



708 Heartland Trl.  
Suite 3000  
Madison, WI 53717

T 608.826.3600  
TRCcompanies.com

July 21, 2021

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

Subject: Refuse Hideaway Landfill  
July 2021 Landfill Gas Monitoring Results

Dear Cindy:

TRC completed the monthly gas probe monitoring at the Refuse Hideaway Landfill in Middleton, WI on July 20, 2021. 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 August 2021.

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: 7/20/2021

START TIME: 7:06AM

END TIME: 12:15 PM

GAS/INSTRUMENT TYPE: GEM 2000

SERIAL NO.: 11668

WEATHER CONDITIONS: sunny

DATE LAST CALIBRATED: 7/20/2021

TEMPERATURE: 62°F

METHOD: Standard Calibration Gases

BAROMETRIC PRESSURE & TREND: 30.09 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	7:27	0.0	10	0.5	12.0	5.0	(2)
GP-1S	7:29	0.0	84	4.2	17.1	0.0	(2)
GP-2D	7:31	0.0	56	2.7	11.7	7.7	(1)
GP-2S	7:33	0.0	96	4.8	19.2	0.0	(1) Stable readings at 2 minutes.
GP-3	7:37	0.0	>5	66.7	28.8	0.0	(1)
GP-4	7:43	0.0	0.0	0.0	9.6	13.5	(1)
GP-5	7:45	0.0	0.0	0.0	4.0	17.0	(2)
GP-6	7:51	0.0	0.0	0.0	4.7	15.0	(1)
GP-7	7:58	0.0	0.0	0.0	3.5	16.0	(2)
GP-8	8:06	0.0	0.0	0.0	11.0	9.5	(2) Stable readings at 2 minutes.
GP-9	8:15	0.0	0.0	0.0	5.3	16.2	(1)
GP-10	8:20	0.0	0.0	0.0	7.9	13.0	(1)
GP-11D	8:25	0.0	>5	5.5	15.9	0.3	(2) Stable readings at 2 minutes.
GP-11S	8:28	0.0	86	4.3	16.1	0.0	(2)
GP-12D	8:31	0.0	>5	6.7	12.8	8.6	(1) Stable readings at 2 minutes.
GP-12S	8:34	0.0	0.0	0.0	5.3	15.4	(1)
GP-13D	8:38	0.0	22	1.1	7.7	10.8	(2)
GP-13S	8:40	0.0	0.0	0.0	7.6	11.4	(2)

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-16D	9:00	0.0	0.0	0.0	1.2	19.2	(2)
GP-16S	9:02	0.0	0.0	0.0	3.4	17.7	(2)
GP-17D	8:53	0.0	0.0	0.0	4.7	15.0	(1)
GP-17M	8:55	0.0	0.0	0.0	4.0	17.3	(1)
GP-17S	8:57	0.0	0.0	0.0	5.0	16.4	(1)
GP-18D	9:07	0.0	6	0.3	3.2	15.9	(2)
GP-18M	9:09	0.0	0.0	0.0	3.9	16.9	(2)
GP-18S	9:11	0.0	0.0	0.0	8.7	11.2	(2) Stable readings at 2 minutes.
GP-19 <sup>85-100</sup>	10:09	0.0	0.0	0.0	0.0	20.8	(1)
GP-19 <sup>50-70</sup>	10:11	0.0	0.0	0.0	0.5	20.4	(1)
GP-19 <sup>25-40</sup>	10:13	0.0	0.0	0.0	0.2	20.7	(1)
GP19 <sup>2-15</sup>	10:15	0.0	0.0	0.0	0.0	20.8	(1)
GP-20 <sup>85-100</sup>	10:01	0.0	0.0	0.0	0.1	20.7	(2)
GP-20 <sup>50-70</sup>	10:03	0.0	0.0	0.0	0.0	20.8	(2)
GP-20 <sup>25-40</sup>	10:05	0.0	0.0	0.0	0.2	20.7	(2)
GP-20 <sup>2-15</sup>	10:07	0.0	0.0	0.0	0.4	20.6	(2)
GP-21 <sup>85-100</sup>	9:52	0.0	0.0	0.0	0.2	20.4	(2)
GP-21 <sup>50-70</sup>	9:54	0.0	0.0	0.0	0.0	20.8	(2)
GP-21 <sup>25-40</sup>	9:56	0.0	0.0	0.0	0.0	20.8	(2)
GP-21 <sup>2-15</sup>	9:58	0.0	0.0	0.0	0.5	20.4	(2)
GP-22 <sup>85-100</sup>	10:20	0.0	0.0	0.0	2.0	19.2	(2)
GP-22 <sup>50-70</sup>	10:22	0.0	0.0	0.0	0.5	20.4	(2)
GP-22 <sup>25-40</sup>	10:24	0.0	0.0	0.0	1.0	19.9	(2)
GP-22 <sup>2-15</sup>	10:26	0.0	0.0	0.0	1.9	19.3	(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>	10:31	0.0	0.0	0.0	0.3	20.6	(2)
GP-23 <sup>50-70</sup>	10:32	0.0	0.0	0.0	0.2	20.7	(2)
GP-23 <sup>25-40</sup>	10:34	0.0	0.0	0.0	0.5	20.4	(2)
GP-23 <sup>2-15</sup>	10:36	0.0	0.0	0.0	2.7	18.8	(2)
GP-24 <sup>85-100</sup>	10:40	0.0	0.0	0.0	0.3	20.6	(2)
GP-24 <sup>50-70</sup>	10:42	0.0	0.0	0.0	0.2	20.6	(2)
GP-24 <sup>25-40</sup>	10:44	0.0	0.0	0.0	0.5	20.4	(2)
GP-24 <sup>2-15</sup>	10:46	0.0	0.0	0.0	2.4	18.9	(2)
GPW-1D	12:00	0.14	0.0	0.0	2.0	18.4	(1)
GPW-1M	12:02	0.13	0.0	0.0	1.3	18.6	(1)
GPW-1S	12:04	0.0	0.0	0.0	1.0	19.9	(1)
G-1D	7:19	0.0	>5	5.1	19.5	0.0	(1)
G-1S	7:22	0.0	>5	9.9	22.3	0.1	(1)
G-2D	8:46	0.0	0.0	0.0	1.4	19.0	(1)
G-2S	8:48	0.0	>5	6.8	17.5	2.2	(1)
G-5	8:03	0.0	0.0	0.0	6.3	15.4	(1)
G-6	7:13	0.0	0.0	0.0	0.6	20.2	(1)
G-8	9:47	0.0	0.0	0.0	0.0	20.7	(1)
G-9	9:22	0.0	0.0	0.0	0.0	19.7	(1)
G-10	10:53	0.28	0.0	0.0	0.0	20.8	(1)
Speedway Office	7:25	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 7/21/2021

Checked by: K. Vater 7/21/2021