

December 7, 2023

Mr. Brian L. Rath, P.E.
Environmental Engineer Senior
Land Quality Bureau
Iowa Department of Natural Resources
502 East 9th Street
Des Moines, Iowa 50319-0034



**RE: RESPONSE TO IDNR LETTER DATED NOVEMBER 2, 2023
REVIEW OF SEMI-ANNUAL INSEPCION – FALL 2023
POWESHIEK COUNTY SANITARY LANDFILL
IDNR PERMIT #79-SDP-01-73P**

Dear Mr. Rath:

This letter is being provided as a response to the IDNR letter dated November 2, 2023 regarding the IDNR review of the Semi-Annual Inspection, Fall 2023 for the Poweshiek County Sanitary Landfill (SLF). Our responses are formatted according to the headings in the letter.

Soil Stockpile

As requested status reports regarding removal of the soil stockpile will be included in each Semi-Annual Engineering Inspection report, starting with the Spring, 2024 report.

Repairs

The two potential seep areas noted in the Fall 2023 inspection report have been repaired by the following:

- Approximately 2' of soil was removed from each area. No waste was encountered during the excavation.
- A geotextile filter fabric was placed on the base of the excavation.
- Clean erosion stone was placed on the geotextile filter fabric.
- Excess soil was either spread adjacent to the repair areas to promote vegetative growth or hauled to the soil stockpile at the end of the access road.
- The areas were repaired during November, 2023. Due to the late date of the work, areas disturbed during the repairs will be seeded next Spring during the IDOT recommended Spring seeding period (March 1 – May 31).

The north repair area was approximately 12' by 12'. The south repair area was approximately 15' by 15'. Photos of the repair areas are included in Attachment A. The repair areas will be reviewed during future semi-annual inspections with observations included in each report.

The cap is inspected semi-annually as required by the Closure Permit. Areas of "seeps, wet areas, or areas disturbed by wildlife that were previously noted" are reviewed during each inspection. If

issues are noted during the inspection, documentation will be provided in the semi-annual inspection report with recommended repairs if warranted.

As required by Special Provision X.8 of the Closure Permit, the landfill has been inspected semi-annually by a licensed Engineer with a follow up inspection report submitted to IDNR since 1995. The terrace channels and let down ditch have been reviewed during the semi-annual inspections with issues noted in the inspection report if present. The inspections have not noted any significant inadequacies in the terrace channels and let down ditch related to variances in precipitation amounts. The condition of terrace channels and the rock lined let down will continue to be reviewed during each inspection. If issues are noted during the inspection, documentation will be provided in the semi-annual inspection report with recommended repairs if warranted.

As required by Special Provision X.8 of the Closure Permit, the landfill has been inspected semi-annually by a licensed Engineer with a follow up inspection report submitted to IDNR since 1995. Settlement and/or bare areas on the cap have been noted in the inspection report if present. The inspections have not noted any significant changes in cap conditions related to variances in precipitation amounts. The condition of the settled areas and bare areas will continue to be reviewed during each inspection. If issues are noted during the inspection, documentation will be provided in the semi-annual inspection report with recommended repairs if warranted.

Action Plan

Please consider this letter to be the requested action plan.

Please let me know if you have any questions or would like additional information on any of the points discussed above.

Respectfully,

HLW Engineering Group



Douglas J. Luzbetak, P.E.
Project Manager

cc: Lyle Brehm, Poweshiek County Engineer (electronic copy)

ATTACHMENT A



Photo 1: North seep repair area, looking east



Photo 2: South seep repair area, looking west