

November 13, 2019

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

Subject: Refuse Hideaway Landfill October 2019 Landfill Gas Monitoring Results

Dear Cindy:

TRC completed the monthly gas probe monitoring at the Refuse Hideaway Landfill in Middleton, WI on October 30, 2019. Attached are the monitoring results for October 2019. Pressure, methane, carbon dioxide, oxygen, and methane (% LEL) are measured during the monthly event.

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

Sincerely,

TRC

fithe Vate

Katherine Vater, PE Project Manager

Attachments

cc: Meredith Westover - TRC

GAS PROBE MONITORING FORM REFUSE HIDEAWAY LANDFILL

	REFU	SE HIDEAW	AY LANDFILI	-				
TECHNICIAN(S):	J. Roelke			DATE: START TIME:	10/30/1 9 gm	9		
INSTRUMENT TYPE:				END TIME:	1400	t.		
SERIAL NO.: LAST CALIBRATED:		119		R CONDITIONS: EMPERATURE:	Cloudy 340F			
METHOD: PRESS. INSTRUMENT :	Standard Cal. Ga Manometer	ases BARC	OMETRIC PRESS	SURE & TREND: D CONDITIONS:	30,34 m meist/	Ha, Fal	ing	
GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)		
GP-1D	0927	0.0	26	1,3	5.2	14,6		
GP-1S	0929	0.0	0.0	0.0	0.1	21,0		
GP-2D	0935	0,0	10	0.5	2.3	18,8		
GP-2S	0937	0,0	0.0	0.0	0,1	21.0		
GP-3	0941	0,0	36	1,8	8.5	13.1		
GP-4	0946	0.0	4	0.2	6.0	19.3		
GP-5	0951	0.0	0.0	0.0	2.4	19,1		
GP-6	0958	0.0	0.0	0.0	0.3	20,4		
GP-7	1005	0.0	0.0	0.0	0.9	19.8		
GP-8	1013	0.0	0-0	0.0	2.7	19.4	16.2 3	13
GP-9	1026	0.0	0.0	0.0	2,0	19,4		
GP-10	1033	0.0	0.0	0.0	5.2	15.6		
GP-11D	1038	0.0	0.0	0.0	0.4	20.3		
GP-11S	1040	0.0	0.0	0.0	1.6	19,2		
GP-12D	1048	00	92	4.6	6.4	15.0		
GP-12S	1050	0.0	0.0	0,0	5.0	15.8		
GP-13D	1057	0.0	4	0.2	1,3	19.4		
GP-13S	1059	0.0	0.0	0,0	1.9	19,5		
GP-16D	1116	0.0	0.0	0,0	3,2	17.6		
GP-16M	NM	pm	NM	NM	NM	NM		
GP-16S	1,118	0,0	0.0	0.0	4.6	18.7		
GP-17D 54	40,10	0.0	0.0	0,0	1.8	18.7		
GP-17M	11	0.0	0.0	0,0	0.1	20.6		
GP-17S	11 14	0.0	0.0	0.0	0.1	20.7		
GP-18D	11 22	0:0	0.0	0.0	6.9	11,1		
GP-18M	1124	0.0	92	4.6	9.5	5,2		
GP-18S	1126	-0.16	0.0	0,0	0,2	20.5		

4 R 130/19

Providence (NP-33) 13 Pariate Hasters 2000 Workship Fee Arch Protection State (2011) 34 2019

		PRESSURE	METHANE	METHANE	CARBON DIOXIDE	OXYGEN	
GAS PROBE NAME GP-19 ⁸⁵⁻¹⁰⁰	Time	(in. WC)	(% LEL)	(%, by vol.)	(%, by vol.)	(%, by vol.) 19,5	
GP-19 GP-19 ⁵⁰⁻⁷⁰	1201	0,0	0.0	0.0	1000	18.3	
GP-19 GP-19 ²⁵⁻⁴⁰	1203	0.0	0,0	0,0	3.0	18.5	
GP-19 GP19 ²⁻¹⁵	1205	0.0	0,0	0.0	2.6	14,6	
GP-20 ⁸⁵⁻¹⁰⁰	1207	0.0		0,0	0.3	20:3	
GP-20 GP-20 ⁵⁰⁻⁷⁰	1150	0.0	0.0	0.0	1.7	19,2	
GP-20 GP-20 ²⁵⁻⁴⁰	1154	0,0	0.0	0.0	3.12.3	18,6	SAR
GP-20	1156	0.0	0.0	0.0	3.1	18,0	10130114
GP-21 ⁸⁵⁻¹⁰⁰	1138	0.0	0.0	0,0	0.7	20.4	19,850 e
GP-21 GP-21 ⁵⁰⁻⁷⁰	1140	0.0	0,0	0.0	0.3	20.4	10130/19
GP-21 ²⁵⁻⁴⁰			0.0	0.0	1.6	19,4	
GP-21 ²⁻¹⁵	1142	0.0	0,0	0.0	1,9	18.7	
GP-22 ⁸⁵⁻¹⁰⁰	1238	0.0	0.0	0.0	5.4	16.5	
GP-22 ⁵⁰⁻⁷⁰	1240	0,0	0.0	0.0	1,8	12.2	
GP-22 ²⁵⁻⁴⁰	1242	0.0	0.0	0.0	2.4	19,2	
GP-22 ²⁻¹⁵	1244	0.0	0.0	0,0	75	145	
GP-23 ⁸⁵⁻¹⁰⁰	1252	0.0	0,0	0.0	1.43	18,1	314 10130/14
GP-23 ⁵⁰⁻⁷⁰	1254	0.0	0.0	0.0	103	4.9	a second
GP-23 ²⁵⁻⁴⁰	1256	0.0	10	0.5	13,3	0.2	
GP-23 ²⁻¹⁵	1250	0.0	0.0	0.0	4,2	16.5	
GP-24 ⁸⁵⁻¹⁰⁰	1303	0.0	0.0	0.0	0.6	20.3	
GP-24 ⁵⁰⁻⁷⁰	1305	0,0	0.0	0.0	0.3	20.5	
GP-24 ²⁵⁻⁴⁰	1307		0.0	0.0	0,4	20,4	
GP-24 ²⁻¹⁵	1309	0.0	0.0	0,0	4.0	18.1	
GPW-1D	1346	10,64	0.0	0.0	4.2	15.1	
GPW-1M	1348	+0.59	0.0	0.0	1.4	18.9	
GPW-1S	1350	open to ATM	0,0	0.0	5.1	13.9	
G-1D	0906	0,0	0.0	0.0	0,2	20.5	1
G-1S	0908	0.0	2	0.1	0.9	19.5	
G-2D	1103	0,0	0.0	0.0	0.7	20.4	
G-2S	1105	0.0	0.0	0.0	0.1	20.7	
G-5	1018	0.0	0.0	0.0	4,5	15.9	
G-6	0918	0.0	0.0	0.0	0.8	20,0	
G-8	1212	0.0	0.0	0.0	0.1	20.1	
G-9	1221	0.0	0.0	0.0	0,9	15.4	
G-10	1316	10,48	0.0	0,0	0,3	20,4	
Speedway Office	0932	0.0	0.0	0.0	0.1	21.0	

Checked by K. Vater 11/11/19

inter A 2NR 335713 Peruse mean av 2000 Vensoring? an Wark Proper Bank Form 13 4 0011