

June 5, 2024

Mr. Michael Smith, P.E.  
Land Quality Bureau  
Iowa Department of Natural Resources  
502 East 9<sup>th</sup> Street  
Des Moines, Iowa 50319-0034



**RE: 2024 Semi-Annual Water Quality Notification  
North Central Iowa Regional Sanitary Landfill 94-SDP-01-75P**

Dear Mr. Smith:

### **Hydrologic Monitoring System Plan (HMSP)**

At the North Central Iowa Regional Solid Waste Agency (NCIRSWA) Landfill, the following monitoring wells are included in the HMSP; MW-10A, MW-10B, MW-18, MW-19, MW-20, MW-21R, MW-22, MW-25, MW-28, MW-30, GU-2, and GU-3. All monitoring points are in the detection monitoring system, except MW-21R which is in the assessment monitoring program.

The approved Statistical Evaluation Plan includes intrawell evaluation of water quality samples obtained from the HMSP wells. There are thirteen (13) independent measurements in background at MW-10A, MW-10B, MW-18, MW-19, MW-20, and MW-22. There are eight (8) independent measurements in background at MW-21R and MW-30 which is the minimal number needed to complete the intrawell statistical evaluations herein. Currently less than the minimum eight (8) independent measurements for the comprehensive statistics are available in the background data at GU-2 (4 episodes completed), GU-3 (7 episodes completed), MW-25 (5 episodes included), and MW-28 (4 episodes included).

The results presented for those inorganic compounds with fewer than thirteen (13) measurements in the background are considered preliminary until the background is completed. Time series graphs are attached for GU-2, GU-3, MW-25, and MW-28 until the minimum eight (8) rounds of data are available for background at each of the four (4) referenced monitoring points.

### **Notification of Results of the Spring Sampling, Analysis, and Statistical Evaluation**

#### **Wells in the Detection Monitoring System**

Verified inorganic compound concentrations that exceed the Limits:

None.

Verified VOC concentrations that exceed the Limits:

None.

**Wells in the Assessment Monitoring System**

Verified inorganic compound concentrations that exceed the Limits:

None.

Verified VOC concentrations that exceed the Limits:

None.

**Historic Appendix II Compound Detections (None to date)**

*Bis (2-ethylhexyl)phthalate\* (ug/L)*

Date	MW-21R
4/11/14	NT
10/28/14	NT
3/31/15	NT
9/25/15	NT
4/13/16	NT
9/30/16	NT
4/20/17	NT
10/19/2017	NT
10/15/2018	NT
4/9/2019	NT
10/9/2019	NT
4/1/2020	NT
10/5/2020	NT
4/13/2021	NT
10/21/2021	NT
4/19/2022	<6
10/18/2022	NT
4/11/2023	<6
10/5/2023	NT
4/23/2024	NT

ND = Non-detected      NT = Not Tested

\* Even though there have been no Appendix II detections, bis (2-ethylhexyl)phthalate is reported (non-detected) since it is the most commonly detected compound in the Appendix II list.

**Current Appendix II Compound Detections**

None

**Wells in the Corrective Action Monitoring System**

Not Applicable.

**Wells returning to the Detection Monitoring System**

None.

This notification is intended to satisfy requirements of Iowa Administrative Code (IAC) 567-113.10(5)"c"(1); 113.10(6)"d"(1); and 113.10(6)"g".

The water quality results for the Spring of 2024 will be fully evaluated in the Annual Water Quality Report in accordance with the unnumbered permit amendments dated May 22, 2013, July 10, 2014, and IAC 567-113.10(10).

Please feel free to contact our office at (515) 733-4144 with any questions you may have.

Sincerely,  
**HLW Engineering Group**



Todd Whipple, CPG  
Project Manager

cc: *Lori Lindstrom, CFO*  
*Nik Myers, Landfill Operations Manager*

---

**Results of the Ground Water Statistics  
for North Central Iowa Regional Landfill**

**First Semi-Annual Monitoring Event in 2024**

*Prepared for:*  
North Central Iowa Regional Solid Waste Agency (NCIRSWA)  
Fort Dodge, Iowa

*Prepared by:*  
Jeffrey A. Holmgren  
**Otter Creek Environmental Services, L.L.C.**  
40W565 Foxwick Court  
Elgin, IL 60124  
(847) 464-1355

**May 2024**

---