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July 7, 2020

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

Subject: Refuse Hideaway Landfill
July 2020 Landfill Gas Monitoring Results

Dear Cindy:

TRC completed the monthly gas probe monitoring at the Refuse Hideaway Landfill in Middleton, WI on July 1, 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 August 2020.

If you have any questions, please contact me at kvater@trccompanies.com or 608-826-3663.

Sincerely,

TRC

A handwritten signature in black ink, appearing to read "Katherine Vater".

Katherine Vater, PE
Project Manager

Attachments

**REFUSE HIDEAWAY LANDFILL
GAS PROBE MONITORING FORM**

TECHNICIAN(S): J. Roelke

DATE: 7/1/2020

START TIME: 6:38 AM

END TIME: 12:45 PM

GAS/INSTRUMENT TYPE: **GEM 2000**

SERIAL NO.: 11668

WEATHER CONDITIONS: sunny

DATE LAST CALIBRATED: 7/1/2020

TEMPERATURE: 71°F

METHOD: Standard Calibration Gases

BAROMETRIC PRESSURE & TREND: 29.92 & 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	7:14	0.0	>5	11.0	17.2	0.0	(2)
GP-1S	7:16	0.0	>5	25.4	24.7	0.0	(2)
GP-2D	7:20	0.0	>5	12.4	13.0	6.4	(1)
GP-2S	7:22	0.0	>5	16.2	18.8	0.0	(1) Stable readings at 90 sec. purge
GP-3	7:29	0.0	>5	62.6	37.2	0.0	(1) Stable readings at 90 sec. purge
GP-4	7:36	0.0	0.0	0.0	0.9	20.1	(1) Water in probe at 58 seconds
GP-5	7:41	0.0	0.0	0.0	2.0	17.1	(2) Stable readings at 2 minute purge
GP-6	7:52	0.0	0.0	0.0	0.0	20.7	(1)
GP-7	8:06	0.09	0.0	0.0	0.7	19.8	(2) Water in probe at 45 seconds
GP-8	8:12	-0.15	0.0	0.0	5.8	10.5	(2) Water in probe at 51 seconds
GP-9	8:23	0.0	0.0	0.0	7.6	10.4	(1)
GP-10	8:27	0.0	0.0	0.0	3.8	13.4	(1)
GP-11D	8:34	0.0	0.0	0.0	8.2	1.6	(2)
GP-11S	8:36	0.0	7	0.3	8.1	0.0	(2)
GP-12D	8:41	0.0	>5	13.9	18.4	3.6	(1) Stable readings at 2 minute purge
GP-12S	8:44	0.0	>5	11.2	12.1	0.0	(1) Stable readings at 2 minute purge
GP-13D	8:50	0.0	53	2.6	9.4	6.4	(2)
GP-13S	8:52	0.0	50	2.5	9.6	0.2	(2)

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-16D	9:16	0.0	3	0.1	3.1	15.8	(2)
GP-16S	9:18	0.0	0.0	0.0	7.2	12.8	(2)
GP-17D	9:07	0.0	38	1.9	7.7	8.7	(1)
GP-17M	9:09	0.0	52	2.6	9.0	8.6	(1) Stable readings at 2 minute purge
GP-17S	9:12	0.0	0	0.0	12.3	8.7	(1) Stable readings at 2 minute purge
GP-18D	9:24	0.0	11	0.5	5.0	12.6	(3)
GP-18M	9:26	0.0	40	2.0	9.6	9.3	(3)
GP-18S	9:28	0.0	>5	11.0	13.4	3.4	(3)
GP-19 ⁸⁵⁻¹⁰⁰	9:59	0.0	0.0	0.0	0.7	19.7	(1)
GP-19 ⁵⁰⁻⁷⁰	10:01	0.0	0.0	0.0	0.2	20.7	(1)
GP-19 ²⁵⁻⁴⁰	10:03	0.0	0.0	0.0	0.0	20.9	(1)
GP19 ²⁻¹⁵	10:05	0.0	0.0	0.0	0.6	20.3	(1)
GP-20 ⁸⁵⁻¹⁰⁰	10:09	0.0	0.0	0.0	0.3	20.5	(2)
GP-20 ⁵⁰⁻⁷⁰	10:11	0.0	0.0	0.0	0.1	20.8	(2)
GP-20 ²⁵⁻⁴⁰	10:13	0.0	0.0	0.0	0.4	20.5	(2)
GP-20 ²⁻¹⁵	10:15	0.0	0.0	0.0	1.0	19.8	(2)
GP-21 ⁸⁵⁻¹⁰⁰	10:21	0.0	0.0	0.0	0.0	20.9	(2)
GP-21 ⁵⁰⁻⁷⁰	10:23	0.0	0.0	0.0	0.7	20.3	(2)
GP-21 ²⁵⁻⁴⁰	10:25	0.0	0.0	0.0	0.2	20.7	(2)
GP-21 ²⁻¹⁵	10:27	0.0	0.0	0.0	0.0	20.9	(2)
GP-22 ⁸⁵⁻¹⁰⁰	10:39	0.0	0.0	0.0	4.3	15.8	(2) Stable readings at 90 sec. purge
GP-22 ⁵⁰⁻⁷⁰	10:42	0.0	0.0	0.0	1.0	19.8	(2)
GP-22 ²⁵⁻⁴⁰	10:44	0.0	0.0	0.0	2.5	18.0	(2)
GP-22 ²⁻¹⁵	10:46	0.0	0.0	0.0	4.1	16.0	(2)

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-23 ⁸⁵⁻¹⁰⁰	10:53	0.0	0.0	0.0	0.0	20.9	(2)
GP-23 ⁵⁰⁻⁷⁰	10:55	0.0	0.0	0.0	0.1	20.7	(2)
GP-23 ²⁵⁻⁴⁰	10:57	0.0	0.0	0.0	0.0	20.9	(2)
GP-23 ²⁻¹⁵	10:59	0.0	0.0	0.0	0.3	20.6	(2)
GP-24 ⁸⁵⁻¹⁰⁰	11:05	0.0	0.0	0.0	0.2	20.7	(2)
GP-24 ⁵⁰⁻⁷⁰	11:07	0.0	0.0	0.0	0.4	20.5	(2)
GP-24 ²⁵⁻⁴⁰	11:09	0.0	0.0	0.0	0.1	20.8	(2)
GP-24 ²⁻¹⁵	11:11	0.0	0.0	0.0	3.6	16.6	(2)
GPW-1D	12:21	-0.15	0.0	0.0	1.7	18.1	(1)
GPW-1M	12:23	-0.14	0.0	0.0	0.0	20.9	(1)
GPW-1S	12:25	0.0	0.0	0.0	1.2	19.0	(1)
G-1D	6:56	0.0	>5	18.9	22.7	0.0	(1)
G-1S	6:58	0.0	>5	41.7	31.9	0.0	(1)
G-2D	8:56	0.0	0.0	0.0	3.3	17.4	(1)
G-2S	8:58	0.0	>5	8.5	17.5	0.1	(1)
G-5	8:18	-0.19	0.0	0.0	3.4	14.1	(1) Water in probe at 52 seconds
G-6	7:05	0.0	0.0	0.0	0.7	20.2	(1)
G-8	9:52	0.0	0.0	0.0	0.0	20.9	(1)
G-9	9:39	0.0	0.0	0.0	0.1	19.3	(1)
G-10	11:19	-0.25	0.0	0.0	0.0	20.9	(1)
Speedway Office	7:11	0.0	0.0	0.0	0.1	20.7	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 7/7/2020
Checked by: K. Vater 7/7/2020