

March 6, 2026

Mr. Brad Davison
Environmental Specialist
IDNR – Land Quality Bureau
6200 Park Avenue, Suite 200
Des Moines, Iowa 50321



**RE: SEMI-ANNUAL INSPECTION – SPRING 2026
POWESHIEK COUNTY SLF
CLOSURE PERMIT NO. 79-SDP-1-73C
HLW P.N. 6011-25A.750**

Dear Mr. Davison:

In accordance with the Special Provisions of the Closure Permit, a semi-annual inspection was conducted the morning of March 3, 2026. Weather conditions at the time of the inspection were overcast with a mild breeze and temperatures in the low 40's.

HLW Engineering takes semi-annual water level measurements in Monitoring Wells during the annual sampling episodes and during the semi-annual gas monitoring episodes (as per Permit Amendment #14, dated January 3, 2019). Water levels, monitoring well testing results, and explosive gas monitoring results for 2026 will be included in the Annual Water Quality Report (AWQR), which will be submitted to IDNR by November 30, 2026. The 2026 sampling events will be conducted in accordance with the IDNR letter dated January 13, 2025 (should be 2026) in response to the AWQR entitled "Required Groundwater and Gas Monitoring – 2025" dated November 14, 2025 (Doc #114375).

STATUS OF THE PERMIT

The Closure Permit for the Poweshiek County SLF expires on March 2, 2030. Permit Amendments received since 2015 are as follows:

Permit Amendment #10, January 20, 2016. This permit amendment included the following:

- Approved and incorporated into the permit the well plugging record (dated November 16, 2015) for MW-11.
- Approved and incorporated into the permit the well construction records (dated November 16, 2015) for MW-11R.
- Approved and incorporated into the permit the management of the soil stockpile located on the landfill cap detailed in the "Response Letter to IDNR Letter Dated July 20, 2015" (Doc #84777).
- Detailed the temporary changes to the HMSP required in calendar year 2016. Future sampling requirements will be determined based on the results of the sampling in 2016.

Permit Amendment #11, December 21, 2016. This permit amendment included the following:

- Approved the correlation between total suspended solids and turbidity detailed in the HLW letter dated November 18, 2016 (Doc #87797).
- Detailed the temporary changes to the HMSP required in calendar year 2017. Future sampling requirements will be determined based on the results of the sampling in 2017.

Permit Amendment #12, December 26, 2017. This permit amendment included the following:

- Detailed the temporary changes to the HMSP required in calendar year 2018. Future sampling requirements will be determined based on the results of the sampling in 2018.

Permit Amendment #13, October 9, 2018. This permit amendment included the following:

- Reduced the frequency of gas monitoring in site structures from quarterly to semi-annually.

Permit Amendment #14, January 3, 2019. This permit amendment included the following:

- Detailed the permanent changes to the HMSP and GMSP. Subsurface gas monitoring from the vadose zone is required semi-annually moving forward.

Permit Amendment #15, May 24, 2019. This permit amendment included the following:

- Approved the construction documentation forms for subsurface gas probes GP-1 and GP-2 and amended the semi-annual gas monitoring requirements to include monitoring at GP-1 and GP-2.

Permit Amendment #16, February 13, 2025. This permit amendment included the following:

- Extended the closure permit expiration date to March 2, 2030.

ANNUAL WATER QUALITY REPORT

The 2025 AWQR entitled “Required Groundwater and Gas Monitoring – 2025” was received by IDNR on November 14, 2025 (Doc #114735). IDNR comments on the 2025 AWQR were received on January 13, 2026 (Doc #115678). The IDNR letter concurred with the AWQR as presented but required an additional year of semi-annual sampling at MW-4 and MW-16 in 2026.

All monitoring wells observed during the inspection were locked.

HLW Engineering Group, 204 West Broad Street, P.O. Box 314, Story City, Iowa 50248
(515) 733-4144  **(515) 733-4146 Fax**

GENERAL CONDITIONS

The entrance to the closed SLF is separated from the Poweshiek County Transfer Station entrance. The east gate was locked, the south gate (main gate) was also locked.

Former landfill maintenance buildings remain on the site. The buildings are used by Poweshiek County for equipment and material storage. This area is also sometimes used for County staff training activities or Contractor staging.

The wetlands mitigation project completed in the eastern portion of the site was viewed. Over 1,000 trees were planted in association with this project. Vegetation is well established around the wetlands limiting sediment migration to the wetland areas. This work is located outside the waste boundary and does not impact the landfill cap. The wetland areas provide wildlife habitat and an excellent visual barrier along the east side of the site.

AREAS CLOSED WITH A 2' CAP

Those portions of the SLF closed with a 2' soil cap were closed in accordance with the rules in effect at the time of the closure. The vegetative cover is well established with no significant rill erosion.

The surface runoff diversion terrace and ditch along the north perimeter are in fairly good condition. Ponding was not observed during the inspection at the east end of this terrace where previous inspections have noted ponded water. The terrace has a good stand of vegetation present.

A small bare area was noted near the approximate waste boundary in the east portion of the site near MW-7 and MW-8. The area is located approximately 100 feet west-southwest of MW-7. The surface of this area was wet but no flow was observed.

AREAS CLOSED WITH A 4' CAP

The portion of the SLF closed in 1994 was capped with 2' of compacted clay soil and a 2' vegetative layer. The vegetative cover is well established with no significant rill erosion.

The terraces on the south half of the site are located on areas closed with a 2' cap as well as areas closed with a 4' cap. The terrace channels are in fairly good condition with no ponding noted in the terrace channels.

The flowline of the terrace letdown ditch on the south slope was stabilized with rock several years ago. The rock has limited further erosion in this area. Saplings are routinely removed from the letdown.

There were several linear areas on the crest of the landfill where sparse vegetation growth and minor settlement has been noted starting with the Fall, 2021 inspection. These areas were also noted during this inspection. The majority of the facility was

operated using the trench fill landfilling method. It appears that the areas may be associated with the historic trench fills. Note that the settlement has not led to ponding or drainage issues on the cap to date.

The two small areas of ponded water noted during the Spring, 2025 inspection northwest of MW-3 were not noted during this inspection.

STATUS OF THE SOIL STOCKPILE

County staff previously stockpiled soil at the end of the access road at the approximate location shown on Figure 1. The soil is available for use in future repairs at the landfill if necessary. As noted during past correspondence, a portion of the original stockpile was located on the landfill cap. Details on the management of the portion of the stockpile located over the landfill cap were included in the “Response Letter to IDNR Letter Dated July 20, 2015” (Doc #84777). This document was approved by IDNR in Permit Amendment #10 (January 20, 2016). The steps outlined in the work plan in Doc #84777 will be followed and the required documentation submitted to IDNR when the entire stockpile has been removed from the landfill cap area. Based on observations during this inspection, no material has been removed from the stockpile since the Fall 2025 inspection.

A temporary stockpile of recycled asphalt has been placed along the access road to the west of the soil stockpile. This stockpile appears to be outside of the waste boundary to the east but may infringe on the south side of Trenches 9-11. The majority of the stockpile has been removed, the approximate location of the remaining stockpile is shown on Figure 1.

2023 SEEP REPAIR AREAS

As documented in the December 7, 2023 letter (Doc #108401), two (2) potential seep areas were repaired by County staff in November, 2023. Figure 1 is attached illustrating the referenced repair areas.

The areas of repair were observed during this inspection. Vegetation is established on the disturbed soil areas adjacent to the rock and geotextile repair areas.

Review of the north repair area indicated that the perimeter of the repair was dry and no moisture was observed.

Review of the south repair area indicated that the south side (downslope side) of the repair was wet with wildlife activity noted. No leachate was observed flowing in this area.

MONITORING WELL MAINTENANCE PERFORMANCE REEVALUATION

The Monitoring Well Maintenance Performance Reevaluation was submitted to IDNR for review and approval on September 30, 2021 (Doc #101329). The report recommended no significant modifications to the Hydrologic Monitoring System Plan or monitoring wells. IDNR approved the report on November 4, 2024 (Doc #111245).

The next evaluation is due in the fall of 2026, however, monitoring well sampling has been reduced to MW-4 and MW-16 in 2026.

ADDITIONAL COMMENTS

The majority of the cap was mowed in 2025. The majority of vegetation on the cap is in excellent condition.

The overall appearance of the closed landfill is excellent.

RECOMMENDATIONS

1. Monitor bare area southwest of MW-7.
2. Continue to monitor the repaired seep areas.
3. Continue to monitor the soil and asphalt stockpiles.
4. Continue to remove trees from the cap and terrace letdown ditch.
5. Continue to monitor settled areas for signs of ponding or drainage issues.
6. Continue to monitor the terrace channels for evidence of ponding or overtopping. Regrade terrace channels to eliminate ponding as necessary.
7. Continue to monitor vegetation and erosion and repair as necessary.
8. Continue to monitor diversion and drainage systems and repair as necessary.



cc: Lyle Brehm, P.E., Director, Poweshiek County Sanitary Landfill Commission (electronic copy)

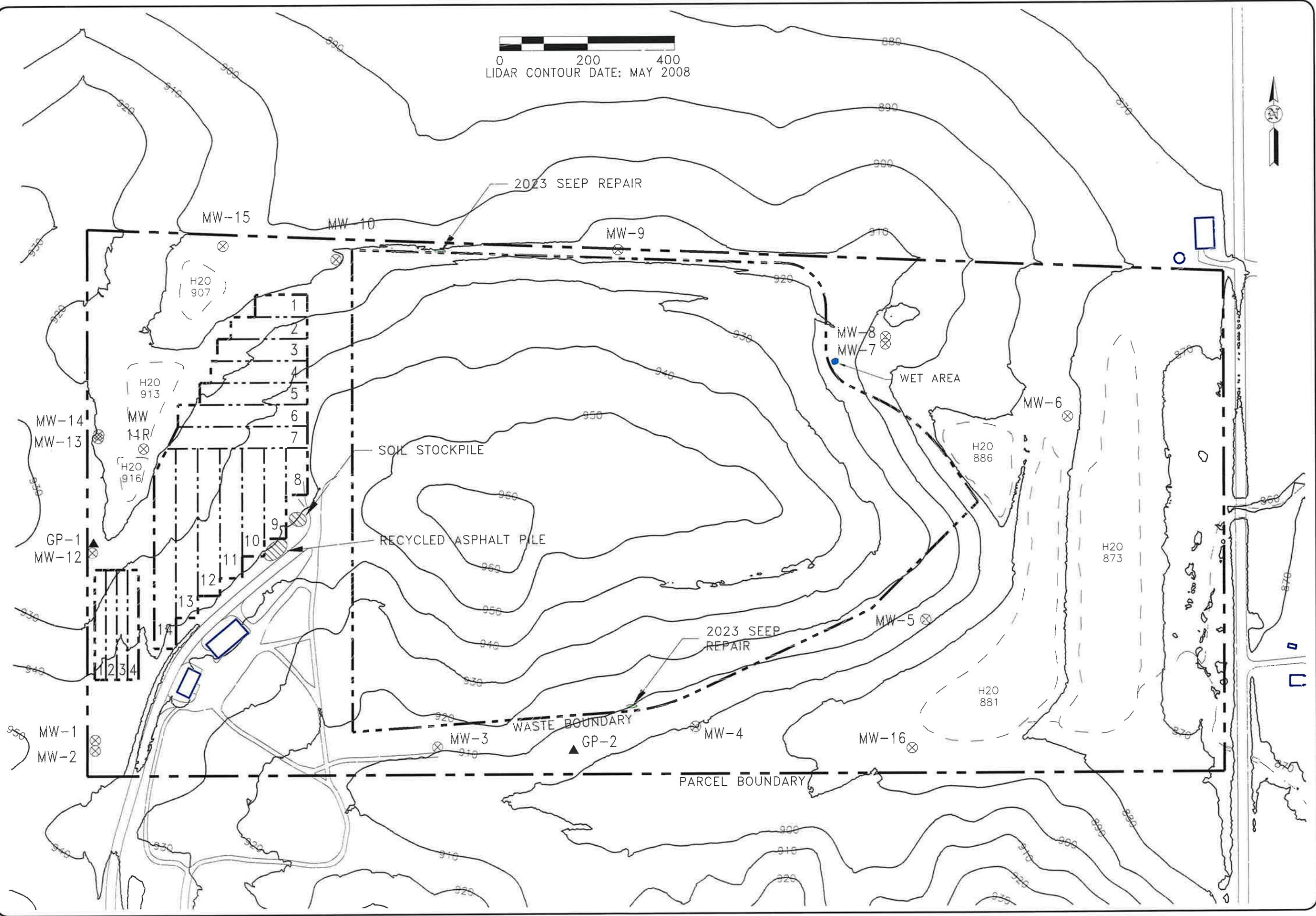


FIGURE: 1

REVISION	NO.	DATE
DRAWN	JGH	PROJECT NO. 6011-25A
		DATE 3/06/26

SPRING 2026 INSPECTION

POWESHIEK COUNTY SANITARY LANDFILL
POWESHIEK COUNTY, IOWA

HLW Engineering Group
204 West Broad Street, P.O. Box 314
Story City, Iowa 50248
Phone: (515) 733-4144
FAX: (515) 733-4146



