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June 23, 2022

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

Subject: Refuse Hideaway Landfill  
May 2022 Operation Monitoring and Maintenance Activities

Dear Cindy:

TRC completed the following operation, monitoring, and maintenance activities at the Refuse Hideaway Landfill in Middleton, WI in May 2022.

- May 5, 2022 – Gas Probe Monitoring
- May 11, 2022 – Biweekly Site Visit
- May 26, 2022 – Monthly Site Visit and Site Inspection

## **Gas Extraction System**

The gas extraction system (GES) was operational until May 15, 2022, when the blower shutdown due to a Fault 3210 DC link overvoltage. TRC observed the alarm condition and restarted the blower on May 26, 2022 during the monthly site visit and the blower operated through the end of the month of May. The system was balanced during the May 26, 2022 monitoring event to optimize methane recovery from the landfill. Perennial Energy (PEI) is scheduled to complete the installation of heat trace and insulation on the GES the week of June 27, 2022.

Perimeter gas probe monitoring was conducted at the site on May 5, 2022, and the monitoring data is included in the attachments.

## **Leachate Extraction System**

The leachate extraction system remained off during the month of May. System repair will be completed by PEI, in conjunction with the GES heat trace and insulation work.

## **Cap Inspection**

TRC conducted a monthly inspection of the landfill cap and stormwater conveyance features on May 26, 2022. An inspection form and photo log are attached with further details.

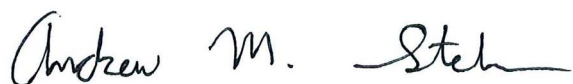
All monitoring results collected during the site visits completed in May 2022 are attached.

Ms. Cindy Koepke  
Wisconsin Department of Natural Resources  
June 23, 2022  
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If you have any questions, please contact me at [astehn@trccompanies.com](mailto:astehn@trccompanies.com) or 608-807-8112.

Sincerely,

TRC

A handwritten signature in black ink that reads "Andrew M. Stehn". The signature is written in a cursive style with a long horizontal flourish at the end.

Andrew Stehn, PE  
Project Manager

Attachments: May 2022 Monitoring Results

## **May 2022 Monitoring Results**

## REFUSE HIDEAWAY LANDFILL GAS PROBE MONITORING FORM

TECHNICIAN(S): J. Roelke

DATE: 5/5/2022  
START TIME: 7:28 AM  
END TIME: 12:45PM

GAS/INSTRUMENT TYPE: GEM 2000  
SERIAL NO.: 11668  
DATE LAST CALIBRATED: 5/5/2022  
METHOD: Standard Calibration Gases  
PRESS INSTRUMENT : Manometer

WEATHER CONDITIONS: cloudy  
TEMPERATURE: 57 °F  
BAROMETRIC PRESSURE & TREND: 30.05 in. Hg, falling  
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	7:50	0.0	0.0	0.0	2.1	17.8	(2)
GP-1S	7:52	0.0	0.0	0.0	0.1	20.7	(2)
GP-2D	7:54	0.0	0.0	0.0	1.1	19.0	(1)
GP-2S	7:56	0.0	0.0	0.0	1.9	18.3	(1)
GP-3	7:59	0.0	>5	6.1	7.6	0.0	(1) Stable readings at 2 minutes.
GP-4	8:05	0.0	0.0	0.0	1	18.4	(1)
GP-5	8:08	0.0	0.0	0.0	1.6	19.1	(2)
GP-6	8:13	0.10	0.0	0.0	0.0	20.8	(1)
GP-7	8:20	0.0	0.0	0.0	1.2	17.9	(2)
GP-8	8:27	0.0	0.0	0.0	3.5	17.4	(2)
GP-9	8:31	0.0	0.0	0.0	1.9	18.0	(1)
GP-10	8:35	0.0	0.0	0.0	2.1	17.3	(1)
GP-11D	8:40	0.0	0.0	0.0	1.4	18.0	(2)
GP-11S	8:42	0.0	0.0	0.0	1.8	17.4	(2)
GP-12D	8:46	0.0	22	1.1	2.4	17	(1)
GP-12S	8:48	0.0	0.0	0.0	0.6	20.1	(1)
GP-13D	8:50	0.0	0.0	0.0	0.9	18.9	(2)
GP-13S	8:52	0.0	0.0	0.0	0.9	18.7	(2)

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-16D	9:07	0.0	0.0	0.0	0.7	19.8	(2)
GP-16S	9:09	0.0	0.0	0.0	0.5	20.3	(2)
GP-17D	9:01	0.0	6.0	0.3	2.7	16.7	(1)
GP-17M	9:03	0.0	0.0	0.0	0.4	20.1	(1)
GP-17S	9:05	0.0	0.0	0.0	0.6	20.0	(1)
GP-18D	9:13	0.0	0.0	0.0	0.1	20.7	(2)
GP-18M	9:15	0.0	0.0	0.0	0.0	20.8	(2)
GP-18S	9:17	0.0	0.0	0.0	0.2	20.5	(2)
GP-19 <sup>85-100</sup>	10:00	0.0	0.0	0.0	0.3	20.4	(1)
GP-19 <sup>50-70</sup>	10:02	0.0	0.0	0.0	1.7	18.8	(1)
GP-19 <sup>25-40</sup>	10:04	0.0	0.0	0.0	1.2	19.6	(1)
GP19 <sup>2-15</sup>	10:06	0.0	0.0	0.0	1.0	19.7	(1)
GP-20 <sup>85-100</sup>	9:51	0.0	0.0	0.0	0.3	20.4	(2)
GP-20 <sup>50-70</sup>	9:53	0.0	0.0	0.0	0.5	20.3	(2)
GP-20 <sup>25-40</sup>	9:55	0.0	0.0	0.0	0.7	20	(2)
GP-20 <sup>2-15</sup>	9:57	0.0	0.0	0.0	0.9	19.9	(2)
GP-21 <sup>85-100</sup>	9:42	0.19	0.0	0.0	0.3	20.2	(2)
GP-21 <sup>50-70</sup>	9:44	0.0	0.0	0.0	0.3	20.4	(2)
GP-21 <sup>25-40</sup>	9:46	0.0	0.0	0.0	0.0	20.8	(2)
GP-21 <sup>2-15</sup>	9:48	0.0	0.0	0.0	0.5	20.4	(2)
GP-22 <sup>85-100</sup>	10:11	0.0	0.0	0.0	1.5	19.2	(2)
GP-22 <sup>50-70</sup>	10:13	0.0	0.0	0.0	0.4	20.3	(2)
GP-22 <sup>25-40</sup>	10:15	0.0	0.0	0.0	0.6	20.1	(2)
GP-22 <sup>2-15</sup>	10:17	0.0	0.0	0.0	1.2	19.4	(2)
GP-23 <sup>85-100</sup>	10:27	0.0	0.0	0.0	0.0	20.8	(2)

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-23 <sup>50-70</sup>	10:29	0.0	0.0	0.0	0.0	20.8	(2)
GP-23 <sup>25-40</sup>	10:31	0.0	0.0	0.0	0.0	20.8	(2)
GP-23 <sup>2-15</sup>	10:33	0.0	0.0	0.0	0.0	20.8	(2)
GP-24 <sup>85-100</sup>	10:38	0.0	0.0	0.0	0.0	20.8	(2)
GP-24 <sup>50-70</sup>	10:40	0.0	0.0	0.0	0.9	20.1	(2)
GP-24 <sup>25-40</sup>	10:42	0.0	0.0	0.0	0.0	20.8	(2)
GP-24 <sup>2-15</sup>	10:44	0.0	0.0	0.0	1.1	19.8	(2)
GPW-1D	12:17	0.41	0.0	0.0	1.6	18.5	(1)
GPW-1M	12:19	0.42	0.0	0.0	1.5	18.6	(1)
GPW-1S	12:21	0.0	0.0	0.0	0.8	19.4	(1)
G-1D	7:43	0.0	0.0	0.0	0.0	20.8	(1)
G-1S	7:45	0.0	0.0	0.0	1.0	19.9	(1)
G-2D	8:55	0.0	0.0	0.0	0.8	20.0	(1)
G-2S	8:57	0.0	0.0	0.0	0.1	20.7	(1)
G-5	8:25	0.0	0.0	0.0	2.9	17.7	(1)
G-6	7:36	0.0	0.0	0.0	0.0	20.8	(1)
G-8	9:37	0.0	0.0	0.0	0.0	20.8	(1)
G-9	9:27	0.0	0.0	0.0	0.6	18.9	(1)
G-10	10:51	0.45	0.0	0.0	0.0	20.8	(1)
Speedway Office	7:48	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'

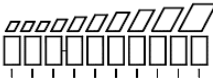
Entered by: J. Roelke 5/9/2022  
Checked by: A. Ruetten 6/2/22

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

TRC Operator Name: John Roelke		
Date: 5/26/2022	Arrival Time: 10:05	Departure Time: 11:15

Site Conditions	Equipment
Weather Conditions: cloudy	Gas/Instrument Type: GEMS 2000
Ground Condition: saturated	Serial Number: 11668
Barometric Pressure: 29.76 in. Hg	Date Last Calibrated: 5/26/2022
Barometric Pressure Trend: rising	Method: standard field calibration gas
Temperature: 67	Pressure Instrument: Dwyer Manometer

Landfill Gas Extraction System <sup>1</sup>						
System	Location	Tag #	Equipment Description	Set Point	Typical Range	Field Reading
Blower Motor	Remote	GHS-BLR-301	Amperage	-	3 - 4 amps	3.32
			Speed	-	1800 - 1900 rpm	1445.14
			Frequency	-	30 - 35 Hz	24.2
	HMI		Amperage	-	3 -4 amps	3.3
			Speed	-	-	33
			Hours	-	-	5540
Blower Operating (yes/no). Note excessive noise or issues observed.						None
Blower Inlet	HMI	PT-301	Blower Inlet Vacuum	7 in. w.c.	7 in. w.c.	7.0
	HMI	TE-301	Blower Inlet Temperature	-	50 - 90 °F	64
	Local	GHS-PI-301	Blower Inlet Vacuum	7 in. w.c.	7 in. w.c.	-6.77
	Local	GHS-TI-301	Blower Inlet Temperature	-	50 - 90 °F	58
	Local	Sample Port	Gas Composition - % Methane	-	-	25.2%
			Gas Composition - % CO2	-	-	18.5%
			Gas Composition - % Oxygen	-	-	8.3%
Gas Composition - % Balance			-	-	48%	
Demister	Local	GHS-PDI-301	Demister Differential Pressure	-	1-2 in w.c	0.8
	Local		Slight Glass: Liquid Present	-	-	None
	HMI	LS-701	Level Indication	-	-	--
Blower Outlet	HMI	PT-302	Blower Outlet Flow Pressure	-	-	0.1
	HMI	TE-302	Blower Outlet Temperature	-	50 - 90 °F	73
	HMI	PDT-301	Blower Outlet Flow Differential Pressure	-	1-2 in w.c	0.8
	HMI	-	Blower Outlet Flow Rate	-	180 - 190 scfm	131
	Local	GHS-PI-302	Blower Outlet Flow Pressure	-	-	0.6
	Local	GHS-TI-302	Blower Outlet Temperature	-	50 - 90 °F	70
	Local	Sample Port	Gas Composition - % Methane	-	-	23.0%
			Gas Composition - % CO2	-	-	17.5%
Gas Composition - % Oxygen			-	-	9.1%	
Gas Composition - % Balance			-	-	50.4%	
Branch Headers	Local	North	North Branch Vacuum	-	6 - 7 in w.c.	-6.22
	Local	North	Valve Position	6 turns open /6	6 turns open	6
	Local	North Sample Port	Gas Composition - % Methane	-	-	61.0%
			Gas Composition - % CO2	-	-	22.0%
			Gas Composition - % Oxygen	-	-	2.5%
			Gas Composition - % Balance	-	-	14.5%
	Local	Central	Central Branch Vacuum	-	6 - 7 in w.c.	-6.18
	Local	Central	Valve Position	-	6 turns open	6
	Local	Central Sample Port	Gas Composition - % Methane	-	-	17.0%
			Gas Composition - % CO2	-	-	13.7%
			Gas Composition - % Oxygen	-	-	11.2%
			Gas Composition - % Balance	-	-	58.1%
	Local	South	South Branch Vacuum	-	6 - 7 in w.c.	-6.24
	Local	South	Valve Position	-	6 turns open	6
	Local	South Sample Port	Gas Composition - % Methane	-	-	22.9%
Gas Composition - % CO2			-	-	19.6%	
Gas Composition - % Oxygen			-	-	8.5%	
Gas Composition - % Balance			-	-	49.0%	

Air Compressor System <sup>1,3,4</sup> - AIR COMPRESSOR SYSTEM OFFLINE								
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
	Off Line - NM				NM	NM	NM	
Air Dryer System <sup>2</sup> Off Line		Electrical Status			HMI Heater/Air Conditioner			
System Operational:		YES	3-Phase Power Indicator:		_____ of 3	Operational	yes	
Condensate Drain Operational:		YES	GFI 1 Status:		(Green / Red)	Temperature	73	
Alarm Indicator:		OFF	GFI 2 Status:		(Green / Red)	Filter Cleaned	no	
Condenser Cleaned <sup>2</sup> :		NO	Leachate Tank/Loadout					
Dew Point Indicator:		Liquid Level (inches):		27	Visual Check:			
 <p>Indicate which bars are green(G) or red (R) and note (F) if flashing.</p>		<b>Contact WDNR if level is above</b>		<b>71</b>	· Evidence of Tank Overflow:		none	
		Leak Detection Test Completed:		No	· Inspect concrete pad and storm sewer for damage or backup			
		Overfill Float Functional <sup>5</sup> :		Yes				
Exhaust Stack								
Drain Stack Sump (vol. removed)				.5 gallon	Stack Condition <sup>4</sup> : good			

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: Blower, 301, was down on arrival. Fault- 3210: DC link, overvoltage. Reset alarm and started up blower.  
 NM - Not Measured

Data Entered By: J. Roelke 5/26/22  
 Checked By: A. Ruetten 6/2/22



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


<b>TRC Operator Name: John Roelke</b>	<b>Arrival Time: 11:25</b>	<b>Departure Time: 13:10</b>
<b>Date: 5/11/2022</b>		

Site Conditions	Initial <sup>1</sup>	Final <sup>2</sup>	Equipment	
Weather Conditions:	cloudy 63% humidity	cloudy 63% humidity	Gas/Instrument Type:	GEMS 2000
Ground Condition:	moist	moist	Serial Number:	11668
Barometric Pressure:	30.11	30.11	Date Last Calibrated:	5/11/2022
Barometric Pressure Trend:	steady	steady	Method:	Standard field calibration
Temperature:	89	90	Pressure Instrument:	Dwyer Series 475 Manometer

Landfill Gas Extraction System <sup>3</sup>							
System	Location	Tag #	Equipment Description	Set Point	Typical Range	Initial Field Reading <sup>1</sup>	Final Field Reading <sup>2</sup>
Blower Motor	Remote	GHS-BLR-301	Amperage	-	3 - 4 amps	3.28	--
			Speed	-	1800 - 1900 rpm	1368	--
			Frequency	-	30 - 35 Hz	22.95	--
	HMI		Amperage	-	3 - 4 amps	3.2	--
			Speed	-	-	31	--
			Hours	-	-	5549	--

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.	7.0	7
	HMI	TE-301	Blower Inlet Temperature	-	50 - 90 °F	87	--
	Local	GHS-PI-301	Blower Inlet Vacuum	7 in. w.c.	7 in. w.c.	6.72	6.64
	Local	GHS-TI-301	Blower Inlet Temperature	-	50 - 90 °F	64	68
	Local	Sample Port	Gas Composition - % Methane	-	-	8.0%	10.4%
			Gas Composition - % CO2	-	-	10.7%	9.4%
Gas Composition - % Oxygen			-	-	12.9%	13.8%	
Gas Composition - % Balance			-	-	68.4%	66.4%	
Demister	Local	GHS-PDI-301	Demister Differential Pressure	-	1-2 in w.c	0.8	--
	Local		Slight Glass: Liquid Present	-	-	NO	--
	HMI	LS-701	Level Indication	-	-	NA	--
Blower Outlet	HMI	PT-302	Blower Outlet Flow Pressure	-	-	0.1	NM
	HMI	TE-302	Blower Outlet Temperature	-	50 - 90 °F	87	NM
	HMI	PDT-301	Blower Outlet Flow Differential Pressure	-	1-2 in w.c	0.76	NM
	HMI	-	Blower Outlet Flow Rate	-	180 - 190 scfm	125	134
	Local	GHS-PI-302	Blower Outlet Flow Pressure	-	-	0.09	--
	Local	GHS-TI-302	Blower Outlet Temperature	-	50 - 90 °F	84	--
	Local	Sample Port	Gas Composition - % Methane	-	-	7.9%	--
			Gas Composition - % CO2	-	-	10.7%	--
			Gas Composition - % Oxygen	-	-	12.7%	--
Gas Composition - % Balance			-	-	68.7%	--	
Branch Headers	Local	North	North Branch Vacuum	-	6 - 7 in w.c.	-6.19	-6.22
	Local	North	Valve Position	6 turns open /6	6 turns open	6	6
	Local	North Sample Port	Gas Composition - % Methane	-	-	15.6%	43.5%
			Gas Composition - % CO2	-	-	14.8%	15.1%
			Gas Composition - % Oxygen	-	-	8.1%	6.6%
			Gas Composition - % Balance	-	-	61.5%	34.8%
	Local	Central	Central Branch Vacuum	-	6 - 7 in w.c.	-6.15	-6.17
	Local	Central	Valve Position	-	6 turns open	6	6
	Local	Central Sample Port	Gas Composition - % Methane	-	-	5.0%	4.9%
			Gas Composition - % CO2	-	-	6.3%	5.2%
			Gas Composition - % Oxygen	-	-	15.5%	15.7%
			Gas Composition - % Balance	-	-	73.2%	74.2%
	Local	South	South Branch Vacuum	-	6 - 7 in w.c.	-6.19	-6.23
	Local	South	Valve Position	-	6 turns open	6	6
	Local	South Sample Port	Gas Composition - % Methane	-	-	10.4%	11.7%
Gas Composition - % CO2			-	-	14.4%	12.9%	
Gas Composition - % Oxygen			-	-	10.0%	10.4%	
Gas Composition - % Balance			-	-	65.2%	65.0%	

Air Compressor System <sup>3,5,6</sup> - AIR COMPRESSOR SYSTEM OFFLINE								
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 <sup>4</sup> - AIR DRYER OFFLINE		Electrical Status			HMI Heater/Air Conditioner			
System Operational:	NO	3-Phase Power Indicator:			3 of 3	Operational	YES	
Condensate Drain Operational:	NO	GFI 1 Status:			GREEN	Temperature	NM	
Alarm Indicator:	NO	GFI 2 Status:			GREEN	Filter Cleaned	NO	
Condenser Cleaned <sup>2</sup> :	NO	Leachate Tank/Loadout						
Dew Point Indicator: N/A		Liquid Level (inches):		67.75	Visual Check:			
 <p>Indicate which bars are green(G) or red (R) and note (F) if flashing.</p>		<b>Contact WDNR if level is above</b>		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 <sup>7</sup>		YES				
		Exhaust Stack						
		Drain Stack Sump (vol. removed)		NONE	Stack Condition <sup>6</sup> :		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:  
Air compressor and air dryer offline, leachate tank is @ 67.75"  
NA - Not Applicable  
NM - Not Measured

Data Entered By: A. Stehn 6/2/2022


Checked By: A. Ruetten 6/2/22



Cap Inspection			
Inspection Details		Site Conditions	
Inspector :	Tom Perkins/John Roelke	Weather Conditions:	Sunny
Date:	5/26/2022	Ground Condition:	Clear
Time:	1100	Temperature:	75F
Note: Photograph all issues encountered during inspection			
Note: Keep vehicle traffic to gravel roadways, avoid driving on the landfill surface			
<b>Is the landfill surface covered in snow (Y/N)?</b> No			
<b>Inspect the landfill surface when not covered in snow. Describe the condition and any issues observed for each category below:</b>			
<b>Cap integrity:</b> Cap integrity is acceptable, with no changes from previous condition.			
<b>Condition of drainage ways:</b>			
<i>West Drainage Ditch</i> - The north portion shows signs of ponding or slow drainage, see Photo 1. No standing water in this area during the inspection but vegetation regrowth was sparing indicating water may be ponding at times. This area was identified as having less positive slope than its surroundings and regraded several times during 2020-2021 grading work at the Site. Final survey showed positive slope.			
<i>East Drainage Ditch</i> - Some riprap has fallen from the west embankment of the northern culvert, see Photo 2. Riprap was removed from the drainage way and placed back on the embankment. TRC will continue to monitor this location to determine if riprap is unstable. Some vegetation die-off and light erosion was observed along a north portion of the drainage ditch, see Photo 3.			
Beyond the above noted issues, drainage ways are acceptable, with minimal to no changes from previous conditions.			
<b>Extent of vegetation cover:</b> Vegetation cover is acceptable over the majority of the Site. Some areas that were seeded post-construction in 2021 are not showing signs of growth. Re-seeding may be required at various locations throughout the Site, TRC will continue to monitor.			
<b>Significant erosion:</b> No evidence of significant erosion at the Site observed.			
<b>Repeated erosion:</b> No evidence repeated erosion at the Site observed.			
<b>Vegetation die-off:</b>			
<i>West Drainage Ditch</i> - The north portion shows signs of ponding or slow drainage, see Photo 1. No standing water in this area during the inspection but vegetation regrowth was sparing indicating water may be ponding at times.			
<i>East Drainage Ditch</i> - Some vegetation die-off and light erosion was observed along a north portion of the drainage ditch, see Photo 3. TRC will continue to monitor.			
<b>Maintain surface water conveyances and the sedimentation basin by completing the following:</b>			
<b>Inspect drainage ditches for erosion, blockages, and vegetation, describe and note any issues:</b>			
<i>East Drainage Ditch</i> - Some light erosion to the north end of the north-to-south portion observed, see Photo 3. Some riprap has fallen from the west embankment of the northern culvert, see Photo 2. Riprap was removed from the drainage way and placed back on the embankment. TRC will continue to monitor this location to determine if riprap is unstable.			
<b>Inspect sedimentation basin banks and outfalls for erosion, describe and note any issues:</b> No erosion or other issues at sedimentation basin banks and outfalls.			
<b>Measure the distance between the invert of the sedimentation basin outlet and the top of the sediments accumulated in the basin (<i>June Only!</i>):</b> NA			

## Photographic Log


<b>Client Name:</b> Wisconsin Department of Natural Resources (WDNR)	<b>Site Location:</b> Refuse Hideaway Landfill Middleton, WI	<b>Project No.:</b> TRC #457573
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<b>Photo No.</b> 1	<b>Date</b> 5/26/2022	
<b>Description</b> <u>Western Drainage Ditch:</u> North portion contained vegetation die-off and wet soil conditions which may indicate that the area contains standing water at times. No standing water was observed at the time of the inspection.		

<b>Photo No.</b> 2	<b>Date</b> 5/26/2022	
<b>Description</b> <u>Eastern Drainage Ditch:</u> Some riprap has fallen at the west side of the western culvert and has accumulated in the drainage pathway. TRC cleared riprap from the drainage pathway and placed it back on the embankment.		



## Photographic Log

<b>Client Name:</b> Wisconsin Department of Natural Resources (WDNR)		<b>Site Location:</b> Refuse Hideaway Landfill Middleton, WI	<b>Project No.:</b> TRC #457573
<b>Photo No.</b> 3	<b>Date</b> 5/26/2022		
<b>Description</b> <u>Eastern Drainage Ditch:</u> Some vegetation die-off and light erosion observed along the drainage pathway at the north portion of the drainage ditch.			

<b>Photo No.</b> 4	<b>Date</b> 5/26/2022		
<b>Description</b> <u>Eastern Drainage Ditch:</u> No standing water observed during inspection at the eastern drainage ditch between GW-6 and GW-7. Vegetation growth observed with some minor bare spots. TRC will continue to monitor this area for evidence of ponding or slower drainage.			