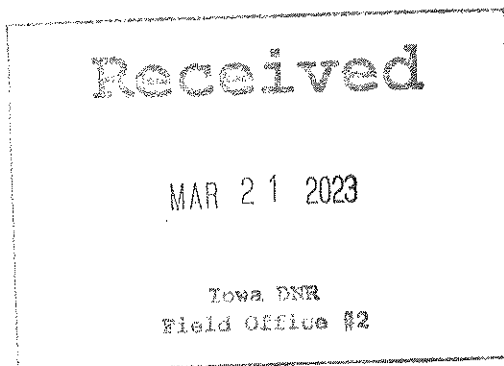




March 21, 2023

Jeremy Klatt
Environmental Specialist
IDNR Field Office #2
2300 15th St SW
Mason City, Iowa 50401

**RE: Leachate Discharge - Follow up to Conference Call March 17, 2023
North Central Iowa Regional Sanitary Landfill 94-SDP-01-75P**

Dear Mr. Klatt:

This letter is being provided to outline the steps discussed during the conference call with representatives of IDNR, the North Central Iowa Regional Solid Waste Agency (NCIRSWA), and HLW Engineering on March 17, 2023 regarding the leachate discharge from Manhole (MH) #4 that NCIRSWA reported to IDNR Field Office (FO) #2 on March 15, 2023 as well as the leachate seepage noted from the east slope of the landfill during the IDNR FO #2 site visit on March 10, 2023. The steps are broken into "immediate" (work completed or underway), "short term" (to be completed by 6/30/23), and "long term" (to be completed by 12/31/23). Note that some of the work items may be delayed due to material/supply chain issues outside of NCIRSWA control.

Immediate

- A perforated tile has been installed in the most severe seep areas to collect leachate. Solid piping has been extended to the east pump station to allow the seeps to drain directly into the pump station to limit leachate movement outside of the waste boundary.
- Accumulated sediment basin has been removed from the east sediment basins.
- Install the new pumps in the west pump station. Note that these pumps were scheduled for delivery in late February/early March. On March 20, 2023, the pump vendor reported that the parts are in. Installation has been scheduled for Thursday March 23.

Short Term

- Install an additional casting on MH#4 to raise the top of the manhole above the top of the east pump station.
- Repair the seeps on the east slope by either coring the areas out and sealing or installing permanent tiling when weather conditions allow. Note that airspace is

available at some of the seep locations and additional waste will be placed in these areas later this year.

- Improve the road to the east pump station to allow all weather access to the east pump station. The improvements will include the installation of a geogrid on the road subbase, installation of 3" base stone, installation of granular surfacing, and adding fill to the lower end of the road where possible to reduce the overall road slope.
- Remove soils impacted by the leachate discharge from MH #4 and dispose of the soil at the landfill working face.

Long Term

- Seed east slope. The NCIRSWA has compost available on site to utilize as a soil amendment where needed. The ConCover machine can be utilized as a hydro seeder.
- Improve the alarm system(s) at each pump station to allow notification to staff of high leachate levels, loss of power, or pump operational issues.

The steps outlined above should reduce the chances of having leachate discharges from the facility in the future.

Please let Nik Myers, Doug Luzbetak, or me know if you have any questions.

Sincerely,



Donna Bice, COO
NCIRSWA

cc: *Mike Smith, P.E., Environmental Engineer Senior, IDNR (electronic copy)*
Doug Luzbetak, P.E., HLW Engineering (electronic copy)