



708 Heartland Trl.  
Suite 3000  
Madison, WI 53717

T 608.826.3600  
TRCcompanies.com

May 19, 2020

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

Subject: Refuse Hideaway Landfill  
May 2020 Landfill Gas Monitoring Results

Dear Cindy:

TRC completed the monthly gas probe monitoring at the Refuse Hideaway Landfill in Middleton, WI on May 11, 2020. Attached are the monitoring results. Pressure, methane, carbon dioxide, oxygen, and methane (% LEL) are measured during the monthly event.

The next monthly gas probe monitoring event will take place in June 2020.

If you have any questions, please contact me at [kvater@trccompanies.com](mailto:kvater@trccompanies.com) or 608-826-3663.

Sincerely,

TRC

A handwritten signature in black ink that reads "Katherine Vater".

Katherine Vater, PE  
Project Manager

Attachments

## REFUSE HIDEAWAY LANDFILL GAS PROBE MONITORING FORM

TECHNICIAN(S): J. Roelke \_\_\_\_\_

DATE: 5/11/2020 \_\_\_\_\_

START TIME: 8:20 AM \_\_\_\_\_

END TIME: 1:45 PM \_\_\_\_\_

GAS/INSTRUMENT TYPE: **GEM 2000** \_\_\_\_\_

SERIAL NO.: 11668 \_\_\_\_\_

DATE LAST CALIBRATED: 5/11/2020 \_\_\_\_\_

WEATHER CONDITIONS: cloudy \_\_\_\_\_

TEMPERATURE: 38°F \_\_\_\_\_

METHOD: Standard Calibration Gases \_\_\_\_\_

BAROMETRIC PRESSURE & TREND: 30.26 in Hg, rising \_\_\_\_\_

PRESS INSTRUMENT : Manometer \_\_\_\_\_

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	8:47	0.0	63	3.1	8.9	7.5	(2) Stable readings at 2 minuites
GP-1S	8:50	0.0	0.0	0.0	0.0	20.9	(2)
GP-2D	8:53	0.09	76	3.8	5.2	16.2	(1)
GP-2S	8:55	0.0	0.0	0.0	1.2	20.2	(1)
GP-3	9:02	0.0	>5	10.1	15.4	9.6	(1)
GP-4	9:08	0.0	0.0	0.0	2.3	18.4	(1)
GP-5	9:11	0.0	0.0	0.0	1.5	19.6	(2)
GP-6	9:18	0.0	0.0	0.0	0.0	20.9	(1)
GP-7	9:24	0.09	0.0	0.0	0.6	20.0	(2) Water in line, 57 sec. purge
GP-8	9:31	0.0	3.0	0.1	3.7	12.7	(2)
GP-9	9:41	0.0	0.0	0.0	4.2	15.8	(1)
GP-10	9:44	0.0	0.0	0.0	2.5	17.9	(1)
GP-11D	9:48	0.0	0.0	0.0	0.7	20.0	(2)
GP-11S	9:50	0.0	0.0	0.0	0.4	20.6	(2)
GP-12D	9:54	0.0	>5	16.9	17.2	6.5	(1) Stable readings at 3 minuites
GP-12S	9:58	0.0	0.0	0.0	0.7	19.0	(1)
GP-13D	10:02	0.0	7.0	0.3	2	17.4	(2)
GP-13S	10:04	0.0	0.0	0.0	1.5	18.9	(2)

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-16D	10:24	0.0	4.0	0.2	1.1	19.5	(2)
GP-16S	10:26	0.0	2.0	0.1	5.3	17.9	(2) Stable readings at 2 minunites
GP-17D	10:17	0.0	18	0.9	3.00	16.4	(1)
GP-17M	10:19	0.0	18	0.9	2.1	18.1	(1)
GP-17S	10:21	0.0	2.0	0.1	4.5	15.9	(1)
GP-18D	10:31	0.0	5.0	0.2	2.5	17.1	(3)
GP-18M	10:33	0.0	0.0	0.0	0.2	20.7	(3)
GP-18S	10:35	0.0	0.0	0.0	1.4	18.2	(3)
GP-19 <sup>85-100</sup>	11:18	0.0	0.0	0.0	1.5	19.6	(1)
GP-19 <sup>50-70</sup>	11:20	0.0	0.0	0.0	1.9	18.8	(1)
GP-19 <sup>25-40</sup>	11:22	0.0	0.0	0.0	1.3	19.8	(1)
GP19 <sup>2-15</sup>	11:24	0.0	0.0	0.0	2.1	19.3	(1)
GP-20 <sup>85-100</sup>	11:08	0.0	0.0	0.0	0.5	20.1	(2)
GP-20 <sup>50-70</sup>	11:10	0.0	0.0	0.0	0.6	20.3	(2)
GP-20 <sup>25-40</sup>	11:12	0.0	0.0	0.0	0.9	19.8	(2)
GP-20 <sup>2-15</sup>	11:14	0.0	0.0	0.0	1.8	18.8	(2)
GP-21 <sup>85-100</sup>	10:59	0.0	0.0	0.0	0.4	20.1	(2)
GP-21 <sup>50-70</sup>	11:01	0.0	0.0	0.0	0.4	20.3	(2)
GP-21 <sup>25-40</sup>	11:03	0.0	0.0	0.0	0.0	20.8	(2)
GP-21 <sup>2-15</sup>	11:05	0.0	0.0	0.0	0.6	20.2	(2)
GP-22 <sup>85-100</sup>	11:30	0.0	0.0	0.0	2.4	18.5	(2)
GP-22 <sup>50-70</sup>	11:32	0.0	0.0	0.0	0.9	19.9	(2)
GP-22 <sup>25-40</sup>	11:34	0.0	0.0	0.0	1.6	19.4	(2)
GP-22 <sup>2-15</sup>	11:36	0.0	0.0	0.0	2.3	18.7	(2)

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-23 <sup>85-100</sup>	11:41	0.0	0.0	0.0	0.5	20.0	(2)
GP-23 <sup>50-70</sup>	11:43	0.0	0.0	0.0	0.2	20.4	(2)
GP-23 <sup>25-40</sup>	11:45	0.0	0.0	0.0	0.1	20.6	(2)
GP-23 <sup>2-15</sup>	11:47	0.0	0.0	0.0	0.1	20.6	(2)
GP-24 <sup>85-100</sup>	11:51	0.0	0.0	0.0	0.1	20.5	(2)
GP-24 <sup>50-70</sup>	11:53	0.0	0.0	0.0	0.3	20.4	(2)
GP-24 <sup>25-40</sup>	11:55	0.0	0.0	0.0	0.1	20.6	(2)
GP-24 <sup>2-15</sup>	11:57	0.0	0.0	0.0	2.2	19.2	(2) Stable readings at 90 seconds
GPW-1D	13:21	0.0	0.0	0.0	1.4	19.0	(1)
GPW-1M	13:23	0.0	0.0	0.0	0.0	20.8	(1)
GPW-1S	13:25	0.0	0.0	0.0	1.0	19.9	(1)
G-1D	8:28	0.0	0.0	0.0	0.1	20.9	(1)
G-1S	8:30	0.0	>5	5.6	7.3	14.6	(1) Stable readings at 2 minunites
G-2D	10:07	0.0	0.0	0.0	2.7	19.0	(1)
G-2S	10:09	0.0	>5	11.5	18.7	0.1	(1) Stable readings at 3 minunites
G-5	9:34	0.0	0.0	0.0	2.8	17.6	(1)
G-6	8:38	0.0	0.0	0.0	0.2	20.8	(1)
G-8	10:53	0.0	0.0	0.0	0.1	18.1	(1)
G-9	10:43	0.0	0.0	0.0	0.8	17.1	(1)
G-10	12:08	-0.31	0.0	0.0	0.0	20.7	(1)
Speedway Office	8:43	open to ATM	0.0	0.0	0.0	20.9	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 5/11/2020  
Checked by: K. Vater 5/15/2020