

**TIER 3**

**ENVIRONMENTAL RISK ASSESSMENT**

**APPENDIX B**

**GAS MONITORING RESULTS**



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Landfill Gas Monitoring Results - GW 1 (Tier 2 M1 - M14) (Tier 3 M15 - M20)

Monitoring Well I.D	Monitoring Event	Monitoring Date	Reading	Monitoring Time	Stable Methane (CH <sub>4</sub> )	Peak Methane CH <sub>4</sub>	Carbon Dioxide (CO <sub>2</sub> )	Oxygen (O <sub>2</sub> )	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H <sub>2</sub> S	Barometric Pressure
			Units	min	%	%	%	%	%	ppm	ppm	mb
<b>Tier 2 - Landfill Gas Monitoring Events M1 - M14</b>												
<b>GW 1</b>	M1	11/07/2013	1	13:50	0.4	0.4	6.3	9.6	83.7	0	1	1012
			2	15:20	0.4	0.4	4.6	11.5	83.4	1	1	1012
	M2	16/07/2013	1	13:55	0.4	0.4	6.8	10.9	81.8	0	0	1009
			2	14:07	0.3	0.3	7.5	9.4	82.5	0	0	1009
	M3	18/07/2013	1	14:38	0.3	0.4	5.5	13.8	80.3	1	1	1012
			2	14:52	0.2	0.3	6.5	12	81.2	0	1	1012
	M4	22/07/2013	1	16:06	0.1	0.1	1.4	19	79.5	0	0	998
			2	16:25	0	0.1	1.4	19	79.4	1	0	998
	M5	26/07/2013	1	15:45	0	0.1	7	11	81.5	0	0	996
			2	15:59	0.1	0.1	7.4	10.6	81.7	1	0	995
	M6	29/07/2013	1	16:31	0.3	0.3	6.9	12.5	80.3	0	0	992
			2	16:46	0.2	0.2	7.1	12	80.6	1	0	991
	M7	02/08/2013	1	12:56	0.1	0.1	4.9	15.2	79.7	0	0	1006
			2	13:11	0.1	0.2	5.6	14.3	80	0	0	1006
	M8	06/08/2013	1	10:45	0.1	0.1	5.6	15.3	79	0	0	999
			2	10:59	0.1	0.1	7.9	10.4	81.3	0	0	999
	M9	09/08/2013	1	13:31	0.2	0.2	4.1	10.8	84.9	0	0	1004
			2	13:45	0.1	0.1	3.7	11.2	84.8	0	0	1004
	M10	12/08/2013	1	13:58	0.2	0.2	2	12.6	85	0	0	1002
			2	14:14	0.2	0.2	1.9	12.6	85.2	0	0	1002
	M11	16/08/2013	1	12:45	0.1	0.1	8.4	10.3	80.5	0	0	997
			2	12:59	0.1	0.1	8.8	10	80.4	0	0	997

M12	21/08/2013	1	12:38	0.2	0.2	3	12	84.8	0	0	1002
		2	12:50	0.2	0.2	2.6	12.2	85	0	0	1002
M13	23/08/2013	1	10:57	0.1	0.2	4.3	16.8	78.6	0	0	996
		2	11:12	0.1	0.2	5	16.1	78.7	0	0	996
M14	26/08/2013	1	12:42	0.1	0.1	4	16.4	79.5	0	0	1006
		2	12:55	0.1	0.1	4.1	16.2	79.6	0	0	1006
<b>Tier 3 - Landfill Gas Monitoring Events M15 - M20</b>											
M15	12/03/2014	1	10:00	0.2	0.2	1.4	19.1	79.2	0	0	1015
		2	10:05	0.2	0.2	1.7	19	79	0	0	1015
M16	13/03/2014	1	11:00	0.2	0.2	2	18.5	79.2	0	0	1014
		2	11:07	0.2	0.2	2	18.7	79.1	0	0	1014
M17	15/03/2014	1	13:05	0.2	0.2	7	6	86.7	0	0	1012
		2	13:08	0.2	0.2	7.6	5.5	87	0	0	1011
M18	16/03/2014	1	10:30	0.2	0.2	6.8	8.6	84.4	0	0	1009
		2	10:38	0.2	0.2	7.5	6.7	88.4	0	0	1010
M19	18/03/2014	1	14:05	0.1	0.1	8.1	6.6	85.1	0	0	999
		2	14:10	0.1	0.1	8	6.5	85.4	0	0	999
M20	20/03/2014	1	09:30	0.2	0.2	8.4	5.9	85.5	0	0	999
		2	09:35	0.2	0.2	8.4	5.7	85.6	0	0	999

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Landfill Gas Monitoring Results - GW 2 (Tier 2 M1 - M14) (Tier 3 M15 - M20)

Monitoring Well I.D	Monitoring Event	Monitoring Date	Reading	Monitoring Time	Stable Methane (CH <sub>4</sub> )	Peak Methane CH <sub>4</sub>	Carbon Dioxide (CO <sub>2</sub> )	Oxygen (O <sub>2</sub> )	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H <sub>2</sub> S	Barometric Pressure
			Units	min	%	%	%	%	%	ppm	ppm	mb
GW 2	<b>Tier 2 - Landfill Gas Monitoring Events M1 - M14</b>											
			1	13:41	2.7	2.7	6.3	0.7	90.2	4	1	1012
	M1	11/07/2013	2	15:17	2.9	2.9	6.3	0.8	90	4	0	1012
	M2	16/07/2013	1	13:52	3.2	3.2	6.7	0.6	89.4	0	0	1009
			2	14:04	2.8	2.8	6.7	0.6	89.8	2	0	1009
	M3	18/07/2013	1	14:34	2.6	2.6	6.9	0.7	89.6	2	0	1012
			2	14:50	2.5	2.5	6.9	0.5	90.1	4	0	1012
	M4	22/07/2013	1	16:01	2.2	2.2	9.1	0.8	87.9	1	0	998
			2	16:20	1.9	1.9	9.4	1.1	87.6	3	0	998
	M5	26/07/2013	1	15:41	2.4	2.4	7.9	0.4	89.2	2	0	995
			2	15:56	2.4	2.4	7.9	0.4	89.2	0	0	995
	M6	29/07/2013	1	16:34	2.7	2.7	7.1	0.7	89.5	2	0	992
			2	16:50	2.8	2.8	7.2	0.8	89.2	1	0	992
	M7	02/08/2013	1	12:50	3.2	3.2	6	3.6	87.1	0	0	1005
			2	13:07	3.1	3.2	6	0.2	90.6	0	0	1005
	M8	06/08/2013	1	10:41	3	3	6.5	0.2	90.2	0	0	999
			2	10:54	3	3	6.4	0.2	90.3	0	0	999
	M9	09/08/2013	1	13:34	1.9	1.9	6.7	0.7	90.7	0	0	1004
			2	13:48	1.7	1.7	6.6	1.3	90.1	0	0	1004
	M10	12/08/2013	1	13:55	2.4	2.5	6.6	0.4	90.5	0	0	1002
			2	14:10	2.3	2.4	6.5	0.4	90.7	0	0	1002
	M11	16/08/2013	1	12:42	3	3	6.2	0.5	90.2	0	0	997
2			12:56	3	3	6.3	0.6	90	0	0	997	

M12	21/08/2013	1	12:33	1.9	1.9	5.7	2.7	89.7	0	0	1003
		2	12:47	1.7	1.7	5.4	3.4	89.4	0	0	1002
M13	23/08/2013	1	10:51	3.8	3.8	6.2	0.1	89.8	0	0	996
		2	11:08	3.8	3.8	6.4	0	89.7	0	0	996
M14	26/08/2013	1	12:45	3	3	6	4.7	86.1	0	0	1006
		2	12:58	3	3	6.1	0.2	90.7	0	0	1006
<b>Tier 3 - Landfill Gas Monitoring Events M15 - M20</b>											
M15	12/03/2014	1	10:15	3.3	3.4	7	0.5	89.1	0	0	1015
		2	10:19	3.1	3.1	7	0.5	89.4	0	0	1015
M16	13/03/2014	1	11:16	3	2.9	7.2	1.2	88.6	0	0	1015
		2	11:20	2.9	2.9	7.6	1.1	88.4	0	0	1015
M17	15/03/2014	1	13:15	4	4.1	7.3	0.5	88.1	0	0	1012
		2	13:18	3.7	3.8	7.2	1	87.8	0	0	1011
M18	16/03/2014	1	10:45	3.6	3.6	7.4	0.3	88.5	0	0	1009
		2	10:50	3.4	3.9	7.2	0.6	88.8	0	0	1010
M19	18/03/2014	1	14:15	3.9	3.9	7.7	0.6	87.6	0	0	999
		2	14:19	3.8	3.8	7.5	0.4	88.3	0	0	999
M20	20/03/2014	1	09:40	3.5	3.6	7.3	0.9	88.3	0	0	999
		2	09:44	3.6	3.6	7.2	0.8	88.4	0	0	999

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Landfill Gas Monitoring Results - GW 3 (Tier 2 M1 - M14) (Tier 3 M15 - M20)

Monitoring Well I.D	Monitoring Event	Monitoring Date	Reading	Monitoring Time	Stable Methane (CH <sub>4</sub> )	Peak Methane CH <sub>4</sub>	Carbon Dioxide (CO <sub>2</sub> )	Oxygen (O <sub>2</sub> )	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H <sub>2</sub> S	Barometric Pressure
			Units	min	%	%	%	%	%	ppm	ppm	mb
GW3	Tier 2 - Landfill Gas Monitoring Events M1 - M14											
	M1	11/07/2013	1	14:00	0.4	0.4	3.5	11.3	84.9	3	0	1012
			2	15:13	0.3	0.3	1.7	14.3	83.6	2	1	1012
	M2	16/07/2013	1	13:49	0.1	0.2	1.6	17.9	80.3	0	0	1009
			2	14:01	0.2	0.2	1.6	17.9	80.2	0	0	1009
	M3	18/07/2013	1	14:30	0.2	0.2	1.9	17.1	80.8	3	1	1013
			2	14:48	0.2	0.2	1.9	17	80.9	1	1	1012
	M4	22/07/2013	1	15:55	0.1	0.1	0.9	19.2	79.8	0	0	998
			2	16:14	0.1	0.1	1.2	18.9	79.7	2	0	998
	M5	26/07/2013	1	15:37	0	0.1	2.1	17.6	80.3	0	0	995
			2	15:53	0.1	0.1	1.7	18.3	79.8	0	0	995
	M6	29/07/2013	1	16:37	0.2	0.2	1.9	16.9	81	0	0	993
			2	16:53	0.1	0.2	1.9	17.9	80.1	0	0	992
	M7	02/08/2013	1	12:47	0.1	0.2	5.3	11.5	83	0	0	1005
			2	13:02	0.2	0.2	5.4	11.3	83.1	0	0	1005
	M8	06/08/2013	1	10:37	0.3	0.3	6.1	9.8	83.7	0	0	999
			2	10:51	0.2	0.2	4.5	13.3	82	0	0	999
	M9	09/08/2013	1	13:37	0.2	0.2	7.3	6.1	86.3	0	0	1004
			2	13:52	0.2	0.2	7.9	5.2	86.5	1	0	1004
	M10	12/08/2013	1	13:51	0.9	0.9	10.9	2.4	85.8	0	0	1002
			2	14:07	0.9	0.9	11.2	1.5	86.2	0	0	1004
	M11	16/08/2013	1	12:39	0.5	0.5	7.4	3.6	88.4	0	0	997
2			12:53	0.5	0.5	7.6	3.2	88.6	0	0	997	

M12	21/08/2013	1	12:30	0.1	0.2	1.7	17.3	80.7	0	0	1003
		2	12:44	0.1	0.1	2.1	16.7	81.2	0	0	1002
M13	23/08/2013	1	10:48	0.2	0.2	2.8	15.7	81.3	0	0	996
		2	11:03	0.1	0.1	2.6	16.2	81	0	0	996
M14	26/08/2013	1	12:48	0.2	0.2	4.6	13	82.2	0	0	1006
		2	13:01	0.2	0.2	4.8	12.9	82	0	0	1006
<b>Tier 3 - Landfill Gas Monitoring Events M15 - M20</b>											
M15	12/03/2014	1	10:30	0.3	0.3	3.7	8.5	87.5	0	0	1015
		2	10:38	0.3	0.3	3.9	8.4	87.4	0	0	1015
M16	13/03/2014	1	11:30	0.3	0.3	2.6	8.3	88.7	0	0	1014
		2	11:39	0.3	0.3	2.5	8.2	89	0	0	1014
M17	15/03/2014	1	13:29	0.3	0.3	5.9	5.8	87.8	0	0	1012
		2	13:35	0.2	0.2	6.3	5.5	88	0	0	1011
M18	16/03/2014	1	10:56	0.2	0.2	5.7	7.2	86.8	0	0	1010
		2	11:02	0.2	0.2	7	4.5	88.2	0	0	1010
M19	18/03/2014	1	14:25	0.2	0.2	3.5	13.6	82.7	0	0	999
		2	14:28	0.2	0.2	3.6	13.4	82.8	0	0	999
M20	20/03/2014	1	09:49	0.2	0.2	2.4	15.8	81.5	0	0	999
		2	09:54	0.2	0.2	2.1	16	81.6	0	0	999

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Landfill Gas Monitoring Results - GW 4 (Tier 2 M1 - M14) (Tier 3 M15 - M20)

Monitoring Well I.D	Monitoring Event	Monitoring Date	Reading	Monitoring Time	Stable Methane (CH <sub>4</sub> )	Peak Methane CH <sub>4</sub>	Carbon Dioxide (CO <sub>2</sub> )	Oxygen (O <sub>2</sub> )	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H <sub>2</sub> S	Barometric Pressure
			Units	min	%	%	%	%	%	ppm	ppm	mb
GW 4	<b>Tier 2 - Landfill Gas Monitoring Events M1 - M14</b>											
	M1	11/07/2013	1	14:03	0.3	0.3	2	14.2	83.3	4	0	1012
			2	15:09	0.3	0.3	1.9	15	82.8	0	0	1012
	M2	16/07/2013	1	13:58	0.3	0.3	2.5	17.7	79.4	0	0	1009
			2	14:12	0.2	0.2	2.6	17.7	79.5	2	0	1009
	M3	18/07/2013	1	14:42	0.3	0.3	2.4	17.4	79.9	1	1	1012
			2	14:56	0.2	0.2	2.3	17.1	80.3	1	0	1012
	M4	22/07/2013	1	15:52	0.1	0.1	2.1	18.3	79.4	1	0	998
			2	16:10	0.1	0.1	2.1	18.5	79.3	1	0	998
	M5	26/07/2013	1	15:34	0	0.1	3.5	16.9	79.5	0	0	995
			2	15:49	0	0.1	3.4	17.2	79.3	1	0	995
	M6	29/07/2013	1	16:42	0.2	0.2	2.3	17.6	79.9	0	0	992
			2	16:57	0.2	0.2	2.4	17.9	79.5	0	0	992
	M7	02/08/2013	1	12:43	0	0.2	2.7	17.2	80	0	0	1005
			2	13:16	0.1	0.1	2.6	17.4	79.4	0	0	1005
	M8	06/08/2013	1	10:33	0.2	0.2	3	17.4	79.4	0	0	999
			2	10:48	0.1	0.1	3	17.2	79.7	0	0	999
	M9	09/08/2013	1	13:40	0.1	0.1	2.8	17.2	79.8	1	0	1004
			2	13:55	0.1	0.1	2.6	17.6	79.7	0	0	1004
	M10	12/08/2013	1	13:47	0.1	0.2	2	18.8	79	0	0	1004
			2	14:03	0.1	0.1	2	18.7	79.1	0	0	1004
	M11	16/08/2013	1	12:35	0.1	0.1	1.5	19	79.3	0	0	997
2			12:49	0.1	0.1	1.6	19	79.2	0	0	997	



M12	21/08/2013	1	12:26	0.1	0.1	1.6	18.8	79.4	0	0	1003
		2	12:41	0.1	0.1	1.4	19.1	79.3	0	0	1003
M13	23/08/2013	1	10:44	0.2	0.2	2.7	17.8	79.3	0	0	995
		2	11:27	0.1	0.1	3	17.4	79.4	0	0	996
M14	26/08/2013	1	12:51	0.1	0.1	2.8	17.4	79.6	0	0	1006
		2	13:05	0.1	0.1	2.8	17.3	79.7	0	0	1006
<b>Tier 3 - Landfill Gas Monitoring Events M15 - M20</b>											
M15	12/03/2014	1	10:45	0.1	0.1	0.4	19.8	79.6	0	0	1015
		2	10:50	0.1	0.1	0.4	19.7	79.8	0	0	1015
M16	13/03/2014	1	11:45	0.1	0.1	0.6	19.4	79.8	0	0	1015
		2	11:51	0.1	0.1	0.6	19.4	79.8	0	0	1015
M17	15/03/2014	1	13:49	0.1	0.2	0.5	19.5	79.8	0	0	1012
		2	13:53	0.1	0.2	0.5	19.4	79.8	0	0	1012
M18	16/03/2014	1	11:10	0.1	0.1	0.6	19.7	79.6	0	0	1010
		2	11:15	0.1	0.1	0.6	19.8	79.4	0	0	1010
M19	18/03/2014	1	14:32	0.1	0.1	0.4	19.7	79.7	0	0	999
		2	14:39	0.1	0.1	0.3	19.8	79.7	0	0	999
M20	20/03/2014	1	09:59	0.1	0.1	0.3	19.8	79.7	0	0	999
		2	10:03	0.1	0.1	0.3	19.6	79.9	0	0	999

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Landfill Gas Monitoring Results - GW 5 (Tier 2 M1 - M14) (Tier 3 M15 - M20)

Monitoring Well I.D	Monitoring Event	Monitoring Date	Reading	Monitoring Time	Stable Methane (CH <sub>4</sub> )	Peak Methane CH <sub>4</sub>	Carbon Dioxide (CO <sub>2</sub> )	Oxygen (O <sub>2</sub> )	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H <sub>2</sub> S	Barometric Pressure
			Units	min	%	%	%	%	%	ppm	ppm	mb
<b>Tier 2 - Landfill Gas Monitoring Events M1 - M14</b>												
<b>GWS</b>			1	14:08	0.3	0.3	0.2	15.9	83.4	0	0	1012
	M1	11/07/2013	2	15:03	0.3	0.3	0.4	16.4	82.8	0	1	1012
	M2	16/07/2013	1	13:40	0.2	0.2	2.4	16.2	81.2	0	0	1010
			2	14:21	0.1	0.1	2.9	15.4	81.5	0	0	1010
	M3	18/07/2013	1	14:23	0.1	0.2	0.8	19.3	79.7	0	0	1014
			2	15:00	0.2	0.2	0.4	17.2	82	1	0	1012
	M4	22/07/2013	1	15:43	0.1	0.1	1	19.2	79.6	0	0	1000
			2	16:31	0	0.1	0.9	19.6	79.4	1	0	999
	M5	26/07/2013	1	15:25	0.1	0.1	1.9	17.6	80.3	1	0	996
			2	16:04	0.1	0.1	2.5	16.9	80.5	0	0	996
	M6	29/07/2013	1	16:16	0.1	0.2	0.5	19.3	80.1	1	0	992
			2	17:01	0.2	0.2	0.7	18.2	80.9	0	0	991
	M7	02/08/2013	1	12:34	0.1	0.1	2.2	17.3	80.2	0	0	1006
			2	13:20	0.1	0.1	2.2	17.3	80.2	0	0	1006
M8	06/08/2013	1	10:25	0.1	0.1	1.6	18.9	79.3	0	0	1000	
		2	11:04	0.1	0.1	1.6	18.8	79.4	0	0	1000	
M9	09/08/2013	1	13:25	0.1	0.1	2.7	16.2	80.8	0	0	1006	
		2	14:00	0.1	0.1	2	17.6	80.2	0	0	1006	
M10	12/08/2013	1	13:42	0.2	0.2	1.6	18.7	79.6	0	0	1004	
		2	14:20	0.2	0.2	1.6	18.8	79.5	0	0	1004	
M11	16/08/2013	1	12:26	0.1	0.1	2.9	15.8	81.1	0	0	998	
		2	13:04	0.1	0.1	3.3	15.1	81.4	0	0	998	

M12	21/08/2013	1	12:22	0.1	0.1	2.3	16.9	80.5	0	0	1004
		2	12:54	0.1	0.1	2.3	16.9	80.5	0	0	1004
M13	23/08/2013	1	10:35	0.1	0.1	2	17.8	80	0	0	997
		2	11:30	0.1	0.1	1.8	18.4	79.6	0	0	997
M14	26/08/2013	1	12:36	0.1	0.1	2	17.9	79.8	0	0	1007
		2	13:10	0.1	0.1	2.1	17.8	80	0	0	1007
<b>Tier 3 - Landfill Gas Monitoring Events M15 - M20</b>											
M15	12/03/2014	1	11:00	0.1	0.2	0	20.3	79.5	0	0	1016
		2	11:05	0.1	0.1	0	20.2	79.7	0	0	1016
M16	13/03/2014	1	12:00	0.1	0.1	0.1	20	79.7	0	0	1016
		2	12:05	0.1	0.1	0.1	20	79.7	0	0	1016
M17	15/03/2014	1	14:00	0.1	0.1	0	20	79.7	0	0	1013
		2	14:05	0.1	0.1	0	20.1	79.6	0	0	1012
M18	16/03/2014	1	11:19	0.1	0.2	0	20.3	79.4	0	0	1011
		2	11:24	0.1	0.1	0	20.4	79.4	0	0	1011
M19	18/03/2014	1	14:45	0.2	0.2	0	20	79.8	0	0	999
		2	14:50	0.2	0.2	0	20	79.8	0	0	999
M20	20/03/2014	1	10:06	0.1	0.1	0.3	19.3	80.3	0	0	1000
		2	10:10	0.1	0.1	0.1	19.5	80.2	0	0	1000

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Landfill Gas Monitoring Results - GW 6 (Tier 2 M1 - M14) (Tier 3 M15 - M20)

Monitoring Well I.D	Monitoring Event	Monitoring Date	Reading	Monitoring Time	Stable Methane (CH <sub>4</sub> )	Peak Methane CH <sub>4</sub>	Carbon Dioxide (CO <sub>2</sub> )	Oxygen (O <sub>2</sub> )	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H <sub>2</sub> S	Barometric Pressure
			Units	min	%	%	%	%	%	ppm	ppm	mb
			Tier 2 - Landfill Gas Monitoring Events M1 - M14									
GW6	M1	11/07/2013	1	14:11	0.3	0.3	0.3	15.9	83.4	0	0	1012
			2	14:58	0.2	0.2	0.3	16.4	83	2	0	1012
	M2	16/07/2013	1	13:44	0.2	0.2	0.3	19.8	79.6	0	0	1010
			2	14:18	0.1	0.1	0.3	19.9	79.6	0	0	1010
	M3	18/07/2013	1	14:16	0.1	0.2	0.2	16.9	82.7	1	1	1013
			2	15:06	0.1	0.2	0.2	16.7	82.5	1	0	1012
	M4	22/07/2013	1	15:48	0.1	0.1	0.2	13.9	82.8	1	0	1000
			2	16:34	0	0	0.3	13.8	82.9	0	0	999
	M5	26/07/2013	1	15:29	0	0.1	0.8	19.4	79.7	0	0	996
			2	16:07	0	0.1	0.9	19.3	79.7	0	0	996
	M6	29/07/2013	1	16:24	0.1	0.2	0.2	18	79.7	0	0	992
			2	17:06	0.1	0.2	0.3	18.1	79.6	0	0	992
	M7	02/08/2013	1	12:38	0.1	0.1	1.3	16.9	81.6	0	0	1007
			2	13:24	0.1	0.2	1.3	16.9	81.7	0	0	1007
	M8	06/08/2013	1	10:28	0.1	0.1	0.8	19.3	79.7	0	0	1001
			2	11:07	0.1	0.1	0.7	19.3	79.8	0	0	999
	M9	09/08/2013	1	13:20	0.1	2	1.3	17.5	81	0	0	1006
			2	14:03	0.1	1	1.6	16.9	81.3	0	0	1006
	M10	12/08/2013	1	13:38	0.1	0.2	0.7	19.5	79.5	0	0	1004
			2	14:24	0.1	0.2	0.8	19.4	79.4	0	0	1004
	M11	16/08/2013	1	12:30	0.1	0.1	0.6	19.6	79.6	0	0	998
			2	13:08	0.1	0.1	0.6	19.5	79.5	0	0	998

M12	21/08/2013	1	12:20	0.1	0.2	0.3	20	79.5	0	0	1004
		2	12:57	0.1	0.2	0.2	20.1	79.4	0	0	1004
M13	23/08/2013	1	10:39	0.1	0.1	0.7	19.6	79.5	0	0	997
		2	11:34	0.1	0.2	0.8	19.6	79.4	0	0	997
M14	26/08/2013	1	12:31	0.1	0.1	1.3	16.9	81.6	0	0	1007
		2	13:14	0	0.1	0.8	18.3	80.8	0	0	1007
<b>Tier 3 - Landfill Gas Monitoring Events M15 - M20</b>											
M15	12/03/2014	1	11:15	0.1	0.1	0.2	20.1	79.5	0	0	1017
		2	11:20	0.1	0.1	0.3	20.3	79.3	0	0	1017
M16	13/03/2014	1	12:15	0.1	0.1	0.2	19.9	79.8	0	0	1016
		2	12:20	0.1	0.1	0.2	19.9	79.8	0	0	1016
M17	15/03/2014	1	14:15	0.1	0.2	0.2	20	79.7	0	0	1013
		2	14:20	0.1	0.2	0.1	20	79.7	0	0	1013
M18	16/03/2014	1	11:32	0.1	0.1	0.1	20.3	79.3	0	0	1010
		2	11:38	0.1	0.1	0.1	20.4	79.3	0	0	1011
M19	18/03/2014	1	14:58	0.1	0.1	0.1	19.8	79.8	0	0	1000
		2	15:03	0.1	0.1	0.1	19.8	79.8	0	0	1000
M20	20/03/2014	1	10:15	0.1	0.1	0.1	19.6	80.1	0	0	1000
		2	10:19	0.1	0.1	0.1	19.5	80.2	0	0	1000

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Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH <sub>4</sub> )	Peak Methane CH <sub>4</sub>	Carbon Dioxide (CO <sub>2</sub> )	Oxygen (O <sub>2</sub> )	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H <sub>2</sub> S	Barometric Pressure
		Units	% vol/vol	% vol/vol	% vol/vol	% vol/vol	% vol/vol	ppm	ppm	mb
GW 1	M1	11/07/2013	0.4	0.4	5.45	10.55	83.55	0.5	1	1012
	M2	16/07/2013	0.35	0.35	7.15	10.15	82.15	0	0	1009
	M3	18/07/2013	0.25	0.35	6	12.9	80.75	0.5	1	1012
	M4	22/07/2013	0.05	0.1	1.4	19	79.45	0.5	0	998
	M5	26/07/2013	0.05	0.1	7.2	10.8	81.6	0.5	0	995.5
	M6	29/07/2013	0.25	0.25	7	12.25	80.45	0.5	0	991.5
	M7	02/08/2013	0.1	0.15	5.25	14.75	79.85	0	0	1006
	M8	06/08/2013	0.1	0.1	6.75	12.85	80.15	0	0	999
	M9	09/08/2013	0.15	0.15	3.9	11	84.85	0	0	1004
	M10	12/08/2013	0.2	0.2	1.95	12.6	85.1	0	0	1002
	M11	16/08/2013	0.1	0.1	8.6	10.15	80.45	0	0	997
	M12	21/08/2013	0.2	0.2	2.8	12.1	84.9	0	0	1002
	M13	23/08/2013	0.1	0.2	4.65	16.45	78.65	0	0	996
	M14	26/08/2013	0.1	0.1	4.05	16.3	79.55	0	0	1006
	M15	12/03/2014	0.2	0.2	1.55	19.05	79.25	0	0	1015
	M16	13/03/2014	0.2	0.2	2	18.6	79.15	0	0	1014
	M17	15/03/2014	0.2	0.2	7.3	5.75	86.85	0	0	1011
	M18	16/03/2014	0.2	0.2	7.15	7.65	86.4	0	0	1009
	M19	18/03/2014	0.1	0.1	8.05	6.55	85.25	0	0	999
	M20	20/03/2014	0.2	0.2	8.4	5.8	85.55	0	0	999

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH <sub>4</sub> )	Peak Methane CH <sub>4</sub>	Carbon Dioxide (CO <sub>2</sub> )	Oxygen (O <sub>2</sub> )	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H <sub>2</sub> S	Barometric Pressure
		Units	% vol/vol	% vol/vol	% vol/vol	% vol/vol	% vol/vol	ppm	ppm	mb
GW 2	M1	11/07/2013	2.8	2.8	6.3	0.75	90.1	4	0.5	1012
	M2	16/07/2013	3	3	6.7	0.6	89.6	1	0	1009
	M3	18/07/2013	2.55	2.55	6.9	0.6	89.85	3	0	1012
	M4	22/07/2013	2.05	2.05	9.25	0.95	87.75	2	0	998
	M5	26/07/2013	2.4	2.4	7.9	0.4	89.2	1	0	995
	M6	29/07/2013	2.75	2.75	7.15	0.75	89.35	1.5	0	992
	M7	02/08/2013	3.15	3.2	6	1.9	88.85	0	0	1005
	M8	06/08/2013	3	3	6.45	0.2	90.25	0	0	999
	M9	09/08/2013	1.8	1.8	6.65	1	90.4	0	0	1004
	M10	12/08/2013	2.35	2.45	6.55	0.4	90.6	0	0	1002
	M11	16/08/2013	3	3	6.25	0.55	90.1	0	0	997
	M12	21/08/2013	1.8	1.8	5.55	3.05	89.55	0	0	1002.5
	M13	23/08/2013	3.8	3.8	6.3	0.05	89.75	0	0	996
	M14	26/08/2013	3	3	6.05	2.45	88.4	0	0	1006
	M15	12/03/2014	3.2	3.25	7	0.5	89.25	0	0	1015
	M16	13/03/2014	2.95	2.95	7.4	1.15	88.5	0	0	1015
	M17	15/03/2014	3.85	3.95	7.25	0.75	87.95	0	0	1011.5
	M18	16/03/2014	3.5	3.75	7.3	0.45	88.65	0	0	1009.5
	M19	18/03/2014	3.85	3.85	7.6	0.5	87.95	0	0	999
	M20	20/03/2014	3.55	3.6	7.25	0.85	88.35	0	0	999

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH <sub>4</sub> )	Peak Methane CH <sub>4</sub>	Carbon Dioxide (CO <sub>2</sub> )	Oxygen (O <sub>2</sub> )	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H <sub>2</sub> S	Barometric Pressure
		Units	% vol/vol	% vol/vol	% vol/vol	% vol/vol	% vol/vol	ppm	ppm	mb
GW 3	M1	11/07/2013	0.35	0.35	2.6	12.8	84.25	2.5	0.5	1012
	M2	16/07/2013	0.15	0.2	1.6	17.9	80.25	0	0	1009
	M3	18/07/2013	0.2	0.2	1.9	17.05	80.85	2	1	1012.5
	M4	22/07/2013	0.1	0.1	1.05	19.05	79.75	1	0	998
	M5	26/07/2013	0.05	0.1	1.9	17.95	80.05	0	0	995
	M6	29/07/2013	0.15	0.2	1.9	17.4	80.55	0	0	992.5
	M7	02/08/2013	0.15	0.2	5.35	11.4	83.05	0	0	1005
	M8	06/08/2013	0.25	0.25	5.3	11.85	82.85	0	0	999
	M9	09/08/2013	0.2	0.2	7.6	5.65	86.4	0.5	0	1004
	M10	12/08/2013	0.9	0.9	11.05	1.95	86	0	0	1003
	M11	16/08/2013	0.5	0.5	7.5	3.4	88.5	0	0	997
	M12	21/08/2013	0.1	0.15	1.9	17	80.95	0	0	1002.5
	M13	23/08/2013	0.15	0.15	2.7	15.95	81.15	0	0	996
	M14	26/08/2013	0.2	0.2	4.7	12.95	82.1	0	0	1006
	M15	12/03/2014	0.3	0.3	3.8	8.45	87.45	0	0	1015
	M16	13/03/2014	0.3	0.3	2.55	8.25	88.85	0	0	1014
	M17	15/03/2014	0.25	0.25	6.1	5.65	87.9	0	0	1011.5
	M18	16/03/2014	0.2	0.2	6.35	5.85	87.5	0	0	1010
	M19	18/03/2014	0.2	0.2	3.55	13.5	82.75	0	0	999
	M20	20/03/2014	0.2	0.2	2.25	15.9	81.55	0	0	999



Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH <sub>4</sub> )	Peak Methane CH <sub>4</sub>	Carbon Dioxide (CO <sub>2</sub> )	Oxygen (O <sub>2</sub> )	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H <sub>2</sub> S	Barometric Pressure
		Units	% vol/vol	% vol/vol	% vol/vol	% vol/vol	% vol/vol	% vol/vol	ppm	ppm
GW 4	M1	11/07/2013	0.3	0.3	1.95	14.6	82.55	2	0	1012
	M2	16/07/2013	0.25	0.25	2.55	17.7	79.45	1	0	1009
	M3	18/07/2013	0.25	0.25	2.35	17.25	80.1	1	0.5	1012
	M4	22/07/2013	0.1	0.1	2.1	18.4	79.35	1	0	998
	M5	26/07/2013	0	0.1	3.45	17.05	79.4	0.5	0	995
	M6	29/07/2013	0.2	0.15	2.35	17.75	79.7	0	0	992
	M7	02/08/2013	0.05	0.15	2.65	17.3	79.7	0	0	1005
	M8	06/08/2013	0.15	0.15	3	17.3	79.55	0	0	999
	M9	09/08/2013	0.1	0.1	2.7	17.4	79.75	0.5	0	1004
	M10	12/08/2013	0.1	0.2	2	18.75	79.05	0	0	1004
	M11	16/08/2013	0.1	0.1	1.55	19	79.25	0	0	997
	M12	21/08/2013	0.1	0.1	1.5	18.95	79.35	0	0	1003
	M13	23/08/2013	0.15	0.15	2.85	17.6	79.35	0	0	996
	M14	26/08/2013	0.1	0.1	2.8	17.35	79.65	0	0	1006
	M15	12/03/2014	0.1	0.1	0.4	19.75	79.7	0	0	1015
	M16	13/03/2014	0.1	0.1	0.6	19.4	79.8	0	0	1015
	M17	15/03/2014	0.1	0.2	0.5	19.45	79.8	0	0	1012
	M18	16/03/2014	0.1	0.1	0.6	19.75	79.5	0	0	1010
	M19	18/03/2014	0.1	0.1	0.35	19.75	79.7	0	0	999
	M20	20/03/2014	0.1	0.1	0.3	19.7	79.8	0	0	999

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH <sub>4</sub> )	Peak Methane CH <sub>4</sub>	Carbon Dioxide (CO <sub>2</sub> )	Oxygen (O <sub>2</sub> )	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H <sub>2</sub> S	Barometric Pressure
		Units	% vol/vol	% vol/vol	% vol/vol	% vol/vol	% vol/vol	ppm	ppm	mb
GW 5	M1	11/07/2013	0.3	0.3	0.3	16.15	83.1	0	0.5	1012
	M2	16/07/2013	0.15	0.15	2.65	15.8	81.35	0	0	1010
	M3	18/07/2013	0.15	0.2	0.6	18.25	80.85	0.5	0	1013
	M4	22/07/2013	0.05	0.1	0.95	19.4	79.5	0.5	0	999.5
	M5	26/07/2013	0.1	0.1	2.2	17.25	80.4	0.5	0	996
	M6	29/07/2013	0.15	0.2	0.6	18.75	80.5	0.5	0	991.5
	M7	02/08/2013	0.1	0.1	2.2	17.3	80.2	0	0	1006
	M8	06/08/2013	0.1	0.1	1.6	18.85	79.35	0	0	1000
	M9	09/08/2013	0.1	0.1	2.35	16.9	80.5	0	0	1006
	M10	12/08/2013	0.2	0.2	1.6	18.75	79.55	0	0	1004
	M11	16/08/2013	0.1	0.1	3	15.45	81.25	0	0	998
	M12	21/08/2013	0.1	0.1	2.3	16.9	80.5	0	0	1004
	M13	23/08/2013	0.1	0.1	1.9	18.1	79.8	0	0	997
	M14	26/08/2013	0.1	0.1	2.05	17.85	79.9	0	0	1007
	M15	12/03/2014	0.1	0.15	0	20.25	79.6	0	0	1016
	M16	13/03/2014	0.1	0.1	0.1	20	79.7	0	0	1016
	M17	15/03/2014	0.1	0.1	0	20.05	79.65	0	0	1012.5
	M18	16/03/2014	0.1	0.15	0	20.35	79.4	0	0	1011
	M19	18/03/2014	0.2	0.2	0	20	79.8	0	0	999
	M20	20/03/2014	0.1	0.1	0.2	19.4	80.25	0	0	1000

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH <sub>4</sub> )	Peak Methane CH <sub>4</sub>	Carbon Dioxide (CO <sub>2</sub> )	Oxygen (O <sub>2</sub> )	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H <sub>2</sub> S	Barometric Pressure
		Units	% vol/vol	% vol/vol	% vol/vol	% vol/vol	% vol/vol	% vol/vol	ppm	ppm
GW 6	M1	11/07/2013	0.25	0.25	0.3	16.15	83.2	1	0	1012
	M2	16/07/2013	0.15	0.15	0.3	19.85	79.6	0	0	1010
	M3	18/07/2013	0.1	0.2	0.2	16.8	82.6	1	0.5	1012.5
	M4	22/07/2013	0.05	0.05	3.25	13.85	82.85	0.5	0	999.5
	M5	26/07/2013	0	0.1	0.85	19.35	79.7	0	0	996
	M6	29/07/2013	0.1	0.2	2.2	18.05	79.65	0	0	992
	M7	02/08/2013	0.1	0.15	1.3	16.9	81.65	0	0	1007
	M8	06/08/2013	0.1	0.1	0.75	19.3	79.75	0	0	1000
	M9	09/08/2013	0.1	1.5	1.45	17.2	81.15	0	0	1006
	M10	12/08/2013	0.1	0.2	0.75	19.45	79.45	0	0	1004
	M11	16/08/2013	0.1	0.1	0.6	19.55	79.55	0	0	998
	M12	21/08/2013	0.1	0.2	0.25	20.05	79.45	0	0	1004
	M13	23/08/2013	0.1	0.15	0.75	19.6	79.45	0	0	997
	M14	26/08/2013	0.05	0.1	1.05	17.6	81.2	0	0	1007
	M15	12/03/2014	0.1	0.1	0.25	20.2	79.4	0	0	1017
	M16	13/03/2014	0.1	0.1	0.2	19.9	79.8	0	0	1016
	M17	15/03/2014	0.1	0.2	0.15	20	79.7	0	0	1013
	M18	16/03/2014	0.1	0.1	0.1	20.35	79.3	0	0	1010.5
	M19	18/03/2014	0.1	0.1	0.1	19.8	79.8	0	0	1000
	M20	20/03/2014	0.1	0.1	0.1	19.55	80.15	0	0	1000