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Madison, WI 53717

T 608.826.3600
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June 22, 2023

Ms. Cindy Koepke
Hydrogeologist
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53711

Subject: Refuse Hideaway Landfill
May 2023 Operation Monitoring and Maintenance Activities

Dear Cindy:

TRC completed the following operation, monitoring, and maintenance activities at the Refuse Hideaway Landfill (the Site) in Middleton, WI in May 2023.

- May 3, 2023 – Bi-weekly Site Inspection and Gas Probe Monitoring
- May 24, 2023 – Monthly Site Inspection

Electrical Upgrades

TRC and Van Ert Electrical Company Inc. (Van Ert) are working to restore electrical service to the Site to allow for system operation. Van Ert and TRC were onsite on May 23, 2023, and the following tasks were completed as part of the electric service repairs:

- Two harmonics voltage monitoring devices were installed to monitor voltage from the Madison Gas and Electric service and from the solar panel system onsite. The instruments were installed on May 23, 2023, and remained in place for a two-week duration.
- Van Ert completed an electrical motor insulation resistance test on the air compressor motor for the leachate extraction system and determined that no damage to the electrical winding system was detected. The motor passed tests recommended by ANSI/NETA ATS-2017 7.15.1.B.
- Van Ert collected details to create a one-line diagram for the electrical distribution system for the Site.
- A report will be provided by Van Ert summarizing details of the voltage monitoring, electrical motor testing, and the one-line diagram following completion of the voltage monitoring work. Further details will be provided to WDNR and summarized as needed in the June 2023 Monthly Report.

Gas Extraction System

The gas extraction system (GES) was restarted in October 2022 and was operated until December 15, 2022 when an overvoltage fault was observed and the system was shut down until the electrical service to the Site is repaired.

Perimeter gas probe monitoring was conducted at the site on May 3, 2023.

Field data from system and gas probe monitoring is included in Attachment 1.

Leachate Extraction System

The leachate extraction system remained off during the month of May due to the issues with the electrical service to the Site.

The leachate tank level was gauged on May 3, and May 24, 2023, and contained 69.75 inches and 74.5 inches of leachate, respectively.

Cap Inspection

TRC conducted a monthly inspection of the landfill cap and stormwater conveyance features on May 24, 2022. The landfill cap and stormwater conveyance features are operational. TRC will continue to observe the condition of the features as the growing season continues. An inspection form with further details is provided in Attachment 1 and a photographic log is provided in Attachment 2.

If you have any questions, please contact Andrew Stehn at astehn@trccompanies.com or 608-807-8112.

Sincerely,

TRC

Thomas Perkins
Project Engineer

Andrew Stehn, PE
Project Manager

Attachments: 1. May 2023 Monitoring Results
2. Photographic Log

Attachment 1

May 2023 Monitoring Results

Bi-weekly - System Inspection Log
Landfill Gas Extraction and Leachate Pump System
WDNR - Refuse Hideaway Landfill
Middleton, Wisconsin

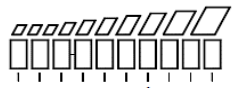
TRC Operator Name:	John Roelke		
Date:	5/3/2023	Arrival Time: 9:00 AM	Departure Time: 1:30 PM

Site Conditions		Equipment	
Weather Conditions:	clear	Gas/Instrument Type:	GEMS 2000
Ground Condition:	moist	Serial Number:	11668
Barometric Pressure:	29.98	Date Last Calibrated:	5/3/2023
Barometric Pressure Trend:	rising	Method:	standard field calibration gas
Temperature:	42 F	Pressure Instrument:	Dwyer Manometer

Landfill Gas Extraction System[1] **Landfill Gas System Off Line**

System	*Location*	*Tag #*	*Equipment Description*	*Set Point*	*Typical Range*	*Field Reading*
Blower Motor	Remote	GHS-BLR-301	Amperage	-	3 - 4 amps	NM
			Speed	-	1800 - 1900 rpm	NM
			Frequency	-	30 - 35 Hz	NM
	HMI		Amperage	-	3 -4 amps	NM
	HMI		Speed	-		NM
	HMI		Hours	-	-	NM
Blower Operating (yes/no). Note excessive noise or issues observed.						
Blower Inlet	HMI	PT-301	Blower Inlet Vacuum	7 in. w.c.	7 in. w.c.	NM
	HMI	TE-301	Blower Inlet Temperature	-	50 - 90 °F	NM
	Local	GHS-PI-301	Blower Inlet Vacuum	7 in. w.c.	7 in. w.c.	NM
	Local	GHS-TI-301	Blower Inlet Temperature	-	50 - 90 °F	NM
	Local	Sample Port	Gas Composition - % Methane	-		NM
			Gas Composition - % CO2	-		NM
			Gas Composition - % Oxygen	-		NM
			Gas Composition - % Balance	-		NM
Demister	Local	GHS-PDI-301	Demister Differential Pressure	-	1-2 in w.c	NM
	Local		Slight Glass: Liquid Present	-	-	NM
	HMI	LS-701	Level Indication	-	-	NM
Blower Outlet	HMI	PT-302	Blower Outlet Flow Pressure	-	-	NM
	HMI	TE-302	Blower Outlet Temperature	-	50 - 90 °F	NM
	HMI	PDT-301	Blower Outlet Flow Differential Pressure	-	1-2 in w.c	NM
	HMI	-	Blower Outlet Flow Rate	-	180 - 190 scfm	NM
	Local	GHS-PI-302	Blower Outlet Flow Pressure	-	-	NM
	Local	GHS-TI-302	Blower Outlet Temperature	-	50 - 90 °F	NM
	Local	Sample Port	Gas Composition - % Methane	-		NM
			Gas Composition - % CO2	-		NM
			Gas Composition - % Oxygen	-		NM
			Gas Composition - % Balance	-		NM
Branch Headers	Local	North	North Branch Vacuum	-	6 - 7 in w.c.	NM
	Local	North	Valve Position	6 turns open /6	6 turns open	NM
	Local	North Sample Port	Gas Composition - % Methane	-		NM
			Gas Composition - % CO2	-		NM
			Gas Composition - % Oxygen	-		NM
			Gas Composition - % Balance	-		NM
	Local	Central	Central Branch Vacuum	-	6 - 7 in w.c.	NM
	Local	Central	Valve Position	-	6 turns open	NM
	Local	Central Sample Port	Gas Composition - % Methane	-		NM
			Gas Composition - % CO2	-		NM
			Gas Composition - % Oxygen	-		NM
			Gas Composition - % Balance	-		NM
	Local	South	South Branch Vacuum	-	6 - 7 in w.c.	NM
	Local	South	Valve Position	-	6 turns open	NM
	Local	South Sample Port	Gas Composition - % Methane	-		NM
			Gas Composition - % CO2	-		NM
			Gas Composition - % Oxygen	-		NM
			Gas Composition - % Balance	-		NM

Air Compressor System[1,3,4] Air Compressor System Off Line								
Operational Settings	Pressure Set Points					Condensate Set Points		
	Tank Low (psi)	Tank High (psi)	Well Field (psi)	On (min.)	Off (min.)	Open (sec.)	Closed (min.)	Test Operation

Air Dryer System[2]		Electrical Status		HMI Heater/Air Conditioner	
System Operational:	YES	3-Phase Power Indicator:	_____ of 3	Operational	ok
Condensate Drain Operational:	YES	GFI 1 Status:	(Green / Red)	Temperature	70 F
Alarm Indictor:	OFF	GFI 2 Status:	(Green / Red)	Filter Cleaned	no
Condenser Cleaned[2]:	NO	**Leachate Tank/Loadout**			
Dew Point Indicator:		Liquid Level (inches):	69.75	Visual Check:	
	Indicate which bars are green(G) or red (R) and note (F) if flashing.	***Contact WDNR if level is above***	**71**	· Evidence of Tank Overflow:	no
		Leak Detection Test Completed:	no	· Inspect concrete pad and storm sewer for damage or backup	
		Overfill Float Functional[5]:	yes		
		Exhaust Stack			
		Drain Stack Sump (vol. removed)	0	Stack Condition[4]:	

1. Check all air lines and gas extraction lines for leaks during each site visit. Drain inline air filters and replace as needed.

2. Air Dryer - Clean the condenser monthly using an air jet (max. 2 bar / 30 psig) inside out. Make sure not to damage the aluminum lamellae of the cooling package.

3. On a quarterly basis change the oil and check/clean the air filters and intercoolers for the air compressor.

4. Inspect mounting brackets and bolts for the air compressor and effluent stack for tightness.

5. Test overfill float operation on a monthly basis.

Comments/Notes:

- The blower insolation blanket stored in the on site storage shed was removed and brought back to the TRC office for seasonal storage.
- The light bulb for the high level indicator at the leachate tank was replaced.

NM - Not Measured

Data Entered By: J. Roelke 5/3/2023

Checked By: T. Perkins 6/19/2023

REFUSE HIDEAWAY LANDFILL
GAS PROBE MONITORING FORM

TECHNICIAN(S): J. Roelke

DATE: 5/3/2023

START TIME: 9:00 AM

END TIME: 1:30 PM

GAS/INSTRUMENT TYPE: **GEM 2000**

SERIAL NO.: 11668

DATE LAST CALIBRATED: 5/3/2023

METHOD: Standard Calibration Gases

PRESS INSTRUMENT : Manometer

WEATHER CONDITIONS: clear

TEMPERATURE: 42°F

BAROMETRIC PRESSURE & TREND: 29.98 in. Hg, rising

GROUND CONDITIONS: moist

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-1D	9:42	0.0	0.0	0.0	2.1	16.3	(2)
GP-1S	9:44	0.0	0.0	0.0	0.0	20.8	(2)
GP-2D	9:47	0.1	0.0	0.0	1.3	18.6	(1)
GP-2S	9:49	0.0	0.0	0.0	0.4	20.3	(1)
GP-3	9:51	0.0	4.0	0.2	1.3	20.0	(1) Stable readings at 2 minutes.
GP-4	9:56	0.0	0.0	0.0	0.8	18.6	(1)
GP-5	9:58	0.0	0.0	0.0	1.3	19.6	(2)
GP-6	10:02	0.0	0.0	0.0	0.0	20.8	(1)
GP-7	10:09	0.2	0.0	0.0	0.0	20.8	(2)
GP-8	10:15	0.0	0.0	0.0	1.8	19.4	(2)
GP-9	10:18	0.0	0.0	0.0	2.0	18.6	(1)
GP-10	10:22	0.0	0.0	0.0	1.5	18.5	(1)
GP-11D	10:25	0.0	0.0	0.0	0.0	20.8	(2)
GP-11S	10:27	0.0	0.0	0.0	0.3	20.4	(2)
GP-12D	10:30	0.0	76	3.8	4.6	16.2	(1)
GP-12S	10:32	0.0	0.0	0.0	0.7	19.2	(1)
GP-13D	10:34	0.0	2.0	0.1	1.7	18.2	(2)
GP-13S	10:36	0.0	0.0	0.0	1.2	19.6	(2)

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-16D	10:53	0.0	8.0	0.4	1.1	19.0	(2)
GP-16S	10:55	0.0	60	3.0	5.5	12.9	(2)
GP-17D	10:45	0.0	6.0	0.3	2.9	16.3	(1)
GP-17M	10:47	0.0	4.0	0.2	1.3	18.5	(1)
GP-17S	10:49	0.0	4.0	0.2	1.6	19.0	(1)
GP-18D	10:58	0.0	0.0	0.0	0.0	20.8	(2)
GP-18M	11:00	0.0	0.0	0.0	0.0	20.8	(2)
GP-18S	11:02	0.0	0.0	0.0	0.0	20.8	(2)
GP-19$^{85-100}$	11:30	0.0	0.0	0.0	0.9	19.8	(1)
GP-19$^{50-70}$	11:32	0.0	0.0	0.0	1.4	19.2	(1)
GP-19$^{25-40}$	11:34	0.0	0.0	0.0	1.2	19.4	(1)
GP19$^{2-15}$	11:36	0.0	0.0	0.0	1.4	20.0	(1)
GP-20$^{85-100}$	11:42	0.0	0.0	0.0	0.0	20.8	(2)
GP-20$^{50-70}$	11:44	0.0	0.0	0.0	0.1	20.7	(2)
GP-20$^{25-40}$	11:46	0.0	0.0	0.0	0.6	20.0	(2)
GP-20$^{2-15}$	11:48	0.0	0.0	0.0	1.2	19.5	(2)
GP-21$^{85-100}$	11:21	0.1	0.0	0.0	0.3	20.3	(2)
GP-21$^{50-70}$	11:23	0.0	0.0	0.0	0.0	20.8	(2)
GP-21$^{25-40}$	11:25	0.0	0.0	0.0	0.3	20.6	(2)
GP-21$^{2-15}$	11:27	0.0	0.0	0.0	0.4	20.3	(2)
GP-22$^{85-100}$	11:31	0.1	0.0	0.0	1.9	19.3	(2)
GP-22$^{50-70}$	11:33	0.0	0.0	0.0	0.0	20.8	(2)
GP-22$^{25-40}$	11:35	0.0	0.0	0.0	0.5	20.4	(2)
GP-22$^{2-15}$	11:37	0.0	0.0	0.0	1.3	19.8	(2)

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-23$^{85\text{-}100}$	11:45	0.0	0.0	0.0	0.0	20.8	(2)
GP-23$^{50\text{-}70}$	11:47	0.0	0.0	0.0	0.0	20.8	(2)
GP-23$^{25\text{-}40}$	11:49	0.0	0.0	0.0	0.0	20.8	(2)
GP-23$^{2\text{-}15}$	11:51	0.0	0.0	0.0	0.0	20.8	(2)
GP-24$^{85\text{-}100}$	11:54	0.0	0.0	0.0	0.0	20.8	(2)
GP-24$^{50\text{-}70}$	11:56	0.0	0.0	0.0	0.0	20.8	(2)
GP-24$^{25\text{-}40}$	11:58	0.0	0.0	0.0	0.0	20.8	(2) Stable readings at 2 minutes.
GP-24$^{2\text{-}15}$	12:00	0.0	0.0	0.0	1.4	19.9	(2)
GPW-1D	13:10	0.3	0.0	0.0	0.0	20.8	(1)
GPW-1M	13:12	0.2	0.0	0.0	0.0	20.8	(1)
GPW-1S	13:14	0.0	0.0	0.0	0.6	20.3	(1)
G-1D	9:34	0.0	0.0	0.0	0.0	20.8	(1)
G-1S	9:36	0.0	0.0	0.0	0.8	19.9	(1)
G-2D	10:39	0.0	0.0	0.0	1.1	19.9	(1)
G-2S	10:41	0.0	50	2.5	6.9	12.4	(1) Stable readings at 2 minutes.
G-5	10:13	0.0	0.0	0.0	2.2	18.7	(1)
G-6	9:28	0.0	0.0	0.0	0.0	20.8	(1)
G-8	11:16	0.0	0.0	0.0	0.0	20.8	(1)
G-9	11:08	0.0	0.0	0.0	0.9	18.5	(1)
G-10	12:06	-0.7	0.0	0.0	0.0	20.8	(1)
Speedway Office	9:39	0.0	0.0	0.0	0.0	20.8	Open to ATM

NOTES:

(1); Locked probe casing.
(2): Probe is above casing and cannot be locked.
(3): No cap for probe casing and cannot be locked.

Key:

Shallow or 2'-15'
Medium or 25'-40'
Deep or 50'-70'
85'-100'

Entered by: J. Roelke 5/4/2023
Checked by: T. Perkins 6/19/2023

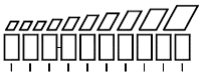
Monthly System Inspection Log
Landfill Gas Extraction and Leachate Pump System
WDNR - Refuse Hideaway Landfill
Middleton, Wisconsin

TRC Operator Name: J. Roelke		
Date: 5/24/2023	**Arrival Time: 8:30**	**Departure Time: 11:30**

Site Conditions	Initial[1]	Final[2]	Equipment	
Weather Conditions:	sunny	NM	Gas/Instrument Type:	GEMS 2000
Ground Condition:	dry	NM	Serial Number:	11668
Barometric Pressure:	29.25 in. Hg	NM	Date Last Calibrated:	NM
Barometric Pressure Trend:	falling	NM	Method:	Standard field calibration
Temperature:	63	NM	Pressure Instrument:	Dwyer Series 475 Manometer

Landfill Gas Extraction System[3] Landfill Gas Extraction System Off Line							
System	***Location***	***Tag #***	***Equipment Description***	***Set Point***	***Typical Range***	***Initial Field Reading [1]***	***Final Field Reading [2]***
Blower Motor	Remote	GHS-BLR-301	Amperage	-	3 - 4 amps	MN	--
			Speed	-	1800 - 1900 rpm	MN	--
			Frequency	-	30 - 35 Hz	MN	--
	HMI		Amperage	-	3 -4 amps	MN	--
	HMI		Speed	-		NM	--
	HMI		Hours	-	-	NM	--
Blower Operating (YES). Note excessive noise or issues observed.							
Blower Inlet	HMI	PT-301	Blower Inlet Vacuum	7 in. w.c.	7 in. w.c.	NM	NM
	HMI	TE-301	Blower Inlet Temperature	-	50 - 90 °F	NM	NM
	Local	GHS-PI-301	Blower Inlet Vacuum	7 in. w.c.	7 in. w.c.	NM	NM
	Local	GHS-TI-301	Blower Inlet Temperature	-	50 - 90 °F	NM	NM
	Local	Sample Port	Gas Composition - % Methane	-		NM	NM
			Gas Composition - % CO2	-		NM	NM
			Gas Composition - % Oxygen	-		NM	NM
			Gas Composition - % Balance	-		NM	NM
Demister	Local	GHS-PDI-301	Demister Differential Pressure	-	1-2 in w.c	NM	--
	Local		Slight Glass: Liquid Present	-	-		--
	HMI	LS-701	Level Indication	-	-		--
Blower Outlet	HMI	PT-302	Blower Outlet Flow Pressure	-	-	NM	NM
	HMI	TE-302	Blower Outlet Temperature	-	50 - 90 °F	NM	NM
	HMI	PDT-301	Blower Outlet Flow Differential Pressure	-	1-2 in w.c	NM	NM
	HMI	-	Blower Outlet Flow Rate	-	180 - 190 scfm	NM	NM
	Local	GHS-PI-302	Blower Outlet Flow Pressure	-	-	NM	NM
	Local	GHS-TI-302	Blower Outlet Temperature	-	50 - 90 °F	NM	NM
	Local	Sample Port	Gas Composition - % Methane	-		NM	NM
			Gas Composition - % CO2	-		NM	NM
			Gas Composition - % Oxygen	-		NM	NM
			Gas Composition - % Balance	-		NM	NM
Branch Headers	Local	North	North Branch Vacuum	-	6 - 7 in w.c.	NM	NM
	Local	North	Valve Position	6 turns open /6	6 turns open	NM	NM
	Local	North Sample Port	Gas Composition - % Methane	-		NM	NM
			Gas Composition - % CO2	-		NM	NM
			Gas Composition - % Oxygen	-		NM	NM
			Gas Composition - % Balance	-		NM	NM
	Local	Central	Central Branch Vacuum	-	6 - 7 in w.c.	NM	NM
	Local	Central	Valve Position	-	6 turns open	NM	NM
	Local	Central Sample Port	Gas Composition - % Methane	-		NM	NM
			Gas Composition - % CO2	-		NM	NM
			Gas Composition - % Oxygen	-		NM	NM
			Gas Composition - % Balance	-		NM	NM
	Local	South	South Branch Vacuum	-	6 - 7 in w.c.	NM	NM
	Local	South	Valve Position	-	6 turns open	NM	NM
	Local	South Sample Port	Gas Composition - % Methane	-		NM	NM
			Gas Composition - % CO2	-		NM	NM
			Gas Composition - % Oxygen	-		NM	NM
			Gas Composition - % Balance	-		NM	NM

Air Compressor System[3,5,6]								
Operational Settings	Pressure Set Points					Condensate Set Points		
	Tank Low (psi)	Tank High (psi)	Well Field (psi)	On (min.)	Off (min.)	Open (sec.)	Closed (min.)	Test Operation
	NOT OPERATING							(yes/no)

Air Dryer System[4]		Electrical Status		HMI Heater/Air Conditioner	
System Operational:		3-Phase Power Indicator:	3 of 3	Operational	Yes
Condensate Drain Operational:		GFI 1 Status:	GREEN	Temperature	70
Alarm Indictor:		GFI 2 Status:	GREEN	Filter Cleaned	No
Condenser Cleaned[2]:		**Leachate Tank/Loadout**			
Dew Point Indicator:		Liquid Level (inches):	74.5	Visual Check:	
	Indicate which bars are green(G) or red (R) and note (F) if flashing.	***Contact WDNR if level is above***	71 inches	· Evidence of Tank Overflow:	No
		Leak Detection Test Completed:	No	· Inspect concrete pad and storm sewer for damage or backup	
		Overfill Float Functional[7]	Yes		
		Exhaust Stack			
		Drain Stack Sump (vol. removed)	0	Stack Condition[6]:	Good

1. Initial site conditions represents readings collected upon arrival to the site and initial field readings are collected prior to the landfill balancing.

2. Final site conditions represents readings collected upon departure from the site and final field readings are collected following the landfill balancing.

3. Check all air lines and gas extraction lines for leaks during each site visit. Drain inline air filters and replace as needed.

4. Air Dryer - Clean the condenser monthly using an air jet (max. 2 bar / 30 psig) inside out. Make sure not to damage the aluminum lamellae of the cooling package.

5. On a quarterly basis change the oil and check/clean the air filters and intercoolers for the air compressor.

6. Inspect mounting brackets and bolts for the air compressor and effluent stack for tightness.

7. Test overfill float operation on a monthly basis.

Comments/Notes: Conducted cap inspection
NM - Not Measured - Made call to schedule leachate tank pumped out.

Data Entered By: J. Roelke 5/25/2023
Checked By: T. Perkins 6/19/2023

Cap Inspection
Note: Photograph all issues encountered during inspection
Note: Keep vehicle traffic to gravel roadways, avoid driving on the landfill surface
Is the landfill surface covered in snow (Y/N)? No
Inspect the landfill surface when not covered in snow. Describe the condition and any issues observed for each category below:
Cap integrity: - Cap integrity is acceptable -Fencing around GW-1 and GW-2 is damaged but still provides well protection from mowing operations (see photo #6). - Snow fencing was installed to protect the airlines for the Gas Extraction Wells during mowing events at GW-2, GW-4, GW-7, GW-8, GW-9, GW-10, GW-11, GW-12, GW-13 (see photo #7).
Condition of drainage ways: West Drainage Ditch - During the May inspection, areas of vegetation die off were observed at the drainage path to the north (see photo #1). This area was previously identified as having less positive slope than its surrounding and was regraded during 2020-2021 grading work at the site. The final post construction survey showed positive slope. East Drainage Ditch - A small portion of the riprap at the west embankment of the northern culvert appears to have eroded/failed (see photo #2). - Evidence was observed of erosion beginning to occur at the north portion of the slope towards the sediment pond (see photo #3). Drainage ways are acceptable with minimal to no changes form previous conditions aside from those described above.
Extent of vegetation cover: Vegetation cover is acceptable over the majority of the site. Various areas were reseeded and ground cover was applied in the fall of 2022 and remains in place (see photo #4). Burrowed areas were filled in with soil as gas extraction wells GW-2, GW-4, and GW-12. New burrowing was identified at GW-2 and GW-4 (see photo # 5).
Significant erosion: No evidence if significant erosion was observed at the site.
Repeated erosion: No evidence if significant erosion was observed at the site.
Vegetation die-off: Areas at the west drainage ditch and east drainage ditch previously showed signs of vegetation die-off and were reseeded in the fall of 2022. Ground cover in these areas remains and TRC will continue to monitor regrowth in 2023. (see photo # 4).
Maintain surface water conveyances and the sedimentation basin by completing the following:
Inspect drainage ditches for erosion, blockages, and vegetation, describe and note any issues: Evidence of light erosion at the eastern drainage ditch was previously observed and reseeded in the fall of 2022. Ground cover remains in place and TRC will continue to monitor the area for vegetation regrowth and any additional evidence of erosion. See photo # 3.
Inspect sedimentation basin banks and outfalls for erosion, describe and note any issues: No erosion or other issues at sedimentation basin banks or outfalls.
Measure the distance between the invert of the sedimentation basin outlet and the top of the sediments accumulated in the basin **(June Only!)**: NM

Attachment 2

Photographic Log

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Natural Resources (WDNR)	Refuse Hideaway Landfill Middleton, WI	TRC # 457573

Photo No.	Date
1	5/24/2023

Description

Western Drainage Ditch:
Vegetation die off was observed at the north portion of the drainage ditch.

Photo No.	Date
2	5/24/2023

Description

Eastern Drainage Ditch:
Some riprap has begun to deteriorate at the west side of the western culvert. Surface water is not being obstructed.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Natural Resources (WDNR)	Refuse Hideaway Landfill Middleton, WI	TRC # 457573

Photo No.	Date
3	5/24/2023

Description

Eastern Drainage Ditch:
Areas were reseeded and erosion mat was applied cover in the fall of 2022. Grass is emerging from mat. Evidence of erosion is visible and will be monitored.

Photo No.	Date
4	5/24/2023

Description

Eastern Landfill Extents
Reseeding and ground cover was previously applied in the Fall of 2022 and remains in place. Grass is starting to emerge from mat. Due to rain events, reseeding may need to be reapplied.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Natural Resources (WDNR)	Refuse Hideaway Landfill Middleton, WI	TRC # 457573

Photo No.	Date
5	5/24/2023

Description

Southern Landfill Extents:
Evidence of burrowing around GW-2, and GW-4.

Burrowing at GW-2, GW-4, and GW-12 was filled with soil in the Fall of 2022.

Photo No.	Date
6	5/24/2023

Description

Southern Landfill Extents:
GW-2 protective fencing is falling apart. Fencing still provides protection during mowing operations. GW-1 protective fencing is in the same condition as GW-2.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Natural Resources (WDNR)	Refuse Hideaway Landfill Middleton, WI	TRC # 457573

Photo No.	Date
7	5/24/2023

Description

Southern and Northern Landfill Extents:

Snow fencing was installed to protect the airlines during mowing events at Gas Extraction Wells: GW-2, GW-4, GW-7, GW-8, GW-9, GW-10, GW-11, GW-12, and GW-13.