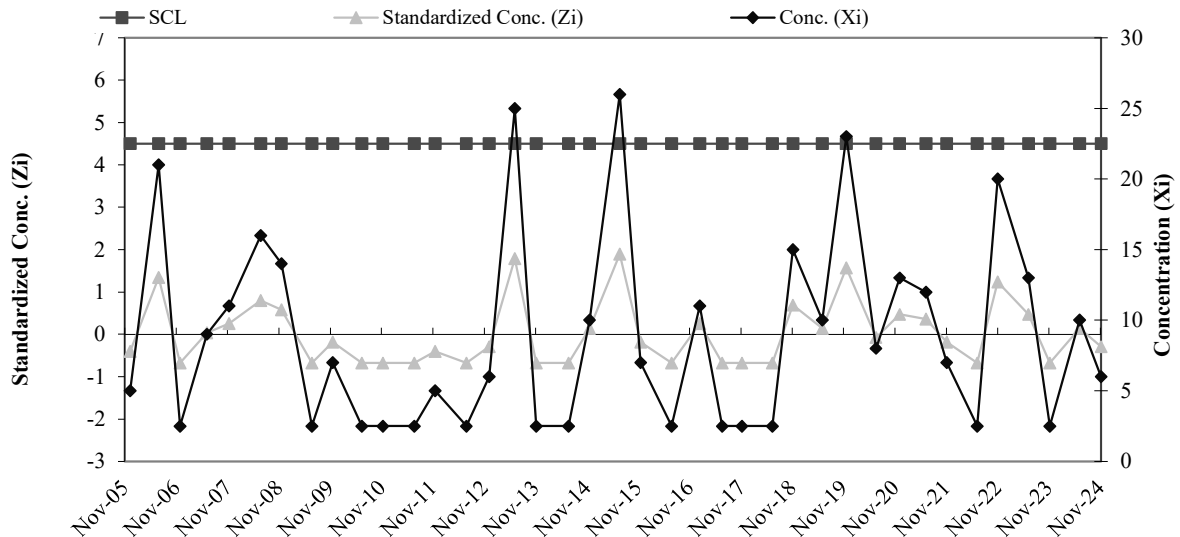


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-19AR Zn**

| 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                   | 47 | Nov-24 | 4.5 | 6          | -0.29                   |
| 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

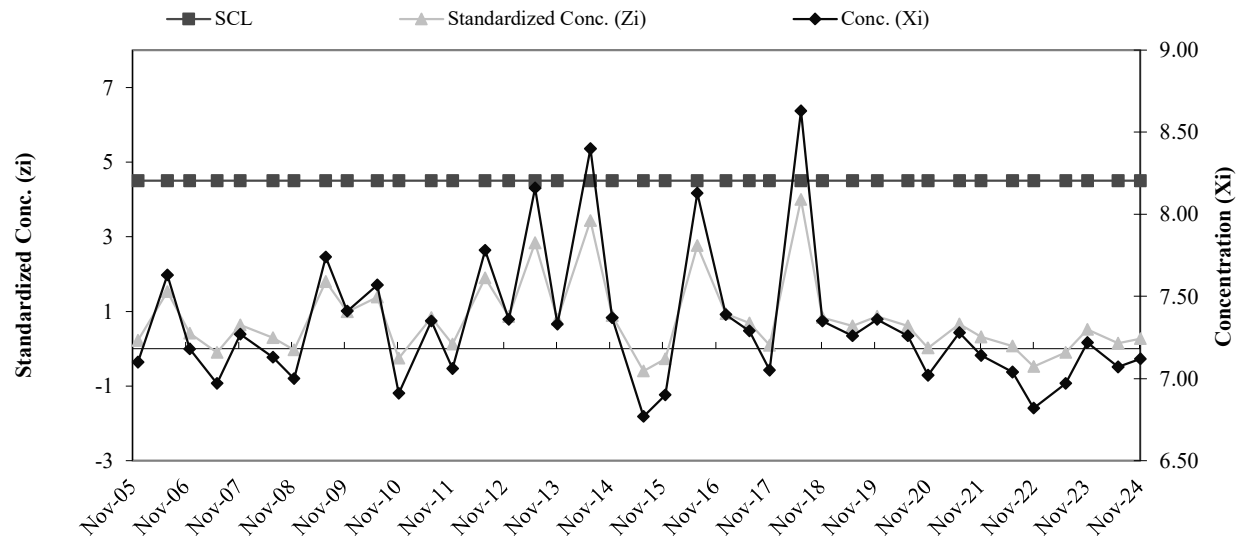


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-19AR pH**

| 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                    | 47 | Nov-24 | 4.5 | 7.12       | 0.27                    |
| 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

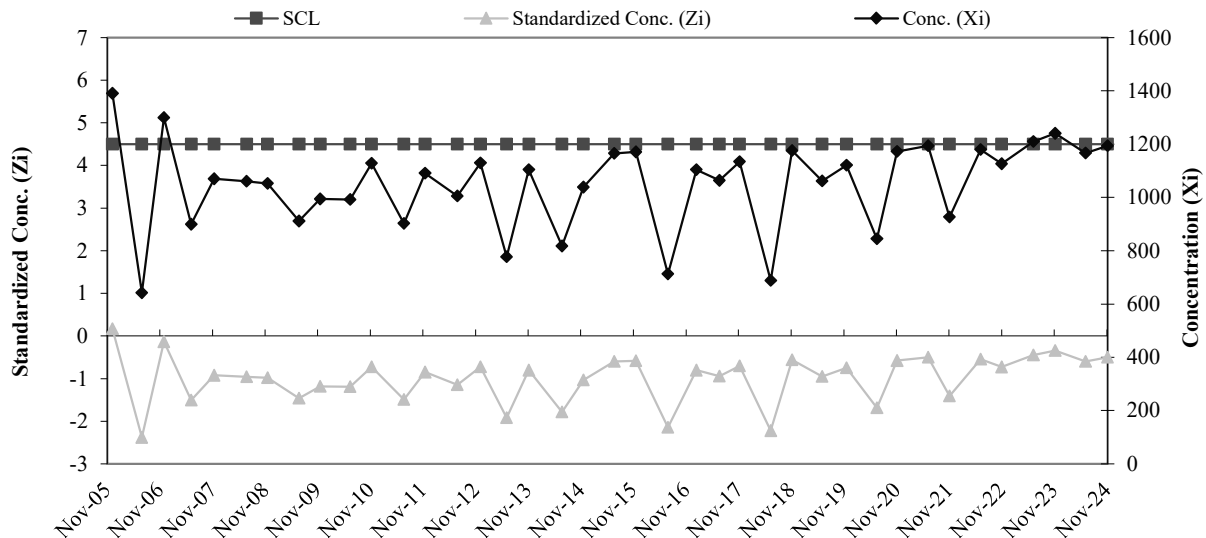


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-19AR SpC**

| 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                   | 47 | Nov-24 | 4.5 | 1194       | -0.50                   |
| 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

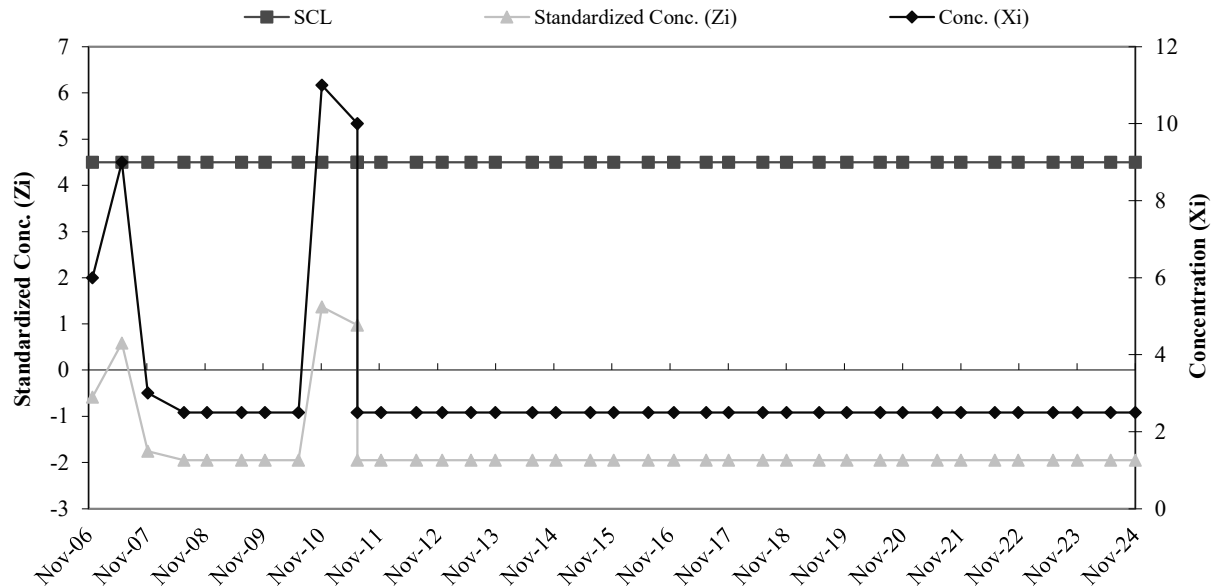


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-24R Cr**

| 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                   | 46 | Nov-24 | 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

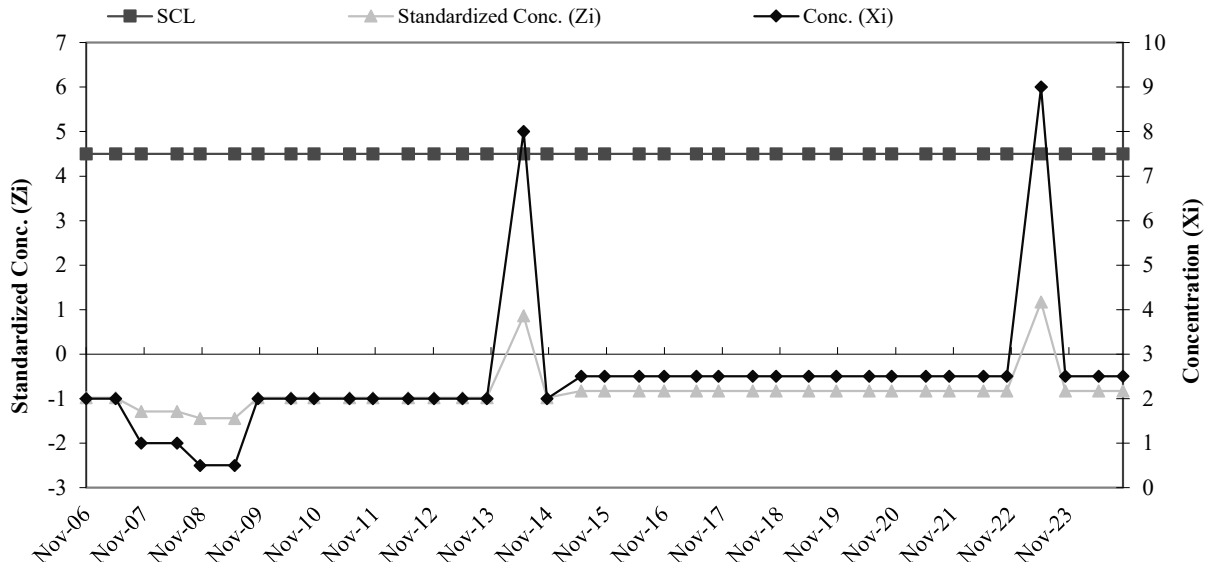


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-24R Cu**

| 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                   | 45 | Nov-24 | 4.5 | 2.5        | -0.83                   |
| 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

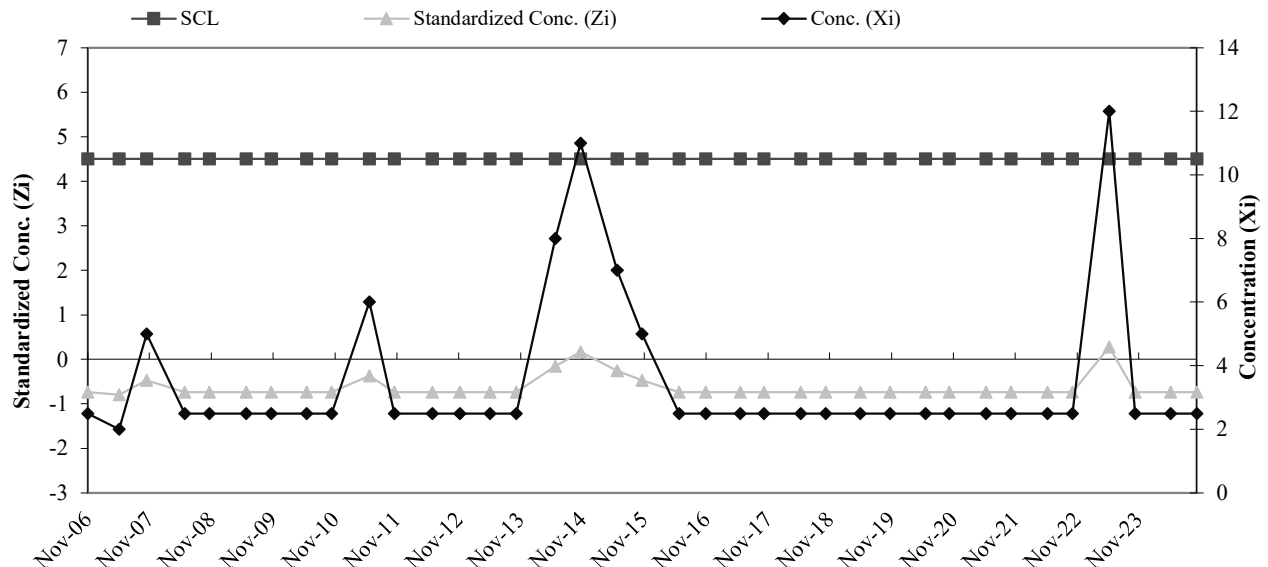


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-24R Ni**

| 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                   | 45 | Nov-24 | 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

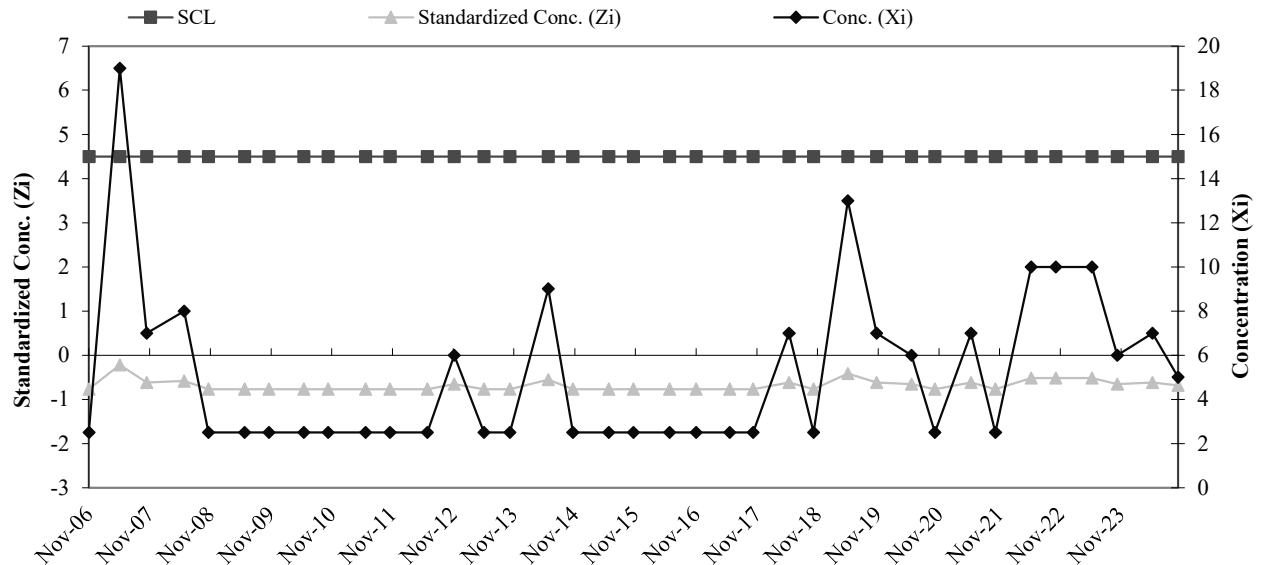


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-24R Zn**

| 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                   | 45 | Nov-24 | 4.5 | 5          | -0.68                   |
| 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

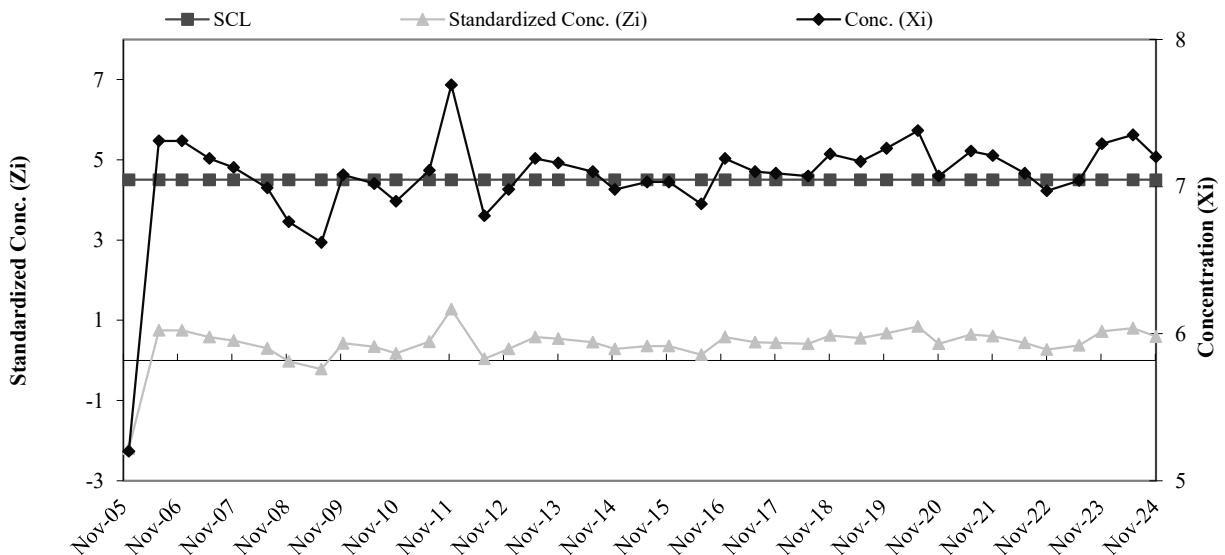


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-24R pH**

| 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                    | 45 | Nov-24 | 4.5 | 7.20       | 0.59                    |
| 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

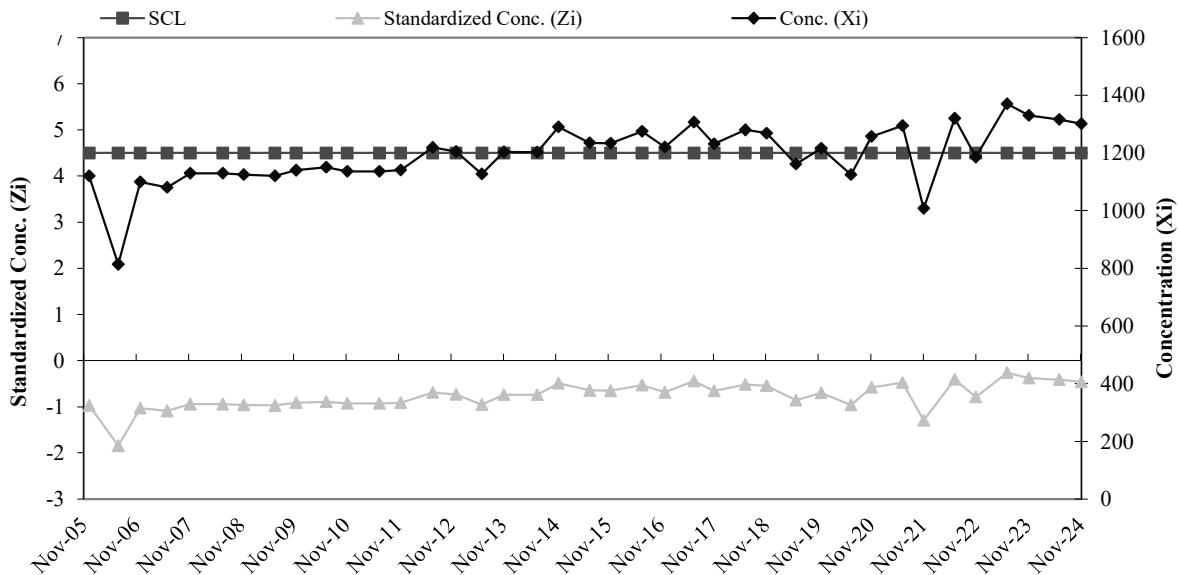


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-24R SpC**

| 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                   | 47 | Nov-24 | 4.5 | 1301       | -0.46                   |
| 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

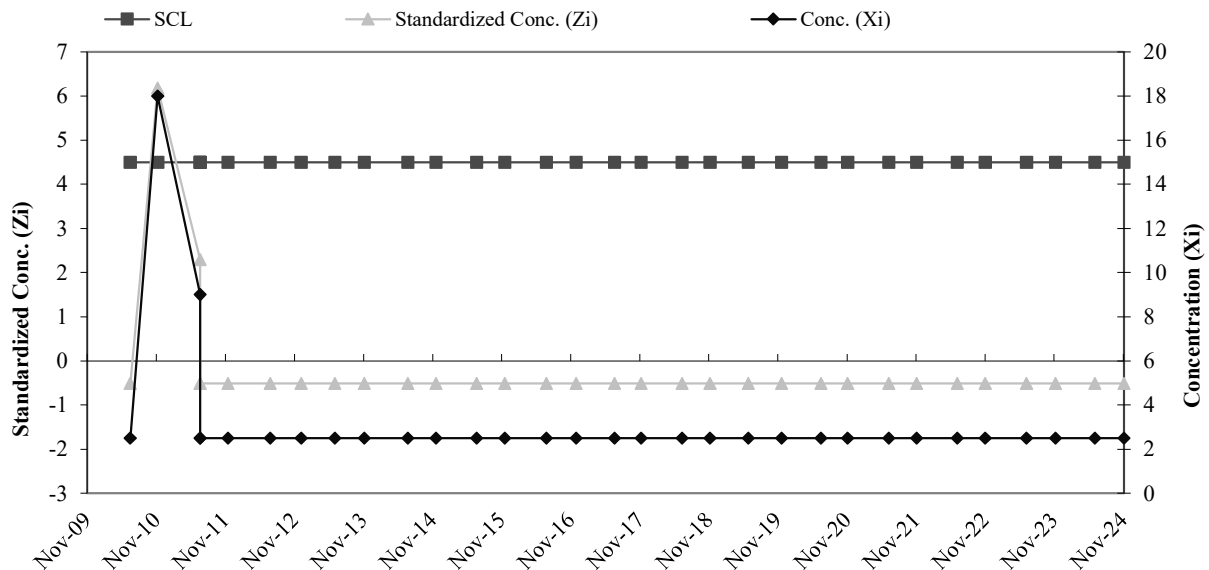


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-28 Cr**

| 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                   | 40 | Nov-24 | 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

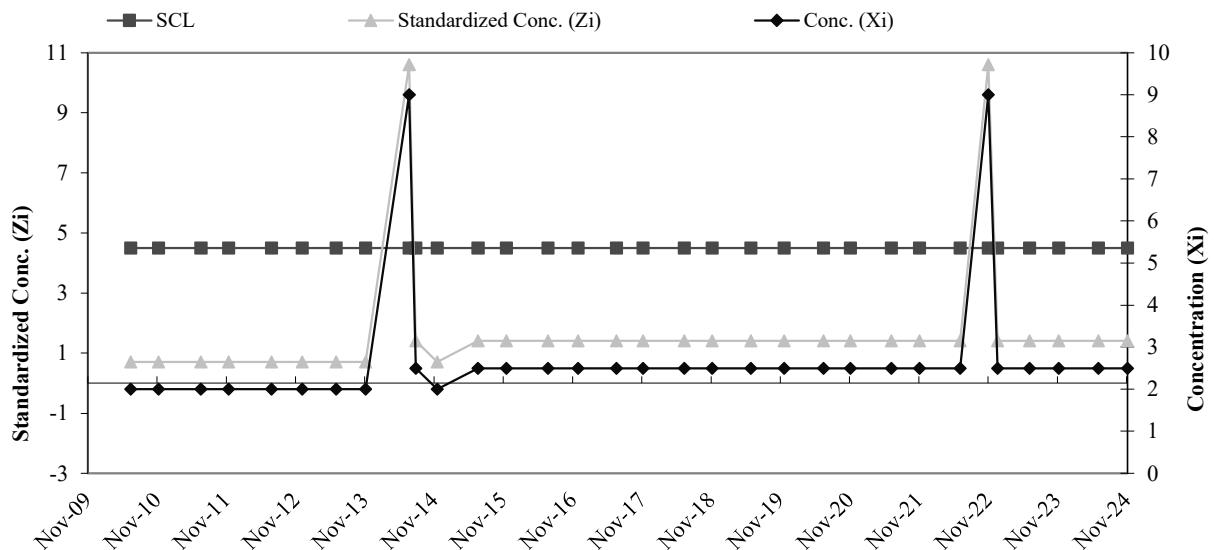


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-28 Cu**

| 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                    | 40 | Nov-24 | 4.5 | 2.5        | 1.41                    |
| 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

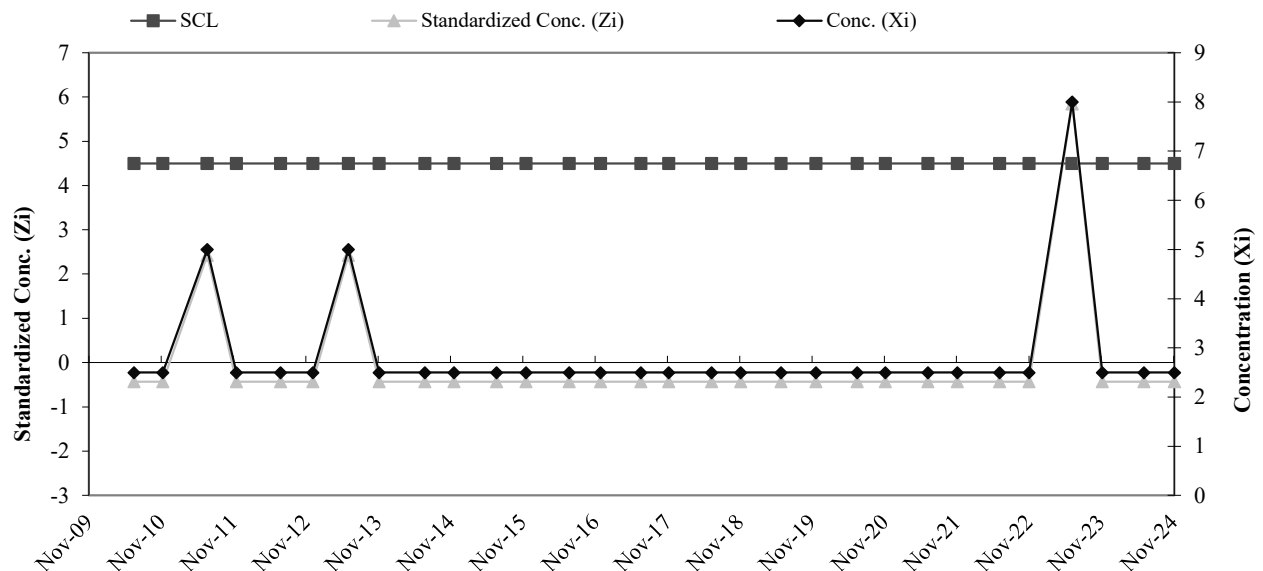


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-28 Ni**

| 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                   | 36 | Nov-24 | 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

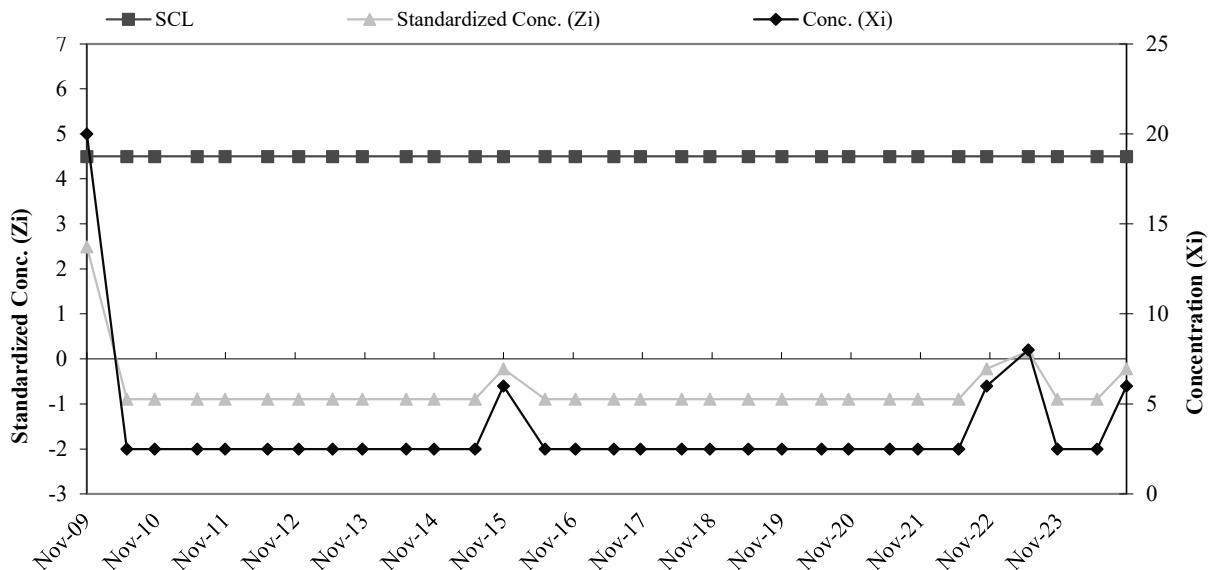


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-28 Zn**

| 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                   | 39 | Nov-24 | 4.5 | 6          | -0.22                   |
| 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

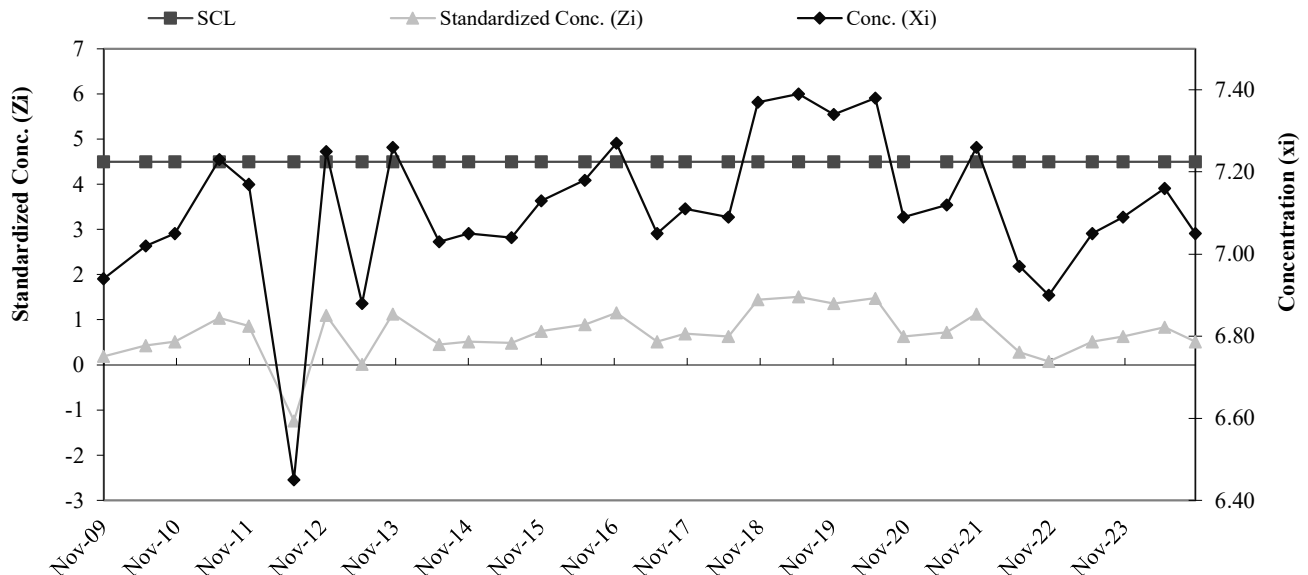


**COLDWATER ROAD LANDFILL FACILITY**  
**RCRA GROUND WATER DETECTION MONITORING SYSTEM**  
**SHEWART CONTROL CHART**  
**B-28 pH**

| 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                    | 39 | Nov-24 | 4.5 | 7.05       | 0.51                    |
| 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                   | 39 | Nov-24 | 4.5 | 942        | 1.57                    |
| 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

