

June 13, 2023

Ms. Gwen Saliaries
Wisconsin Department of Natural Resources
625 E County Road Y Ste 700
Oshkosh, WI 54901-9731

**RE: Barrett Landfill, City of New Berlin, Waukesha County, Wisconsin, License No. 1940
BRRTS No. 02-68-534609**

Dear Ms. Saliaries:

This letter summarizes the repairs made and activities conducted at the Barrett Landfill (License No. 1940) located at 21001 W Coffee Road, New Berlin, Wisconsin (Site).

Cedar Corporation (Cedar) commissioned the leachate system on May 2, 2023. At this time, when the lift station pump was turned on, a break in a connection was observed. The pump was turned off. An unknown volume of leachate was released on the cap of the landfill (likely approximately 10-15 gallons). At that time, Cedar, with the help of MJM Pumping, got the piping reconnected and was able to fill the tank for three loads to be hauled. The system was not left to be able to auto pump. On May 18, 2023, Cedar returned to the Site to fill the holding tank again. At this time the same connection was broken again. When it was reconnected, it continued to leak. The pump was turned off until repairs could be made. It appeared the connection broke because of tension on the leachate line from eroding ground above the culvert at the turn in piping. In addition to the broken connection and the eroding ground, cracks in the 4" flexible hose near the lift station, and significant poison ivy growth in the work area (between electrical panels and south of the holding tank) were observed.

The Wisconsin Department of Natural Resources was notified on May 18, 2023, of the above issues at the Site, and Cedar was approved to use contingency funds for the necessary repairs and site maintenance.

Before repairs could be completed, the Site had to be sprayed to kill the growing poison ivy in the work area. Poison ivy was treated on May 22 and June 2, 2023. Bonide Brush Killer BK-32 was used, according to instructions, to treat the poison ivy. This product worked well in killing the poison ivy, without killing all the vegetation that was sprayed.

A replacement flexible hose was ordered from Milwaukee Rubber Products in Menomonee Falls. The replacement hose was a 300 EPDM all-weather suction/discharge (4" diameter, 27 feet long, original Kanaflex Hose), with CF Aluminum male and female camlock fittings.

On June 5, 2023, Cedar picked up repair supplies, including the replacement hose, and returned to the Site to begin repairs and site maintenance. All woody vegetation along the leachate lines were cut down and the grass trimmed and mowed on both sides of the leachate lines so a thorough inspection could be completed. The areas previously treated for poison ivy were also cut so additional treatment could be completed. The cracked flexible hose was replaced with the new flexible hose. Cedar used approximately 2.5 cubic feet of all-purpose stone and 3 cubic feet of organic topsoil to raise the ground in the area that was eroding. The broken

connection was inspected, and no issues with the existing pipe were observed. The PVC was cleaned with a small metal bristle brush. Industrial grade PVC cleaner, primer, and glue were used to reconnect the pipe. The glue was allowed to dry for 45 minutes before turning the system on. Once turned on, the connection broke again, and an unknown amount of leachate was released onto the landfill cap (likely approximately 10-15 gallons).

Gas vent, GV-136, was observed to be laying on the ground. This gas vent was hit by a lawn mower in 2021 and was repaired by the mowing contractor at that time. Cedar used the industrial grade PVC cleaner, primer, and glue to reattach the vent to the coupling at the ground surface. A wooden stake was used to brace one side of the gas vent, and an additional wooden stake was tapped into the ground (approximately 3 inches) and used rope to help secure the gas vent while the glue dried.

On June 6, 2023, an approximate 10-foot section surrounding the break in the leachate lines was cut out, and a new piece of 4" by 10-foot section of bell-end sewer pipe was connected to the existing leachate line with a coupling and the use of industrial grade PVC cleaner, primer, and glue. The glue was allowed to dry for one (1) hour before turning the system on. A bag of all-purpose stone, organic topsoil, and some riprap found at the Site was placed at the turn of the PVC to ensure that it didn't move when the system turned on. Once turned on, there were no signs of leaks. The holding tank was filled, and the pump was turned off.

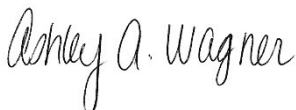
MJM Pumping removed two (2) loads of leachate on June 7, 2023. Cedar returned to the Site on June 8, 2023, and turned the pump on and inspected the leachate line for any leaks. No leaks were observed, and the pump was left in the "auto" position, for future automatic filling of the holding tank.

Cedar recommends that the poison ivy continues to be treated as needed, as was observed growing throughout the Site and in areas where staff and contractors work frequently. Cedar recommends that during the annual cap inspection, that the ground repairs above the culvert be inspected, and if needed, the bag of all-purpose stone and organic topsoil be spread in the area to keep the ground as level as possible. Cedar will have MJM Pumping check the repaired connection when they are at the Site, to help eliminate the release of leachate to the ground when no one is present at the Site.

Please do not hesitate to contact me at (920) 309-2289 or by email at ashley.wagner@cedarcorp.com should you have any questions regarding this project.

Sincerely,

Cedar Corporation



Ashley Wagner, P.G.
Project Manager

Attachment A – Photo Log

Client	Wisconsin Department of Natural Resources
Project	Barrett Landfill, New Berlin, Wisconsin
Prepared By	Ashley Wagner

Project No.	W6891-001
Date	06/12/23

Photo No.	Date
1	5/2/23
Direction Photo Taken	
Southwest	
Description	
Woody vegetation along leachate line.	



Photo No.	Date
2	6/6/23
Direction Photo Taken	
Southwest	
Description	
Eroding ground repaired with gravel and topsoil. Bags of gravel and topsoil on end to add if it settles and hold corner in place while repairs cure.	




Photo No.	Date	
3	5/2/23	
Direction Photo Taken		
Southeast		
Description		
Eroding ground over culvert.		


Photo No.	Date	
4	6/6/23	
Direction Photo Taken		
Southeast		
Description		
Eroding ground repaired with gravel and topsoil.		

Photo No.	Date	
5	5/2/23	
Direction Photo Taken		
Northwest		
Description		
Broken connection of PVC.		


Photo No.	Date	
6	6/6/23	
Direction Photo Taken		
Northwest		
Description		
Repaired section of PVC.		

Photo No.	Date	
7	5/2/23	
Direction Photo Taken		
Northwest		
Description		
Broken connection of PVC.		

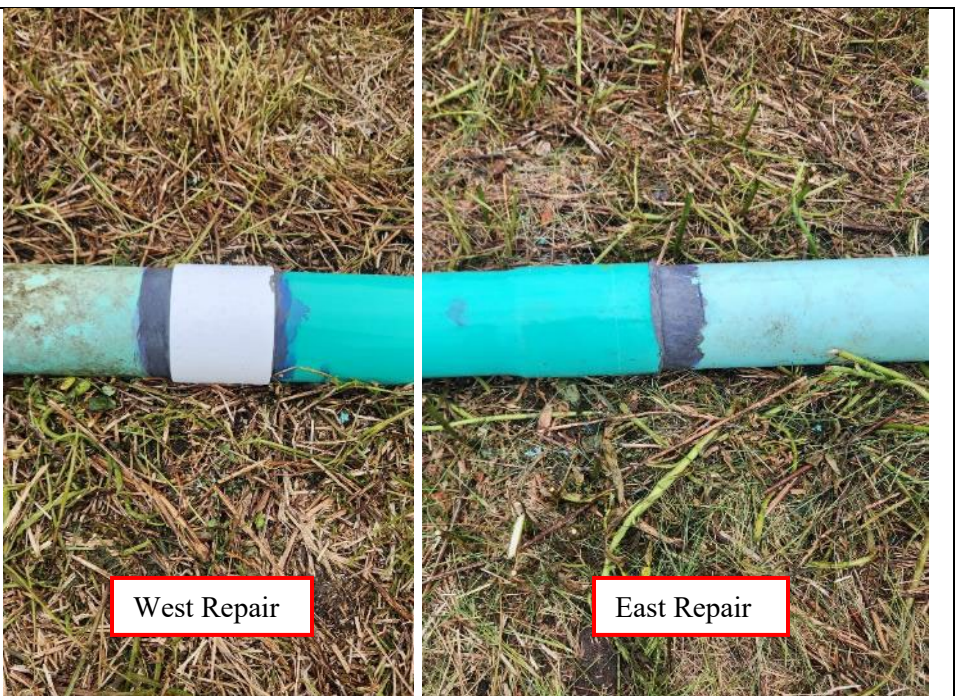
Photo No.	Date	
8	6/6/23	
Direction Photo Taken		
Northwest		
Description		
Repaired section of PVC.		
		<div style="border: 1px solid red; padding: 2px; display: inline-block;">West Repair</div>
		<div style="border: 1px solid red; padding: 2px; display: inline-block;">East Repair</div>


Photo No.	Date	
9	5/2/23	
Direction Photo Taken		
NA		
Description		
Cracked flexible hose near lift station.		

Photo No.	Date	
10	6/6/23	
Direction Photo Taken		
West		
Description		
New flexible hose at lift station.		

Photo No.	Date
11	5/18/23
Direction Photo Taken	
South	
Description	
Growing poison ivy before treatment.	



Photo No.	Date
12	6/6/23
Direction Photo Taken	
South	
Description	
Area where significant poison ivy was previously. Ground treated 3 times and mowed.	



Photo No.	Date
13	6/6/23
Direction Photo Taken	
North	
Description	
New flexible hose, woody vegetation cut down, grass mowed to be able to check for any other cracks or leaks.	



Photo No.	Date
14	6/6/23
Direction Photo Taken	
West	
Description	
Woody vegetation cut down, grass mowed to be able to check for any other cracks or leaks.	




Photo No.	Date	
15	6/6/23	
Direction Photo Taken		
Northeast		
Description		
<p>Woody vegetation cut down, grass mowed to be able to check for any other cracks or leaks.</p>		


Photo No.	Date	
16	6/6/23	
Direction Photo Taken		
Southwest		
Description		
<p>Woody vegetation cut down, grass mowed to be able to check for any other cracks or leaks. Repaired section in place.</p>		

Photo No.	Date
17	6/6/23
Direction Photo Taken	
Northeast	
Description	
Ground repairs to	



Photo No.	Date
18	6/6/23
Direction Photo Taken	
North	
Description	
Poison ivy treated, woody vegetation cut down, grass mowed to be able to check for any other cracks or leaks.	



Photo No.	Date	
19	6/6/23	
Direction Photo Taken	West	
Description	Area where significant poison ivy was previously. Ground treated 3 times and mowed.	

Photo No.	Date	
20	6/6/23	
Direction Photo Taken	Northwest	
Description	Area where significant poison ivy was previously. Ground treated 3 times and mowed.	

Photo No.	Date
21	5/2/23
Direction Photo Taken	
Southeast	
Description	
GV-136 broken at ground level (from lawn mower in 2021, previous repair did not hold).	



Photo No.	Date
22	6/6/23
Direction Photo Taken	
Southeast	
Description	
GV-136 repaired, using stakes and rope to help hold up gas vent while PVC glue dries	

