

## Methane Emissions Survey Sheet – Bryn Posteg Landfill

<b>Site</b>	Bryn Posteg Landfill:	<b>Date</b>	18 <sup>th</sup> and 19 <sup>th</sup> April 2018	<b>Time</b>	in: 10:40 out: 16:45
<b>Instrument</b>	Gazomat Inspectra TDL (Serial No.: 1470311)				
		<b>Background reading</b>		<b>Time</b>	10:33
<b>Weather conditions:</b>	Dry, Sunny and Warm				14:30
<b>Survey Undertaken by:</b>	Tony Roberts/Rhys Ellis/ James McClymont / Aled Rees				

General comments / observations
<p>An ATEX certified, Gazomat Inspectra Laser Methane Analyser was used to perform emission testing at the site .</p>

Survey Results (only readings >10 ppm recorded)				
Point ref.	Time	Methane Reading	Feature and / or Grid Reference	Description / Comment
DAY 1				
1.	14:59	3.9ppm / 5ppm	Under weighbridge	
2.	15:10	55ppm	Walk up haul road	Opposite Material Recycling facility
3.		64.6%	Entrance to cell 9	Opposite composting pad
4.		8.8%	Cell 9 haul road	
5.	15:24	12ppm		GW Between active cell and cell 8 very north edge of the operational area, adjacent to Phase 8. Slightly open- no apparent flow 30 ppm ambient air.

6.		4000ppm	GW300	Gas bubbling next to gas well. Water slopping to be heard in condensate line – slope and condensate trap in line
7.		1.5ppm		2meters from GW 300
8.	15:33	26.5pppm	GW301	Partially open. Slump in line. No apparent flow
9.	15:35	36ppm	GW303	Partially open
10.	15:38	96.5ppm	GW302	Partially open- no apparent flow
11.	15:40	7.1ppm	GW305	Partially open- straight to main. Flow to be heard
12.		37.5ppm	GW306	Flow to be heard
13.		5.5 %		2 meters from GW304
14.		2.3%	GW304	Gas coming out next to bentonite seal – tap partially open
15.		38.5ppm	GW314	Partially open (Can hear flow just about)
16.	15:51	4.4ppm	GW307	Partially open
17.	15:53	7.6ppm	GW308	Partially open and flow
18.	15:57	157ppm	GW309	Strong smell of gas. Tap closed
19.	15:59	62ppm	Leachate tower	Appeared sealed. Tap fully open
20.		27.7%	Leachate tower	Partially open. Strong gas odour
21.		43.2%	Leachate tower	Partially open
22.		17.7%	Leachate tower	Fully open

23.		22.4%	Leachate tower	Flow to be heard
24.	16:20	26.3ppm	GW318	Flow
25.	16:31	21.5%		South west corner of 9D
26.				
27.		<b>DAY 2</b>		
28.	10:34	2ppm		weighbridge
29.	10:45	6.6ppm	GW313	Flow
30.		40ppm	GW312	Flow
31.		6ppm	GW310	Flow
32.	10:49	104ppm	Leachate tower	Tap open
33.	10:52	36.4%	Leachate tower	
34.	10:52	35.3%	Tall leachate tower	
35.	10:54	30.2%	Furthest tower to south	Hole noticed on the side
36.		25.2ppm	GW120	Partially open
37.	10:58	11ppm	GW316	Flow to be heard
38.		15ppm	GW315	Good flow
39.		144ppm	GW322	Some flow – but tap closed?
40.		4.7 ppm	GW93	Partially open- Can hear flow



41.	11:04	400ppm	GW96	Bubbling noise – No control valve
42.	11:06	55ppm	GW94	Partially open
43.		3.5ppm	GW932	Bubbling noise- flow but struggling
44.		3.7ppm	GW320	Has flow
45.		8.7ppm	GW319	Partially open
46.				Met Paul Lloyd (gas technician) investigating oxygen in line
47.	11:35	2%	GW85	
48.		32ppm	GW67	
49.		57ppm	GW69	
50.		1%	GW300	
51.		21.9%		South west corner of 9D