Prepared for We Energies

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Project No. 1940102327

2023 CCR ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PLEASANT PRAIRIE POWER PLANT ASH LANDFILL



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APPENDICES

Appendix A Laboratory Reports

ACRONYMS AND ABBREVIATIONS

| § | Section |
|----------------|--|
| 40 C.F.R. | Title 40 of the Code of Federal Regulations |
| ACL | Alternative Concentration Limit |
| CCR | coal combustion residuals |
| ES | Enforcement Standard |
| ESAP | Environmental Sampling and Analysis Plan |
| mg/L | milligrams per liter |
| NA | not applicable |
| P4 | Pleasant Prairie Power Plant |
| PAL | Preventive Action Limit |
| Ramboll | Ramboll Americas Engineering Solutions, Inc. |
| SAP | Sampling and Analysis Plan |
| TBD | to be determined |
| TDS | total dissolved solids |
| WDNR | Wisconsin Department of Natural Resources |
| Wis. Adm. Code | Wisconsin Administrative Code |

EXECUTIVE SUMMARY

On August 1, 2022, the Wisconsin Department of Natural Resources (WDNR) updated Wisconsin Administrative Code (Wis. Adm. Code) Chapter (Ch.) NR 500 to include additional requirements for new and existing Coal Combustion Residual (CCR) Landfills in the State of Wisconsin. This report has been prepared to provide the information required by Ch. NR 507.15(3)(m) for the Pleasant Prairie Power Plant (P4) Ash Landfill located near Pleasant Prairie, Wisconsin.

As required in Ch. NR 514.045, a Plan of Operation Modification (Plan Mod), including an Environmental Sampling and Analysis Plan (ESAP) Addendum, was prepared for the above referenced CCR landfill to fulfill additional requirements related to the August 1, 2022 revisions to Ch. NR 500 and submitted to WDNR by February 1, 2023 for review and approval. WDNR determined in a letter dated April 28, 2023 that the Plan Mod was incomplete and requested additional information. A revised Plan Mod was prepared and submitted on December 15, 2023.

From 2016 through 2022 sampling at the P4 Ash Landfill was completed in accordance with the Detection Monitoring Program requirements specified in Title 40 of the Code of Federal Regulations (40 C.F.R.) Section (§) 257.94.

No changes were made to the monitoring system in 2023 (no wells were installed or decommissioned).

Comparisons of the concentrations of detected parameters to Ch. NR 140 standards (Preventive Action Limits [PALs] and Enforcement Standards [ESs]) were not completed because Alternative Concentration Limits (ACLs) for these parameters and proposed monitoring locations are pending WDNR approval.

In 2023, groundwater sampling was completed in accordance with Ch. NR 507.15(3)(L) (Detection Monitoring). Additional samples were collected to establish baseline groundwater quality for parameters listed in Ch. NR 507 Appendix I, Tables 1A and 3 that were not analyzed as part of the 40 C.F.R. § 257.94 Detection Monitoring Program.

1. INTRODUCTION

This report has been prepared by Ramboll Americas Engineering Solutions, Inc. (Ramboll) on behalf of We Energies to provide the information required by Ch. NR 507.15(3)(m) at the P4 Ash Landfill located in Pleasant Prairie, Wisconsin.

In accordance with Ch. NR 507.15(3)(m), the owner or operator of a CCR landfill must prepare an Annual Groundwater Monitoring and Corrective Action Report for the preceding calendar year that documents the status of the Groundwater Monitoring and Corrective Action Program for the CCR landfill (**Section 2**), summarizes key actions completed (**Section 3**), describes any problems encountered, discusses actions to resolve the problems (**Section 4**), and projects key activities for the upcoming year (**Section 5**). At a minimum, the annual report must contain the following information, to the extent available:

- 1. A map, aerial image, or diagram showing the CCR landfill and all upgradient and downgradient monitoring wells, including the well identification numbers, that are part of the groundwater monitoring for the CCR landfill (**Figure 1**).
- Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken (Section 3).
- 3. In addition to all the monitoring data obtained under Ch. NR 507.15(3)(L) (Tables 1 and 2), a summary including the number of groundwater samples that were collected for analysis for each upgradient and downgradient well, the dates the samples were collected, and whether the sample was required by Detection Monitoring or Assessment Monitoring (Section 3 and Table A).
- 4. A narrative discussion of any transition between monitoring including the date and circumstances for transitioning from Detection Monitoring to Assessment Monitoring (Section 2) in addition to identifying any constituents detected above Ch. NR 140 standards (Table A).
- A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action for the CCR landfill (Executive Summary). At a minimum, the summary shall include all of the following:
 - i. At the start of the current annual reporting period, whether the CCR landfill was operating under Detection Monitoring or Assessment Monitoring. (The P4 Ash Landfill began 2023 in Detection Monitoring.)
 - ii. At the end of the current annual reporting period, whether the CCR landfill was operating under Detection Monitoring or Assessment Monitoring. (The P4 Ash Landfill ended 2023 in Detection Monitoring.)
- iii. If it was determined by the owner or operator that there was a groundwater quality exceedance under Ch. NR 140 for one or more constituents listed under Ch. NR 507 Appendix I for CCR wells, a listing of those constituents, the names of the monitoring wells associated with the exceedances, and the date when the Assessment Monitoring was initiated for the CCR landfill. (Comparisons of the concentrations of detected parameters to NR 140 standards were not completed because ACLs for these parameters and proposed monitoring locations are pending WDNR approval.)

- iv. If corrective action measures were required, the date when the assessment of corrective measures was initiated for the CCR landfill, the date when the public informational hearing under Ch. NR 508.06(3)(e) was held for the discussion of the results of the remedial action options report, and the date when the assessment of corrective measures was completed. (Corrective action measures were not required for the P4 Ash Landfill in 2023).
- v. If a remedy was required under Ch. NR 508 during the annual reporting period, the date of remedy selection, and whether remedial activities were initiated or are ongoing during the annual reporting period. (A corrective action remedy was not required for the P4 Ash Landfill in 2023).

This report provides the required information for the P4 Ash Landfill for calendar year 2023.

2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

As required in Ch. NR 514.045, a Plan Mod, including an ESAP Addendum, was prepared for the P4 Ash Landfill to fulfill additional requirements related to the August 1, 2022 revisions to Ch. NR 500 and submitted to WDNR by February 1, 2023 for review and approval. WDNR determined in a letter dated April 28, 2023 that the Plan Mod was incomplete and requested additional information. A revised Plan Mod was prepared and submitted on December 15, 2023. Accordingly, no changes have occurred to the monitoring program status in calendar year 2023.

From 2016 through 2022 sampling at the P4 Ash Landfill was completed in accordance with the Detection Monitoring Program requirements specified in Title 40 of the Code of Federal Regulations (40 C.F.R.) Section (§) 257.94.

In 2023, groundwater sampling was completed in accordance with Ch. NR 507.15(3)(L) (Detection Monitoring). Additional samples were collected to establish baseline groundwater quality for parameters listed in Ch. NR 507 Appendix I, Tables 1A and 3 that were not collected as part of the 40 C.F.R. § 257.94 Detection Monitoring Program.

Comparisons of the concentrations of detected parameters to Ch. NR 140 standards (Preventive Action Limits [PALs] and Enforcement Standards [ESs]) were not completed because Alternative Concentration Limits (ACLs) for these parameters and proposed monitoring locations are pending WDNR approval.

In 2024, groundwater sampling will continue to be completed in accordance with Ch. NR 507.15(3)(L).

3. KEY ACTIONS COMPLETED IN 2023

The Detection Monitoring Program is summarized in **Table A** below. The groundwater monitoring system, including the CCR unit and all background (upgradient) and downgradient monitoring wells, is presented in **Figure 1**. No changes were made to the monitoring system in 2023. In general, one groundwater sample was collected from each background (upgradient) and downgradient well during each monitoring event. All samples were collected and analyzed in accordance with the *Sampling and Analysis Plan* (SAP), *Revision 1, Pleasant Prairie Power Plant Ash Landfill* (Ramboll, 2023) submitted as Appendix B of the ESAP Addendum. Potentiometric surface maps for the fourth quarter of 2022 and both monitoring events in 2023 are included in **Figures 2 through 4**. Water level data, collected from background and downgradient monitoring wells, are included in **Table 1**. All monitoring data and analytical results obtained under Ch. NR 507.15(3)(L) (as applicable) in the fourth quarter of 2022 and all monitoring events in 2023 are presented in **Table 2**. Laboratory reports for all 2023 monitoring events are included in **Appendix A**¹.

In 2023, groundwater sampling was completed in accordance with Ch. NR 507.15(3)(L) with additional sampling to establish baseline groundwater quality for select parameters listed in Ch. NR 507 Appendix I, Tables 1A and 3 not analyzed as part of the 40 C.F.R. § 257.94 Detection Monitoring Program conducted from 2016-2022. Sampling occurred monthly starting in January of 2023 and extending through October of 2023. **Table 2** and **Appendix A** include all analytical results and laboratory reports for the monitoring events. A total of 8 samples have been collected from each monitoring well and analyzed for each parameter listed in Ch. NR 507 Appendix I Tables 1A and 3.

| Sampling Date | Purpose | Analytical Data Receipt Date | Parameters Analyzed |
|------------------|----------------------|---------------------------------|-------------------------|
| October 5, 2022 | Detection Monitoring | December 5, 2022 | 40 C.F.R. § 257 |
| | | | Appendix III |
| January 30, 2023 | Baseline Sampling | March 2, 2023 | Total Alkalinity |
| | | | Total Calcium |
| | | | Total Copper |
| | | | Total Hardness |
| | | | Total Magnesium |
| | | | Total Manganese |
| | | | Total Nitrate + Nitrite |
| | | | Field pH |
| | | | Total Silver |
| | | | Total Zinc |
| March 6, 2023 | Baseline Sampling | June 26, 2023 | Total Alkalinity |
| | | | Total Calcium |
| | | | Total Copper |
| | | | Total Hardness |
| | | | Total Magnesium |
| | | | Total Manganese |
| | | | Total Nitrate + Nitrite |

Table A. 2022-2023 Detection Monitoring Program Summary

¹ Laboratory reports for the fourth quarter of 2022 monitoring event were provided in the 2022 annual report.

| March 6, 2023 cont.Baseline SamplingJune 26, 2023Field pH Total Silver Total ZincApril 11, 2023Detection Monitoring & Baseline SamplingMay 3, 2023Ch. NR 507 App A Tables 1 A and 3May 15, 2023Baseline SamplingMay 23, 2023Total Akalinity (W74 only) Total Calcium Total Magnesse Total ManganesseMay 15, 2023Baseline SamplingMay 23, 2023Total Akalinity (W74 only) Total Calcium Total ManganesseJune 14, 2023Baseline SamplingJuly 7, 2023Total Akalinity (W74 only) Total Calcium Total Manganesse Total ManganesseJune 14, 2023Baseline SamplingJuly 7, 2023Total Calcium Total Manganesse Total Man | Sampling Date | Purpose | Analytical Data Receipt Date | Parameters Analyzed |
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| September 21, 2023 Baseline Sampling October 6, 2023 Total Calcium Total Capper Total Copper Total Magnesium Total Magnese Total Nitrate + Nitrite | | | | |
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| Total Hardness Total Magnesium Total Manganese Total Nitrate + Nitrite | September 21, 2023 | Baseline Sampling | October 6, 2023 | |
| Total Magnesium Total Manganese Total Nitrate + Nitrite | | | | |
| Total Manganese Total Nitrate + Nitrite | | | | |
| Total Nitrate + Nitrite | | | | |
| | | | | |
| | | | | Field pH |

2023 CCR Annual Groundwater Monitoring and Corrective Action Report Pleasant Prairie Power Ash Landfill

| Sampling Date | Purpose | Analytical Data Receipt Date | Parameters Analyzed |
|--------------------|----------------------|---------------------------------|-------------------------|
| September 21, 2023 | Baseline Sampling | October 6, 2023 | Total Silver |
| cont. | | | Total Zinc |
| October 26 and 30, | Detection Monitoring | December 1, 2023 | Ch. NR 507 App A Tables |
| 2023 | & Baseline Sampling | | 1A and 3 (Except Total |
| | | | Alkalinity) |

4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

No problems were encountered with the Groundwater Monitoring Program during 2023. Groundwater samples were collected and analyzed in accordance with the SAP and all data were accepted.

5. KEY ACTIVITIES PLANNED FOR 2024

The following key activities are planned for 2024:

- Detection Monitoring in accordance with Ch. NR 507.15(3)(L) with semi-annual sampling scheduled for the second and fourth quarters of 2024. Expanded leachate sampling also to occur as listed in Ch. NR 507 Appendix I, Tables 4 and 5 as applicable.
- Complete evaluation of analytical data from the compliance wells against Ch. NR 140 standards including Preventive Action Limits, Enforcement Standards, and/or ACLs, following WDNR approval.
- A notification will be provided to WDNR when results indicate concentrations have attained or exceeded groundwater standards in accordance with Ch. NR 507.30. The notification shall specify the parameters that have attained or exceeded standards, the wells at which the standards (PAL, ES, or ACL) were attained or exceeded, and provide a preliminary analysis of the cause and significance of each concentration in accordance with Chs. NR 140.24(1)(a) or 140.26(1)(a). The notification shall also include the intent to either begin Assessment Monitoring or determine whether a false exceedance occurred.
- As described in Chs. NR 508.06(1)(c) and NR 507.28(3), if a groundwater standard exceedance is detected in a CCR well, a demonstration may be completed to indicating a source other than P4 is the cause or the exceedance is due to an error.
 - If WDNR concurs with the false exceedance demonstration within 30 days of receipt, Detection Monitoring will continue.
 - If WDNR does not concur within 30 days, an Assessment Monitoring Program in accordance with Ch. NR 508.06(2) will be initiated following discussion with WDNR.

6. **REFERENCES**

Ramboll Americas Engineering Solutions, Inc., 2023, *Sampling and Analysis Plan Revision 1*, *Pleasant Prairie Power Plant Ash Landfill, Pleasant Prairie, Wisconsin*. December 14, 2023.

TABLES

TABLE 1 GROUNDWATER ELEVATIONS

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PLEASANT PRAIRIE POWER PLANT ASH LANDFILL PLEASANT PRAIRIE, WI

| Well ID | Well Type | Latitude (Degrees, minutes, seconds) | Longitude (Degrees, minutes, seconds) | Date | Groundwater Elevation (ft NAVD88) |
|---------|------------------------------|---|--|------------|---|
| | | | | 10/05/2022 | 666.09 |
| W20D | Background (Upgradient) | 42°33'51.3592" | -87°54'15.0776" | 4/11/2023 | 672.57 |
| | (0)9.32.01.0 | | | 10/26/2023 | 666.60 |
| | | | | 10/05/2022 | 666.86 |
| W77 | Background (Upgradient) | 42°33'45.2513" | -87°53'54.2383″ | 4/11/2023 | 671.20 |
| | (opgradient) | | | 10/30/2023 | 666.99 |
| | | 42°33'57.0560" | -87°53'57.3214" | 10/05/2022 | 667.59 |
| W73 | Compliance (Downgradient) | | | 4/11/2023 | 670.14 |
| | | | | 10/30/2023 | 666.12 |
| | | | | 10/05/2022 | 663.50 |
| W74 | Compliance (Downgradient) | 42°33'56.9099" | -87°54'14.3343" | 4/11/2023 | 668.92 |
| | | | | 10/30/2023 | 663.83 |
| | | | | 10/05/2022 | 664.58 |
| W75 | Compliance (Downgradient) | 42°33'56.8116" | -87°54'08.8120" | 4/11/2023 | 669.93 |
| | | | | 10/30/2023 | 665.32 |
| | | | | 10/05/2022 | 665.38 |
| W76 | Compliance (Downgradient) | 42°33'56.4738" | -87°54'01.8036" | 4/11/2023 | 669.88 |
| | | | | 10/30/2023 | 665.62 |

Notes:

ft = foot/feet

NAVD88 = North American Vertical Datum of 1988



Date Range: 10/01/2022 to 12/31/2023

Lab Methods:

| Well Id | Date Sampled | Lab Id | Alkalinity, lab, mg/L | Boron, total, mg/L | Calcium, total, mg/L | Chloride, total, mg/L | Copper, tot, ug/L | Fluoride, total, mg/L |
|---------|-----------------|-------------|--------------------------|--------------------|-------------------------|--------------------------|-------------------|--------------------------|
| W20D | 10/5/2022 | AE62999 | 116.0 | 0.403 | 23.7 | 11.9 | | 1.10 |
| | 1/30/2023 | AE64759 | 111.0 | | 25.0 | | <0.65 | |
| | 3/6/2023 | AE65326 | 118.0 | | 25.5 | | <1.60 | |
| | 4/11/2023 | AE65951 | 110.0 | 0.460 | 24.0 | 11.0 | <4.00 | 1.00 |
| | 5/15/2023 | AE66588 | | | 23.7 | | 5.00 | |
| | 6/14/2023 | AE67175 | | | 24.0 | | <4.00 | |
| | 7/17/2023 | 40265339001 | | | 25.4 | | <3.40 | |
| | 8/17/2023 | AE68378 | | | 24.1 | | <3.40 | |
| | 9/21/2023 | AE68994 | | | 25.6 | | <8.40 | |
| | 10/26/2023 | AE69710 | 118.0 | 0.451 | 24.2 | 11.6 | | 1.10 |
| W73 | 10/5/2022 | AE63007 | 115.0 | 0.437 | 21.2 | 11.6 | | 1.10 |
| | 1/30/2023 | AE64760 | 114.0 | | 20.0 | | 0.95 | |
| | 3/6/2023 | AE65327 | 116.0 | | 23.7 | | 2.00 | |
| | 4/11/2023 | AE65960 | 110.0 | 0.440 | 18.0 | 12.0 | <4.00 | 1.00 |
| | 5/15/2023 | AE66589 | | | 18.6 | | 5.00 | |
| | 6/14/2023 | AE67176 | | | 19.0 | | <4.00 | |
| | 7/17/2023 | 40265339002 | | | 18.6 | | <3.40 | |
| | 8/17/2023 | AE68379 | | | 20.6 | | <3.40 | |
| | 9/21/2023 | AE68995 | | | 23.2 | | <3.40 | |
| | 10/30/2023 | AE69690 | 120.0 | 0.447 | 19.0 | 11.2 | | 1.10 |
| W74 | 10/5/2022 | AE63003 | 107.0 | 0.395 | 19.4 | 15.5 | | 1.10 |
| | 3/6/2023 | AE65328 | 114.0 | | 19.6 | | <1.60 | |
| | 4/11/2023 | AE65954 | 100.0 | 0.410 | 19.0 | 14.0 | <4.00 | 1.00 |
| | 5/15/2023 | AE66590 | 102.0 | | 18.9 | | <4.00 | |
| | 6/14/2023 | AE67177 | | | 18.0 | | <4.00 | |

| Lab Methods | 5: | | | _ | | | - | |
|-------------|------------|-------------|--------------------------|--------------------|-------------------------|--------------------------|-------------------|--------------------------|
| | | | Alkalinity, lab, mg/L | Boron, total, mg/L | Calcium, total, mg/L | Chloride, total, mg/L | Copper, tot, ug/L | Fluoride, total, mg/L |
| W74 | 7/17/2023 | 40265339003 | | | 20.0 | | <3.40 | |
| | 8/17/2023 | AE68380 | | | 18.8 | | <3.40 | |
| | 9/21/2023 | AE68996 | | | 18.7 | | 3.70 | |
| | 10/30/2023 | AE69691 | 112.0 | 0.423 | 19.4 | 13.2 | <3.40 | 1.10 |
| W75 | 10/5/2022 | AE63004 | 124.0 | 0.404 | 18.2 | 9.6 | | 1.10 |
| | 1/30/2023 | AE64761 | 121.0 | | 20.0 | | <0.65 | |
| | 3/6/2023 | AE65329 | 126.0 | | 20.2 | | <1.60 | |
| | 4/11/2023 | AE65955 | 120.0 | 0.430 | 19.0 | 8.9 | <4.00 | 1.00 |
| | 5/15/2023 | AE66591 | | | 18.6 | | <4.00 | |
| | 6/14/2023 | AE67178 | | | 19.0 | | <4.00 | |
| | 7/17/2023 | 40265339004 | | | 19.6 | | <3.40 | |
| | 8/17/2023 | AE68381 | | | 18.9 | | <3.40 | |
| | 9/21/2023 | AE68997 | | | 20.1 | | 4.70 | |
| | 10/30/2023 | AE69686 | 124.0 | 0.434 | 19.4 | 8.7 | | 1.20 |
| W76 | 10/5/2022 | AE63005 | 118.0 | 0.428 | 18.8 | 11.0 | | 1.00 |
| | 1/30/2023 | AE64762 | 115.0 | | 19.0 | | <0.65 | |
| | 3/6/2023 | AE65330 | 118.0 | | 19.4 | | <1.60 | |
| | 4/11/2023 | AE65958 | 110.0 | 0.450 | 18.0 | 11.0 | <4.00 | 0.90 |
| | 5/15/2023 | AE66592 | | | 18.1 | | 5.00 | |
| | 6/14/2023 | AE67179 | | | 18.0 | | <4.00 | |
| | 7/17/2023 | 40265339005 | | | 19.3 | | 3.50 | |
| | 8/17/2023 | AE68382 | | | 18.4 | | <3.40 | |
| | 9/21/2023 | AE68998 | | | 19.0 | | <3.40 | |
| | 10/30/2023 | AE69688 | 122.0 | 0.450 | 18.9 | 10.6 | | 1.10 |
| W77 | 10/5/2022 | AE63008 | 153.0 | 0.414 | 23.4 | 8.8 | | 1.20 |
| | 1/30/2023 | AE64763 | 150.0 | | 25.0 | | 1.50 | |
| | | | | | | | | |

Date Range: 10/01/2022 to 12/31/2023

| Date Range: 10/01/2022 to 12/31/2023 | | | | | | | | |
|--------------------------------------|------------|-------------|--------------------------|--------------------|-------------------------|--------------------------|-------------------|--------------------------|
| Lab Metho | ods: | | Alkalinity, lab, mg/L | Boron, total, mg/L | Calcium, total, mg/L | Chloride, total, mg/L | Copper, tot, ug/L | Fluoride, total, mg/L |
| W77 | 3/6/2023 | AE65331 | 157.0 | | 25.1 | | <1.60 | |
| | 4/11/2023 | AE65956 | 150.0 | 0.420 | 24.0 | 8.9 | <4.00 | 1.10 |
| | 5/15/2023 | AE66593 | | | 23.9 | | 5.00 | |
| | 6/14/2023 | AE67180 | | | 23.0 | | <4.00 | |
| | 7/17/2023 | 40265339006 | | | 24.1 | | 7.50 | |
| | 8/17/2023 | AE68383 | | | 22.4 | | 4.10 | |
| | 9/21/2023 | AE68999 | | | 25.4 | | <3.40 | |
| | 10/30/2023 | AE69689 | 147.0 | 0.428 | 24.5 | 8.1 | | 1.20 |

Date Range: 10/01/2022 to 12/31/2023

Lab Methods:

| Well Id | Date Sampled | Lab Id | Hardness, tot, mg/L | Magnesium, total, mg/L | Manganese, total, ug/L | Nitrite + Nitrate, total, mg/L | pH (Field), SU | Silver, tot, ug/L |
|---------|-----------------|------------------------|------------------------|---------------------------|---------------------------|-----------------------------------|----------------|-------------------|
| W20D | 10/5/2022 | AE62999 | | | | | 7.1 | |
| | 1/30/2023 | AE64759 | 130.00 | 16.00 | 46.0 | 0.950 | 7.6 | <2.600 |
| | 3/6/2023 | AE65326 | 130.00 | 16.50 | 37.0 | 0.159 | 8.1 | <0.800 |
| | 4/11/2023 | AE65951 | 130.00 | 16.00 | 30.0 | <0.400 | 7.8 | <20.000 |
| | 5/15/2023 | AE66588 | 126.00 | 16.10 | 40.0 | 0.600 | 7.7 | <20.000 |
| | 6/14/2023 | AE67175 | 130.00 | 16.00 | 30.0 | 0.640 | 8.5 | 20.000 |
| | 7/17/2023 | 40265339001 AE67784 | 133.00 | 17.00 | 37.1 | 0.680 | 8.0 | <3.200 |
| | 8/17/2023 | AE68378 | 125.00 | 15.60 | 61.4 | 1.720 | 8.1 | <3.200 |
| | 9/21/2023 | AE68994 | 133.00 | 16.80 | 21.9 | 1.300 | 7.9 | <8.000 |
| | 10/26/2023 | AE69710 | 131.00 | | | | 7.5 | |
| N73 | 10/5/2022 | AE62974 | | | | | 8.3 | |
| | 1/30/2023 | AE64760 | 100.00 | 13.00 | 8.7 | 0.130 | 8.1 | <2.600 |
| | 3/6/2023 | AE65327 | 120.00 | 14.70 | 26.0 | 0.129 | 8.7 | <1.200 |
| | 4/11/2023 | AE65960 AE65978 | 94.00 | 12.00 | 7.0 | <0.400 | 8.3 | <20.000 |
| | 5/15/2023 | AE66589 | 108.00 | 14.90 | 10.0 | <0.400 | 8.3 | <20.000 |
| | 6/14/2023 | AE67176 | 48.00 | 0.02 | 20.0 | 0.610 | 9.0 | <20.000 |
| | 7/17/2023 | 40265339002 AE67785 | 97.40 | 12.40 | 4.3 | 0.590 | 7.5 | <3.200 |
| | 8/17/2023 | AE68379 | 104.00 | 12.90 | 21.5 | 1.600 | 9.1 | <3.200 |
| | 9/21/2023 | AE68995 | 118.00 | 14.60 | 26.9 | 2.200 | 8.4 | <3.200 |
| | 10/30/2023 | AE69690 | 98.70 | | | | 8.2 | |
| N74 | 10/5/2022 | AE63003 | | | | | 7.9 | |
| | 3/6/2023 | AE65328 | 110.00 | 15.20 | 24.0 | 0.157 | 8.2 | <1.200 |
| | 4/11/2023 | AE65954 | 110.00 | 15.00 | 50.0 | <0.400 | 7.5 | <20.000 |

| Lab Method | ls: | | | | | | | |
|------------|------------|------------------------|------------------------|---------------------------|---------------------------|-----------------------------------|----------------|-------------------|
| | | | Hardness, tot, mg/L | Magnesium, total, mg/L | Manganese, total, ug/L | Nitrite + Nitrate, total, mg/L | pH (Field), SU | Silver, tot, ug/L |
| W74 | 5/15/2023 | AE66590 | 109.00 | 15.10 | 10.0 | 0.660 | 8.0 | <20.000 |
| | 6/14/2023 | AE67177 | 110.00 | 15.00 | 10.0 | 0.620 | 8.8 | <20.000 |
| | 7/17/2023 | 40265339003 AE67786 | 113.00 | 15.40 | 14.3 | 0.640 | 7.6 | <3.200 |
| | 8/17/2023 | AE68380 | 107.00 | 14.50 | 16.7 | 1.050 | 8.9 | <3.200 |
| | 9/21/2023 | AE68996 | 107.00 | 14.60 | 2.7 | 1.900 | 7.5 | <3.200 |
| | 10/30/2023 | AE69691 | 111.00 | | 16.7 | 0.065 | 8.2 | <3.200 |
| W75 | 10/5/2022 | AE63004 | | | | | 8.1 | |
| | 1/30/2023 | AE64761 | 100.00 | 13.00 | 11.0 | 0.150 | 8.2 | <2.600 |
| | 3/6/2023 | AE65329 | 110.00 | 13.60 | 12.0 | 0.131 | 8.3 | <1.200 |
| | 4/11/2023 | AE65955 | 100.00 | 13.00 | 10.0 | <0.400 | 8.1 | <20.000 |
| | 5/15/2023 | AE66591 | 99.80 | 13.00 | 5.0 | <0.400 | 8.1 | <20.000 |
| | 6/14/2023 | AE67178 | 100.00 | 13.00 | 7.0 | 0.710 | 8.9 | <20.000 |
| | 7/17/2023 | 40265339004 AE67787 | 104.00 | 13.30 | 10.5 | 0.690 | 7.7 | <3.200 |
| | 8/17/2023 | AE68381 | 98.90 | 12.50 | 10.1 | 1.230 | 8.8 | <3.200 |
| | 9/21/2023 | AE68997 | 106.00 | 13.40 | 2.1 | 1.600 | 7.4 | <3.200 |
| | 10/30/2023 | AE69686 | 102.00 | | | | 7.4 | |
| W76 | 10/5/2022 | AE63005 | | | | | 8.2 | |
| | 1/30/2023 | AE64762 | 97.00 | 12.00 | 35.0 | 0.140 | 8.3 | <2.600 |
| | 3/6/2023 | AE65330 | 100.00 | 12.50 | 30.0 | 0.132 | 8.8 | <1.200 |
| | 4/11/2023 | AE65958 | 95.00 | 12.00 | 20.0 | <0.400 | 8.2 | <20.000 |
| | 5/15/2023 | AE66592 | 94.80 | 12.00 | 10.0 | <0.400 | 8.3 | <20.000 |
| | 6/14/2023 | AE67179 | 94.00 | 12.00 | 8.0 | 0.680 | 9.1 | <20.000 |
| | 7/17/2023 | 40265339005 AE67788 | 99.90 | 12.60 | 10.8 | 0.860 | 7.2 | <3.200 |
| | 8/17/2023 | AE68382 | 94.70 | 11.80 | 14.0 | 7.230 | 9.1 | <3.200 |

Date Range: 10/01/2022 to 12/31/2023

| Lab Methods | • | | | | | | | |
|-------------|------------|------------------------|------------------------|---------------------------|---------------------------|-----------------------------------|----------------|-------------------|
| | • | | Hardness, tot, mg/L | Magnesium, total, mg/L | Manganese, total, ug/L | Nitrite + Nitrate, total, mg/L | pH (Field), SU | Silver, tot, ug/L |
| W76 | 9/21/2023 | AE68998 | 98.00 | 12.20 | 12.2 | 1.900 | 8.5 | <3.200 |
| | 10/30/2023 | AE69688 | 96.90 | | | | 8.3 | |
| W77 | 10/5/2022 | AE63008 | | | | | 7.6 | |
| | 1/30/2023 | AE64763 | 120.00 | 14.00 | 90.0 | 0.150 | 7.7 | <2.600 |
| | 3/6/2023 | AE65331 | 120.00 | 13.90 | 73.0 | 0.129 | 7.9 | <1.200 |
| | 4/11/2023 | AE65956 | 120.00 | 13.00 | 70.0 | <0.400 | 7.7 | <20.000 |
| | 5/15/2023 | AE66593 | 115.00 | 13.40 | 60.0 | 0.520 | 7.7 | <20.000 |
| | 6/14/2023 | AE67180 | 110.00 | 13.00 | 50.0 | 0.790 | 8.6 | <20.000 |
| | 7/17/2023 | 40265339006 AE67789 | 115.00 | 13.30 | 21.0 | 0.890 | 7.3 | <3.200 |
| | 8/17/2023 | AE68383 | 107.00 | 12.30 | 19.6 | 1.530 | 8.3 | <3.200 |
| | 9/21/2023 | AE68999 | 121.00 | 14.00 | 64.9 | 1.900 | 7.9 | <3.200 |
| | 10/30/2023 | AE69689 | 117.00 | | | | 7.8 | |
| | | | | | | | | |

Date Range: 10/01/2022 to 12/31/2023

Date Range: 10/01/2022 to 12/31/2023

Lab Methods:

| 1/30/203AE847594.503/6/203AE653204/11/203AE65951170380-5/15/203AE65886/14/203AE671756/14/203AE6330017/17/203AE6337018/17/203AE683789/21/203AE699410/26/203AE6971018210/26/203AE697018210/26/203AE676010/2023AE676010/2023AE676010/2023AE677610/1/203AE659610/1/203AE659710/1/203AE659710/1/203AE659710/1/203AE659710/1/203AE659710/1/203AE659710/1/203AE639010/1/203AE699010/1/203AE699010/1/203AE699013233- | Well Id | Date Sampled | Lab Id | Sulfate, total, mg | ŋ/L TDS, mg/L | Zinc, tot, ug/L |
|---|---------|-----------------|-------------|--------------------|---------------|-----------------|
| 36/2020AE65326 <t< td=""><td>W20D</td><td>10/5/2022</td><td>AE62999</td><td>178</td><td>388</td><td></td></t<> | W20D | 10/5/2022 | AE62999 | 178 | 388 | |
| 4/11/2023AE65951170380<20.005/15/2023AE65380-6/14/2023AE67175-7/17/2023AE68378-8/17/2023AE68378-10/26/2023AE6971018210/26/2023AE697018210/26/2023AE697013129811/2023AE6597-10/2023AE6597-10/2023AE659013020.0011/1/2023AE6590-11/1/2023AE6590-11/1/2024AE6590-11/1/2025AE6590-11/1/2024AE6970-11/1/2025AE6970-11/1/2024AE6970-11/1/2025AE6970-11/1/2026AE6970-11/1/2027AE6970-11/1/2028AE6970-11/1/2024AE699013238V7410/5/2024AE6930-11/1/2024AE6930-11/1/2025AE6930-11/1/2026AE6930-11/1/2027AE6930-11/1/2028AE6930-11/1/2029AE6930-11/1/2020AE6930- <td></td> <td>1/30/2023</td> <td>AE64759</td> <td></td> <td></td> <td>4.50</td> | | 1/30/2023 | AE64759 | | | 4.50 |
| Si15/202AE66586/14/202AE67175 </td <td></td> <td>3/6/2023</td> <td>AE65326</td> <td></td> <td></td> <td><1.40</td> | | 3/6/2023 | AE65326 | | | <1.40 |
| 6/14/203AE671757/17/203402653390018/17/203AE683789/21/203AE699410/26/203AE6971018240610/26/203AE630713129813/0/203AE676016/2020AE659713029817/17/203AE659716/2020AE659716/2023AE659716/2024AE659717/17/203AE659717/17/203AE659817/17/203AE659717/17/203AE699517/17/203AE699517/17/203AE699517/17/203AE699517/17/203AE699517/17/203AE699517/17/203AE699517/17/203AE699517/17/203AE699517/17/203AE699517/17/203AE699517/17/203AE699517/17/203AE699517/17/203AE699517/17/203AE699517/17/203AE699517/17/203AE699517/17/203AE699517/17/203AE6995 <td></td> <td>4/11/2023</td> <td>AE65951</td> <td>170</td> <td>380</td> <td><20.00</td> | | 4/11/2023 | AE65951 | 170 | 380 | <20.00 |
| 7/17/2034265339001<11.608/17/203AE6878<28.90 | | 5/15/2023 | AE66588 | | | <60.00 |
| N73AF68378<11.601/2/2/2/3AE6994<28.90 | | 6/14/2023 | AE67175 | | | <60.00 |
| N73P212023AE899410/20203AE6971018240610/30203AE630713129813/00233AE647601010016/0203AE658750011/10234AE659013034015/5023AE6658960.0017/17023AE66390117/17023AE68370117/17023AE68370117/17023AE68370110/30203AE6839013210/30203AE6990132328110/30204AE69303211.00AE69301210/30203AE69301211/1023AE69301311/1023AE69301311/1023< | | 7/17/2023 | 40265339001 | | | <11.60 |
| N7310/2023AE69710182406VT310/5/2023AE63071312981/30/203AE6470JJ5003/6/203AE6537J5001/11/203AE65901304006/14/203AE6589-60.001/17/203AE633002-51.601/17/203AE633002-51.601/17/203AE63902-51.601/17/203AE63902-51.601/17/203AE63902-51.601/17/203AE63902-51.601/17/203AE63902-51.601/17/203AE63903-51.601/17/203AE6393-51.601/17/203AE63931231.601/17/203AE63031232.1/17/203AE63031232.1/17/203AE6393-2.001/17/203AE659415050.011/17/203AE659550.01 | | 8/17/2023 | AE68378 | | | <11.60 |
| NT310/5/2023AE63071312981/30/2023AE64760-5.003/6/2023AE65960130340-20.004/11/2023AE6659060.005/15/2023AE663706/14/2023AE637907/17/2023AE683708/17/2023AE683799/21/2023AE689710/30/2024AE6909132338-10/5/2025AE63282.004/11/2023AE6924150370-4/11/2023AE6954150370-6/10/2024AE69541506/10/2023AE69541506/10/2023AE69546/10/2024AE69546/10/2024AE69546/10/2024AE69546/10/2024AE69546/10/2024AE69546/10/2024AE69546/10/2024AE69546/10/2024AE69546/10/2024AE69596/10/2024AE69596/10/20246/10/2024 <td></td> <td>9/21/2023</td> <td>AE68994</td> <td></td> <td></td> <td><28.90</td> | | 9/21/2023 | AE68994 | | | <28.90 |
| 1/30/2023AE6476012.003/6/2023AE653275.004/11/2023AE658013020.005/15/2023AE671766.006/14/2023AE671766.007/17/2023A265339026.16.07/17/2023AE683906.11.608/17/2023AE689506.10.09/21/2023AE689506.16.010/30202AE6900126.16.09/21/2023AE69001232V7410/5/2024AE63282.0011/12023AE65941503702010AE65941503705/15/2023AE65941503706.001AE65941503706.002AE65955.0027/17023AE65941507/17023AE65941507/17023AE65941507/17023AE65941507/17023AE65941507/17023AE65941507/17023AE65941507/17023AE65941507/17023AE65941507/17023AE65941507/17023AE65941507/17023AE65941507/17023AE65941507/17023AE65941507/17023AE65941507/17023AE65941507/1703AE65941507/1703AE65941507/1703AE65941507/1703 <td< td=""><td></td><td>10/26/2023</td><td>AE69710</td><td>182</td><td>406</td><td></td></td<> | | 10/26/2023 | AE69710 | 182 | 406 | |
| 3/6/2023AE653275.004/11/2024AE65960130340<20.00 | W73 | 10/5/2022 | AE63007 | 131 | 298 | |
| 4/11/2023 AE65960 130 340 <20.00 | | 1/30/2023 | AE64760 | | | 12.00 |
| 5/15/2023AE665896/14/2023AE671767/17/2023402653390028/17/2023AE683799/21/2023AE6895610/30/2023AE6990132338V7410/5/2024AE63031723/2023AE6532810/2023AE65954150370200AE6590415037060.00AE6590415037060.00AE65904150370700AE65904150370700AE65904150370700AE65904150370700AE65904150370700AE65904150370700AE65904150370700AE65904150370700AE65904150700AE65904150700AE65904150700AE65904150700AE65904700AE65904700AE65904700AE65904700AE65904700AE65904700AE65904700AE65904700AE65904700AE65904700AE65904700AE65904700AE65904700AE65904700AE65904700AE65904700AE65904700AE65904 </td <td></td> <td>3/6/2023</td> <td>AE65327</td> <td></td> <td></td> <td>5.00</td> | | 3/6/2023 | AE65327 | | | 5.00 |
| 6/14/2023AE671767/17/2023402653390028/17/2023AE683799/21/2023AE6899510/30/2023AE6990132338V7410/5/2024AE63031723223/6/2023AE653282.001/1/2023AE659541503705/15/2023AE659015037060.00AE6590150370 | | 4/11/2023 | AE65960 | 130 | 340 | <20.00 |
| 7/17/2023 40265339002 <11.60 | | 5/15/2023 | AE66589 | | | <60.00 |
| 8/17/2023 AE68379 <11.60 | | 6/14/2023 | AE67176 | | | <60.00 |
| 9/21/2023 AE68995 <11.60 | | 7/17/2023 | 40265339002 | | | <11.60 |
| 10/30/2023 AE69690 132 338 N74 10/5/2022 AE63003 172 332 3/6/2023 AE65328 2.00 4/11/2023 AE65954 150 370 <20.00 | | 8/17/2023 | AE68379 | | | <11.60 |
| N74 10/5/2022 AE63003 172 332 3/6/2023 AE65328 2.00 4/11/2023 AE65954 150 370 <20.00 | | 9/21/2023 | AE68995 | | | <11.60 |
| 3/6/2023 AE65328 2.00 4/11/2023 AE65954 150 370 <20.00 | | 10/30/2023 | AE69690 | 132 | 338 | |
| 4/11/2023AE65954150370<20.005/15/2023AE66590<60.00 | W74 | 10/5/2022 | AE63003 | 172 | 332 | |
| 5/15/2023 AE66590 <60.00 | | 3/6/2023 | AE65328 | | | 2.00 |
| | | 4/11/2023 | AE65954 | 150 | 370 | <20.00 |
| 6/14/2023 AE67177 <60.00 | | 5/15/2023 | AE66590 | | | <60.00 |
| | | 6/14/2023 | AE67177 | | | <60.00 |

| | nge: 10/01/2022 to | 0 12/31/2023 | | | |
|---------|--------------------|--------------|-------------------|---------------|-----------------|
| Lab Met | hods: | | Sulfate, total, m | g/L TDS, mg/L | Zinc, tot, ug/L |
| W74 | 7/17/2023 | 40265339003 | | | <11.60 |
| | 8/17/2023 | AE68380 | | | 22.20 |
| | 9/21/2023 | AE68996 | | | <11.60 |
| | 10/30/2023 | AE69691 | 162 | 372 | <11.60 |
| W75 | 10/5/2022 | AE63004 | 133 | 302 | |
| | 1/30/2023 | AE64761 | | | 4.00 |
| | 3/6/2023 | AE65329 | | | <1.80 |
| | 4/11/2023 | AE65955 | 120 | 340 | <20.00 |
| | 5/15/2023 | AE66591 | | | <60.00 |
| | 6/14/2023 | AE67178 | | | <60.00 |
| | 7/17/2023 | 40265339004 | | | <11.60 |
| | 8/17/2023 | AE68381 | | | <11.60 |
| | 9/21/2023 | AE68997 | | | 13.80 |
| | 10/30/2023 | AE69686 | 133 | 340 | |
| W76 | 10/5/2022 | AE63005 | 144 | 288 | |
| | 1/30/2023 | AE64762 | | | 5.00 |
| | 3/6/2023 | AE65330 | | | 2.00 |
| | 4/11/2023 | AE65958 | 130 | 350 | <20.00 |
| | 5/15/2023 | AE66592 | | | <60.00 |
| | 6/14/2023 | AE67179 | | | <60.00 |
| | 7/17/2023 | 40265339005 | | | <11.60 |
| | 8/17/2023 | AE68382 | | | <11.60 |
| | 9/21/2023 | AE68998 | | | 12.50 |
| | 10/30/2023 | AE69688 | 139 | 344 | |
| W77 | 10/5/2022 | AE63008 | 132 | 328 | |
| | 1/30/2023 | AE64763 | | | 4.80 |
| | | | | | |

MANAGES V 4.1.0

| Lab Method | s: | | Sulfate, total, mg/l | L TDS, mg/L | Zinc, tot, ug/L |
|------------|------------|-------------|----------------------|-------------|-----------------|
| W77 | 3/6/2023 | AE65331 | | | <1.80 |
| | 4/11/2023 | AE65956 | 130 | 360 | <20.00 |
| | 5/15/2023 | AE66593 | | | <60.00 |
| | 6/14/2023 | AE67180 | | | <60.00 |
| | 7/17/2023 | 40265339006 | | | <11.60 |
| | 8/17/2023 | AE68383 | | | <11.60 |
| | 9/21/2023 | AE68999 | | | <11.60 |
| | 10/30/2023 | AE69689 | 135 | 366 | |

Date Range: 10/01/2022 to 12/31/2023

Pleasant Prairie Ash LF Table 2. Analytical Results - Baseline and CCR Parameters

FIGURES



FIGURE 1

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.



2023 CCR ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PLEASANT PRAIRIE POWER PLANT ASH LANDFILL PLEASANT PRAIRIE, WISCONSIN

IMAGERY DATE = 6/23/2022 150 300 0 - Feet 1

UNIT BOUNDARY

CCR UPGRADIENT

CCR DOWNGRADIENT MONITORING WELL LOCATION

MONITORING WELL LOCATION





RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.



POTENTIOMETRIC SURFACE MAP **OCTOBER 5, 2022**

2023 CCR ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PLEASANT PRAIRIE POWER PLANT **ASH LANDFILL** PLEASANT PRAIRIE, WISCONSIN

Y:\GIS\Projects\16\1660\P4\MXD\2023Annual_GWM_CAR\Figure 2_GWE Contours 2210.mxd

PROJECT: 169000XXXX | DATED: 1/29/2024 | DESIGNER: GALARNMC

UNIT BOUNDARY BEDROCK UNIT (UPPERMOST AQUIFER) CCR MONITORING WELL LOCATION GROUNDWATER ELEVATION CONTOUR (1-FT

INTERVAL, NAVD 88) INFERRED GROUNDWATER ELEVATION CONTOUR

GROUNDWATER FLOW DIRECTION

Vgw = ESTIMATED FT/YR GROUNDWATER FLOW VELOCITY IMAGERY DATE = 6/23/2022



GROUNDWATER AVERAGE LINEAR VELOCITY CALCULATIONS PLEASANT PRAIRIE POWER PLANT ASH LANDFILL PLEASANT PRAIRIE, WISCONSIN

| CTOBER 2022 | V = K | i / n _e | V = Groundwater Velocity | | | | |
|-------------------------|----------------|--------------------|---|-----------|------|--------------|----------|
| | | | K = Hydraulic Conductivity i = Hydraulic Gradient (unitless value) n_e = Effective Porosity | | | | |
| PERMOST AQU Contours | 666.0 to | 665.0 | North to Northeast Across the Landfill | Elevation | | Distance | |
| Κ = | 1.04E+03 ft/yr | Geometric mea | an | Change | | Change | |
| i = | 0.006 | between conto | ours identified above | (ft) | | (ft) | |
| n _e = | 25 % | | | 1 | / | 180 | 0.006 |
| V = | 1.04E+03 * | 5.56E-03 | | | | | |
| | 0.25 | | _ | | | | |
| V = | 23 feet/y | ear | | | | | |
| | | | | [O: KLT 1 | /31/ | /2023, C:NMI | D 1/31/2 |





FIGURE 3

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.



POTENTIOMETRIC SURFACE MAP APRIL 11, 2023

2023 CCR ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PLEASANT PRAIRIE POWER PLANT ASH LANDFILL PLEASANT PRAIRIE, WISCONSIN

Y:\GIS\Projects\16\1660\P4\MXD\2023Annual_GWM_CAR\Figure 3_GWE Contours 2304.mxd PROJECT: 169000XXXX | DATED: 1/29/2024 | DESIGNER: GALARNMC

UNIT BOUNDARY
BEDROCK UNIT (UPPERMOST AQUIFER) CCR
MONITORING WELL LOCATION



- - INFERRED GROUNDWATER ELEVATION CONTOUR

GROUNDWATER FLOW DIRECTION

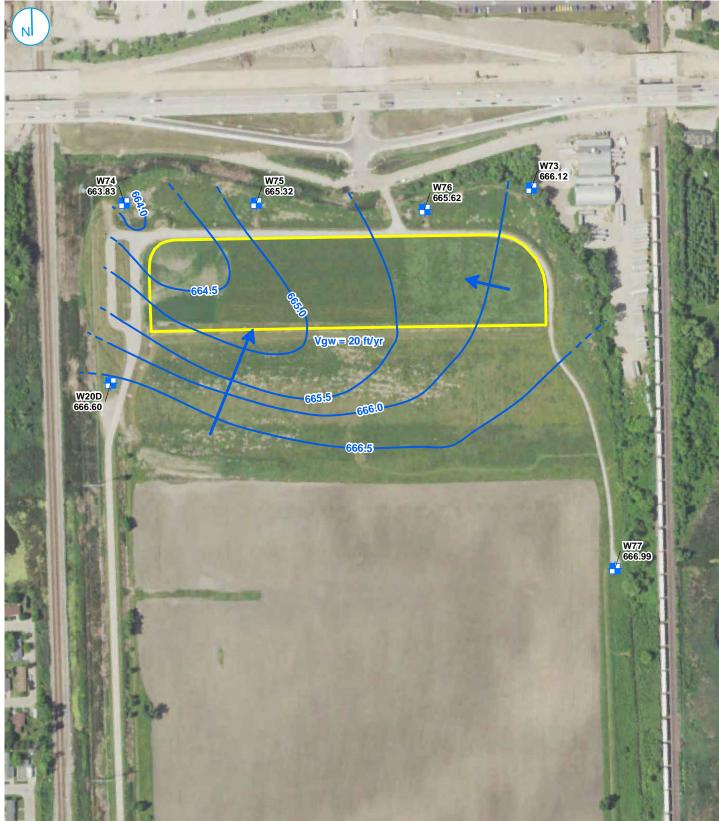
Vgw = ESTIMATED FT/YR GROUNDWATER FLOW VELOCITY IMAGERY DATE = 6/23/2022



GROUNDWATER AVERAGE LINEAR VELOCITY CALCULATIONS PLEASANT PRAIRIE POWER PLANT ASH LANDFILL PLEASANT PRAIRIE, WISCONSIN

| APRIL 2023 JPPERMOST AQU | | i / n _e | V = Groundwater Velocity K = Hydraulic Conductivity i = Hydraulic Gradient (unitless value) n _e = Effective Porosity | | | |
|-----------------------------|----------------|--------------------|--|------------|--------------|-------------|
| Contours | 672.5 to | 672.0 | North to Northeast Across the Landfill | Elevation | Distance | е |
| Κ = | 1.04E+03 ft/yr | Geometric mea | an for Landfill 3 (all) | Change | Change | |
| i = | 0.004 | between conto | urs identified above | (ft) | (ft) | |
| n _e = | 25 % | | | 0.5 | / 137 | 0.004 |
| V = | 1.04E+03 * | 3.65E-03 | | | | |
| _ | 0.25 | | | | | |
| V = | 15 feet/ye | ear | | | | |
| | | | | [O: KJS 1/ | /29/2024, C: | EJT 1/29/20 |





RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.



POTENTIOMETRIC SURFACE MAP OCTOBER 26 AND 30, 2023

2023 CCR ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PLEASANT PRAIRIE POWER PLANT ASH LANDFILL

PLEASANT PRAIRIE, WISCONSIN

BEDROCK UNIT (UPPERMOST AQUIFER) CCR MONITORING WELL LOCATION GROUNDWATER ELEVATION CONTOUR (1-FT INTERVAL, NAVD 88)



GROUNDWATER FLOW DIRECTION

Vgw = ESTIMATED FT/YR GROUNDWATER FLOW VELOCITY IMAGERY DATE = 6/23/2022



UNIT BOUNDARY

PROJECT: 169000XXXX | DATED: 1/29/2024 | DESIGNER: GALARNMC

GROUNDWATER AVERAGE LINEAR VELOCITY CALCULATIONS PLEASANT PRAIRIE POWER PLANT ASH LANDFILL PLEASANT PRAIRIE, WISCONSIN

| OCTOBER 2023 | V = | Ki/n _e | V = Groundwater Velocity | | | |
|------------------|----------------|-------------------|---|-------------|---------------|-----------|
| | | | K = Hydraulic Conductivity | | | |
| IPPERMOST AQU | IFER | | i = Hydraulic Gradient (unitless value) n_e = Effective Porosity | | | |
| Contours | 665.5 to | 665.0 | North to Northeast Across the Landfill | Elevation | Distance | |
| K = | 1.04E+03 ft/yr | Geometric me | ean for Landfill 3 (all) | Change | Change | |
| i = | 0.005 | between cont | ours identified above | (ft) | (ft) | |
| n _e = | 25 % | | | 0.5 | / 106 | 0.005 |
| V = | 1.04E+03 * | 4.72E-03 | | | | |
| _ | 0.2 | 5 | | | | |
| V = | 20 feet/ | year | | | | |
| | | | | [O: KJS 1/2 | 29/2024, C:EJ | T 1/29/20 |



APPENDIX A LABORATORY REPORTS To: Eric Kovatch PSB Annex A231

From: WEC Business Services Laboratory Services PSBA-A070 WDNR Cert # 241329000



Report Date: Wednesday, January 24, 2024

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: Sample ID: | W20D AE64759 | P4 Landfill (| | • | n Date/Time: | 01/3 | 0/2023 | 09:19 | | |
|-----------------------------------|------------------------|---------------|-------|---------------|--------------|------|-------------|----------------|-------------|----------------|
| Sample Received: | 01/30/202 | | | le Collector: | | | LE SCHAEI | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | <u>LOQ</u> | DIL | <u>Flag</u> | Method | <u>Date</u> | <u>Analyst</u> |
| Field Water Level | | 17.76 | 0.05 | feet | | 1 | | H2OD | 1/30/23 | RAMBOLL |
| Field Temperature | | 9.4 | 0.1 | Degrees | (| 1 | | TEMP | 1/30/23 | RAMBOLL |
| Field Conductivity | | 163 | 0 | umhos | | 1 | | FCOND25 | 1/30/23 | RAMBOLL |
| Field pH | | 7.6 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 1/30/23 | RAMBOLL |
| Total Alkalinity as CaCO3 | | 111 | 20 | mg/L | | 1 | | SM 2320 B-1997 | 2/13/23 | C153278 |
| Nitrate-Nitrite as N | | 0.95 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 1/31/23 | JLM |
| Nitrate as N | | 0.95 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 1/31/23 | JLM |
| Nitrite as N | | Less Than | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 1/31/23 | JLM |
| Total Silver | | Less Than | 2.6 | ug/L | 8.7 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Copper | | Less Than | 0.65 | ug/L | 2.2 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Manganese | | 46 | 0.27 | ug/L | 0.90 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Calcium | | 25000 | 1.2 | ug/L | 4.0 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Magnesium | | 16000 | 3.5 | ug/L | 12 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Zinc | | 4.5 | 1.8 | ug/L | 6.0 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Hardness as CaCO3 | | 130 | 1 | mg/L | | 1 | | Std Mtd 2340B | 3/1/23 | CMW |

Sample Comments:

| Sample Description: | W73 | P4 Landfill CO | CR Well Sam | ple | | | | | | |
|---------------------------|----------|----------------|-------------|---------------|--------------|------|-------------|----------------|----------|----------------|
| Sample ID: | AE6476 | 0 | Samp | le Collection | n Date/Time: | 01/3 | 0/2023 | 14:47 | | |
| Sample Received: | 01/30/20 | 23 | Samp | le Collector: | | KYI | LE SCHAEF | FER | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Field Water Level | | 22.25 | 0.05 | feet | | 1 | | H2OD | 1/30/23 | RAMBOLL |
| Field Temperature | | 7.1 | 0.1 | Degrees | (| 1 | | TEMP | 1/30/23 | RAMBOLL |
| Field Conductivity | | 562 | 0 | umhos | | 1 | | FCOND25 | 1/30/23 | RAMBOLL |
| Field pH | | 8.1 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 1/30/23 | RAMBOLL |
| Total Alkalinity as CaCO3 | | 114 | 20 | mg/L | | 1 | | SM 2320 B-1997 | 2/13/23 | C153278 |
| Nitrate-Nitrite as N | | 0.13 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 1/31/23 | JLM |
| Nitrate as N | | 0.13 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 1/31/23 | JLM |
| Nitrite as N | | Less Than | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 1/31/23 | JLM |
| Total Silver | | Less Than | 2.6 | ug/L | 8.7 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Copper | | 0.95 | 0.65 | ug/L | 2.2 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Manganese | | 8.7 | 0.27 | ug/L | 0.90 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Calcium | | 20000 | 1.2 | ug/L | 4.0 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Magnesium | | 13000 | 3.5 | ug/L | 12 | 1 | | EPA 200.7 | 2/22/23 | EDL |

Report Date: Wednesday, January 24, 2024

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: | W73 P4 Landfill CC | CR Well Sam | ple | | | | | | |
|-------------------------|--------------------|-------------|---------------|------------|-------|----------|---------------|----------|----------------|
| Sample ID: | AE64760 | Samp | le Collection | Date/Time: | 01/30 | 0/2023 | 14:47 | | |
| Sample Received: | 01/30/2023 | Samp | le Collector: | | KYL | E SCHAEF | FER | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | Result | LOD | <u>Units</u> | LOQ | DIL | Flag | Method | Date | <u>Analyst</u> |
| Total Zinc | 12 | 1.8 | ug/L | 6.0 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Hardness as CaCO3 | 100 | 1 | mg/L | | 1 | | Std Mtd 2340B | 3/1/23 | CMW |

Sample Comments:

| Sample Description: | W75 | P4 Landfill CC | R Well Sam | ole | | | | | | |
|---------------------------|---------|----------------|------------|---------------|------------|------|-------------|----------------|----------|----------------|
| Sample ID: | AE6476 | 51 | Samp | le Collection | Date/Time: | 01/3 | 0/2023 | 11:11 | | |
| Sample Received: | 01/30/2 | 023 | Samp | le Collector: | | KYI | LE SCHAEI | FER | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Field Water Level | | 22.04 | 0.05 | feet | | 1 | | H2OD | 1/30/23 | RAMBOLL |
| Field Temperature | | 9.2 | 0.1 | Degrees | (| 1 | | TEMP | 1/30/23 | RAMBOLL |
| Field Conductivity | | 467 | 0 | umhos | | 1 | | FCOND25 | 1/30/23 | RAMBOLL |
| Field pH | | 8.2 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 1/30/23 | RAMBOLL |
| Total Alkalinity as CaCO3 | | 121 | 20 | mg/L | | 1 | | SM 2320 B-1997 | 2/13/23 | C153278 |
| Nitrate-Nitrite as N | | 0.15 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 1/31/23 | JLM |
| Nitrate as N | | 0.15 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 1/31/23 | JLM |
| Nitrite as N | | Less Than | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 1/31/23 | JLM |
| Total Silver | | Less Than | 2.6 | ug/L | 8.7 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Copper | | Less Than | 0.65 | ug/L | 2.2 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Manganese | | 11 | 0.27 | ug/L | 0.90 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Calcium | | 20000 | 1.2 | ug/L | 4.0 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Magnesium | | 13000 | 3.5 | ug/L | 12 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Zinc | | 4.0 | 1.8 | ug/L | 6.0 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Hardness as CaCO3 | | 100 | 1 | mg/L | | 1 | | Std Mtd 2340B | 3/1/23 | CMW |

Sample Comments:

| Sample Description: | W76 | W76 P4 Landfill CCR Well Sample | | | | | | | | | |
|---------------------------|------------|---------------------------------|------------------------------|--------------|-------|---------------|-------------|----------------|----------|----------------|--|
| Sample ID: | AE64762 | | Sample Collection Date/Time: | | | 01/30/2023 | | 12:37 | | | |
| Sample Received: | 01/30/2023 | | Sample Collector: | | | KYLE SCHAEFER | | | | | |
| | | | | | | | Result | Analysis | Analysis | | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> | |
| Field Water Level | | 23.50 | 0.05 | feet | | 1 | | H2OD | 1/30/23 | RAMBOLL | |
| Field Temperature | | 9.1 | 0.1 | Degrees | (| 1 | | TEMP | 1/30/23 | RAMBOLL | |
| Field Conductivity | | 563 | 0 | umhos | | 1 | | FCOND25 | 1/30/23 | RAMBOLL | |
| Field pH | | 8.3 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 1/30/23 | RAMBOLL | |
| Total Alkalinity as CaCO3 | | 115 | 20 | mg/L | | 1 | | SM 2320 B-1997 | 2/13/23 | C153278 | |
| Nitrate-Nitrite as N | | 0.14 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 1/31/23 | JLM | |
| Nitrate as N | | 0.14 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 1/31/23 | JLM | |
| Nitrite as N | | Less Than | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 1/31/23 | JLM | |
| Total Silver | | Less Than | 2.6 | ug/L | 8.7 | 1 | | EPA 200.7 | 2/22/23 | EDL | |

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: | W76 P4 Landfill CC | 6 P4 Landfill CCR Well Sample | | | | | | | |
|-------------------------|--------------------|-------------------------------|---------------|------------|------|-------------|---------------|----------|----------------|
| Sample ID: | AE64762 | Samp | le Collection | Date/Time: | 01/3 | 0/2023 | 12:37 | | |
| Sample Received: | 01/30/2023 | Samp | le Collector: | | KYI | LE SCHAEF | FER | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | Result | LOD | <u>Units</u> | <u>LOQ</u> | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Total Copper | Less Than | 0.65 | ug/L | 2.2 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Manganese | 35 | 0.27 | ug/L | 0.90 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Calcium | 19000 | 1.2 | ug/L | 4.0 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Magnesium | 12000 | 3.5 | ug/L | 12 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Zinc | 5.0 | 1.8 | ug/L | 6.0 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Hardness as CaCO3 | 97 | 1 | mg/L | | 1 | | Std Mtd 2340B | 3/1/23 | CMW |

Sample Comments:

| Sample Description: | W77 P4 Landfill CC | - | | D-t-/Time | 01/2 | 0/2022 | 13:49 | | |
|---------------------------|--------------------|-------|---------------|-----------|------------|-------------|----------------|----------|----------------|
| Sample ID: | AE64763 | 1 | le Collection | | | 0/2023 | | | |
| Sample Received: | 01/30/2023 | Samp | le Collector: | | KYI | LE SCHAEF | ER | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | <u>Result</u> | LOD | <u>Units</u> | LOQ | <u>DIL</u> | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Field Water Level | 18.15 | 0.05 | feet | | 1 | | H2OD | 1/30/23 | RAMBOLL |
| Field Temperature | 9.1 | 0.1 | Degrees | 1 | 1 | | TEMP | 1/30/23 | RAMBOLL |
| Field Conductivity | 637 | 0 | umhos | | 1 | | FCOND25 | 1/30/23 | RAMBOLL |
| Field pH | 7.7 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 1/30/23 | RAMBOLL |
| Total Alkalinity as CaCO3 | 150 | 20 | mg/L | | 1 | | SM 2320 B-1997 | 2/13/23 | C153278 |
| Nitrate-Nitrite as N | 0.15 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 1/31/23 | JLM |
| Nitrate as N | 0.15 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 1/31/23 | JLM |
| Nitrite as N | Less Than | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 1/31/23 | JLM |
| Total Silver | Less Than | 2.6 | ug/L | 8.7 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Copper | 1.5 | 0.65 | ug/L | 2.2 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Manganese | 90 | 0.27 | ug/L | 0.90 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Calcium | 25000 | 1.2 | ug/L | 4.0 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Magnesium | 14000 | 3.5 | ug/L | 12 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Zinc | 4.8 | 1.8 | ug/L | 6.0 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Hardness as CaCO3 | 120 | 1 | mg/L | | 1 | | Std Mtd 2340B | 3/1/23 | CMW |

| Sample Description: | QAQC1 P4 Landfil | ll CCR Well S | ample | | | | | | |
|---------------------------|------------------|---------------|---------------|--------------|------------------|--------|----------------|----------|----------------|
| Sample ID: | AE64764 | Samp | le Collection | n Date/Time: | 01/30/2023 13:54 | | | | |
| Sample Received: | 01/30/2023 | Samp | le Collector | : | KYLE SCHAEFER | | | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | <u>Result</u> | LOD | <u>Units</u> | LOQ | <u>DIL</u> | Flag | Method | Date | <u>Analyst</u> |
| Total Alkalinity as CaCO3 | 147 | 20 | mg/L | | 1 | | SM 2320 B-1997 | 2/13/23 | C153278 |
| Nitrate-Nitrite as N | 0.45 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 1/31/23 | JLM |
| Nitrate as N | 0.45 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 1/31/23 | JLM |
| Nitrite as N | Less Than | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 1/31/23 | JLM |
| Total Silver | Less Than | 2.6 | ug/L | 8.7 | 1 | | EPA 200.7 | 2/22/23 | EDL |

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: Sample ID: Sample Received: | QAQC1 P4 Landfil AE64764 01/30/2023 | 1 | ample ole Collection ole Collector: | | 01/30/2023 13:54 KYLE SCHAEFER | | | | |
|---|--|------|---|------------|-----------------------------------|-------------|---------------|-------------|----------------|
| | | | | | | Result | Analysis | Analysis | |
| Parameter_ | Result | LOD | <u>Units</u> | <u>LOQ</u> | DIL | <u>Flag</u> | <u>Method</u> | <u>Date</u> | <u>Analyst</u> |
| Total Copper | Less Than | 0.65 | ug/L | 2.2 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Manganese | 89 | 0.27 | ug/L | 0.90 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Calcium | 25000 | 1.2 | ug/L | 4.0 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Magnesium | 14000 | 3.5 | ug/L | 12 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Zinc | 2.1 | 1.8 | ug/L | 6.0 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Hardness as CaCO3 | 120 | 1 | mg/L | | 1 | | Std Mtd 2340B | 3/1/23 | CMW |

Sample Comments:

| Sample Description: | EB1 | B1 P4 Landfill CCR Well Sample | | | | | | | | |
|---------------------------|---------|--------------------------------|-------------------|---------------|--------------|---------------|-------------|----------------|----------|----------------|
| Sample ID: | AE6476 | 55 | Samp | le Collection | n Date/Time: | 01/3 | 0/2023 | 15:30 | | |
| Sample Received: | 01/30/2 | 023 | Sample Collector: | | | KYLE SCHAEFER | | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | LOQ | <u>DIL</u> | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Total Alkalinity as CaCO3 | | Less Than | 20 | mg/L | | 1 | | SM 2320 B-1997 | 2/13/23 | C153278 |
| Nitrate-Nitrite as N | | Less Than | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 1/31/23 | JLM |
| Nitrate as N | | Less Than | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 1/31/23 | JLM |
| Nitrite as N | | Less Than | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 1/31/23 | JLM |
| Total Silver | | Less Than | 2.6 | ug/L | 8.7 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Copper | | 0.78 | 0.65 | ug/L | 2.2 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Manganese | | 0.43 | 0.27 | ug/L | 0.90 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Calcium | | 300 | 1.2 | ug/L | 4.0 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Magnesium | | 130 | 3.5 | ug/L | 12 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Zinc | | Less Than | 1.8 | ug/L | 6.0 | 1 | | EPA 200.7 | 2/22/23 | EDL |
| Total Hardness as CaCO3 | | 1.3 | 1 | mg/L | | 1 | | Std Mtd 2340B | 3/1/23 | CMW |

Sample Comments:

LOD and LOQ are adjusted for dilution factor.

'J' Flag, if present indicates an estimated concentration at or above the LOD and below the LOQ.

If there are any questions concerning this report, please contact:

From: WEC Business Services Laboratory Services PSBA-A070 WDNR Cert # 241329000



Report Date: Wednesday, January 24, 2024

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: Sample ID: | W20D AE65326 | P4 Landfill (| | • | n Date/Time: | 02/0 | 6/2023 | 09:16 | | |
|-----------------------------------|------------------------|---------------|-------|---------------|--------------|------|-------------|----------------|----------|----------------|
| Sample Received: | 03/06/202 | | 1 | le Collector: | | | LE SCHAEI | | | |
| Sample Received. | 03/00/202 | 2.5 | Samp | ic concetor. | | KII | LE SCHAEI | EK | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | <u>Method</u> | Date | <u>Analyst</u> |
| Field Water Level | | 17.29 | 0.05 | feet | | 1 | | H2OD | 3/6/23 | RAMBOLL |
| Field Temperature | | 10 | 0.1 | Degrees | (| 1 | | TEMP | 3/6/23 | RAMBOLL |
| Field Conductivity | | 598 | 0 | umhos | | 1 | | FCOND25 | 3/6/23 | RAMBOLL |
| Field pH | | 8.1 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 3/6/23 | RAMBOLL |
| Total Calcium | | 25500 | 12.4 | ug/L | 41.4 | 1 | | EPA 200.7 | 3/23/23 | EDL |
| Total Zinc | | Less Than | 1.4 | ug/L | 4.7 | 1 | | EPA 200.7 | 3/23/23 | EDL |
| Total Silver | | Less Than | 0.8 | ug/L | 2.8 | 1 | | EPA 200.7 | 3/23/23 | EDL |
| Total Manganese | | 37 | 0.2 | ug/L | 0.7 | 1 | | EPA 200.7 | 3/23/23 | EDL |
| Total Magnesium | | 16500 | 7.1 | ug/L | 24 | 1 | | EPA 200.7 | 3/23/23 | EDL |
| Total Copper | | Less Than | 1.6 | ug/L | 5.2 | 1 | | EPA 200.7 | 3/23/23 | EDL |
| Nitrate-Nitrite as N | | 0.1585 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 3/15/23 | JLM |
| Total Alkalinity as CaCO3 | | 118 | 20 | mg/L | | 1 | | SM 2320 B-1997 | 3/14/23 | C153278 |
| Nitrate as N | | 0.16 | 0.008 | mg/L | 0.027 | 1 | | EPA 353.2 | 3/15/23 | JLM |
| Nitrite as N | | Less Than | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 3/15/23 | JLM |
| Total Hardness as CaCO3 | | 130 | 1 | mg/L | | 1 | | Std Mtd 2340B | 3/23/23 | EDL |

| Sample Description: | W73 | P4 Landfill CC | CR Well Sam | ple | | | | | | | |
|---------------------------|----------|----------------|-------------|---------------|------------------------|------|-------------|----------------|----------|----------------|--|
| Sample ID: | AE65327 | 7 | Samp | le Collection | Date/Time: | 03/0 | 6/2023 | 13:11 | | | |
| Sample Received: | 03/06/20 | 023 | Samp | le Collector: | Collector: KYLE SCHAEI | | | FER | | | |
| | | | | | | | Result | Analysis | Analysis | | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> | |
| Field Water Level | | 21.24 | 0.05 | feet | | 1 | | H2OD | 3/6/23 | RAMBOLL | |
| Field Temperature | | 11 | 0.1 | Degrees | (| 1 | | TEMP | 3/6/23 | RAMBOLL | |
| Field Conductivity | | 504 | 0 | umhos | | 1 | | FCOND25 | 3/6/23 | RAMBOLL | |
| Field pH | | 8.7 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 3/6/23 | RAMBOLL | |
| Total Calcium | | 23700 | 43 | ug/L | 140 | 1 | | EPA 200.7 | 3/23/23 | EDL | |
| Total Alkalinity as CaCO3 | | 116 | 20 | mg/L | | 1 | | SM 2320 B-1997 | 3/14/23 | C153278 | |
| Total Zinc | | 5 | 1.8 | ug/L | 6.0 | 1 | | EPA 200.7 | 3/23/23 | EDL | |
| Total Silver | | Less Than | 1.2 | ug/L | 4.0 | 1 | | EPA 200.7 | 3/23/23 | EDL | |
| Total Manganese | | 26 | 0.11 | ug/L | 0.38 | 1 | | EPA 200.7 | 3/23/23 | EDL | |
| Total Magnesium | | 14700 | 7.1 | ug/L | 24 | 1 | | EPA 200.7 | 3/23/23 | EDL | |
| Total Copper | | 2 | 1.6 | ug/L | 5.2 | 1 | J | EPA 200.7 | 3/23/23 | EDL | |
| Nitrate-Nitrite as N | | 0.1290 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 3/14/23 | JLM | |
| Nitrate as N | | 0.13 | 0.008 | mg/L | 0.027 | 1 | | EPA 353.2 | 3/14/23 | JLM | |

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: | W73 P4 Landfill CC | R Well Sam | ple | | | | | | |
|-------------------------|--------------------|------------|---------------|------------|------|----------|---------------|----------|----------------|
| Sample ID: | AE65327 | Samp | le Collection | Date/Time: | 03/0 | 5/2023 | 13:11 | | |
| Sample Received: | 03/06/2023 | Samp | le Collector: | | KYL | E SCHAEI | FER | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | <u>Result</u> | LOD | <u>Units</u> | <u>LOQ</u> | DIL | Flag | Method | Date | <u>Analyst</u> |
| Nitrite as N | Less Than | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 3/14/23 | JLM |
| Total Hardness as CaCO3 | 120 | 1 | mg/L | | 1 | | Std Mtd 2340B | 5/1/23 | EDL |

Sample Comments:

| Sample Description: | W74 | P4 Landfill CO | CR Well Sam | ple | | | | | | |
|---------------------------|----------|----------------|-------------|---------------|------------|------|-------------|----------------|----------|----------------|
| Sample ID: | AE6532 | .8 | Samp | le Collection | Date/Time: | 03/0 | 6/2023 | 10:10 | | |
| Sample Received: | 03/06/20 | 023 | Samp | le Collector: | | KYI | LE SCHAEF | FER | | |
| | | | | | | | Result | Analysis | Analysis | |
| Parameter | | Result | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | <u>Method</u> | Date | <u>Analyst</u> |
| Field Water Level | | 18.29 | 0.05 | feet | | 1 | | H2OD | 3/6/23 | RAMBOLL |
| Field Temperature | | 10 | 0.1 | Degrees | (| 1 | | TEMP | 3/6/23 | RAMBOLL |
| Field Conductivity | | 559 | 0 | umhos | | 1 | | FCOND25 | 3/6/23 | RAMBOLL |
| Field pH | | 8.2 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 3/6/23 | RAMBOLL |
| Total Calcium | | 19600 | 43 | ug/L | 140 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Total Alkalinity as CaCO3 | | 114 | 20 | mg/L | | 1 | | SM 2320 B-1997 | 3/14/23 | C153278 |
| Total Zinc | | 2 | 1.8 | ug/L | 6.0 | 1 | J | EPA 200.7 | 4/25/23 | EDL |
| Total Silver | | Less Than | 1.2 | ug/L | 4.0 | 1 | | EPA 200.7 | 4/27/23 | JLM |
| Total Manganese | | 24 | 0.11 | ug/L | 0.38 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Total Magnesium | | 15200 | 7.1 | ug/L | 24 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Total Copper | | Less Than | 1.6 | ug/L | 5.2 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Nitrate-Nitrite as N | | 0.1569 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 3/14/23 | JLM |
| Nitrate as N | | 0.16 | 0.008 | mg/L | 0.027 | 1 | | EPA 353.2 | 3/14/23 | JLM |
| Nitrite as N | | Less Than | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 3/14/23 | JLM |
| Total Hardness as CaCO3 | | 110 | 1 | mg/L | | 1 | | Std Mtd 2340B | 4/25/23 | EDL |

| Sample Description: | W75 | P4 Landfill CO | Landfill CCR Well Sample | | | | | | | |
|---------------------------|---------|----------------|------------------------------|--------------|------|------|---------------|----------------|----------|----------------|
| Sample ID: | AE6532 | 29 | Sample Collection Date/Time: | | | 03/0 | 6/2023 | 10:45 | | |
| Sample Received: | 03/06/2 | 023 | Samp | le Collector | | KYI | KYLE SCHAEFER | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Field Water Level | | 20.95 | 0.05 | feet | | 1 | | H2OD | 3/6/23 | RAMBOLL |
| Field Temperature | | 10 | 0.1 | Degrees | (| 1 | | TEMP | 3/6/23 | RAMBOLL |
| Field Conductivity | | 515 | 0 | umhos | | 1 | | FCOND25 | 3/6/23 | RAMBOLL |
| Field pH | | 8.3 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 3/6/23 | RAMBOLL |
| Total Calcium | | 20200 | 43 | ug/L | 140 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Total Alkalinity as CaCO3 | | 126 | 20 | mg/L | | 1 | | SM 2320 B-1997 | 3/14/23 | C153278 |
| Total Zinc | | Less Than | 1.8 | ug/L | 6.0 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Total Silver | | Less Than | 1.2 | ug/L | 4.0 | 1 | | EPA 200.7 | 4/27/23 | JLM |
| Total Manganese | | 12 | 0.11 | ug/L | 0.38 | 1 | | EPA 200.7 | 4/25/23 | EDL |

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: | W75 P4 Landfill CO | CR Well Sam | ple | | | | | | |
|-------------------------|--------------------|-------------|---------------|------------|------------|-------------|---------------|----------|----------------|
| Sample ID: | AE65329 | Samp | le Collection | Date/Time: | 03/0 | 6/2023 | 10:45 | | |
| Sample Received: | 03/06/2023 | Samp | le Collector: | | KYI | E SCHAEF | FER | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | Result | LOD | <u>Units</u> | LOQ | <u>DIL</u> | <u>Flag</u> | <u>Method</u> | Date | <u>Analyst</u> |
| Total Magnesium | 13600 | 7.1 | ug/L | 24 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Total Copper | Less Than | 1.6 | ug/L | 5.2 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Nitrate-Nitrite as N | 0.1306 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 3/14/23 | JLM |
| Nitrate as N | 0.13 | 0.008 | mg/L | 0.027 | 1 | | EPA 353.2 | 3/14/23 | JLM |
| Nitrite as N | Less Than | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 3/14/23 | JLM |
| Total Hardness as CaCO3 | 110 | 1 | mg/L | | 1 | | Std Mtd 2340B | 4/25/23 | EDL |

Sample Comments:

| Sample Description: | | P4 Landfill CC | | • | | | | | | |
|---------------------------|------------|----------------|-------|---------------|--------------|------|-------------|----------------|-------------|----------------|
| Sample ID: | AE65330 | | Samp | le Collection | n Date/Time: | 03/0 | 6/2023 | 11:26 | | |
| Sample Received: | 03/06/2023 | • | Samp | le Collector: | | KYI | LE SCHAEF | FER | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | <u>LOQ</u> | DIL | <u>Flag</u> | <u>Method</u> | <u>Date</u> | <u>Analyst</u> |
| Field Water Level | | 22.45 | 0.05 | feet | | 1 | | H2OD | 3/6/23 | RAMBOLL |
| Field Temperature | | 9.8 | 0.1 | Degrees | (| 1 | | TEMP | 3/6/23 | RAMBOLL |
| Field Conductivity | | 517 | 0 | umhos | | 1 | | FCOND25 | 3/6/23 | RAMBOLL |
| Field pH | | 8.8 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 3/6/23 | RAMBOLL |
| Total Calcium | | 19400 | 43 | ug/L | 140 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Total Alkalinity as CaCO3 | | 118 | 20 | mg/L | | 1 | | SM 2320 B-1997 | 3/14/23 | C153278 |
| Total Zinc | | 2 | 1.8 | ug/L | 6.0 | 1 | J | EPA 200.7 | 4/25/23 | EDL |
| Total Silver | | Less Than | 1.2 | ug/L | 4.0 | 1 | | EPA 200.7 | 4/27/23 | JLM |
| Total Manganese | | 30 | 0.11 | ug/L | 0.38 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Total Magnesium | | 12500 | 7.1 | ug/L | 24 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Total Copper | | Less Than | 1.6 | ug/L | 5.2 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Nitrate-Nitrite as N | | 0.1319 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 3/14/23 | JLM |
| Nitrate as N | | 0.13 | 0.008 | mg/L | 0.027 | 1 | | EPA 353.2 | 3/14/23 | JLM |
| Nitrite as N | | Less Than | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 3/14/23 | JLM |
| Total Hardness as CaCO3 | | 100 | 1 | mg/L | | 1 | | Std Mtd 2340B | 4/25/23 | EDL |

| Sample Description: | W77 P4 Landfill C | CR Well Sam | ple | | | | | | |
|---------------------|-------------------|-------------|-----------------|--------------|------|-------------|-----------|----------|----------------|
| Sample ID: | AE65331 | Samp | le Collection | n Date/Time: | 03/0 | 6/2023 | 12:08 | | |
| Sample Received: | 03/06/2023 | Samp | mple Collector: | | | LE SCHAEI | FER | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | Result | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Field Water Level | 17.18 | 0.05 | feet | | 1 | | H2OD | 3/6/23 | RAMBOLL |
| Field Temperature | 11 | 0.1 | Degrees | (| 1 | | TEMP | 3/6/23 | RAMBOLL |
| Field Conductivity | 560 | 0 | umhos | | 1 | | FCOND25 | 3/6/23 | RAMBOLL |
| Field pH | 7.9 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 3/6/23 | RAMBOLL |
| Total Calcium | 25100 | 43 | ug/L | 140 | 1 | | EPA 200.7 | 4/25/23 | EDL |

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: | W77 P4 Landfill C | CR Well Sam | ple | | | | | | |
|---------------------------|-------------------|-------------|---------------|--------------|------|-------------|----------------|----------|----------------|
| Sample ID: | AE65331 | Samp | le Collection | n Date/Time: | 03/0 | 6/2023 | 12:08 | | |
| Sample Received: | 03/06/2023 | Samp | le Collector | : | KYI | LE SCHAEI | FER | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | <u>Method</u> | Date | <u>Analyst</u> |
| Total Alkalinity as CaCO3 | 157 | 20 | mg/L | | 1 | | SM 2320 B-1997 | 3/14/23 | C153278 |
| Total Zinc | Less Than | 1.8 | ug/L | 6.0 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Total Silver | Less Than | 1.2 | ug/L | 4.0 | 1 | | EPA 200.7 | 4/27/23 | JLM |
| Total Manganese | 73 | 0.11 | ug/L | 0.38 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Total Magnesium | 13900 | 7.1 | ug/L | 24 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Total Copper | Less Than | 1.6 | ug/L | 5.2 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Nitrate-Nitrite as N | 0.1285 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 3/14/23 | JLM |
| Nitrate as N | 0.13 | 0.008 | mg/L | 0.027 | 1 | | EPA 353.2 | 3/14/23 | JLM |
| Nitrite as N | Less Than | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 3/14/23 | JLM |
| Total Hardness as CaCO3 | 120 | 1 | mg/L | | 1 | | Std Mtd 2340B | 4/25/23 | EDL |

Sample Comments:

| Sample Description: | QA/QC 1 P4 La | ndfill CCR Well | Sample | | | | | | |
|---------------------------|---------------|-----------------|----------------|--------------|------|----------|----------------|-------------|----------------|
| Sample ID: | AE65332 | Samp | ole Collection | n Date/Time: | 03/0 | 6/2023 | 10:50 | | |
| Sample Received: | 03/06/2023 | Samp | ole Collector | : | KYI | LE SCHAE | FER | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | Result | LOD | <u>Units</u> | <u>LOQ</u> | DIL | Flag | Method | <u>Date</u> | <u>Analyst</u> |
| Total Calcium | 20300 | 43 | ug/L | 140 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Total Alkalinity as CaCO3 | 124 | 20 | mg/L | | 1 | | SM 2320 B-1997 | 3/14/23 | C153278 |
| Total Zinc | Less Than | 1.8 | ug/L | 6.0 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Total Silver | Less Than | 1.2 | ug/L | 4.0 | 1 | | EPA 200.7 | 4/27/23 | JLM |
| Total Manganese | 12 | 0.11 | ug/L | 0.38 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Total Magnesium | 13700 | 7.1 | ug/L | 24 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Total Copper | Less Than | 1.6 | ug/L | 5.2 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Nitrate-Nitrite as N | 0.1165 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 3/14/23 | JLM |
| Nitrate as N | 0.12 | 0.008 | mg/L | 0.027 | 1 | | EPA 353.2 | 3/14/23 | JLM |
| Nitrite as N | Less Than | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 3/14/23 | JLM |
| Total Hardness as CaCO3 | 110 | 1 | mg/L | | 1 | | Std Mtd 2340B | 4/25/23 | EDL |

Sample Comments:

| Sample Description: | EB1 P4 Landfill CC | CR Well Sam | ple | | | | | | |
|---------------------------|--------------------|-------------------|---------------|--------------|------|-------------|----------------|----------|----------------|
| Sample ID: | AE65333 | Samp | le Collection | n Date/Time: | 03/0 | 6/2023 | 13:48 | | |
| Sample Received: | 03/06/2023 | Sample Collector: | | | KYI | LE SCHAEI | FER | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Total Calcium | 148 | 43 | ug/L | 140 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Total Alkalinity as CaCO3 | 1.91 | 20 | mg/L | | 1 | | SM 2320 B-1997 | 3/14/23 | C153278 |
| Total Zinc | Less Than | 1.8 | ug/L | 6.0 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Total Silver | Less Than | 1.2 | ug/L | 4.0 | 1 | | EPA 200.7 | 4/27/23 | JLM |
| Total Manganese | Less Than | 0.11 | ug/L | 0.38 | 1 | | EPA 200.7 | 4/25/23 | EDL |

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: Sample ID: Sample Received: | EB1 P4 Landfill CC AE65333 03/06/2023 | Samp | ple le Collection le Collector: | Date/Time: | | 6/2023 .e schaef | 13:48 | | |
|---|--|-------|---------------------------------------|------------|-----|-----------------------|---------------------------|-------------------------|----------------|
| Sample Received. | 03/00/2023 | Samp | the Collector: | | KIL | | | | |
| <u>Parameter</u> | <u>Result</u> | LOD | <u>Units</u> | <u>LOQ</u> | DIL | Result <u>Flag</u> | Analysis <u>Method</u> | Analysis <u>Date</u> | <u>Analyst</u> |
| Total Magnesium | 81 | 7.1 | ug/L | 24 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Total Copper | Less Than | 1.6 | ug/L | 5.2 | 1 | | EPA 200.7 | 4/25/23 | EDL |
| Nitrate-Nitrite as N | 0.0086 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 3/14/23 | JLM |
| Nitrate as N | 0.0086 | 0.008 | mg/L | 0.027 | 1 | | EPA 353.2 | 3/14/23 | JLM |
| Nitrite as N | Less Than | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 3/14/23 | JLM |
| Total Hardness as CaCO3 | 0.70 | 1 | mg/L | | 1 | | Std Mtd 2340B | 4/25/23 | EDL |

Sample Comments:

LOD and LOQ are adjusted for dilution factor.

'J' Flag, if present indicates an estimated concentration at or above the LOD and below the LOQ.

If there are any questions concerning this report, please contact:

From: WEC Business Services Laboratory Services PSBA-A070 WDNR Cert # 241329000



Report Date: Wednesday, January 24, 2024

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: Sample ID: Sample Received: | W-20D AE65951 04/12/202 | | 1 | | n Date/Time: | | 1/2023 MBOLL | 09:09 | | |
|---|--------------------------------------|---------------|------|--------------|--------------|------------|-----------------------|---------------------------|-------------------------|----------------|
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | <u>L00</u> | <u>DIL</u> | Result <u>Flag</u> | Analysis <u>Method</u> | Analysis <u>Date</u> | <u>Analyst</u> |
| Field Water Level | | 17.21 | 0.05 | feet | | 1 | | H2OD | 4/11/23 | RAMBOLL |
| Field Temperature | | 12.0 | 0.1 | Degrees | (| 1 | | TEMP | 4/11/23 | RAMBOLL |
| Field Conductivity | | 620 | 0 | umhos | | 1 | | FCOND25 | 4/11/23 | RAMBOLL |
| Field pH | | 7.8 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 4/11/23 | RAMBOLL |
| Total Fluoride | | 1.0 | 0.6 | mg/L | 2.0 | 20 | J | EPA 300.0 | 4/13/23 | 057 |
| Total Chloride | | 11 | 1.0 | mg/L | 3.4 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Sulfate | | 170 | 2.0 | mg/L | 6.8 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Boron | | 460 | 10 | ug/L | 50 | 1 | | EPA 200.7 | 4/25/23 | 057 |
| Total Calcium | | 24000 | 40 | ug/L | 100 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Alkalinity as CaCO3 | | 110 | 2 | mg/L | 6 | 1 | | SM 2320 B-1997 | 4/21/23 | 057 |
| Total Copper | | Less Than | 4 | ug/L | 10 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Hardness as CaCO3 | | 130 | 1 | mg/L | | 1 | | Std Mtd 2340B | 4/24/23 | 057 |
| Total Magnesium | | 16000 | 40 | ug/L | 100 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Manganese | | 30 | 4 | ug/L | 10 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Nitrate-Nitrite as N | | Less Than | 0.40 | mg/L | 0.72 | 20 | | EPA 300.0 | 4/24/23 | 057 |
| Total Silver | | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 4/17/23 | 057 |
| Total Zinc | | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Dissolved Solids | | 380 | 10 | mg/L | 10 | 1 | H1 | Std Mtd 2540 C | 4/20/23 | 057 |

| Sample Description: | W-74 | P4 Landfil | l CCR Well Sa | mple | | | | | | |
|---------------------------|-----------|---------------|---------------|---------------|--------------|------|-------------|----------------|----------|----------------|
| Sample ID: | AE65954 | | Samp | le Collection | n Date/Time: | 04/1 | 1/2023 | 11:16 | | |
| Sample Received: | 04/12/202 | 23 | Samp | le Collector | : | RAN | MBOLL | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Field Water Level | | 17.93 | 0.05 | feet | | 1 | | H2OD | 4/11/23 | RAMBOLL |
| Field Temperature | | 18.2 | 0.1 | Degrees | (| 1 | | TEMP | 4/11/23 | RAMBOLL |
| Field Conductivity | | 584 | 0 | umhos | | 1 | | FCOND25 | 4/11/23 | RAMBOLL |
| Field pH | | 7.5 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 4/11/23 | RAMBOLL |
| Total Fluoride | | 1.0 | 0.6 | mg/L | 2.0 | 20 | J | EPA 300.0 | 4/13/23 | 057 |
| Total Chloride | | 14 | 1.0 | mg/L | 3.4 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Sulfate | | 150 | 2.0 | mg/L | 6.8 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Boron | | 410 | 10 | ug/L | 50 | 1 | | EPA 200.7 | 4/25/23 | 057 |
| Total Calcium | | 19000 | 40 | ug/L | 100 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Alkalinity as CaCO3 | | 100 | 2 | mg/L | 6 | 1 | | SM 2320 B-1997 | 4/21/23 | 057 |

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: | W-74 | P4 Landfill (| CCR Well Sa | mple | | | | | | |
|-------------------------|-----------|---------------|-------------|----------------|--------------|------|--------------|----------------|----------|----------------|
| Sample ID: | AE65954 | | Samp | ole Collection | n Date/Time: | 04/1 | 1/2023 | 11:16 | | |
| Sample Received: | 04/12/202 | 3 | Samp | ole Collector | : | RAN | MBOLL | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | Flag | Method | Date | <u>Analyst</u> |
| Total Copper | | Less Than | 4 | ug/L | 10 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Hardness as CaCO3 | | 110 | 1 | mg/L | | 1 | | Std Mtd 2340B | 4/24/23 | 057 |
| Total Magnesium | | 15000 | 40 | ug/L | 100 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Manganese | | 50 | 4 | ug/L | 10 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Nitrate-Nitrite as N | | Less Than | 0.40 | mg/L | 0.72 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Silver | | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 4/17/23 | 057 |
| Total Zinc | | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Dissolved Solids | | 370 | 10 | mg/L | 10 | 1 | H1 | Std Mtd 2540 C | 4/20/23 | 057 |

Sample Comments:

| Sample Description: | W-75 | P4 Landfill (| CCR Well Sa | mple | | | | | | |
|---------------------------|-----------|---------------|-------------|----------------|------------|------|--------------|----------------|-------------|----------------|
| Sample ID: | AE65955 | | Samp | ole Collection | Date/Time: | 04/1 | 1/2023 | 11:58 | | |
| Sample Received: | 04/12/202 | 23 | Samp | ole Collector: | | RAN | IBOLL | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | <u>LOQ</u> | DIL | Flag | Method | <u>Date</u> | <u>Analyst</u> |
| Field Water Level | | 20.08 | 0.05 | feet | | 1 | | H2OD | 4/11/23 | RAMBOLL |
| Field Temperature | | 11.7 | 0.1 | Degrees | (| 1 | | TEMP | 4/11/23 | RAMBOLL |
| Field Conductivity | | 530 | 0 | umhos | | 1 | | FCOND25 | 4/11/23 | RAMBOLL |
| Field pH | | 8.1 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 4/11/23 | RAMBOLL |
| Total Fluoride | | 1.0 | 0.6 | mg/L | 2.0 | 20 | J | EPA 300.0 | 4/13/23 | 057 |
| Total Chloride | | 8.9 | 1.0 | mg/L | 3.4 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Sulfate | | 120 | 2.0 | mg/L | 6.8 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Boron | | 430 | 10 | ug/L | 50 | 1 | | EPA 200.7 | 4/25/23 | 057 |
| Total Calcium | | 19000 | 40 | ug/L | 100 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Alkalinity as CaCO3 | | 120 | 2 | mg/L | 6 | 1 | | SM 2320 B-1997 | 4/21/23 | 057 |
| Total Copper | | Less Than | 4 | ug/L | 10 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Hardness as CaCO3 | | 100 | 1 | mg/L | | 1 | | Std Mtd 2340B | 4/24/23 | 057 |
| Total Magnesium | | 13000 | 40 | ug/L | 100 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Manganese | | 10 | 4 | ug/L | 10 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Nitrate-Nitrite as N | | Less Than | 0.40 | mg/L | 0.72 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Silver | | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 4/17/23 | 057 |
| Total Zinc | | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Dissolved Solids | | 340 | 10 | mg/L | 10 | 1 | H1 | Std Mtd 2540 C | 4/20/23 | 057 |

| Sample Description: | W-77 P4 Land | fill CCR Well Sa | mple | | | | | | |
|---------------------|--------------|------------------|---------------|--------------|------|--------------|----------|----------|----------------|
| Sample ID: | AE65956 | Samp | le Collection | n Date/Time: | 04/1 | 1/2023 | 12:46 | | |
| Sample Received: | 04/12/2023 | Samp | ole Collector | : | RAM | MBOLL | | | |
| | | | | | | Result | Analysis | Analysis | |
| Parameter | Result | LOD | <u>Units</u> | LOQ | DIL | Flag | Method | Date | <u>Analyst</u> |

| Sample Description: | W-77 | P4 Landfill | CCR Well Sa | mple | | | | | | |
|---------------------------|-------------|---------------|-------------|---------------|--------------|------------|--------|----------------|----------|----------------|
| Sample ID: | AE65956 | | Samp | le Collection | n Date/Time: | 04/1 | 1/2023 | 12:46 | | |
| Sample Received: | 04/12/202 | 23 | Samp | ole Collector | : | RAM | MBOLL | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | LOQ | <u>DIL</u> | Flag | Method | Date | <u>Analyst</u> |
| Field Water Level | | 16.25 | 0.05 | feet | | 1 | | H2OD | 4/11/23 | RAMBOLL |
| Field Temperature | | 11.5 | 0.1 | Degrees | (| 1 | | TEMP | 4/11/23 | RAMBOLL |
| Field Conductivity | | 560 | 0 | umhos | | 1 | | FCOND25 | 4/11/23 | RAMBOLL |
| Field pH | | 7.7 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 4/11/23 | RAMBOLL |
| Total Fluoride | | 1.1 | 0.6 | mg/L | 2.0 | 20 | J | EPA 300.0 | 4/13/23 | 057 |
| Total Chloride | | 8.9 | 1.0 | mg/L | 3.4 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Sulfate | | 130 | 2.0 | mg/L | 6.8 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Boron | | 420 | 10 | ug/L | 50 | 1 | | EPA 200.7 | 4/25/23 | 057 |
| Total Calcium | | 24000 | 40 | ug/L | 100 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Alkalinity as CaCO3 | | 150 | 2 | mg/L | 6 | 1 | | SM 2320 B-1997 | 4/21/23 | 057 |
| Total Copper | | Less Than | 4 | ug/L | 10 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Hardness as CaCO3 | | 120 | 1 | mg/L | | 1 | | Std Mtd 2340B | 4/24/23 | 057 |
| Total Magnesium | | 13000 | 40 | ug/L | 100 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Manganese | | 70 | 4 | ug/L | 10 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Nitrate-Nitrite as N | | Less Than | 0.40 | mg/L | 0.72 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Silver | | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 4/17/23 | 057 |
| Total Zinc | | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Dissolved Solids | | 360 | 10 | mg/L | 10 | 1 | H1 | Std Mtd 2540 C | 4/20/23 | 057 |

| Sample Description: | QAQC01 P4 Landfil | l CCR Well S | ample | | | | | | |
|---------------------------|-------------------|--------------|-------------------|------------|-------|--------------|----------------|----------|---------|
| Sample ID: | AE65957 | Samp | ole Collection E | Date/Time: | 04/11 | 1/2023 | 12:51 | | |
| Sample Received: | 04/12/2023 | Samp | Sample Collector: | | | ÍBOLL | | | |
| | | | | | | Result | Analysis | Analysis | |
| Parameter | Result | LOD | Units | LOQ | DIL | Flag | Method | Date | Analyst |
| Total Fluoride | 1.0 | 0.6 | mg/L | 2.0 | 20 | J | EPA 300.0 | 4/13/23 | 057 |
| Fotal Chloride | 9.0 | 1.0 | mg/L | 3.4 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Fotal Sulfate | 130 | 2.0 | mg/L | 6.8 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Boron | 430 | 10 | ug/L | 50 | 1 | | EPA 200.7 | 4/25/23 | 057 |
| Total Calcium | 24000 | 40 | ug/L | 100 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Alkalinity as CaCO3 | 140 | 2 | mg/L | 6 | 1 | | SM 2320 B-1997 | 4/21/23 | 057 |
| Total Copper | Less Than | 4 | ug/L | 10 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Hardness as CaCO3 | 120 | 1 | mg/L | | 1 | | Std Mtd 2340B | 4/24/23 | 057 |
| Total Magnesium | 13000 | 40 | ug/L | 100 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Manganese | 70 | 4 | ug/L | 10 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Nitrate-Nitrite as N | Less Than | 0.40 | mg/L | 0.72 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Cotal Silver | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 4/17/23 | 057 |
| Total Zinc | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| otal Dissolved Solids | 390 | 10 | mg/L | 10 | 1 | H1 | Std Mtd 2540 C | 4/20/23 | 057 |

Sample Comments:

| Sample Description: | W-76 | P4 Landfill | CCR Well Sa | mple | | | | | | |
|---------------------------|-----------|---------------|-------------|---------------|--------------|------|-------------|----------------|-------------|----------------|
| Sample ID: | AE65958 | ; | Samp | le Collection | n Date/Time: | 04/1 | 1/2023 | 13:45 | | |
| Sample Received: | 04/12/202 | 23 | Samp | ole Collector | : | RAM | MBOLL | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | Units | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Field Water Level | | 22.48 | 0.05 | feet | | 1 | | H2OD | 4/11/23 | RAMBOLL |
| Field Temperature | | 12.6 | 0.1 | Degrees | . (| 1 | | TEMP | 4/11/23 | RAMBOLL |
| Field Conductivity | | 533 | 0 | umhos | | 1 | | FCOND25 | 4/11/23 | RAMBOLL |
| Field pH | | 8.2 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 4/11/23 | RAMBOLL |
| Total Fluoride | | 0.9 | 0.6 | mg/L | 2.0 | 20 | J | EPA 300.0 | 4/13/23 | 057 |
| Total Chloride | | 11 | 1.0 | mg/L | 3.4 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Sulfate | | 130 | 2.0 | mg/L | 6.8 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Boron | | 450 | 10 | ug/L | 50 | 1 | | EPA 200.7 | 4/25/23 | 057 |
| Total Calcium | | 18000 | 40 | ug/L | 100 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Alkalinity as CaCO3 | | 110 | 2 | mg/L | 6 | 1 | | SM 2320 B-1997 | 4/21/23 | 057 |
| Total Copper | | Less Than | 4 | ug/L | 10 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Hardness as CaCO3 | | 95 | 1 | mg/L | | 1 | | Std Mtd 2340B | 4/24/23 | 057 |
| Total Magnesium | | 12000 | 40 | ug/L | 100 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Manganese | | 20 | 4 | ug/L | 10 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Nitrate-Nitrite as N | | Less Than | 0.40 | mg/L | 0.72 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Silver | | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 4/17/23 | 057 |
| Total Zinc | | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Dissolved Solids | | 350 | 10 | mg/L | 10 | 1 | H1 | Std Mtd 2540 C | 4/20/23 | 057 |

| Sample Description: | W-73 | P4 Landfill C | CR Well Sar | nple | | | | | | |
|---------------------------|-----------|---------------|-------------|---------------|------------|------|--------|----------------|----------|----------------|
| Sample ID: | AE65960 | | Samp | le Collection | Date/Time: | 04/1 | 1/2023 | 15:05 | | |
| Sample Received: | 04/12/202 | .3 | Samp | le Collector: | | RAM | MBOLL | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | <u>LOQ</u> | DIL | Flag | Method | Date | <u>Analyst</u> |
| Field Water Level | | 20.68 | 0.05 | feet | | 1 | | H2OD | 4/11/23 | RAMBOLL |
| Field Temperature | | 11.8 | 0.1 | Degrees | | 1 | | TEMP | 4/11/23 | RAMBOLL |
| Field Conductivity | | 522 | 0 | umhos | | 1 | | FCOND25 | 4/11/23 | RAMBOLL |
| Field pH | | 8.3 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 4/11/23 | RAMBOLL |
| Total Fluoride | | 1.0 | 0.6 | mg/L | 2.0 | 20 | J | EPA 300.0 | 4/13/23 | 057 |
| Total Chloride | | 12 | 1.0 | mg/L | 3.4 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Sulfate | | 130 | 2.0 | mg/L | 6.8 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Boron | | 440 | 10 | ug/L | 50 | 1 | | EPA 200.7 | 4/25/23 | 057 |
| Total Calcium | | 18000 | 40 | ug/L | 100 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Alkalinity as CaCO3 | | 110 | 2 | mg/L | 6 | 1 | | SM 2320 B-1997 | 4/21/23 | 057 |
| Total Copper | | Less Than | 4 | ug/L | 10 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Hardness as CaCO3 | | 94 | 1 | mg/L | | 1 | | Std Mtd 2340B | 4/24/23 | 057 |
| Total Magnesium | | 12000 | 40 | ug/L | 100 | 1 | | EPA 200.7 | 4/24/23 | 057 |

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: | W-73 I | P4 Landfill C | CR Well Sar | nple | | | | | | |
|------------------------|------------|---------------|-------------|---------------|--------------|------------|--------------|----------------|----------|----------------|
| Sample ID: | AE65960 | | Samp | le Collection | n Date/Time: | 04/1 | 1/2023 | 15:05 | | |
| Sample Received: | 04/12/2023 | | Samp | le Collector | | RAN | IBOLL | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | <u>R</u> | <u>lesult</u> | LOD | <u>Units</u> | <u>LOQ</u> | <u>DIL</u> | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Total Manganese | 7 | .0 | 4 | ug/L | 10 | 1 | J | EPA 200.7 | 4/24/23 | 057 |
| Nitrate-Nitrite as N | L | ess Than | 0.40 | mg/L | 0.72 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Silver | L | ess Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 4/13/23 | 057 |
| Total Zinc | L | ess Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Dissolved Boron | 4 | 60 | 8 | ug/L | 30 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Dissolved Calcium | 1 | 8000 | 20 | ug/L | 60 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Dissolved Sulfate | 1 | 30 | 1.0 | mg/L | 3.4 | 10 | | EPA 300.0 | 4/24/23 | 057 |
| Dissolved Chloride | 1: | 5 | 0.5 | mg/L | 1.7 | 10 | | EPA 300.0 | 4/22/23 | 057 |
| Total Dissolved Solids | 3- | 40 | 10 | mg/L | 10 | 1 | H1 | Std Mtd 2540 C | 4/20/23 | 057 |

Sample Comments:

| Sample Description: | EB-1 | P4 Landfill (| CCR Well Sa | mple | | | | | | |
|---------------------------|-----------|---------------|-------------|---------------|--------------|------|-------------|----------------|----------|----------------|
| Sample ID: | AE65961 | | Samp | le Collection | n Date/Time: | 04/1 | 1/2023 | 16:20 | | |
| Sample Received: | 04/12/202 | 3 | Samp | le Collector: | | RAN | MBOLL | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Field Temperature | | 19.1 | 0.1 | Degrees | (| 1 | | TEMP | 4/11/23 | RAMBOLL |
| Field Conductivity | | 16 | 0 | umhos | | 1 | | FCOND25 | 4/11/23 | RAMBOLL |
| Field pH | | 6.9 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 4/11/23 | RAMBOLL |
| Total Fluoride | | Less Than | 0.6 | mg/L | 2.0 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Chloride | | Less Than | 1.0 | mg/L | 3.4 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Sulfate | | Less Than | 2.0 | mg/L | 6.8 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Boron | | Less Than | 10 | ug/L | 50 | 1 | | EPA 200.7 | 4/25/23 | 057 |
| Total Calcium | | 60 | 40 | ug/L | 100 | 1 | J | EPA 200.7 | 4/24/23 | 057 |
| Total Alkalinity as CaCO3 | | 2 | 2 | mg/L | 6 | 1 | J | SM 2320 B-1997 | 4/21/23 | 057 |
| Total Copper | | Less Than | 4 | ug/L | 10 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Hardness as CaCO3 | | Less Than | 0.27 | mg/L | 1.0 | 1 | | Std Mtd 2340B | 4/24/23 | 057 |
| Total Magnesium | | Less Than | 40 | ug/L | 100 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Manganese | | Less Than | 4 | ug/L | 10 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Nitrate-Nitrite as N | | Less Than | 0.40 | mg/L | 0.72 | 20 | | EPA 300.0 | 4/13/23 | 057 |
| Total Silver | | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 4/17/23 | 057 |
| Total Zinc | | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 4/24/23 | 057 |
| Total Dissolved Solids | | Less Than | 10 | mg/L | 10 | 1 | H1 | Std Mtd 2540 C | 4/20/23 | 057 |

Sample Comments:

LOD and LOQ are adjusted for dilution factor.

'J' Flag, if present indicates an estimated concentration at or above the LOD and below the LOQ.

If there are any questions concerning this report, please contact:

From: WEC Business Services Laboratory Services PSBA-A070 WDNR Cert # 241329000



Report Date: Wednesday, January 24, 2024

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: Sample ID: | W20D P4 Landfill (AE66588 | CCR Well Cat | chup Sample ole Collection | | 05/1 | 5/2023 | 09:26 | | |
|-----------------------------------|-------------------------------|--------------|-------------------------------|-------|------|-------------|---------------|-------------|----------------|
| Sample Received: | 05/15/2023 | 1 | ole Collector: | | | LE SCHAE | | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | <u>Method</u> | <u>Date</u> | <u>Analyst</u> |
| Field Water Level | 18.57 | 0.05 | feet | | 1 | | H2OD | 5/15/23 | RAMBOLL |
| Field Temperature | 12 | 0.1 | Degrees (| I | 1 | | TEMP | 5/15/23 | RAMBOLL |
| Field Conductivity | 613 | 0 | umhos | | 1 | | FCOND25 | 5/15/23 | RAMBOLL |
| Field pH | 7.7 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 5/15/23 | RAMBOLL |
| Nitrite as N | Less Than | 0.2 | mg/L | 0.8 | 20 | | EPA 300.0 | 5/17/23 | 057 |
| Nitrate as N | 0.60 | 0.20 | mg/L | 0.68 | 20 | J | EPA 300.0 | 5/17/23 | 057 |
| Nitrate-Nitrite as N | 0.60 | 0.4 | mg/L | 0.036 | 20 | | EPA 300.0 | 5/17/23 | 057 |
| Total Calcium | 23700 | 600 | ug/L | 1800 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Copper | 5 | 4 | ug/L | 10 | 1 | J | EPA 200.7 | 5/16/23 | 057 |
| Total Magnesium | 16100 | 60 | ug/L | 100 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Manganese | 40 | 4 | ug/L | 10 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Silver | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 5/22/23 | 057 |
| Total Zinc | Less Than | 60 | ug/L | 160 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Fotal Hardness as CaCO3 | 126 | 1 | mg/L | | 1 | | Std Mtd 2340B | 5/16/23 | 057 |

| Sample Description: Sample ID: | W73 P4 Landfill CC AE66589 | Samp | ole Collection | | | 5/2023 | 13:02 | | |
|-----------------------------------|-------------------------------|------|----------------|-------|-----|-------------|---------------|----------|----------------|
| Sample Received: | 05/15/2023 | Samp | ole Collector: | | KYI | LE SCHAEF | ER | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | <u>Method</u> | Date | <u>Analyst</u> |
| Field Water Level | 21.41 | 0.05 | feet | | 1 | | H2OD | 5/15/23 | RAMBOLL |
| Field Temperature | 11 | 0.1 | Degrees | I | 1 | | TEMP | 5/15/23 | RAMBOLL |
| Field Conductivity | 517 | 0 | umhos | | 1 | | FCOND25 | 5/15/23 | RAMBOLL |
| Field pH | 8.3 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 5/15/23 | RAMBOLL |
| Nitrite as N | Less Than | 0.2 | mg/L | 0.8 | 20 | | EPA 300.0 | 5/17/23 | 057 |
| Nitrate as N | Less Than | 0.20 | mg/L | 0.68 | 20 | | EPA 300.0 | 5/17/23 | 057 |
| Nitrate-Nitrite as N | Less Than | 0.4 | mg/L | 0.036 | 20 | | EPA 300.0 | 5/17/23 | 057 |
| Total Calcium | 18600 | 600 | ug/L | 1800 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Copper | 5 | 4 | ug/L | 10 | 1 | J | EPA 200.7 | 5/16/23 | 057 |
| Total Magnesium | 14900 | 60 | ug/L | 100 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Manganese | 10 | 4 | ug/L | 10 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Silver | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 5/22/23 | 057 |
| Total Zinc | Less Than | 60 | ug/L | 160 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Hardness as CaCO3 | 108 | 1 | mg/L | | 1 | | Std Mtd 2340B | 5/16/23 | 057 |

Sample Comments:

| Sample Description: | W74 | P4 Landfill CC | R Well Catch | up Sample | | | | | | |
|---------------------------|---------|----------------|--------------|----------------|------------|------|-------------|----------------|----------|----------------|
| Sample ID: | AE665 | 90 | Samp | ole Collection | Date/Time: | 05/1 | 5/2023 | 10:16 | | |
| Sample Received: | 05/15/2 | 2023 | Samp | ole Collector: | | KYI | LE SCHAE | FER | | |
| | | | | | | | Result | Analysis | Analysis | |
| Parameter | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Field Water Level | | 19.28 | 0.05 | feet | | 1 | | H2OD | 5/15/23 | RAMBOLL |
| Field Temperature | | 11 | 0.1 | Degrees (| | 1 | | TEMP | 5/15/23 | RAMBOLL |
| Field Conductivity | | 578 | 0 | umhos | | 1 | | FCOND25 | 5/15/23 | RAMBOLL |
| Field pH | | 8.0 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 5/15/23 | RAMBOLL |
| Nitrite as N | | Less Than | 0.2 | mg/L | 0.8 | 20 | | EPA 300.0 | 5/17/23 | 057 |
| Nitrate as N | | 0.66 | 0.20 | mg/L | 0.68 | 20 | | EPA 300.0 | 5/17/23 | 057 |
| Nitrate-Nitrite as N | | 0.66 | 0.4 | mg/L | 0.036 | 20 | | EPA 300.0 | 5/17/23 | 057 |
| Total Calcium | | 18900 | 600 | ug/L | 1800 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Copper | | Less Than | 4 | ug/L | 10 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Magnesium | | 15100 | 60 | ug/L | 100 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Manganese | | 10 | 4 | ug/L | 10 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Silver | | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 5/22/23 | 057 |
| Total Zinc | | Less Than | 60 | ug/L | 160 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Alkalinity as CaCO3 | | 102 | 2 | mg/L | 6 | 1 | | SM 2320 B-1997 | 5/18/23 | 057 |
| Total Hardness as CaCO3 | | 109 | 1 | mg/L | | 1 | | Std Mtd 2340B | 5/16/23 | 057 |

| Sample Description: | W75 | P4 Landfill CC | R Well Catch | up Sample | | | | | | |
|-------------------------|----------|----------------|--------------|---------------|------------|---------------|--------|---------------|----------|---------|
| Sample ID: | AE6659 | 1 | Samp | le Collection | Date/Time: | 05/15 | 5/2023 | 10:56 | | |
| Sample Received: | 05/15/20 | 023 | Samp | le Collector: | | KYLE SCHAEFER | | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | <u>LOQ</u> | DIL | Flag | Method | Date | Analyst |
| Field Water Level | | 21.41 | 0.05 | feet | | 1 | | H2OD | 5/15/23 | RAMBOLI |
| Field Temperature | | 11 | 0.1 | Degrees | (| 1 | | TEMP | 5/15/23 | RAMBOLI |
| Field Conductivity | | 529 | 0 | umhos | | 1 | | FCOND25 | 5/15/23 | RAMBOLI |
| Field pH | | 8.1 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 5/15/23 | RAMBOLI |
| Nitrite as N | | Less Than | 0.2 | mg/L | 0.8 | 20 | | EPA 300.0 | 5/17/23 | 057 |
| Nitrate as N | | Less Than | 0.20 | mg/L | 0.68 | 20 | | EPA 300.0 | 5/17/23 | 057 |
| Nitrate-Nitrite as N | | Less Than | 0.4 | mg/L | 0.036 | 20 | | EPA 300.0 | 5/17/23 | 057 |
| Total Calcium | | 18600 | 600 | ug/L | 1800 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Copper | | Less Than | 4 | ug/L | 10 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Magnesium | | 13000 | 60 | ug/L | 100 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Manganese | | 5 | 4 | ug/L | 10 | 1 | J | EPA 200.7 | 5/16/23 | 057 |
| Total Silver | | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 5/22/23 | 057 |
| Total Zinc | | Less Than | 60 | ug/L | 160 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Hardness as CaCO3 | | 99.8 | 1 | mg/L | | 1 | | Std Mtd 2340B | 5/16/23 | 057 |

Sample Comments:

| Sample Description: | W76 P4 Lan | dfill CCR Well Catc | hup Sample | | | | | | |
|-------------------------|------------|---------------------|------------------|-----------|------|-------------|---------------|----------|----------------|
| Sample ID: | AE66592 | Sam | ple Collection D | ate/Time: | 05/1 | 5/2023 | 11:35 | | |
| Sample Received: | 05/15/2023 | Sam | ple Collector: | | KYI | LE SCHAEI | FER | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | Resu | <u>lt LOD</u> | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Field Water Level | 22.75 | 0.05 | feet | | 1 | | H2OD | 5/15/23 | RAMBOLL |
| Field Temperature | 11 | 0.1 | Degrees (| | 1 | | TEMP | 5/15/23 | RAMBOLL |
| Field Conductivity | 531 | 0 | umhos | | 1 | | FCOND25 | 5/15/23 | RAMBOLL |
| Field pH | 8.3 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 5/15/23 | RAMBOLL |
| Nitrite as N | Less | Than 0.20 | mg/L | 0.80 | 20 | | EPA 300.0 | 5/17/23 | 057 |
| Nitrate as N | Less | Than 0.20 | mg/L | 0.68 | 20 | | EPA 300.0 | 5/17/23 | 057 |
| Nitrate-Nitrite as N | Less | Than 0.4 | mg/L | 0.036 | 20 | | EPA 300.0 | 5/17/23 | 057 |
| Total Calcium | 1810 | 0 600 | ug/L | 1800 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Copper | 5 | 4 | ug/L | 10 | 1 | J | EPA 200.7 | 5/16/23 | 057 |
| Total Magnesium | 1200 | 0 60 | ug/L | 100 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Manganese | 10 | 4 | ug/L | 10 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Silver | Less | Than 20 | ug/L | 70 | 1 | | EPA 200.7 | 5/22/23 | 057 |
| Total Zinc | Less | Than 60 | ug/L | 160 | 1 | | EPA 200.7 | 5/22/23 | 057 |
| Total Hardness as CaCO3 | 94.8 | 1 | mg/L | | 1 | | Std Mtd 2340B | 5/31/23 | CMW |

| Sample Description: | W77 P4 Landfill CO | | | | 0.51 | <i>z 1</i> 2022 | 10.04 | | |
|-------------------------|--------------------|------|----------------|------------|------|-----------------|---------------|----------|----------------|
| Sample ID: | AE66593 | 1 | ole Collection | Date/Time: | | 5/2023 | 12:06 | | |
| Sample Received: | 05/15/2023 | Samp | ole Collector: | | KYI | LE SCHAEI | FER | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | Result | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | <u>Method</u> | Date | <u>Analyst</u> |
| Field Water Level | 17.30 | 0.05 | feet | | 1 | | H2OD | 5/15/23 | RAMBOLL |
| Field Temperature | 11 | 0.1 | Degrees | 1 | 1 | | TEMP | 5/15/23 | RAMBOLL |
| Field Conductivity | 570 | 0 | umhos | | 1 | | FCOND25 | 5/15/23 | RAMBOLL |
| Field pH | 7.7 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 5/15/23 | RAMBOLL |
| Nitrite as N | Less Than | 0.2 | mg/L | 0.8 | 20 | | EPA 300.0 | 5/17/23 | 057 |
| Nitrate as N | 0.52 | 0.20 | mg/L | 0.68 | 20 | J | EPA 300.0 | 5/17/23 | 057 |
| Nitrate-Nitrite as N | 0.52 | 0.4 | mg/L | 0.036 | 20 | | EPA 300.0 | 5/17/23 | 057 |
| Total Calcium | 23900 | 600 | ug/L | 1800 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Copper | 5 | 4 | ug/L | 10 | 1 | J | EPA 200.7 | 5/16/23 | 057 |
| Total Magnesium | 13400 | 60 | ug/L | 100 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Manganese | 60 | 4 | ug/L | 10 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Silver | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 5/22/23 | 057 |
| Total Zinc | Less Than | 60 | ug/L | 160 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Hardness as CaCO3 | 115 | 1 | mg/L | | 1 | | Std Mtd 2340B | 5/31/23 | CMW |

Sample Comments:

| Sample Description: | QAQC01 P4 Landfil | l CCR Well Ca | tchup Sam | ple | | | | | |
|---------------------------|-------------------|---------------|---------------|--------------|------|-------------|----------------|-------------|----------------|
| Sample ID: | AE66594 | Samp | le Collection | n Date/Time: | 05/1 | 5/2023 | 10:21 | | |
| Sample Received: | 05/15/2023 | Samp | ole Collector | : | KYI | LE SCHAEI | FER | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | Result | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | <u>Date</u> | <u>Analyst</u> |
| Nitrite as N | Less Than | 0.2 | mg/L | 0.8 | 20 | | EPA 300.0 | 5/17/23 | 057 |
| Nitrate as N | 0.64 | 0.20 | mg/L | 0.68 | 20 | J | EPA 300.0 | 5/17/23 | 057 |
| Nitrate-Nitrite as N | 0.64 | 0.4 | mg/L | 0.036 | 20 | | EPA 300.0 | 5/17/23 | 057 |
| Total Calcium | 20200 | 600 | ug/L | 1800 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Copper | 6 | 4 | ug/L | 10 | 1 | J | EPA 200.7 | 5/16/23 | 057 |
| Total Magnesium | 13400 | 60 | ug/L | 100 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Manganese | 10 | 4 | ug/L | 10 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Silver | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 5/22/23 | 057 |
| Total Zinc | Less Than | 60 | ug/L | 160 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Alkalinity as CaCO3 | 110 | 2 | mg/L | 6 | 1 | | SM 2320 B-1997 | 5/18/23 | 057 |
| Total Hardness as CaCO3 | 106 | 1 | mg/L | | 1 | | Std Mtd 2340B | 5/31/23 | CMW |

Sample Comments:

| Sample Description: | EB1 P4 Landfill C | CR Well Catch | up Sample | | | | | | |
|---------------------------|-------------------|---------------|----------------|--------------|------|-----------|----------------|----------|----------------|
| Sample ID: | AE66595 | Samp | ole Collection | n Date/Time: | 05/1 | 5/2023 | 13:20 | | |
| Sample Received: | 05/15/2023 | Samp | ole Collector | : | KYI | LE SCHAEI | FER | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | Result | LOD | Units | LOQ | DIL | Flag | Method | Date | <u>Analyst</u> |
| Nitrite as N | Less Than | 0.2 | mg/L | 0.8 | 20 | | EPA 300.0 | 5/17/23 | 057 |
| Nitrate as N | Less Than | 0.20 | mg/L | 0.68 | 20 | | EPA 300.0 | 5/17/23 | 057 |
| Nitrate-Nitrite as N | Less Than | 0.4 | mg/L | 0.036 | 20 | | EPA 300.0 | 5/17/23 | 057 |
| Total Calcium | 1900 | 600 | ug/L | 1800 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Copper | 10 | 4 | ug/L | 10 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Magnesium | 1000 | 60 | ug/L | 100 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Manganese | Less Than | 4 | ug/L | 10 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Silver | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 5/22/23 | 057 |
| Total Zinc | Less Than | 60 | ug/L | 160 | 1 | | EPA 200.7 | 5/16/23 | 057 |
| Total Alkalinity as CaCO3 | 10 | 2 | mg/L | 6 | 1 | | SM 2320 B-1997 | 5/18/23 | 057 |
| Total Hardness as CaCO3 | 8.9 | 1 | mg/L | | 1 | | Std Mtd 2340B | 5/16/23 | 057 |

Sample Comments:

LOD and LOQ are adjusted for dilution factor.

'J' Flag, if present indicates an estimated concentration at or above the LOD and below the LOQ.

If there are any questions concerning this report, please contact:

From: WEC Business Services Laboratory Services PSBA-A070 WDNR Cert # 241329000



Report Date: Wednesday, January 24, 2024

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: Sample ID: | W20D AE67175 | P4 Landfill (| | | ole n Date/Time: | 06/1 | 4/2023 | 09:17 | | |
|-----------------------------------|------------------------|---------------|------------|--------------|---------------------|------|-----------------------|---------------------------|-------------------------|----------------|
| Sample Received: | 06/15/202 | | | le Collector | | | MBOLL | 09.17 | | |
| <u>Parameter</u> | | <u>Result</u> | <u>LOD</u> | <u>Units</u> | <u>LOQ</u> | DIL | Result <u>Flag</u> | Analysis <u>Method</u> | Analysis <u>Date</u> | <u>Analyst</u> |
| Field Water Level | | 21.08 | 0.05 | feet | | 1 | | H2OD | 6/14/23 | RAMBOLL |
| Field Temperature | | 14 | 0.1 | Degrees | (| 1 | | TEMP | 6/14/23 | RAMBOLL |
| Field Conductivity | | 633 | 0 | umhos | | 1 | | FCOND25 | 6/14/23 | RAMBOLL |
| Field pH | | 8.5 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 6/14/23 | RAMBOLL |
| Total Calcium | | 24000 | 600 | ug/L | 1800 | 1 | | EPA 200.7 | 7/5/23 | 057 |
| Total Copper | | Less Than | 4 | ug/L | 10 | 1 | | EPA 200.7 | 7/6/23 | 057 |
| Total Magnesium | | 16000 | 60 | ug/L | 100 | 1 | | EPA 200.7 | 7/5/23 | 057 |
| Total Manganese | | 30 | 4 | ug/L | 10 | 1 | J | EPA 200.7 | 7/5/23 | 057 |
| Total Silver | | 20 | 20 | ug/L | 70 | 1 | | EPA 200.7 | 6/28/23 | 057 |
| Total Zinc | | Less Than | 60 | ug/L | 200 | 1 | | EPA 200.7 | 7/5/23 | 057 |
| Total Hardness as CaCO3 | | 130 | 1 | mg/L | | 1 | | Std Mtd 2340B | 7/17/23 | 057 |
| Nitrite as N | | 0.61 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 6/16/23 | AEU |
| Nitrate as N | | 0.031 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 6/16/23 | AEU |
| Nitrate-Nitrite as N | | 0.64 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 6/16/23 | AEU |

| Sample Description: | W73 | P4 Landfill (| CCR Well Ca | tchup Samp | le | | | | | |
|-------------------------|----------|---------------|-------------|---------------|------------|------|--------------|---------------|----------|----------------|
| Sample ID: | AE67176 | 5 | Samp | le Collectior | Date/Time: | 06/1 | 4/2023 | 13:51 | | |
| Sample Received: | 06/15/20 | 23 | Samp | le Collector: | | RAN | MBOLL | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | <u>LOQ</u> | DIL | <u>Flag</u> | <u>Method</u> | Date | <u>Analyst</u> |
| Field Water Level | | 24.15 | 0.05 | feet | | 1 | | H2OD | 6/14/23 | RAMBOLL |
| Field Temperature | | 15 | 0.1 | Degrees | (| 1 | | TEMP | 6/14/23 | RAMBOLL |
| Field Conductivity | | 535 | 0 | umhos | | 1 | | FCOND25 | 6/14/23 | RAMBOLL |
| Field pH | | 9.0 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 6/14/23 | RAMBOLL |
| Total Calcium | | 19000 | 600 | ug/L | 1800 | 1 | | EPA 200.7 | 7/5/23 | 057 |
| Total Copper | | Less Than | 4 | ug/L | 10 | 1 | | EPA 200.7 | 7/6/23 | 057 |
| Total Magnesium | | 20 | 4 | ug/L | 10 | 1 | | EPA 200.7 | 7/5/23 | 057 |
| Total Manganese | | 20 | 4 | ug/L | 10 | 1 | | EPA 200.7 | 7/5/23 | 057 |
| Total Silver | | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 6/28/23 | 057 |
| Total Zinc | | Less Than | 60 | ug/L | 200 | 1 | | EPA 200.7 | 6/28/23 | 057 |
| Total Hardness as CaCO3 | | 48 | 1 | mg/L | | 1 | | Std Mtd 2340B | 7/17/23 | 057 |
| Nitrite as N | | 0.60 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 6/16/23 | AEU |
| Nitrate as N | | Less Than | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 6/16/23 | AEU |
| Nitrate-Nitrite as N | | 0.61 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 6/16/23 | AEU |

Sample Comments:

| Sample Description: | W74 | P4 Landfill C | CR Well Cat | tchup Samp | le | | | | | |
|-------------------------|-----------|---------------|-------------|---------------|--------------|------|-------------|---------------|-------------|----------------|
| Sample ID: | AE67177 | | Samp | le Collection | n Date/Time: | 06/1 | 4/2023 | 10:09 | | |
| Sample Received: | 06/15/202 | 23 | Samp | le Collector | | RAN | MBOLL | | | |
| | | | | | | | Result | Analysis | Analysis | |
| Parameter | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | <u>Method</u> | <u>Date</u> | <u>Analyst</u> |
| Field Water Level | | 22.08 | 0.05 | feet | | 1 | | H2OD | 6/14/23 | RAMBOLL |
| Field Temperature | | 11 | 0.1 | Degrees | (| 1 | | TEMP | 6/14/23 | RAMBOLL |
| Field Conductivity | | 591 | 0 | umhos | | 1 | | FCOND25 | 6/14/23 | RAMBOLL |
| Field pH | | 8.8 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 6/14/23 | RAMBOLL |
| Total Calcium | | 18000 | 600 | ug/L | 1800 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Copper | | Less Than | 4 | ug/L | 10 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Magnesium | | 15000 | 60 | ug/L | 100 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Manganese | | 10 | 4 | ug/L | 10 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Silver | | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 6/28/23 | 057 |
| Total Zinc | | Less Than | 60 | ug/L | 200 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Hardness as CaCO3 | | 110 | 1 | mg/L | | 1 | | Std Mtd 2340B | 7/17/23 | AEU |
| Nitrite as N | | 0.59 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 6/16/23 | AEU |
| Nitrate as N | | 0.025 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 6/16/23 | AEU |
| Nitrate-Nitrite as N | | 0.62 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 6/16/23 | AEU |

| Sample Description: | W75 | P4 Landfill C | CR Well Cat | tchup Samp | le | | | | | |
|-------------------------|----------|---------------|-------------|---------------|--------------|------|--------------|---------------|-------------|----------------|
| Sample ID: | AE6717 | 8 | Samp | le Collection | n Date/Time: | 06/1 | 4/2023 | 11:01 | | |
| Sample Received: | 06/15/20 | 023 | Samp | le Collector: | | RAM | MBOLL | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | <u>Date</u> | <u>Analyst</u> |
| Field Water Level | | 24.14 | 0.05 | feet | | 1 | | H2OD | 6/14/23 | RAMBOLL |
| Field Temperature | | 11 | 0.1 | Degrees | (| 1 | | TEMP | 6/14/23 | RAMBOLL |
| Field Conductivity | | 544 | 0 | umhos | | 1 | | FCOND25 | 6/14/23 | RAMBOLL |
| Field pH | | 8.9 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 6/14/23 | RAMBOLL |
| Total Calcium | | 19000 | 600 | ug/L | 1800 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Copper | | Less Than | 4 | ug/L | 10 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Magnesium | | 13000 | 60 | ug/L | 100 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Manganese | | 7 | 4 | ug/L | 10 | 1 | J | EPA 200.7 | 6/30/23 | 057 |
| Total Silver | | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 6/28/23 | 057 |
| Total Zinc | | Less Than | 60 | ug/L | 200 | 1 | | EPA 200.7 | 6/28/23 | 057 |
| Total Hardness as CaCO3 | | 100 | 1 | mg/L | | 1 | | Std Mtd 2340B | 7/17/23 | AEU |
| Nitrite as N | | 0.69 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 6/16/23 | AEU |
| Nitrate as N | | 0.013 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 6/16/23 | AEU |
| Nitrate-Nitrite as N | | 0.71 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 6/16/23 | AEU |

Sample Comments:

| Sample Description: | W76 | P4 Landfill C | CR Well Cat | tchup Samp | le | | | | | |
|-------------------------|-----------|---------------|-------------|---------------|--------------|------|-------------|---------------|-------------|----------------|
| Sample ID: | AE67179 | | Samp | le Collection | n Date/Time: | 06/1 | 4/2023 | 11:41 | | |
| Sample Received: | 06/15/202 | 23 | Samp | le Collector | | RAN | MBOLL | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | <u>Method</u> | Date | <u>Analyst</u> |
| Field Water Level | | 25.53 | 0.05 | feet | | 1 | | H2OD | 6/14/23 | RAMBOLL |
| Field Temperature | | 12 | 0.1 | Degrees | (| 1 | | TEMP | 6/14/23 | RAMBOLL |
| Field Conductivity | | 447 | 0 | umhos | | 1 | | FCOND25 | 6/14/23 | RAMBOLL |
| Field pH | | 9.1 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 6/14/23 | RAMBOLL |
| Total Calcium | | 18000 | 600 | ug/L | 1800 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Copper | | Less Than | 4 | ug/L | 10 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Magnesium | | 12000 | 60 | ug/L | 100 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Manganese | | 8 | 4 | ug/L | 10 | 1 | J | EPA 200.7 | 6/30/23 | 057 |
| Total Silver | | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 6/28/23 | 057 |
| Total Zinc | | Less Than | 60 | ug/L | 200 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Hardness as CaCO3 | | 94 | 1 | mg/L | | 1 | | Std Mtd 2340B | 7/17/23 | 057 |
| Nitrite as N | | 0.65 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 6/16/23 | AEU |
| Nitrate as N | | 0.025 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 6/16/23 | AEU |
| Nitrate-Nitrite as N | | 0.68 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 6/16/23 | AEU |

| Sample Description: Sample ID: | W77 AE6718 | P4 Landfill C | | | le 1 Date/Time: | 06/1 | 4/2023 | 12:37 | | |
|-----------------------------------|----------------------|---------------|-------|---------------|--------------------|------|-------------|---------------|-------------|----------------|
| Sample Received: | 06/15/20 | | 1 | le Collector: | | RAN | MBOLL | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | <u>LOQ</u> | DIL | <u>Flag</u> | Method | <u>Date</u> | <u>Analyst</u> |
| Field Water Level | | 20.25 | 0.05 | feet | | 1 | | H2OD | 6/14/23 | RAMBOLL |
| Field Temperature | | 11 | 0.1 | Degrees | (| 1 | | TEMP | 6/14/23 | RAMBOLL |
| Field Conductivity | | 583 | 0 | umhos | | 1 | | FCOND25 | 6/14/23 | RAMBOLL |
| Field pH | | 8.6 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 6/14/23 | RAMBOLL |
| Total Calcium | | 23000 | 600 | ug/L | 1800 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Copper | | Less Than | 4 | ug/L | 10 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Magnesium | | 13000 | 60 | ug/L | 100 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Manganese | | 50 | 4 | ug/L | 10 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Silver | | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 6/28/23 | 057 |
| Total Zinc | | Less Than | 60 | ug/L | 200 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Hardness as CaCO3 | | 110 | 1 | mg/L | | 1 | | Std Mtd 2340B | 7/17/23 | 057 |
| Nitrite as N | | 0.78 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 6/16/23 | AEU |
| Nitrate as N | | Less Than | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 6/16/23 | AEU |
| Nitrate-Nitrite as N | | 0.79 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 6/16/23 | AEU |

Sample Comments:

| Sample Description: | QAQC01 P4 Land | lfill CCR Well (| Catchup Sai | nple | | | | | |
|-------------------------|----------------|------------------|---------------|--------------|------|-------------|---------------|----------|----------------|
| Sample ID: | AE67181 | Samp | ole Collectio | n Date/Time: | 06/1 | 4/2023 | 10:14 | | |
| Sample Received: | 06/15/2023 | Samp | ole Collector | : | RAN | MBOLL | | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Total Calcium | 19000 | 600 | ug/L | 1800 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Copper | Less Than | 4 | ug/L | 10 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Magnesium | 13000 | 60 | ug/L | 100 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Manganese | 10 | 4 | ug/L | 10 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Silver | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 6/28/23 | 057 |
| Total Zinc | Less Than | 60 | ug/L | 200 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Hardness as CaCO3 | 100 | 1 | mg/L | | 1 | | Std Mtd 2340B | 7/17/23 | 057 |
| Nitrite as N | 0.65 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 6/16/23 | AEU |
| Nitrate as N | 0.11 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 6/16/23 | AEU |
| Nitrate-Nitrite as N | 0.76 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 6/16/23 | AEU |

Sample Comments:

| Sample Description: | EB1 | P4 Landfill | CCR Well Ca | tchup Sam | ple | | | | | |
|-------------------------|------------|-------------|-------------|---------------|--------------|------|-------------|---------------|----------|----------------|
| Sample ID: | AE67182 | | Samp | le Collection | n Date/Time: | 06/1 | 4/2023 | 14:25 | | |
| Sample Received: | 06/15/2023 | | Samp | le Collector | : | RAM | MBOLL | | | |
| | | | | | | | Result | Analysis | Analysis | |
| Parameter | | Result | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Total Calcium | | Less Than | 600 | ug/L | 1800 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Copper | | Less Than | 4 | ug/L | 10 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Magnesium | | 60 | 60 | ug/L | 100 | 1 | J | EPA 200.7 | 6/30/23 | 057 |
| Total Manganese | | Less Than | 4 | ug/L | 10 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Silver | | Less Than | 20 | ug/L | 70 | 1 | | EPA 200.7 | 6/28/23 | 057 |
| Total Zinc | | Less Than | 60 | ug/L | 200 | 1 | | EPA 200.7 | 6/30/23 | 057 |
| Total Hardness as CaCO3 | | Less Than | 1 | mg/L | | 1 | | Std Mtd 2340B | 6/30/23 | 057 |
| Nitrite as N | | 0.28 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 6/16/23 | AEU |
| Nitrate as N | | 0.038 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 6/16/23 | AEU |
| Nitrate-Nitrite as N | | 0.32 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 6/16/23 | AEU |

Sample Comments:

LOD and LOQ are adjusted for dilution factor.

'J' Flag, if present indicates an estimated concentration at or above the LOD and below the LOQ.

If there are any questions concerning this report, please contact:

From: WEC Business Services Laboratory Services PSBA-A070 WDNR Cert # 241329000



Report Date: Wednesday, January 24, 2024

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: Sample ID: Sample Received: | W20D P4 Landfill AE67784 07/18/2023 | 1 | iple ile Collection ile Collector: | | 07/1 ND | 7/2023 | 12:39 | | |
|---|--|-------|---|------------|------------|-----------------------|---------------------------|-------------------------|----------------|
| <u>Parameter</u> | <u>Result</u> | LOD | <u>Units</u> | <u>LOQ</u> | DIL | Result <u>Flag</u> | Analysis <u>Method</u> | Analysis <u>Date</u> | <u>Analyst</u> |
| Field Water Level | 22.48 | 0.05 | feet | | 1 | | H2OD | 7/17/23 | N DUDA |
| Field Temperature | 15.2 | 0.1 | Degrees | 1 | 1 | | TEMP | 7/17/23 | N DUDA |
| Field Conductivity | 706 | 0 | umhos | | 1 | | FCOND25 | 7/17/23 | N DUDA |
| Field pH | 7.4 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 7/17/23 | N DUDA |
| Total Zinc | Less Than | 11.6 | ug/L | 40.0 | 1 | | EPA 200.7 | 7/20/23 | 020 |
| Total Silver | Less Than | 3.2 | ug/L | 10.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Magnesium | 17000 | 180 | ug/L | 1000 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Manganese | 37.1 | 1.5 | ug/L | 5.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Hardness as CaCO3 | 133 | 1.0 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 7/20/33 | 020 |
| Total Calcium | 25400 | 110 | ug/L | 500 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Copper | Less Than | 3.4 | ug/L | 10.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Alkalinity as CaCO3 | 110 | 20 | mg/L | | 1 | | SM 2320 B-1997 | 7/19/23 | AEU |
| Nitrite as N | 0.52 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 7/18/23 | AEU |
| Nitrate as N | 0.16 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 7/18/23 | AEU |
| Nitrate-Nitrite as N | 0.68 | 0.011 | mg/L | 0.036 | 1 | M1 | EPA 300.0 | 7/18/23 | AEU |

| Sample Description: | W73 | P4 Landfill CC | R Well Sam | ple | | | | | | |
|---------------------------|----------|----------------|------------|---------------|------------|------|--------|----------------|----------|----------------|
| Sample ID: | AE6778 | 5 | Samp | le Collection | Date/Time: | 07/1 | 7/2023 | 15:16 | | |
| Sample Received: | 07/18/20 | 23 | Samp | le Collector: | | ND | | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | Flag | Method | Date | <u>Analyst</u> |
| Field Water Level | | 25.48 | 0.05 | feet | | 1 | | H2OD | 7/17/23 | N DUDA |
| Field Temperature | | 14.4 | 0.1 | Degrees | (| 1 | | TEMP | 7/17/23 | N DUDA |
| Field Conductivity | | 484 | 0 | umhos | | 1 | | FCOND25 | 7/17/23 | N DUDA |
| Field pH | | 7.5 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 7/17/23 | N DUDA |
| Total Zinc | | Less Than | 11.6 | ug/L | 40.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Silver | | Less Than | 3.2 | ug/L | 10.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Magnesium | | 12400 | 180 | ug/L | 1000 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Manganese | | 4.3 | 1.5 | ug/L | 5.0 | 1 | J | EPA 200.7 | 7/20/33 | 020 |
| Total Hardness as CaCO3 | | 97.4 | 1.0 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 7/20/33 | 020 |
| Total Calcium | | 18600 | 110 | ug/L | 500 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Copper | | Less Than | 3.4 | ug/L | 10.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Alkalinity as CaCO3 | | 110 | 20 | mg/L | | 1 | | SM 2320 B-1997 | 7/19/23 | AEU |
| Nitrite as N | | 0.56 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 7/18/23 | AEU |

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: Sample ID: Sample Received: | W73 P4 Landfill CC AE67785 07/18/2023 | Samp | | Date/Time: | 07/1 ND | 7/2023 | 15:16 | | |
|---|---|----------------|--------------|----------------|------------|-----------------------|---------------------------|-------------------------|----------------|
| <u>Parameter</u> | Result | LOD | <u>Units</u> | <u>LOQ</u> | <u>DIL</u> | Result <u>Flag</u> | Analysis <u>Method</u> | Analysis <u>Date</u> | <u>Analyst</u> |
| Nitrate as N Nitrate-Nitrite as N | 0.026 0.59 | 0.008 0.011 | mg/L mg/L | 0.027 0.036 | 1 1 | J M1 | EPA 300.0 EPA 300.0 | 7/18/23 7/18/23 | AEU AEU |

Sample Comments:

| Sample Description: | W74 | P4 Landfill CO | CR Well Sam | ple | | | | | | |
|---------------------------|----------|----------------|-------------|---------------|--------------|------|-------------|----------------|----------|----------------|
| Sample ID: | AE6778 | 6 | Samp | le Collection | n Date/Time: | 07/1 | 7/2023 | 13:09 | | |
| Sample Received: | 07/18/20 | 023 | Samp | le Collector | : | ND | | | | |
| | | | | | | | Result | Analysis | Analysis | |
| Parameter | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Field Water Level | | 24.38 | 0.05 | feet | | 1 | | H2OD | 7/17/23 | N DUDA |
| Field Temperature | | 14.2 | 0.1 | Degrees | (| 1 | | TEMP | 7/17/23 | N DUDA |
| Field Conductivity | | 545 | 0 | umhos | | 1 | | FCOND25 | 7/17/23 | N DUDA |
| Field pH | | 7.6 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 7/17/23 | N DUDA |
| Total Zinc | | Less Than | 11.6 | ug/L | 40.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Silver | | Less Than | 3.2 | ug/L | 10.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Magnesium | | 15400 | 180 | ug/L | 1000 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Manganese | | 14.3 | 1.5 | ug/L | 5.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Hardness as CaCO3 | | 113 | 1.0 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 7/20/33 | 020 |
| Total Calcium | | 20000 | 110 | ug/L | 500 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Copper | | Less Than | 3.4 | ug/L | 10.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Alkalinity as CaCO3 | | 100 | 20 | mg/L | | 1 | | SM 2320 B-1997 | 7/19/23 | AEU |
| Nitrite as N | | 0.49 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 7/18/23 | AEU |
| Nitrate as N | | 0.15 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 7/18/23 | AEU |
| Nitrate-Nitrite as N | | 0.64 | 0.011 | mg/L | 0.036 | 1 | M1 | EPA 300.0 | 7/18/23 | AEU |

| Sample Description: | W75 | P4 Landfill CO | CR Well Sam | plE | | | | | | |
|-------------------------|----------|----------------|-------------|---------------|--------------|------|-------------|---------------|----------|----------------|
| Sample ID: | AE6778 | 7 | Samp | le Collection | n Date/Time: | 07/1 | 7/2023 | 13:37 | | |
| Sample Received: | 07/18/20 |)23 | Samp | le Collector: | | ND | | | | |
| | | | | | | | Result | Analysis | Analysis | |
| Parameter_ | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | <u>Method</u> | Date | <u>Analyst</u> |
| Field Water Level | | 25.64 | 0.05 | feet | | 1 | | H2OD | 7/17/23 | N DUDA |
| Field Temperature | | 12.2 | 0.1 | Degrees | (| 1 | | TEMP | 7/17/23 | N DUDA |
| Field Conductivity | | 465 | 0 | umhos | | 1 | | FCOND25 | 7/17/23 | N DUDA |
| Field pH | | 7.7 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 7/17/23 | N DUDA |
| Fotal Zinc | | Less Than | 11.6 | ug/L | 40.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Silver | | Less Than | 3.2 | ug/L | 10.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Magnesium | | 13300 | 180 | ug/L | 1000 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Manganese | | 10.5 | 1.5 | ug/L | 5.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Fotal Hardness as CaCO3 | | 104 | 1.0 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 7/20/33 | 020 |

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: | W75 P4 | Landfill CC | CR Well Sam | plE | | | | | | |
|---------------------------|------------|-------------|-------------------|---------------|--------------|------------|-------------|----------------|----------|----------------|
| Sample ID: | AE67787 | | Samp | le Collection | n Date/Time: | 07/1 | 7/2023 | 13:37 | | |
| Sample Received: | 07/18/2023 | | Sample Collector: | | | ND | | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | Re | <u>sult</u> | LOD | <u>Units</u> | LOQ | <u>DIL</u> | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Total Calcium | 19 | 600 | 110 | ug/L | 500 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Copper | Le | ss Than | 3.4 | ug/L | 10.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Alkalinity as CaCO3 | 110 | 0 | 20 | mg/L | | 1 | | SM 2320 B-1997 | 7/19/23 | AEU |
| Nitrite as N | 0.6 | 50 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 7/18/23 | AEU |
| Nitrate as N | 0.0 | 085 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 7/18/23 | AEU |
| Nitrate-Nitrite as N | 0.6 | 59 | 0.011 | mg/L | 0.036 | 1 | M1 | EPA 300.0 | 7/18/23 | AEU |

Sample Comments:

| Sample Description: Sample ID: | W76 P4 Landfill C AE67788 07/18/2023 | Samp | le Collection | Date/Time: | 07/1 ND | 7/2023 | 14:03 | | |
|-----------------------------------|---|-------|---------------|------------|------------|-----------------------|---------------------------|-------------------------|----------------|
| Sample Received: | 07/18/2025 | Samp | le Collector: | | ND | | | | |
| Parameter | Result | LOD | <u>Units</u> | <u>LOQ</u> | DIL | Result <u>Flag</u> | Analysis <u>Method</u> | Analysis <u>Date</u> | <u>Analyst</u> |
| Field Water Level | 27.11 | 0.05 | feet | | 1 | | H2OD | 7/17/23 | N DUDA |
| Field Temperature | 18.9 | 0.1 | Degrees | | 1 | | TEMP | 7/17/23 | N DUDA |
| Field Conductivity | 636 | 0 | umhos | | 1 | | FCOND25 | 7/17/23 | N DUDA |
| Field pH | 7.2 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 7/17/23 | N DUDA |
| Total Zinc | Less Than | 11.6 | ug/L | 40.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Silver | Less Than | 3.2 | ug/L | 10.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Magnesium | 12600 | 180 | ug/L | 1000 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Manganese | 10.8 | 1.5 | ug/L | 5.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Hardness as CaCO3 | 99.9 | 1.0 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 7/20/33 | 020 |
| Total Calcium | 19300 | 110 | ug/L | 500 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Copper | 3.5 | 3.4 | ug/L | 10.0 | 1 | J | EPA 200.7 | 7/20/33 | 020 |
| Total Alkalinity as CaCO3 | 110 | 20 | mg/L | | 1 | | SM 2320 B-1997 | 7/19/23 | AEU |
| Nitrite as N | 0.56 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 7/18/23 | AEU |
| Nitrate as N | 0.29 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 7/18/23 | AEU |
| Nitrate-Nitrite as N | 0.86 | 0.011 | mg/L | 0.036 | 1 | M1 | EPA 300.0 | 7/18/23 | AEU |

Sample Comments:

| Sample Description: | W77 P4 Landfill C | CR Well Sam | ple | | | | | | |
|---------------------|-------------------|-------------------|---------------|-------------------|-----|--------|-----------|----------|----------------|
| Sample ID: | AE67789 | Samp | le Collection | ection Date/Time: | | 7/2023 | 14:36 | | |
| Sample Received: | 07/18/2023 | Sample Collector: | | | ND | | | | |
| | | | | | | Result | Analysis | Analysis | |
| Parameter_ | <u>Result</u> | LOD | <u>Units</u> | <u>LOQ</u> | DIL | Flag | Method | Date | <u>Analyst</u> |
| Field Water Level | 21.35 | 0.05 | feet | | 1 | | H2OD | 7/17/23 | N DUDA |
| Field Temperature | 15.1 | 0.1 | Degrees (| | 1 | | TEMP | 7/17/23 | N DUDA |
| Field Conductivity | 679 | 0 | umhos | | 1 | | FCOND25 | 7/17/23 | N DUDA |
| Field pH | 7.3 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 7/17/23 | N DUDA |
| Total Zinc | Less Than | 11.6 | ug/L | 40.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: | W 77 | P4 Landfill CC | CR Well Sam | ple | | | | | | |
|---------------------------|-------------|----------------|-------------|---------------|--------------|------|--------|----------------|----------|----------------|
| Sample ID: | AE6778 | 39 | Samp | le Collection | n Date/Time: | 07/1 | 7/2023 | 14:36 | | |
| Sample Received: | 07/18/2 | 023 | Samp | le Collector | | ND | | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | Flag | Method | Date | <u>Analyst</u> |
| Total Silver | | Less Than | 3.2 | ug/L | 10.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Magnesium | | 13300 | 180 | ug/L | 1000 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Manganese | | 21.0 | 1.5 | ug/L | 5.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Hardness as CaCO3 | | 115 | 1.0 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 7/20/33 | 020 |
| Total Calcium | | 24100 | 110 | ug/L | 500 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Copper | | 7.5 | 3.4 | ug/L | 10.0 | 1 | J | EPA 200.7 | 7/20/33 | 020 |
| Total Alkalinity as CaCO3 | | 150 | 20 | mg/L | | 1 | | SM 2320 B-1997 | 7/19/23 | AEU |
| Nitrite as N | | 0.70 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 7/18/23 | AEU |
| Nitrate as N | | 0.20 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 7/18/23 | AEU |
| Nitrate-Nitrite as N | | 0.89 | 0.011 | mg/L | 0.036 | 1 | M1 | EPA 300.0 | 7/18/23 | AEU |

Sample Comments:

| Sample Description: | QAQC1 | P4 Landfi | Il CCR Well | Sample | | | | | | |
|---------------------------|------------|---------------|-------------|------------------------------|-------|-----|-------------|----------------|----------|----------------|
| Sample ID: | AE67790 | | Samp | Sample Collection Date/Time: | | | 7/2023 | 12:44 | | |
| Sample Received: | 07/18/2023 | | Samp | le Collector | | ND | | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Total Zinc | | Less Than | 11.6 | ug/L | 40.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Silver | | Less Than | 3.2 | ug/L | 10.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Magnesium | | 16600 | 180 | ug/L | 1000 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Manganese | | 74.0 | 1.5 | ug/L | 5.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Hardness as CaCO3 | | 130 | 1.0 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 7/20/33 | 020 |
| Total Calcium | | 24900 | 110 | ug/L | 500 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Copper | | Less Than | 3.4 | ug/L | 10.0 | 1 | | EPA 200.7 | 7/20/33 | 020 |
| Total Alkalinity as CaCO3 | | 110 | 20 | mg/L | | 1 | | SM 2320 B-1997 | 7/19/23 | AEU |
| Nitrite as N | | 0.52 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 7/18/23 | AEU |
| Nitrate as N | | 0.077 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 7/18/23 | AEU |
| Nitrate-Nitrite as N | | 0.59 | 0.011 | mg/L | 0.036 | 1 | M1 | EPA 300.0 | 7/18/23 | AEU |

| Sample Description: Sample ID: | EB 1 P4 La AE67791 | ndfill CCR Well Sa Samj | 1 | n Date/Time: | 07/17/ | /2023 | 15:35 | | |
|-----------------------------------|------------------------------|----------------------------|---------------|--------------|--------|-------------|-----------|----------|----------------|
| Sample Received: | 07/18/2023 | Samj | ole Collector | ND | | | | | |
| | | | | | | Result | Analysis | Analysis | |
| Parameter | Result | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Field Temperature | 25.1 | 0.1 | Degrees | . (| 1 | | TEMP | 7/17/23 | N DUDA |
| Field Conductivity | 26.2 | 0 | umhos | | 1 | | FCOND25 | 7/17/23 | N DUDA |
| Field pH | 7.2 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 7/17/23 | N DUDA |
| Total Zinc | Less T | han 11.6 | ug/L | 40.0 | 1 | | EPA 200.7 | 7/24/23 | 020 |
| Fotal Silver | Less T | han 3.2 | ug/L | 10.0 | 1 | | EPA 200.7 | 7/24/23 | 020 |

| Sample Description: | EB 1 P4 Landfil | l CCR Well Sa | mple | | | | | | |
|-------------------------|-----------------|---------------|------------------------------|------------|-----|--------|---------------|----------|----------------|
| Sample ID: | AE67791 | Sam | Sample Collection Date/Time: | | | 7/2023 | 15:35 | | |
| Sample Received: | 07/18/2023 | Samp | Sample Collector: | | | | | | |
| | | | | | | Result | Analysis | Analysis | |
| Parameter_ | <u>Result</u> | LOD | <u>Units</u> | <u>LOQ</u> | DIL | Flag | <u>Method</u> | Date | <u>Analyst</u> |
| Total Magnesium | Less Than | 180 | ug/L | 1000 | 1 | | EPA 200.7 | 7/24/23 | 020 |
| Total Manganese | Less Than | 1.5 | ug/L | 5.0 | 1 | | EPA 200.7 | 7/24/23 | 020 |
| Total Hardness as CaCO3 | Less Than | 1 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 7/24/23 | 020 |
| Total Calcium | 170 | 110 | ug/L | 500 | 1 | JB | EPA 200.7 | 7/24/23 | 020 |
| Total Copper | Less Than | 3.4 | ug/L | 10.0 | 1 | | EPA 200.7 | 7/24/23 | 020 |

Sample Comments:

LOD and LOQ are adjusted for dilution factor.

'J' Flag, if present indicates an estimated concentration at or above the LOD and below the LOQ.

If there are any questions concerning this report, please contact:

From: WEC Business Services Laboratory Services PSBA-A070 WDNR Cert # 241329000



Report Date: Wednesday, January 24, 2024

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: | | CCR Well San | • | D (/T) | 00/1 | 7/0000 | 10.02 | | |
|-------------------------|------------|--------------|---------------|--------------|------|-------------|---------------|-------------|----------------|
| Sample ID: | AE68378 | 1 | | n Date/Time: | | 7/2023 | 10:03 | | |
| Sample Received: | 08/18/2023 | Samp | ole Collector | : | RAN | MBOLL | | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | Result | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | <u>Date</u> | <u>Analyst</u> |
| Field Water Level | 23.27 | 0.05 | feet | | 1 | | H2OD | 8/17/23 | RAMBOLL |
| Field Temperature | 17 | 0.1 | Degrees | (| 1 | | TEMP | 8/17/23 | RAMBOLL |
| Field Conductivity | 490 | 0 | umhos | | 1 | | FCOND25 | 8/17/23 | RAMBOLL |
| Field pH | 8.1 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 8/17/23 | RAMBOLL |
| Total Calcium | 24100 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Copper | Less Than | 3.4 | ug/L | 10.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Magnesium | 15600 | 182 | ug/L | 1000 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Hardness as CaCO3 | 125 | 1 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 8/24/23 | 020 |
| Total Manganese | 61.4 | 1.5 | ug/L | 5.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Silver | Less Than | 3.2 | ug/L | 10.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Zinc | Less Than | 11.6 | ug/L | 40.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Nitrite as N | 1.06 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 8/18/23 | CMW |
| Nitrate as N | 0.66 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 8/18/23 | CMW |
| Nitrate-Nitrite as N | 1.72 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 8/18/23 | CMW |

| Sample Description: | W73 | P4 Landfill CO | CR Well Sam | ple | | | | | | |
|-------------------------|----------|----------------|-------------|---------------|--------------|------|-------------|---------------|-------------|----------------|
| Sample ID: | AE6837 | 9 | Samp | le Collectior | n Date/Time: | 08/1 | 7/2023 | 09:29 | | |
| Sample Received: | 08/18/20 | 023 | Samp | le Collector: | | RAM | MBOLL | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | <u>Method</u> | Date | <u>Analyst</u> |
| Field Water Level | | 25.78 | 0.05 | feet | | 1 | | H2OD | 8/17/23 | RAMBOLL |
| Field Temperature | | 12 | 0.1 | Degrees | (| 1 | | TEMP | 8/17/23 | RAMBOLL |
| Field Conductivity | | 535 | 0 | umhos | | 1 | | FCOND25 | 8/17/23 | RAMBOLL |
| Field pH | | 9.1 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 8/17/23 | RAMBOLL |
| Total Calcium | | 20600 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Copper | | Less Than | 3.4 | ug/L | 10.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Magnesium | | 12900 | 182 | ug/L | 1000 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Hardness as CaCO3 | | 104 | 1 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 8/24/23 | 020 |
| Total Manganese | | 21.5 | 1.5 | ug/L | 5.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Silver | | Less Than | 3.2 | ug/L | 10.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Zinc | | Less Than | 11.6 | ug/L | 40.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Nitrite as N | | 1.08 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 8/18/23 | CMW |
| Nitrate as N | | 0.52 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 8/18/23 | CMW |
| Nitrate-Nitrite as N | | 1.60 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 8/18/23 | CMW |

Sample Comments:

| Sample Description: | W74 | P4 Landfill CO | CR Well Sam | ple | | | | | | |
|-------------------------|----------|----------------|-------------|---------------|--------------|------|-------------|---------------|-------------|----------------|
| Sample ID: | AE6838 | 30 | Samp | le Collection | n Date/Time: | 08/1 | 7/2023 | 11:00 | | |
| Sample Received: | 08/18/20 | 023 | Samp | le Collector | : | RAM | MBOLL | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | <u>Date</u> | <u>Analyst</u> |
| Field Water Level | | 25.05 | 0.05 | feet | | 1 | | H2OD | 8/17/23 | RAMBOLL |
| Field Temperature | | 11 | 0.1 | Degrees | (| 1 | | TEMP | 8/17/23 | RAMBOLL |
| Field Conductivity | | 500 | 0 | umhos | | 1 | | FCOND25 | 8/17/23 | RAMBOLL |
| Field pH | | 8.9 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 8/17/23 | RAMBOLL |
| Total Calcium | | 18800 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Copper | | Less Than | 3.4 | ug/L | 10.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Magnesium | | 14500 | 182 | ug/L | 1000 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Hardness as CaCO3 | | 107 | 1 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 8/24/23 | 020 |
| Total Manganese | | 16.7 | 1.5 | ug/L | 5.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Silver | | Less Than | 3.2 | ug/L | 10.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Zinc | | 22.2 | 11.6 | ug/L | 40.0 | 1 | J | EPA 200.7 | 8/24/23 | 020 |
| Nitrite as N | | 1.00 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 8/18/23 | CMW |
| Nitrate as N | | 0.048 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 8/18/23 | CMW |
| Nitrate-Nitrite as N | | 1.05 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 8/18/23 | CMW |

| Sample Description: | W75 | P4 Landfill CO | CR Well Sam | plE | | | | | | |
|-------------------------|-----------|----------------|-------------|---------------|------------|------------|--------------|---------------|----------|----------------|
| Sample ID: | AE68381 | | Samp | le Collection | Date/Time: | 08/1 | 7/2023 | 11:41 | | |
| Sample Received: | 08/18/202 | 3 | Samp | le Collector: | | RAM | MBOLL | | | |
| | | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | LOQ | <u>DIL</u> | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Field Water Level | | 26.48 | 0.05 | feet | | 1 | | H2OD | 8/17/23 | RAMBOLL |
| Field Temperature | | 14 | 0.1 | Degrees | (| 1 | | TEMP | 8/17/23 | RAMBOLL |
| Field Conductivity | | 437 | 0 | umhos | | 1 | | FCOND25 | 8/17/23 | RAMBOLL |
| Field pH | | 8.8 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 8/17/23 | RAMBOLL |
| Total Calcium | | 18900 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Copper | | Less Than | 3.4 | ug/L | 10.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Magnesium | | 12500 | 182 | ug/L | 1000 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Hardness as CaCO3 | | 98.9 | 1 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 8/24/23 | 020 |
| Total Manganese | | 10.1 | 1.5 | ug/L | 5.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Silver | | Less Than | 3.2 | ug/L | 10.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Zinc | | Less Than | 11.6 | ug/L | 40.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Nitrite as N | | 1.14 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 8/18/23 | CMW |
| Nitrate as N | | 0.091 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 8/18/23 | CMW |
| Nitrate-Nitrite as N | | 1.23 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 8/18/23 | CMW |

Sample Comments:

| Sample Description: | W76 | P4 Landfill CO | CR Well Sam | ple | | | | | | |
|-------------------------|---------|----------------|-------------|----------------|--------------|------|-------------|---------------|----------|----------------|
| Sample ID: | AE6838 | 32 | Samp | ole Collection | n Date/Time: | 08/1 | 7/2023 | 12:25 | | |
| Sample Received: | 08/18/2 | 023 | Samp | le Collector | : | RAN | MBOLL | | | |
| | | | | | | | Result | Analysis | Analysis | |
| Parameter_ | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | <u>Method</u> | Date | <u>Analyst</u> |
| Field Water Level | | 27.8 | 0.05 | feet | | 1 | | H2OD | 8/17/23 | RAMBOLL |
| Field Temperature | | 14 | 0.1 | Degrees | (| 1 | | TEMP | 8/17/23 | RAMBOLL |
| Field Conductivity | | 445 | 0 | umhos | | 1 | | FCOND25 | 8/17/23 | RAMBOLL |
| Field pH | | 9.1 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 8/17/23 | RAMBOLL |
| Total Calcium | | 18400 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Copper | | Less Than | 3.4 | ug/L | 10 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Magnesium | | 11800 | 182 | ug/L | 1000 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Hardness as CaCO3 | | 94.7 | 1 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 8/24/23 | 020 |
| Total Manganese | | 14.0 | 1.5 | ug/L | 5.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Silver | | Less Than | 3.2 | ug/L | 10.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Zinc | | Less Than | 11.6 | ug/L | 40.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Nitrite as N | | 1.01 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 8/18/23 | CMW |
| Nitrate as N | | 6.22 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 8/18/23 | CMW |
| Nitrate-Nitrite as N | | 7.23 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 8/18/23 | CMW |
| | | | | | | | | | | |

| Sample Description: | W77 P4 Landfill | CCR Well Sam | ple | | | | | | |
|-------------------------|-----------------|--------------|---------------|--------------|------|-------------|---------------|----------|----------------|
| Sample ID: | AE68383 | Samp | le Collection | n Date/Time: | 08/1 | 7/2023 | 12:55 | | |
| Sample Received: | 08/18/2023 | Samp | le Collector | : | RAM | MBOLL | | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | Result | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | <u>Method</u> | Date | <u>Analyst</u> |
| Field Water Level | 21.52 | 0.05 | feet | | 1 | | H2OD | 8/17/23 | RAMBOLL |
| Field Temperature | 14 | 0.1 | Degrees | (| 1 | | TEMP | 8/17/23 | RAMBOLL |
| Field Conductivity | 580 | 0 | umhos | | 1 | | FCOND25 | 8/17/23 | RAMBOLL |
| Field pH | 8.3 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 8/17/23 | RAMBOLL |
| Total Calcium | 22400 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Copper | 4.1 | 3.4 | ug/L | 10.0 | 1 | J | EPA 200.7 | 8/24/23 | 020 |
| Total Magnesium | 12300 | 182 | ug/L | 1000 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Hardness as CaCO3 | 107 | 1 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 8/24/23 | 020 |
| Total Manganese | 19.6 | 1.5 | ug/L | 5.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Silver | Less Than | 3.2 | ug/L | 10.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Zinc | Less Than | 11.6 | ug/L | 40.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Nitrite as N | 1.38 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 8/23/23 | CMW |
| Nitrate as N | 0.16 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 8/23/23 | CMW |
| Nitrate-Nitrite as N | 1.53 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 8/23/23 | CMW |

Sample Comments:

| Sample Description: | QAQC1 P4 Land AE68384 | Ifill CCR Well S | - | D-4-/T | 0.0/1 | 7/2023 | 10:08 | | |
|--------------------------------|--------------------------|------------------|---------------|--------------|-------|-----------------|---------------|----------|----------------|
| Sample ID: Sample Received: | AE08384 08/18/2023 | 1 | ole Collector | n Date/Time: | | //2025 MBOLL | 10:08 | | |
| Sample Received: | 08/18/2025 | Samp | one Confector | | KAN | IDULL | | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | Result | LOD | <u>Units</u> | LOQ | DIL | Flag | <u>Method</u> | Date | <u>Analyst</u> |
| Total Calcium | 23300 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Copper | Less Than | 3.4 | ug/L | 10.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Magnesium | 15400 | 182 | ug/L | 1000 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Hardness as CaCO3 | 122 | 1 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 8/24/23 | 020 |
| Total Manganese | 66.5 | 1.5 | ug/L | 5.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Silver | Less Than | 3.2 | ug/L | 10.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Zinc | Less Than | 11.6 | ug/L | 40.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Nitrite as N | 1.04 | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 8/18/23 | CMW |
| Nitrate as N | 1.00 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 8/18/23 | CMW |
| Nitrate-Nitrite as N | 2.04 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 8/18/23 | CMW |

Sample Comments:

| Sample Description: | EB1 | P4 Landfill (| CCR Well Sai | mple | | | | | | |
|-------------------------|-----------|---------------|--------------|---------------|--------------|------|--------|---------------|-------------|----------------|
| Sample ID: | AE68385 | | Samp | le Collection | n Date/Time: | 08/1 | 7/2023 | 13:10 | | |
| Sample Received: | 08/18/202 | 3 | Samp | le Collector | : | RAN | MBOLL | | | |
| | | _ | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | Flag | Method | <u>Date</u> | <u>Analyst</u> |
| Field Temperature | | 24 | 0.1 | Degrees | (| 1 | | TEMP | 8/17/23 | RAMBOLL |
| Field Conductivity | | 37 | 0 | umhos | | 1 | | FCOND25 | 8/17/23 | RAMBOLL |
| Field pH | | 8.7 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 8/17/23 | RAMBOLL |
| Total Calcium | | 1640 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Copper | | 4.8 | 3.4 | ug/L | 10.0 | 1 | J | EPA 200.7 | 8/24/23 | 020 |
| Total Magnesium | | 785 | 182 | ug/L | 1000 | 1 | J | EPA 200.7 | 8/24/23 | 020 |
| Total Hardness as CaCO3 | | 7.32 | 1 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 8/24/23 | 020 |
| Total Manganese | | 3.5 | 1.5 | ug/L | 5.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Silver | | Less Than | 3.2 | ug/L | 10.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Total Zinc | | Less Than | 11.6 | ug/L | 40.0 | 1 | | EPA 200.7 | 8/24/23 | 020 |
| Nitrite as N | | Less Than | 0.003 | mg/L | 0.009 | 1 | | EPA 300.0 | 8/18/23 | CMW |
| Nitrate as N | | 0.21 | 0.008 | mg/L | 0.027 | 1 | | EPA 300.0 | 8/18/23 | CMW |
| Nitrate-Nitrite as N | | 0.21 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 8/18/23 | CMW |
| Total Mercury | | 4.03 | 0.17 | ng/L | 0.57 | 1 | | EPA 1631E | 8/25/23 | JLM |

LOD and LOQ are adjusted for dilution factor.

'J' Flag, if present indicates an estimated concentration at or above the LOD and below the LOQ.

If there are any questions concerning this report, please contact:

From: WEC Business Services Laboratory Services PSBA-A070 WDNR Cert # 241329000



Report Date: Wednesday, January 24, 2024

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: | P4 Landfill CCR Well S | ample W20D | | | | | | | |
|-------------------------|------------------------|------------|---------------|------------|------|-------------|---------------|-------------|----------------|
| Sample ID: | AE68994 | Samp | le Collection | Date/Time: | 09/2 | 1/2023 | 09:24 | | |
| Sample Received: | 09/22/2023 | Samp | le Collector: | | | | | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | Result | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Field Water Level | 23.17 | 0.05 | feet | | 1 | | H2OD | 9/21/23 | RAMBOLL |
| Field Temperature | 13.3 | 0.1 | Degrees | (| 1 | | TEMP | 9/21/23 | RAMBOLL |
| Field Conductivity | 678 | 0 | umhos | | 1 | | FCOND25 | 9/21/23 | RAMBOLL |
| Field pH | 7.9 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 9/21/23 | RAMBOLL |
| Total Hardness as CaCO3 | 133 | 2.5 | mg/L | 13.5 | 1 | | Std Mtd 2340B | 10/3/23 | 020 |
| Nitrate-Nitrite as N | 1.3 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 9/21/23 | AEU |
| Total Calcium | 25600 | 284 | ug/L | 1500 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Copper | Less Than | 8.4 | ug/L | 25.0 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Magnesium | 16800 | 455 | ug/L | 2500 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Manganese | 21.9 | 3.9 | ug/L | 12.5 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Silver | Less Than | 8.0 | ug/L | 25.0 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Zinc | Less Than | 28.9 | ug/L | 100 | 1 | | EPA 200.7 | 10/3/23 | 020 |

| Sample Description: | P4 Landfill CCR Well Sa | Landfill CCR Well Sample W73 | | | | | | | |
|-------------------------|-------------------------|------------------------------|---------------|------------|------|-------------|---------------|----------|----------------|
| Sample ID: | AE68995 | Samp | le Collection | Date/Time: | 09/2 | 1/2023 | 14:31 | | |
| Sample Received: | 09/22/2023 | Samp | le Collector: | | | | | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | Result | LOD | <u>Units</u> | <u>LOQ</u> | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Field Water Level | 25.85 | 0.05 | feet | | 1 | | H2OD | 9/21/23 | RAMBOLL |
| Field Temperature | 12.5 | 0.1 | Degrees | (| 1 | | TEMP | 9/21/23 | RAMBOLL |
| Field Conductivity | 580 | 0 | umhos | | 1 | | FCOND25 | 9/21/23 | RAMBOLL |
| Field pH | 8.4 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 9/21/23 | RAMBOLL |
| Total Hardness as CaCO3 | 118 | 1.0 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 10/3/23 | 020 |
| Nitrate-Nitrite as N | 2.2 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 9/21/23 | AEU |
| Total Calcium | 23200 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 10/9/23 | 020 |
| Total Copper | Less Than | 3.4 | ug/L | 10 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Magnesium | 14600 | 182 | ug/L | 1000 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Manganese | 26.9 | 1.5 | ug/L | 5.0 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Silver | Less Than | 3.2 | ug/L | 10 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Zinc | Less Than | 11.6 | ug/L | 40 | 1 | | EPA 200.7 | 10/3/23 | 020 |

Sample Comments:

| Sample Description: | P4 Landfill CCR Well Sa | mple W74 | | | | | | | |
|-------------------------|-------------------------|----------|---------------|--------------|------|-------------|---------------|----------|----------------|
| Sample ID: | AE68996 | Samp | le Collection | n Date/Time: | 09/2 | 1/2023 | 10:16 | | |
| Sample Received: | 09/22/2023 | Samp | le Collector: | | | | | | |
| | | | | | | Result | Analysis | Analysis | |
| Parameter | Result | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Field Water Level | 24.36 | 0.05 | feet | | 1 | | H2OD | 9/21/23 | RAMBOLL |
| Field Temperature | 16.9 | 0.1 | Degrees | (| 1 | | TEMP | 9/21/23 | RAMBOLL |
| Field Conductivity | 638 | 0 | umhos | | 1 | | FCOND25 | 9/21/23 | RAMBOLL |
| Field pH | 7.5 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 9/21/23 | RAMBOLL |
| Total Hardness as CaCO3 | 107 | 1.0 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 10/3/23 | 020 |
| Nitrate-Nitrite as N | 1.9 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 9/21/23 | AEU |
| Total Calcium | 18700 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Copper | 3.7 | 3.4 | ug/L | 10 | 1 | J | EPA 200.7 | 10/3/23 | 020 |
| Total Magnesium | 14600 | 182 | ug/L | 1000 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Manganese | 2.7 | 1.5 | ug/L | 5 | 1 | J | EPA 200.7 | 10/3/23 | 020 |
| Total Silver | Less Than | 3.2 | ug/L | 10 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Zinc | Less Than | 11.6 | ug/L | 40 | 1 | | EPA 200.7 | 10/3/23 | 020 |

Sample Comments:

| Sample Description: | P4 Landfill CCR Well S | ample W75 | | | | | | | |
|-------------------------|------------------------|-----------|---------------|--------------|------|-------------|---------------|----------|----------------|
| Sample ID: | AE68997 | Samp | le Collection | n Date/Time: | 09/2 | 1/2023 | 11:11 | | |
| Sample Received: | 09/22/2023 | Samp | le Collector | | | | | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | Result | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Field Water Level | 25.89 | 0.05 | feet | | 1 | | H2OD | 9/21/23 | RAMBOLL |
| Field Temperature | 17.6 | 0.1 | Degrees | (| 1 | | TEMP | 9/21/23 | RAMBOLL |
| Field Conductivity | 591 | 0 | umhos | | 1 | | FCOND25 | 9/21/23 | RAMBOLL |
| Field pH | 7.4 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 9/21/23 | RAMBOLL |
| Total Hardness as CaCO3 | 106 | 1.0 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 10/3/23 | 020 |
| Nitrate-Nitrite as N | 1.6 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 9/21/23 | AEU |
| Total Calcium | 20100 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Copper | 4.7 | 3.4 | ug/L | 10 | 1 | J | EPA 200.7 | 10/3/23 | 020 |
| Total Magnesium | 13400 | 182 | ug/L | 1000 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Manganese | 2.1 | 1.5 | ug/L | 5 | 1 | J | EPA 200.7 | 10/3/23 | 020 |
| Total Silver | Less Than | 3.2 | ug/L | 10 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Zinc | 13.8 | 11.6 | ug/L | 40 | 1 | J | EPA 200.7 | 10/3/23 | 020 |

| Sample Description: | P4 Landfill CCR Well S | ample W76 | | | | | | | |
|-------------------------|------------------------|-----------|---------------|--------------|------|-------------|---------------|----------|----------------|
| Sample ID: | AE68998 | Samp | le Collection | n Date/Time: | 09/2 | 1/2023 | 12:19 | | |
| Sample Received: | 09/22/2023 | Samp | le Collector: | | | | | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Field Water Level | 27.94 | 0.05 | feet | | 1 | | H2OD | 9/21/23 | RAMBOLL |
| Field Temperature | 12.1 | 0.1 | Degrees | (| 1 | | TEMP | 9/21/23 | RAMBOLL |
| Field Conductivity | 588 | 0 | umhos | | 1 | | FCOND25 | 9/21/23 | RAMBOLL |
| Field pH | 8.5 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 9/21/23 | RAMBOLL |
| Total Hardness as CaCO3 | 98 | 1.0 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 10/3/23 | 020 |
| Nitrate-Nitrite as N | 1.9 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 9/21/23 | AEU |
| Total Calcium | 19000 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Copper | Less Than | 3.4 | ug/L | 10 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Magnesium | 12200 | 182 | ug/L | 1000 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Manganese | 12.2 | 1.5 | ug/L | 5 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Silver | Less Than | 3.2 | ug/L | 10 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Zinc | 12.5 | 11.6 | ug/L | 40 | 1 | J | EPA 200.7 | 10/3/23 | 020 |

Sample Comments:

| Sample Description: | P4 Landfill CCR Well Sa | ample W77 | | | | | | | |
|-------------------------|-------------------------|-----------|---------------|--------------|------------|--------|---------------|----------|----------------|
| Sample ID: | AE68999 | Samp | le Collectior | n Date/Time: | 09/2 | 1/2023 | 13:27 | | |
| Sample Received: | 09/22/2023 | Samp | le Collector: | | | | | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | Result | LOD | <u>Units</u> | LOQ | <u>DIL</u> | Flag | Method | Date | <u>Analyst</u> |
| Field Water Level | 21.68 | 0.05 | feet | | 1 | | H2OD | 9/21/23 | RAMBOLL |
| Field Temperature | 11.4 | 0.1 | Degrees | (| 1 | | TEMP | 9/21/23 | RAMBOLL |
| Field Conductivity | 621 | 0 | umhos | | 1 | | FCOND25 | 9/21/23 | RAMBOLL |
| Field pH | 7.9 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 9/21/23 | RAMBOLL |
| Total Hardness as CaCO3 | 121 | 1.0 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 10/3/23 | 020 |
| Nitrate-Nitrite as N | 1.9 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 9/21/23 | AEU |
| Total Calcium | 25400 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Copper | Less Than | 3.4 | ug/L | 10 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Magnesium | 14000 | 182 | ug/L | 1000 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Manganese | 64.9 | 1.5 | ug/L | 5 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Silver | Less Than | 3.2 | ug/L | 10 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Zinc | Less Than | 11.6 | ug/L | 40 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| | | | | | | | | | |

| Sample Description: Sample ID: Sample Received: | P4 Landfill CCR Well S AE69000 09/22/2023 | Samp | | n Date/Time: | 09/21/2023 | | 11:16 | | |
|---|--|--------------|--------------|--------------|------------|-----------------------|----------------------------|-------------------------|----------------|
| <u>Parameter</u> | Result | <u>LOD</u> | <u>Units</u> | <u>LOQ</u> | <u>DIL</u> | Result <u>Flag</u> | Analysis <u>Method</u> | Analysis <u>Date</u> | <u>Analyst</u> |
| Total Hardness as CaCO3 Nitrate-Nitrite as N | 106 1.7 | 1.0 0.011 | mg/L mg/L | 5.4 0.036 | 1 1 | | Std Mtd 2340B EPA 300.0 | 10/3/23 9/21/23 | 020 AEU |

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: | P4 Landfill CCR Well Sa | P4 Landfill CCR Well Sample QA/QC1 | | | | | | | | | | |
|---------------------|-------------------------|------------------------------------|---------------|------|------|-------------|---------------|----------|----------------|--|--|--|
| Sample ID: | AE69000 | Sample Collection Date/Time: | | | 09/2 | 1/2023 | 11:16 | | | | | |
| Sample Received: | 09/22/2023 | Samp | ole Collector | : | | | | | | | | |
| | | | | | | Result | Analysis | Analysis | | | | |
| <u>Parameter</u> | Result | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | <u>Method</u> | Date | <u>Analyst</u> | | | |
| Total Calcium | 20300 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 10/3/23 | 020 | | | |
| Total Copper | Less Than | 3.4 | ug/L | 10 | 1 | | EPA 200.7 | 10/3/23 | 020 | | | |
| Total Magnesium | 13500 | 182 | ug/L | 1000 | 1 | | EPA 200.7 | 10/3/23 | 020 | | | |
| Total Manganese | 3.8 | 1.5 | ug/L | 5 | 1 | J | EPA 200.7 | 10/3/23 | 020 | | | |
| Total Silver | Less Than | 3.2 | ug/L | 10.0 | 1 | | EPA 200.7 | 10/3/23 | 020 | | | |
| Total Zinc | Less Than | 11.6 | ug/L | 40 | 1 | | EPA 200.7 | 10/3/23 | 020 | | | |

Sample Comments:

| Sample Description: | P4 Landfill CCR Well Sa | ample EB1 | | | | | | | |
|-------------------------|-------------------------|-----------|---------------|--------------|------|-------------|---------------|----------|----------------|
| Sample ID: | AE69001 | Samp | le Collection | n Date/Time: | 09/2 | 1/2023 | 15:00 | | |
| Sample Received: | 09/22/2023 | Samp | le Collector: | | | | | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | <u>Method</u> | Date | <u>Analyst</u> |
| Field Temperature | 24.2 | 0.1 | Degrees | (| 1 | | TEMP | 9/21/23 | RAMBOLL |
| Field Conductivity | 14 | 0 | umhos | | 1 | | FCOND25 | 9/21/23 | RAMBOLL |
| Field pH | 6.0 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 9/21/23 | RAMBOLL |
| Total Hardness as CaCO3 | Less Than | 1.0 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 10/3/23 | 020 |
| Nitrate-Nitrite as N | 0.062 | 0.011 | mg/L | 0.036 | 1 | | EPA 300.0 | 9/21/23 | AEU |
| Total Calcium | 124 | 114 | ug/L | 500 | 1 | J | EPA 200.7 | 10/3/23 | 020 |
| Total Copper | Less Than | 3.4 | ug/L | 10 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Magnesium | Less Than | 182 | ug/L | 1000 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Manganese | Less Than | 1.5 | ug/L | 5 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Silver | Less Than | 3.2 | ug/L | 10 | 1 | | EPA 200.7 | 10/3/23 | 020 |
| Total Zinc | Less Than | 11.6 | ug/L | 40 | 1 | | EPA 200.7 | 10/3/23 | 020 |

Sample Comments:

LOD and LOQ are adjusted for dilution factor.

'J' Flag, if present indicates an estimated concentration at or above the LOD and below the LOQ.

If there are any questions concerning this report, please contact:

From: WEC Business Services Laboratory Services PSBA-A070 WDNR Cert # 241329000



Report Date: Friday, December 1, 2023

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: | W75 P4 Landfill CCR | Well Sample | | | | | | | |
|---------------------------|---------------------|-------------|---------------|--------------|-------|-------------|----------------|-------------|----------------|
| Sample ID: | AE69686 | Samp | le Collection | n Date/Time: | 10/30 | 0/2023 | 09:46 | | |
| Sample Received: | 10/31/2023 | Samp | le Collector: | | RAN | 1BOLL | | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | <u>Result</u> | LOD | <u>Units</u> | <u>LOQ</u> | DIL | <u>Flag</u> | <u>Method</u> | <u>Date</u> | <u>Analyst</u> |
| Field Water Level | 25.09 | 0.05 | feet | | 1 | | H2OD | 10/30/23 | RAMBOLL |
| Field Temperature | 9.0 | 0.1 | Degrees | (| 1 | | TEMP | 10/30/23 | RAMBOLL |
| Field Conductivity | 528 | 0 | umhos | | 1 | | FCOND25 | 10/30/23 | RAMBOLL |
| Field pH | 7.4 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 10/30/23 | RAMBOLL |
| Total Dissolved Solids | 340 | 8.7 | mg/L | 20 | 1 | | Std Mtd 2540 C | 11/2/23 | 020 |
| Total Fluoride | 1.2 | 0.095 | mg/L | 0.32 | 1 | | EPA 300.0 | 11/16/23 | 020 |
| Total Chloride | 8.7 | 0.59 | mg/L | 2.0 | 1 | | EPA 300.0 | 11/16/23 | 020 |
| Total Sulfate | 133 | 4.4 | mg/L | 20 | 10 | | EPA 300.0 | 11/15/23 | 020 |
| Total Boron | 434 | 17.3 | ug/L | 40 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Total Calcium | 19400 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Calcium | 21100 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Chloride | 8.7 | 0.59 | mg/L | 2 | 1 | | EPA 300.0 | 11/14/23 | 020 |
| Dissolved Magnesium | 14300 | 182 | ug/L | 1000 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Sodium | 81500 | 350 | ug/L | 500 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Sulfate | 129 | 4.4 | mg/L | 20 | 10 | | EPA 300.0 | 11/14/23 | 020 |
| Bicarbonate Ion | 123 | 5.0 | mg/L | 10.0 | 1 | | HCO3 | 11/13/23 | 020 |
| Carbonate Ion | Less Than | 5.0 | mg/L | 10.0 | 1 | | CO3 | 11/13/23 | 020 |
| Dissolved Potassium | 3120 | 325 | ug/L | 1000 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Total Alkalinity as CaCO3 | 124 | 5.0 | mg/L | 10.0 | 1 | | SM 2320 B-1997 | 11/9/23 | 020 |
| Total Hardness as CaCO3 | 102 | 1.0 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 11/2/23 | 020 |
| Dissolved Oxygen-Field | 1.13 | 0.1 | mg/l | | 1 | | FIELDDO | 10/30/23 | RAMBOLL |
| Turbidity | 0.0 | 0.1 | NTU'S | | 1 | | EPA 180.1 | 10/30/23 | RAMBOLL |
| Redox Potential | 167 | 1 | mV | | 1 | | ASTM D1498-93 | 10/30/23 | RAMBOLL |

| Sample Description: | QA/QC1 P4 Landfill (| CCR Well Sam | ple | | | | | | |
|------------------------|----------------------|--------------|---------------|--------------|------|-------------|----------------|----------|----------------|
| Sample ID: | AE69687 | Samp | le Collection | n Date/Time: | 10/3 | 0/2023 | 09:51 | | |
| Sample Received: | 10/31/2023 | Samp | le Collector | : | RAN | MBOLL | | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | Result | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Total Dissolved Solids | 340 | 8.7 | mg/L | 20 | 1 | | Std Mtd 2540 C | 11/2/23 | 020 |
| Total Fluoride | 1.1 | 0.095 | mg/L | 0.32 | 1 | | EPA 300.0 | 11/16/23 | 020 |
| Total Chloride | 8.7 | 0.59 | mg/L | 2.0 | 1 | | EPA 300.0 | 11/16/23 | 020 |
| Total Sulfate | 132 | 4.4 | mg/L | 20.0 | 10 | | EPA 300.0 | 11/15/23 | 020 |
| Total Boron | 416 | 17.3 | ug/L | 40.0 | 1 | | EPA 200.7 | 11/2/23 | 020 |

| Sample Description: | QA/QC1 P4 Landfill Co | CR Well Sam | ple | | | | | | |
|---------------------------|-----------------------|-------------|---------------|--------------|------|-------------|----------------|----------|----------------|
| Sample ID: | AE69687 | Samp | le Collection | n Date/Time: | 10/3 | 0/2023 | 09:51 | | |
| Sample Received: | 10/31/2023 | Samp | le Collector | : | RAN | MBOLL | | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Total Calcium | 18500 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Calcium | 19500 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Chloride | 8.7 | 0.59 | mg/L | 2.0 | 1 | | EPA 300.0 | 11/14/23 | 020 |
| Dissolved Magnesium | 13200 | 182 | ug/L | 1000 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Sodium | 75400 | 350 | ug/L | 500 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Sulfate | 133 | 4.4 | mg/L | 20 | 10 | | EPA 300.0 | 11/14/23 | 020 |
| Bicarbonate Ion | 126 | 5.0 | mg/L | 10.0 | 1 | | HCO3 | 11/13/23 | 020 |
| Carbonate Ion | Less Than | 5.0 | mg/L | 10.0 | 1 | | CO3 | 11/13/23 | 020 |
| Dissolved Potassium | 2820 | 325 | ug/L | 1000 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Total Alkalinity as CaCO3 | 127 | 5.0 | mg/L | 10.0 | 1 | | SM 2320 B-1997 | 11/9/23 | 020 |
| Total Hardness as CaCO3 | 97.5 | 1.0 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 11/2/23 | 020 |

| Sample Description: | W76 P4 Landfill CCR | Well Sample | | | | | | | |
|---------------------------|---------------------|-------------|---------------|--------------|------|--------|----------------|----------|----------------|
| Sample ID: | AE69688 | Samp | le Collection | n Date/Time: | 10/3 | 0/2023 | 10:54 | | |
| Sample Received: | 10/31/2023 | Samp | le Collector: | | RAN | MBOLL | | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | Result | LOD | <u>Units</u> | <u>LOQ</u> | DIL | Flag | Method | Date | <u>Analyst</u> |
| Field Water Level | 26.01 | 0.05 | feet | | 1 | | H2OD | 10/30/23 | RAMBOLL |
| Field Temperature | 10.1 | 0.1 | Degrees | (| 1 | | TEMP | 10/30/23 | RAMBOLL |
| Field Conductivity | 523 | 0 | umhos | | 1 | | FCOND25 | 10/30/23 | RAMBOLL |
| Field pH | 8.3 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 10/30/23 | RAMBOLL |
| Total Dissolved Solids | 344 | 8.7 | mg/L | 20.0 | 1 | | Std Mtd 2540 C | 11/2/23 | 020 |
| Total Fluoride | 1.1 | 0.095 | mg/L | 0.32 | 1 | | EPA 300.0 | 11/16/23 | 020 |
| Total Chloride | 10.6 | 0.59 | mg/L | 2.0 | 1 | | EPA 300.0 | 11/16/23 | 020 |
| Total Sulfate | 139 | 4.4 | mg/L | 20.0 | 10 | | EPA 300.0 | 11/15/23 | 020 |
| Total Boron | 450 | 17.3 | ug/L | 40 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Total Calcium | 18900 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Calcium | 19400 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Chloride | 10.6 | 0.59 | mg/L | 2 | 1 | | EPA 300.0 | 11/14/23 | 020 |
| Dissolved Magnesium | 12600 | 182 | ug/L | 1000 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Sodium | 81800 | 350 | ug/L | 500 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Sulfate | 138 | 4.4 | mg/L | 20 | 10 | | EPA 300.0 | 11/2/23 | 020 |
| Bicarbonate Ion | 121 | 5.0 | mg/L | 10.0 | 1 | | HCO3 | 11/13/23 | 020 |
| Carbonate Ion | Less Than | 5.0 | mg/L | 10.0 | 1 | | CO3 | 11/13/23 | 020 |
| Dissolved Potassium | 2310 | 325 | ug/L | 1000 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Total Alkalinity as CaCO3 | 122 | 5.0 | mg/L | 10.0 | 1 | | SM 2320 B-1997 | 11/9/23 | 020 |
| Total Hardness as CaCO3 | 96.9 | 1.0 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 11/2/23 | 020 |
| Dissolved Oxygen-Field | 1.2 | 0.1 | mg/l | | 1 | | FIELDDO | 10/30/23 | RAMBOLL |
| Turbidity | 2.1 | 0.1 | NTU'S | | 1 | | EPA 180.1 | 10/30/23 | RAMBOLI |
| Redox Potential | -81 | 1 | mV | | 1 | | ASTM D1498-93 | 10/30/23 | RAMBOLL |

Sample Comments:

| Sample Description: | W77 P4 Landfill CCR V | Vell Sample | | | | | | | |
|---------------------------|-----------------------|-------------|---------------|--------------|------|--------------|----------------|----------|----------------|
| Sample ID: | AE69689 | Samp | le Collection | n Date/Time: | 10/3 | 0/2023 | 11:49 | | |
| Sample Received: | 10/31/2023 | Samp | le Collector | | RAM | MBOLL | | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | Flag | <u>Method</u> | Date | <u>Analyst</u> |
| Field Water Level | 20.43 | 0.05 | feet | | 1 | | H2OD | 10/30/23 | RAMBOLL |
| Field Temperature | 10.4 | 0.1 | Degrees | (| 1 | | TEMP | 10/30/23 | RAMBOLL |
| Field Conductivity | 543 | 0 | umhos | | 1 | | FCOND25 | 10/30/23 | RAMBOLL |
| Field pH | 7.8 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 10/30/23 | RAMBOLL |
| Total Dissolved Solids | 366 | 8.7 | mg/L | 20.0 | 1 | | Std Mtd 2540 C | 11/2/23 | 020 |
| Total Fluoride | 1.2 | 0.095 | mg/L | 0.32 | 1 | | EPA 300.0 | 11/16/23 | 020 |
| Total Chloride | 8.1 | 0.59 | mg/L | 2.0 | 1 | | EPA 300.0 | 11/16/23 | 020 |
| Total Sulfate | 135 | 4.4 | mg/L | 20 | 10 | | EPA 300.0 | 11/15/23 | 020 |
| Total Boron | 428 | 17.3 | ug/L | 40.0 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Total Calcium | 24500 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Calcium | 25400 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Chloride | 8.1 | 0.59 | mg/L | 2.0 | 1 | | EPA 300.0 | 11/16/23 | 020 |
| Dissolved Magnesium | 14100 | 182 | ug/L | 1000 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Sodium | 84300 | 350 | ug/L | 500 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Sulfate | 135 | 4.4 | mg/L | 20.0 | 10 | | EPA 300.0 | 11/14/23 | 020 |
| Bicarbonate Ion | 147 | 5.0 | mg/L | 10.0 | 1 | | HCO3 | 11/13/23 | 020 |
| Carbonate Ion | Less Than | 5.0 | mg/L | 10.0 | 1 | | CO3 | 11/13/23 | 020 |
| Dissolved Potassium | 2280 | 325 | ug/L | 1000 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Total Alkalinity as CaCO3 | 147 | 5.0 | mg/L | 10.0 | 1 | | SM 2320 B-1997 | 11/9/23 | 020 |
| Total Hardness as CaCO3 | 117 | 1.0 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 11/2/23 | 020 |
| Redox Potential | -63 | 1 | mV | | 1 | | ASTM D1498-93 | 10/30/23 | RAMBOLL |
| Turbidity | 2.4 | 0.1 | NTU'S | | 1 | | EPA 180.1 | 10/30/23 | RAMBOLL |
| Dissolved Oxygen-Field | 1.2 | 0.1 | mg/l | | 1 | | FIELDDO | 10/30/23 | RAMBOLL |

| Sample Description: | W73 P4 Landfill CCR | Well Sample | | | | | | | |
|------------------------|---------------------|-------------|----------------|--------------|------|--------------|----------------|----------|---------|
| Sample ID: | AE69690 | Samp | ole Collection | n Date/Time: | 10/3 | 0/2023 | 12:53 | | |
| Sample Received: | 10/31/2023 | Samp | le Collector | : | RAM | MBOLL | | | |
| | | | | | | Result | Analysis | Analysis | |
| Parameter | Result | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | Analyst |
| Field Water Level | 24.96 | 0.05 | feet | | 1 | | H2OD | 10/30/23 | RAMBOLI |
| Field Temperature | 11.8 | 0.1 | Degrees | (| 1 | | TEMP | 10/30/23 | RAMBOLI |
| Field Conductivity | 459 | 0 | umhos | | 1 | | FCOND25 | 10/30/23 | RAMBOLI |
| Field pH | 8.24 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 10/30/23 | RAMBOLI |
| Total Dissolved Solids | 338 | 8.7 | mg/L | 20.0 | 1 | | Std Mtd 2540 C | 11/1/23 | 020 |
| Total Fluoride | 1.1 | 0.095 | mg/L | 0.32 | 1 | | EPA 300.0 | 11/1/23 | 020 |
| Total Chloride | 11.2 | 0.59 | mg/L | 2.0 | 1 | | EPA 300.0 | 11/1/23 | 020 |
| Total Sulfate | 132 | 4.4 | mg/L | 20.0 | 1 | | EPA 300.0 | 11/1/23 | 020 |

| Sample Description: | W73 P4 Landfill CCR | W73 P4 Landfill CCR Well Sample | | | | | | | |
|------------------------------------|---------------------|---------------------------------|---------------|--------------|------|-------------|----------------|-------------|----------------|
| Sample ID: | AE69690 | Samp | le Collection | n Date/Time: | 10/3 | 0/2023 | 12:53 | | |
| Sample Received: | 10/31/2023 | Samp | le Collector | : | RAM | MBOLL | | | |
| | | | | | | Result | Analysis | Analysis | |
| Parameter | Result | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | <u>Method</u> | <u>Date</u> | <u>Analyst</u> |
| Total Boron | 447 | 17.3 | ug/L | 40.0 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Total Calcium | 19000 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Calcium | 18200 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Chloride | 11.1 | 0.59 | mg/L | 2.0 | 1 | | EPA 300.0 | 11/1/23 | 020 |
| Dissolved Magnesium | 12100 | 182 | ug/L | 1000 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Sodium | 75800 | 350 | ug/L | 500 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Sulfate | 134 | 4.4 | mg/L | 20.0 | 1 | | EPA 300.0 | 11/1/23 | 020 |
| Bicarbonate Ion | 117 | 5.0 | mg/L | 10.0 | 1 | | HCO3 | 11/8/23 | 020 |
| Carbonate Ion | Less Than | 5.0 | mg/L | 10.0 | 1 | | CO3 | 11/8/23 | 020 |
| Dissolved Potassium | 1460 | 325 | ug/L | 1000 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Total Alkalinity as CaCO3 | 120 | 5.0 | mg/L | 10.0 | 1 | | SM 2320 B-1997 | 11/1/23 | 020 |
| Total Hardness as CaCO3 | 98.7 | 1 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 11/2/23 | 020 |
| Total Filtered Alkalinity as CaCO3 | 117 | 5.0 | mg/l | 10.0 | 1 | | Std Mtd 2320 B | 11/1/23 | 020 |
| Dissolved Boron | 0.445 | 0.0173 | mg/L | 0.040 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Selenium | Less Than | 0.0122 | mg/L | 0.04 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Organic Carbon | 2.1 | 0.19 | ppm | 0.50 | 1 | | Std Mtd 5310C | 11/1/23 | 020 |
| Dissolved Molybdenum | 0.105 | 0.0024 | mg/L | 0.010 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Redox Potential | -150 | 1 | mV | | 1 | | ASTM D1498-93 | 10/30/23 | RAMBOL |
| Turbidity | 14.1 | 0.1 | NTU'S | | 1 | | EPA 180.1 | 10/30/23 | RAMBOL |
| Dissolved Oxygen-Field | 0.9 | 0.1 | mg/l | | 1 | | FIELDDO | 10/30/23 | RAMBOL |

| Sample Description: | W74 P4 Landfill CCR | Well Sample | | | | | | | |
|------------------------|---------------------|-------------|---------------|--------------|------|-------------|----------------|----------|----------------|
| Sample ID: | AE69691 | Samp | le Collection | n Date/Time: | 10/3 | 0/2023 | 13:52 | | |
| Sample Received: | 10/31/2023 | Samp | le Collector | : | RAN | MBOLL | | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | Result | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | <u>Method</u> | Date | <u>Analyst</u> |
| Field Water Level | 23.03 | 0.05 | feet | | 1 | | H2OD | 10/30/23 | RAMBOLI |
| Field Temperature | 10.7 | 0.1 | Degrees | (| 1 | | TEMP | 10/30/23 | RAMBOLI |
| Field Conductivity | 556 | 0 | umhos | | 1 | | FCOND25 | 10/30/23 | RAMBOLI |
| Field pH | 8.2 | 0.1 | Units | 0.1 | 1 | | FIELDPH | 10/30/23 | RAMBOLI |
| Total Dissolved Solids | 372 | 8.7 | mg/L | 20.0 | 1 | | Std Mtd 2540 C | 11/2/23 | 020 |
| Total Fluoride | 1.1 | 0.095 | mg/L | 0.32 | 1 | | EPA 300.0 | 11/1/23 | 020 |
| Total Chloride | 13.2 | 0.59 | mg/L | 2.0 | 1 | | EPA 300.0 | 11/1/23 | 020 |
| Total Sulfate | 162 | 4.4 | mg/L | 20.0 | 10 | | EPA 300.0 | 11/2/23 | 020 |
| Total Boron | 423 | 17.3 | ug/L | 40.0 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Total Calcium | 19400 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Calcium | 19700 | 114 | ug/L | 500 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Chloride | 14.5 | 0.59 | mg/L | 2.0 | 1 | | EPA 300.0 | 11/14/23 | 020 |
| Dissolved Magnesium | 15500 | 182 | ug/L | 1000 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Sodium | 85200 | 350 | ug/L | 500 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Sulfate | 158 | 4.4 | mg/L | 20.0 | 10 | | EPA 300.0 | 11/15/23 | 020 |
| Bicarbonate Ion | 113 | 5.0 | mg/L | 10.0 | 1 | | HCO3 | 11/13/23 | 020 |

| Sample Description: | W74 P4 Landfill CCR | Well Sample | | | | | | | |
|---------------------------|---------------------|-------------|---------------|--------------|------|-------------|----------------|----------|----------------|
| Sample ID: | AE69691 | Sampl | le Collection | n Date/Time: | 10/3 | 0/2023 | 13:52 | | |
| Sample Received: | 10/31/2023 | Sampl | le Collector: | | RAM | MBOLL | | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | Result | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analyst</u> |
| Carbonate Ion | Less Than | 5.0 | mg/L | 10.0 | 1 | | CO3 | 11/13/23 | 020 |
| Dissolved Potassium | 2180 | 325 | ug/L | 1000 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Nitrite | Less Than | 0.021 | mg/L | 0.10 | 1 | | EPA 300.0 | 11/1/23 | 020 |
| Nitrate | Less Than | 0.044 | mg/L | 0.15 | 1 | | EPA 300.0 | 11/1/23 | 020 |
| Total Copper | Less Than | 0.0034 | mg/L | 0.010 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Total Manganese | 0.0167 | 0.0015 | mg/L | 0.005 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Total Silver | Less Than | 0.0032 | mg/L | 0.010 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Total Zinc | Less Than | 0.0116 | mg/L | 0.040 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Total Alkalinity as CaCO3 | 112 | 5 | mg/L | 10 | 1 | | SM 2320 B-1997 | 11/9/23 | 020 |
| Total Hardness as CaCO3 | 111 | 1.0 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 11/3/23 | 020 |
| Dissolved Oxygen-Field | 0.2 | 0.1 | mg/l | | 1 | | FIELDDO | 10/30/23 | RAMBOLL |
| Turbidity | 0.0 | 0.1 | NTU'S | | 1 | | EPA 180.1 | 10/30/23 | RAMBOLL |
| Redox Potential | -183 | 1 | mV | | 1 | | ASTM D1498-93 | 10/30/23 | RAMBOLL |

| Sample Description: Sample ID: Sample Received: | EB-3 P4 Landfill CCR V AE69692 10/31/2023 | Sampl | e Collection e Collector | n Date/Time: : | | 0/2023 ИBOLL | 15:00 | | |
|---|--|--------|-----------------------------|-------------------|------------|-----------------------|---------------------------|-------------------------|----------------|
| <u>Parameter</u> | <u>Result</u> | LOD | <u>Units</u> | LOQ | <u>DIL</u> | Result <u>Flag</u> | Analysis <u>Method</u> | Analysis <u>Date</u> | <u>Analyst</u> |
| Total Dissolved Solids | 26 | 8.7 | mg/L | 20 | 1 | | Std Mtd 2540 C | 11/2/23 | 020 |
| Total Fluoride | Less Than | 0.095 | mg/L | 0.32 | 1 | | EPA 300.0 | 11/2/23 | 020 |
| Total Chloride | Less Than | 0.59 | mg/L | 2.0 | 1 | | EPA 300.0 | 11/2/23 | 020 |
| Total Sulfate | Less Than | 0.44 | mg/L | 2.0 | 1 | | EPA 300.0 | 11/2/23 | 020 |
| Total Boron | Less Than | 17.3 | ug/L | 40 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Total Calcium | Less Than | 114 | ug/L | 500 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Calcium | Less Than | 114 | ug/L | 500 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Chloride | Less Than | 0.59 | mg/L | 2.0 | 1 | | EPA 300.0 | 11/14/23 | 020 |
| Dissolved Magnesium | Less Than | 182 | ug/L | 1000 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Sodium | 383 | 350 | ug/L | 500 | 1 | J | EPA 200.7 | 11/2/23 | 020 |
| Dissolved Sulfate | Less Than | 0.44 | mg/L | 2.0 | 1 | | EPA 300.0 | 11/14/23 | 020 |
| Bicarbonate Ion | Less Than | 5.0 | mg/L | 10.0 | 1 | | HCO3 | 11/13/23 | 020 |
| Carbonate Ion | Less Than | 5.0 | mg/L | 10.0 | 1 | | CO3 | 11/13/23 | 020 |
| Dissolved Potassium | Less Than | 325 | ug/L | 1000 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Total Copper | Less Than | 0.0034 | mg/L | 0.010 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Total Manganese | Less Than | 0.0015 | mg/L | 0.005 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Total Silver | Less Than | 0.0032 | mg/L | 0.010 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Total Zinc | Less Than | 0.0116 | mg/L | 0.040 | 1 | | EPA 200.7 | 11/2/23 | 020 |
| Total Alkalinity as CaCO3 | Less Than | 5 | mg/L | 10 | 1 | | SM 2320 B-1997 | 11/9/23 | 020 |
| Total Hardness as CaCO3 | Less Than | 1.0 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 11/2/23 | 020 |
| Dissolved Organic Carbon | Less Than | 0.19 | ppm | 0.50 | 1 | | Std Mtd 5310C | 11/8/23 | 020 |
| Total Hardness as CaCO3 | Less Than | 1.0 | mg/L | 5.4 | 1 | | Std Mtd 2340B | 11/2/23 | 020 |
| Nitrite | Less Than | 0.021 | mg/L | 0.10 | 1 | H1 | EPA 300.0 | 11/2/23 | 020 |

Report Date: Friday, December 1, 2023

The following are the analytical results for samples received by Laboratory Services:

| Sample Description: | EB-3 P4 Landfill CCR | | | | | | | | |
|---------------------|----------------------|------------------------------|--------------|------|------|--------------|-----------|----------|---------------|
| Sample ID: | AE69692 | Sample Collection Date/Time: | | | 10/3 | 0/2023 | 15:00 | | |
| Sample Received: | 10/31/2023 | Sample Collector: | | | RAM | MBOLL | | | |
| | | | | | | Result | Analysis | Analysis | |
| <u>Parameter</u> | <u>Result</u> | LOD | <u>Units</u> | LOQ | DIL | <u>Flag</u> | Method | Date | <u>Analys</u> |
| Nitrate | Less Than | 0.044 | mg/L | 0.15 | 1 | H1 | EPA 300.0 | 11/2/23 | 020 |
| Sampla Commonta | | | | | | | | | |

Sample Comments:

LOD and LOQ are adjusted for dilution factor.

'J' Flag, if present indicates an estimated concentration at or above the LOD and below the LOQ.

If there are any questions concerning this report, please contact: Laboratory Services at (414) 221-4595.