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Landfill Gas Monitoring – Subsurface Gas

EPL No: 4627

Date of Sampling 15, 17, 19, 24 and 25 March 2021

Date Received 20 April 2021

Date of Publication 7 May 2021

Subsurface landfill gas monitoring is usually a number of measurements taken over time with two events. The first event is initial measurements and the second event is measurements after the air space in the well has been pumped out. The highest measurement in the first (initial) and second (post-purge) events are reported in the following table.

Where the groundwater level is above the well screen the high water level can interfere with the monitoring equipment and no measurement/s can be taken.

Monitoring Point	EPA Identification Number	Frequency	Pollutant									
			Carbon Dioxide (%v/v)		Carbon Monoxide (ppm)		Hydrogen Sulphide (ppm)		Methane (%v/v)		Oxygen (%v/v)	
			Initial	Post Purge	Initial	Post Purge	Initial	Post Purge	Initial	Post Purge	Initial	Post Purge
LDS-GM-001	22	Quarterly	0	0	0	0	0	0	0	0	19.7	0.3
LDS-GM-002	23	Quarterly	11.7	10.5	0	0	0	0	0	0	16.9	10.4
LDS-GM-003A	24	Quarterly	7.0	4.7	0	0	0	0	0	0	18.7	15.4
LDS-GM-003B	25	Quarterly	High water level in well									
LDS-GM-004	26	Quarterly	7.0	6.9	0	1	0	0	7.5	7.8	18.9	0.2
LDS-GM-005	27	Quarterly	8.4	8.5	0	0	0	0	0	0	18.9	10.9

Monitoring Point	EPA Identification Number	Frequency	Pollutant									
			Carbon Dioxide (%v/v)		Carbon Monoxide (ppm)		Hydrogen Sulphide (ppm)		Methane (%v/v)		Oxygen (%v/v)	
			Initial	Post Purge	Initial	Post Purge	Initial	Post Purge	Initial	Post Purge	Initial	Post Purge
LDS-GM-006A	28	Quarterly	14.8	13.2	1	0	0	0	0	0	16.9	10.7
LDS-GM-006B	29	Quarterly	11.9	NR1	0	NR1	0	NR1	0	NR1	16.7	NR1
LDS-GM-007A	30	Quarterly	10.2	10.2	0	0	0	0	0	0	18.7	8.6
LDS-GM-007B	31	Quarterly	High water level in well									
LDS-GM-008A	32	Quarterly	1.5	0.1	0	0	0	0	0	0	20.5	20.5
LDS-GM-008B	33	Quarterly	High water level in well									
LDS-GM-009C	34	Quarterly	14.1	NR2	4	NR2	0	NR2	0	NR2	12.9	NR2
LDS-GM-009D	35	Quarterly	10.5	NR2	6	NR2	0	NR2	0	NR2	18.9	NR2
LDS-GM-010A	36	Quarterly	2.3	0.7	0	0	0	0	0	0	20.2	20.1
LDS-GM-010B	37	Quarterly	5.8	9.3	0	1	0	0	0.7	1.3	19.9	7.0
LDS-GM-011A	38	Quarterly	0.1	0	0	0	0	0	0	0	20.5	13.5
LDS-GM-012C	39	Quarterly	8.6	9.4	0	0	0	0	0	0	19.0	10.9
LDS-GM-012D	40	Quarterly	5.5	0.6	0	0	0	0	0	0	20.6	19.9
LDS-GM-013	41	Quarterly	6.4	7.0	0	0	0	0	88.7	87.9	19.7	0
LDS-GM-014	42	Quarterly	No Access									
LDS-GM-015	43	Quarterly	3.1	3.0	0	0	0	0	0	0	20.6	0.9
LDS-GM-016	44	Quarterly	3.0	2.8	1	0	0	0	0.2	0.2	21.0	1.2
LDS-GM-017	45	Quarterly	1.8	2.8	1	0	0	0	1.8	2.5	19.0	0
LDS-GM-018	46	Quarterly	0.8	1.0	0	1	0	0	0	0	19.7	13.3
LDS-GM-019	47	Quarterly	2.1	2.1	0	0	0	0	0.8	0.8	18.8	0
LDS-GM-020	48	Quarterly	5.4	6.1	0	0	0	0	0	0	18.7	9.3

Monitoring Point	EPA Identification Number	Frequency	Pollutant									
			Carbon Dioxide (%v/v)		Carbon Monoxide (ppm)		Hydrogen Sulphide (ppm)		Methane (%v/v)		Oxygen (%v/v)	
			Initial	Post Purge	Initial	Post Purge	Initial	Post Purge	Initial	Post Purge	Initial	Post Purge
LDS-GM-021	49	Quarterly	7.6	10.5	1	0	0	0	0	0	19.7	8.7
LDS-GM-022A	50	Quarterly	11.1	11.1	1	0	0	0	0	0	18.7	3.0
LDS-GM-023	51	Quarterly	0.1	0	0	0	0	0	0	0	20.3	11.7
LDS-GM-024A	52	Quarterly	4.0	3.6	0	0	0	1	0	0	19.2	14.2
LDS-GM-024B	53	Quarterly	1.4	1.5	0	0	0	0	1.0	0.9	16.8	1.9
LDS-GM-025	54	Quarterly	3.4	3.4	0	0	0	0	0	0	20.7	18.7
LDS-GM-026	55	Quarterly	4.6	4.2	0	0	0	0	0	0	18.9	6.1
LDS-GM-027	56	Quarterly	5.2	4.9	0	0	0	0	0	0	20.2	6.4
LDS-GM-028	57	Quarterly	32.0	32.1	0	0	0	0	62.8	62.7	19.7	0.0
LDS-GM-029	58	Quarterly	6.3	6.0	0	0	2	3	0.6	0.6	20.0	1.3
LDS-GM-030	59	Quarterly	16.5	16.4	0	0	0	0	0	0	18.7	4.0
LDS-BH-10321A	17	Quarterly	20.6	18.4	1	1	1	1	0	0.3	18.7	1.8
LDS-BH-10322	18	Quarterly	8.3	8.0	0	0	0	0	0	0	19.2	0.7
LDS-BH-10329	19	Quarterly	Well destroyed									
LDS-BH-10331	20	Quarterly	No Access									
LDS-BH-10332	21	Quarterly	6.5	6.2	0	0	0	0	0.7	0.5	18.9	0
LDS-GV-48	60	Quarterly	9.1	9.0	1	1	0	0	8.2	8.2	19.1	0.9
LDS-GV-49	61	Quarterly	24.6	24.5	2	1	0	0	40.0	40.2	20.2	0.3
LDS-GV-50	62	Quarterly	18.9	18.6	0	0	6	39	29.2	27.7	18.7	0

NOTES:

- EPL - Environment Protection Licence
- %v/v - percentage by volume
- ppm - parts per million
- NR1 - no result 1 – the water level too high to take measurement
- NR2 - no result 2 – high vacuum in well prevented completion of purging with no final measurement
- No Access- well was inaccessible due to continuing construction activities blocking access that couldn't be resolved in time for the monitoring event.

The wells LDS-GM-002, LDS-GM-003A and LDS-GM-003B were destroyed before the present monitoring program started in October 2020. Replacement wells have been installed adjacent to destroyed wells with the same depth and well screens