

January 9, 2025

LAUREN O'NEIL
CEDAR RAPIDS WATER POLLUTION CONTROL FACILITIES
7525 BERTRAM ROAD SE
CEDAR RAPIDS IA 52403

**RE: Cedar Rapids Water Pollution Control Facilities Ash Monofill
Permit No. 57-SDP-07-85P
Permit Renewal**

Dear Mr. O'Neil:

Enclosed is the renewed permit for the Cedar Rapids Water Pollution Control Facilities Ash Monofill. The permit and the approved plans must be kept at the sanitary disposal project in accordance with Iowa Administrative Code 567 Paragraph 115.26(2)"c" ([567 IAC 115.26\(2\)"c"](#)). Please review the permit in its entirety with your operators, as they must become familiar with it.

Note that the permit may contain conditions that require a response or action by you, which if not properly complied with, may prompt enforcement action by the IDNR.

If you have any questions, you may contact me at [\(515\) 537-4051](tel:515-537-4051) or brian.rath@dnr.iowa.gov.

Sincerely,

Brian L. Rath, P.E.
Environmental Engineer Senior
Land Quality Bureau

copy: DNR Field Office #1 – Manchester
Doug Luzbetak, P.E., HLW Engineering Group
Jason Decker, City of Cedar Rapids

**IOWA DEPARTMENT OF NATURAL RESOURCES
SANITARY DISPOSAL PROJECT PERMIT
FOR INDUSTRIAL MONOFILLS**

- I. Permit Number:** 57-SDP-07-85P
- II. Permitted Agency:** City of Cedar Rapids
Cedar Rapids Water Pollution Control Facilities Ash Monofill
- III. Project Location:** NE ¼, NE ¼, Sec.32, T83N, R6W
Linn County, Iowa

IV. Responsible Official

Name: Lauren O'Neil
Address: Cedar Rapids Water Pollution Control Facilities
7525 Bertram Road SE
Cedar Rapids, IA 52403-7111
Phone: 319-286-5033
Email: l.oneil@cedar-rapids.org

V. Licensed Design Engineer

Name: Douglas J. Luzbetak, P.E.
Address: HLW Engineering Group
204 West Broad Street
P.O. Box 314
Story City, Iowa 50248
Phone: 515-733-4144
Email: dluzbetak@hlwengineering.com

Iowa License Number: 12654

VI. Date Permit Issued: January 9, 2025

VII. Permit Expiration Date: January 9, 2028

VIII. Issued by: _____
Environmental Services Division
for the Director

IX. General Provisions

The above named permitted agency is hereby authorized to operate a sanitary disposal project at the described location in conformance with Iowa Code section 455B, the rules pursuant thereto existing at the time of issuance, and any subsequent new rules which may be duly adopted, and any provisions contained in Section X of this permit.

The issuance of this permit in no way relieves the applicant of the responsibility for complying with all other local, state, and federal statutes, ordinances, and rules or other requirements applicable to the establishment and operation of this sanitary disposal project.

No legal or financial responsibility arising from the construction or operation of the approved project shall attach to the State of Iowa or the Department of Natural Resources (DNR) due to the issuance of this permit.

If title to this project is transferred, the new owner must apply to the DNR for a transfer of this permit within thirty days of the date of title transfer pursuant to rule 115.9(455B). This permit is void sixty days after the date of title transfer unless the DNR has transferred the permit.

The permit holder shall file a Quarterly Solid Waste Fee Schedule and Retained Fee Report utilizing the DNR's Form 542-3276 and remit tonnage fee payment, as applicable, for all wastes disposed at the sanitary disposal project in accordance with Iowa Code section 455B.310. The Reports will be due January 1, April 1, July 1 and October 1 for the quarters ending September 30, December 31, March 31 and June 30, respectively. The permit holder shall mail the completed report to the Solid Waste Section, Wallace State Office Building, 502 East Ninth Street, Des Moines, Iowa 50319. This reporting procedure supersedes any previous conflicting permit provisions.

The permit holder shall weigh all solid waste collection vehicles and solid waste transport vehicles on a scale certified by the Iowa Department of Agriculture and Land Stewardship. If conditions are such that make it impractical to provide an on-site scale, then off-site scale facilities or an alternative method of calculating the tonnage disposed, may be used if justified and approved by the DNR. The permit holder shall comply with the waste weighing, record keeping and tonnage fee reporting requirements defined in rule 101.14(455B,455D). The scale weighing facilities shall comply with the certification and licensing requirements of the Iowa Department of Agriculture and Land Stewardship at all times. The permit holder shall maintain a current copy of the weighing scale facility licensing certificate issued by the Iowa Department of Agriculture and Land Stewardship at all times.

The permit holder shall ensure that the sanitary disposal project does not (1) cause a discharge of pollutants into waters of the United States, including wetlands, that violates any requirements of the Clean Water Act, including, but not limited to, the National Pollutant Discharge Elimination System (NPDES) requirements, pursuant to Section 402 of the Clean Water Act, and (2) cause the discharge of a nonpoint source of pollution into waters of the United States, including wetlands, that violates any requirement of an areawide or statewide

water quality management plan that has been approved under Section 208 or 319 of the Clean Water Act.

The permit holder shall submit an updated Sanitary Landfill Financial Assurance Report Form no later than April 1st, annually, pursuant to rule 115.31(455B). Use of this form provides permit holders a uniform means of submitting all required documentation to ensure that closure and postclosure cost estimates and applicable financial assurance instruments are updated as required.

This facility shall be staked as necessary and inspected on a semiannual basis by a professional engineer licensed in the State of Iowa. The engineer shall prepare a brief report describing the site's conformance and nonconformance with the permit and the approved plans and specifications during the inspections. These reports shall be submitted by April 30 and October 31 each year to the Department's Main and local Field offices. The Department shall be notified if any inspection reveals any nonconformance with the permit and approved plans and specifications.

Failure to comply with Iowa Code Chapter 455B, or any rule of order promulgated pursuant thereto, or any or all provisions of this permit may result in 1) a civil penalty of up to \$5000 for each day of violation, pursuant to Iowa Code section 455B.307, or 2) the suspension or revocation of this permit, pursuant to Iowa Code section 455B.305.

X. Special Provisions

1. The permit holder is authorized to accept sewage sludge incinerator ash from the Cedar Rapids Water Pollution Control Facilities for disposal. Wastes disposed at this site shall not exhibit toxic or hazardous properties. No hazardous wastes as defined by Iowa Code section 455B.411 may be disposed at this landfill.
2. The permit holder shall develop and operate the site in accordance with the 2024 Industrial Monofill Permit Renewal, dated June 14, 2024, and the revised Executive Summary, dated January 3, 2025, all as submitted by HLW Engineering Group, and the following:
 - a. Waste disposal is limited to the North Cell and South Cell ash monofill disposal units. Any further expansion beyond these cells shall require prior Department approval.

The permit holder shall continually review the design of the cell with all staff on-site for excavation of the lagoons. The permit holder shall limit the use of the excavators to a few well-trained operators.
 - b. The Response to SDP Permit Amendment #1 (5/12/11) regarding operational procedures, dated May 26, 2011, as submitted by HLW Engineering Group, and approved on February 9, 2012, is incorporated as part of the permit documents.
 - c. The permit holder shall collect a representative sample and submit TCLP metals analytical results for the waste at the time of each permit renewal, or following any process modifications that may result in changes of waste characteristics. No waste ash that exhibits hazardous characteristics shall be disposed of at this site.

- d. Surface water shall be diverted around the fill area and proper surface drainage shall be provided at all times.
 - e. The Emergency Response and Remedial Action Plan (ERRAP), included in Appendix F of the 2024 Industrial Monofill Permit Renewal, dated June 14, 2024, and the revisions, dated January 3, 2025, all as submitted by HLW Engineering Group, in compliance with rule 115.30(455B) is incorporated as part of the permit documents. An updated ERRAP shall be submitted at the time of each permit renewal application. An updated ERRAP shall be included with any request for permit modification to incorporate a facility expansion or significant changes in facility operation that require modification of the currently approved ERRAP.
 - f. In accordance with the variance approval of May 12, 2011, the permit holder is authorized to accept liquids associated with ash slurry disposal at the referenced site. No other liquids are authorized for disposal without prior Department approval.
 - g. The Quality Control and Assurance Report for the Ash Lagoon Liner (South Lagoon), dated December 16, 2011 as submitted by HLW Engineering Group; and approved on February 9, 2012, is incorporated as part of the permit documents.
 - h. The Quality Control and Assurance Report for the North Ash Lagoon Liner, dated October 13, 2016, as prepared and submitted by HLW Engineering Group and approved on November 15, 2016, is incorporated as part of the permit documents.
 - i. The Quality Control and Assurance Report for the FML Repair-South Cell, dated August 15, 2017, as submitted by HLW Engineering Group, and approved on September 6, 2017, is incorporated as part of the permit documents.
 - j. The Permit Modification request, dated April 18, 2024, as submitted by HDR, and approved on April 29, 2024, is incorporated into the permit documents; and the Request for Authorization for Construction of North 2 Lagoon and Closure of South Disposal Area, as submitted by HDR on May 7, 2024, is approved and incorporated into the permit documents.
3. The Department authorizes the following alternative arrangement for reduction in fees owed for sewage sludge incinerator ash that is reclaimed from the landfill for beneficial use purposes.
- a. The difference between the amount (in tons) of sewage sludge incinerator ash reclaimed for beneficial use(s) from the landfill and the amount of new waste disposed of during a quarter shall be used to calculate what/if any fees are owed at the end of each quarter. If the amount reclaimed is equal to or greater than the amount disposed, no fees are owed for that quarter.
 - b. Beneficial use projects shall comply with the state's solid waste by-product beneficial use determination rules (Iowa Administrative Code 567 Chapter 108) and be tracked and reported with each Quarterly Solid Waste Fee Schedule and Retained Fees Report including:
 - 1. Location of beneficial use(s)
 - 2. Description of beneficial use(s)

3. Quantities used for each beneficial use project

The Department shall have the sole authority to deny approval of a reported beneficial use if the proposed use is determined to have the primary purpose as a means of disposal, and any beneficial use would be incidental in nature.

4. Hydrologic monitoring at the site shall be conducted in accordance with the Hydrologic Monitoring System Plan (HMSP) contained in the Permit Modification Request, dated April 18, 2024, as submitted by HDR, and approved on April 29, 2024, and the following:

- a. The HMSP shall include upgradient groundwater monitoring points MW-1 and MW-21; crossgradient monitoring point MW-26, and downgradient groundwater monitoring points MW-2, MW-3RI, MW-4, , MW-22, MW-23, and MW-24. As construction commences (removal of the South Disposal Area and construction of the new North 2 Lagoon along with Water Pollution Control Facility Improvements in the vicinity), the following HMSP changes will occur.
 - MW-1 and MW-26 will be abandoned.
 - MW-21 will be retained as an upgradient/background well.
 - MW-4 and MW-23 will be abandoned and replaced.
 - MW-30, MW-31, and MW-32 will be installed as downgradient wells of the North Disposal Area Lagoons.
 - MW-2, MW-3R1, MW-22, and MW-24 may be abandoned after removal of the South Disposal Area and if constituents are below the groundwater protection standard as outlined in the Permit Modification Request.
- b. Monitoring points not used for water quality analysis may be retained as water level measuring points.
- c. Department construction documentation form 542-1277 and boring logs for all monitoring wells and piezometers shall be submitted within 30 days of installation. Department construction documentation form 542-1323 shall be submitted within 30 days of establishing surface water monitoring points.

Monitoring points MW-20 and MW-25 have been plugged and abandoned or removed.

The Abandoned Water Well Plugging Record for MW-3, dated July 28, 2011 and attached to the August 25, 2011 transmittal submitted by HLW Engineering Group, and approved on February 9, 2012, is incorporated as part of the permit documents.

The Construction Documentation form for replacement well MW-3R, dated December 19, 2011 and attached to the January 9, 2012 transmittal submitted by HLW Engineering Group, and approved on February 9, 2012, is incorporated as part of the permit document.

The Construction Documentation Form and Boring Log for replacement well MW-3RI, dated March 29, 2018 (Doc 92858), and approved on September 13, 2018, is incorporated as part of the permit documents.

The Abandoned Water Well Plugging Record for monitoring well MW-3R, as attached to the September 4, 2018 electronic mail submitted by HLW Engineering Group and approved on September 13, 2018, is incorporated as part of the permit documents.

- d. Quarterly sampling shall be conducted in the first year for any newly installed monitoring points. Existing monitoring points had the quarterly sampling completed in October of 1996.

Continued semiannual sampling shall take place in April and October of each year and be analyzed for the parameters listed in paragraph 115.26(4)“e”. Routine annual testing for any additional necessary parameters listed in paragraph 115.26(4)“f” shall be conducted during October of each year.

Supplemental semiannual sampling and analysis of all monitoring points for arsenic, barium, and magnesium shall be conducted in addition to the routine test parameters. The additional testing may be discontinued upon all of the following: 1) The test results and a request for elimination of the additional sampling are submitted to the Department; and 2) The Department approves discontinuation of the additional sampling.

- e. The Method Detection Limit (MDL) for the test parameters shall not exceed action levels as defined in 567 IAC Chapter 133. If the action levels cannot be feasibly achieved using procedures described in subrule 115.26(5), then the MDL shall not exceed the lowest feasible level.
 - f. In accordance with the variance, dated September 12, 2018, the permit holder is authorized to conduct sampling and analysis of total recoverable metals in lieu of sampling for dissolved metals as required by 567 IAC 115.26(4)“d”, and phenols and TOX, as required by 567 IAC 115.26(4)“f”.
 - g. Surface monitoring points must be clearly marked in the field and a method for measuring the flow rate at each sampling point shall be devised.
 - h. In accordance with the request contained in the 2020 AWQR, dated December 7, 2020, the permit holder is authorized to reduce the frequency of groundwater level measurements from quarterly to semiannually. The measurements shall be taken in, April and October of each year, with the results submitted in the corresponding semiannual monitoring reports. (Amendment #1)
 - i. An Annual Water Quality Report (AWQR) summarizing the effects the facility is having on groundwater and surface water quality shall be submitted to the Department by November 30 of each year. The AWQR report shall include the results of the routine groundwater measurements conducted at the monitoring points and by using the DNR AWQR Format.
5. The permit holder is exempt from monitoring and reporting methane gas levels in site structures and at the property boundary, as required by subrule 115.26(15). This exemption is in accordance with the variance approval letter of May 5, 1995. Variance approval was based on the inert nature of the incinerator ash waste deposited at this site.

However, in the event that methane gas is found to be present at the site, the Department's Main and Field Offices shall be notified, and gas monitoring shall be immediately implemented in accordance with subrule 115.26(15).

6. In accordance with the variance approval of April 27, 2005, the permit holder is not required to have a certified solid waste operator on duty during waste unloading, as required by rule 115.29(455B), since this site is required to have certified wastewater operators on staff. The variance approval shall hold until such time that the Department develops a certification program that relates more directly to this operation; and as long as certified wastewater operators are retained on site.
7. The permit holder shall close the landfill site in accordance with the Closure/Postclosure Plan (CPCP) as contained in Appendix H of the 2021 Industrial Monofill Permit Renewal, dated June 7, 2021, and the modifications in Appendix E of the 2024 Industrial Monofill Permit Renewal, dated June 14, 2024, all as submitted by HLW Engineering Group, and the following:
 - a. The review comments, dated May 15, 1985 from the County Soil & Water Conservation District relative to compliance with wind and soil loss limit regulations, in accordance with paragraph 115.26(1)"j" for all development areas, are incorporated as part of the permit documents.
 - b. Upon closure of both the North and South Lagoons, all ash material will be removed and disposed of in accordance with regulations at the time of closure, dikes and all infrastructure will be removed and the site(s) regraded, seeded, and repurposed for other uses by CRWPCF.

XI. Revision History

Date	Comment
1/9/2025	Permit Renewed.