



January 2026

Carter Shone,
Natural Resources Wales,
Chester Road,
Buckley,
Flintshire
CH7 3AJ

Dear Mr. Shone,

Pen-y-Bont (Chirk) Quarter 4 October to December 2025 Environmental Report

Please find enclosed the report for routine environmental monitoring undertaken at our Pen- y-Bont (Chirk) Landfill Site between October and December 2025.

We trust this is satisfactory, please do not hesitate to contact us should you require further clarification.

Yours sincerely,
For FCC Environment

A handwritten signature in black ink, appearing to be 'Leon Terrace', written over a horizontal line.

Leon Terrace

Compliance Adviser, North Wales and Cheshire



PEN-Y-BONT LANDFILL SITE

PPC PERMIT GP3830BG

QUARTER 4 ENVIRONMENTAL MONITORING REPORT

October to December 2025

**FCC Environment,
Pen-Y-Bont Landfill Site,
Pentre,
LL11 5AR.**

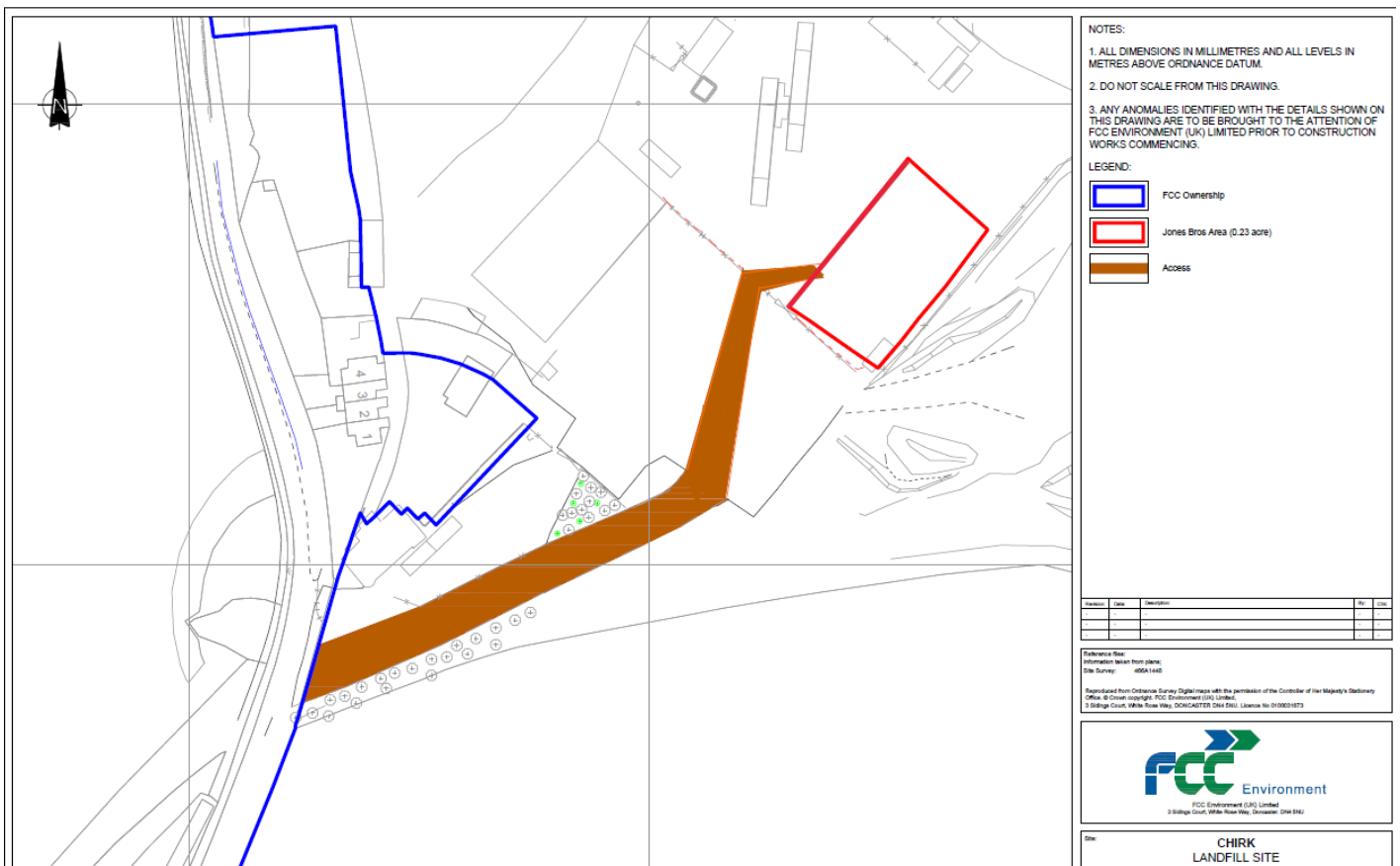
1.0 Introduction

This report has been produced in accordance with the requirements of the PPC permit (GP3830BG) and subsequent variation notices PP3032LN (issued on the 27th June 2007) and GP3830BG/V008 (issued on 05/12/2019), detailing the results of environmental monitoring undertaken in the fourth quarter of the year between October and December 2025 at the Pen-y-Bont (Chirk) Landfill Site.

Following from the issue of the new permit on 5th December 2019 and with reduced monitoring requirements, an updated monitoring schedule was implemented in March 2020 to reflect the changes to the sampling regime. This has seen much of the monthly sampling now reduced to quarterly (GW's and SW's) and six monthly (LC's).

Jones Brothers Temporary Use Of Site

The below plan shows the area of site previously occupied by Jones Brothers who were working on the local road collapse – the contractor has now left the site with completion of the road repair.



FIELD LOGS REPORT

Field log report



Pen-Y-Bont

Chirk Field Logs Report October-December 2025

16-October-2025

Equipment 01 Calibration Due	15/08/2026
Equipment 01 Last Calibration	15/08/2025
Equipment 01 Last Calibration	22/05/2025
Equipment 01 Serial No.	G507508
Equipment 01 Serial No.	GA5000 + G501011
Equipment 01 Type	GA5000
Equipment 02 Serial No.	84096-22
Equipment 02 Type	ATEX Leachate Dip Tape
Ground Conditions	Moist
Personnel 01	INF02019 simon.obrien
Personnel 01	D Beeston
Time OFF	14:49
Time OFF	10:00
Time ON	08:00
Time ON	09:44
Weather	Overcast
Weather	Overcast

Field log report



Pen-Y-Bont

Chirk Field Logs Report October-December 2025

21-October-2025

Equipment 01 Last Calibration	22/05/2025
Equipment 01 Serial No.	GA5000 + G501011
Personnel 01	INF02019 simon.obrien
Time OFF	14:10
Time ON	10:21
Weather	Overcast

Field log report



Pen-Y-Bont

Chirk Field Logs Report October-December 2025

10-November-2025

Equipment 01 Calibration Due	15/08/2026
Equipment 01 Last Calibration	15/08/2025
Equipment 01 Serial No.	G507508
Equipment 01 Type	GA5000
Ground Conditions	Moist
Personnel 01	D Beeston
Time OFF	12:45
Time ON	08:45
Weather	Overcast

Field log report



Pen-Y-Bont

Chirk Field Logs Report October-December 2025

12-November-2025

Equipment 01 Last Calibration	22/05/2025
Equipment 01 Serial No.	GA5000 + G501011
Personnel 01	INF02019 simon.obrien
Time OFF	14:36
Time ON	09:49
Weather	Showers

Field log report



Pen-Y-Bont

Chirk Field Logs Report October-December 2025

13-November-2025

Equipment 01 Last Calibration	22/05/2025
Equipment 01 Serial No.	GA5000 + G501011
Personnel 01	INF02019 simon.obrien
Time OFF	13:55
Time ON	09:39
Weather	Clear

Field log report



Pen-Y-Bont

Chirk Field Logs Report October-December 2025

19-November-2025

Equipment 01 Serial No.	EP43
Equipment 01 Type	GW Dip Tape
Equipment 02 Serial No.	84096-22
Equipment 02 Type	ATEX Leachate Dip Tape
Ground Conditions	Moist
Personnel 01	D Beeston
Time OFF	13:45
Time ON	08:00
Weather	Light rain

Field log report



Pen-Y-Bont

Chirk Field Logs Report October-December 2025

03-December-2025

Equipment 01 Last Calibration	22/05/2025
Equipment 01 Serial No.	GA5000 + G501011
Personnel 01	INF02019 simon.obrien
Time OFF	14:23
Time ON	09:37
Weather	Clear

Field log report



Pen-Y-Bont

Chirk Field Logs Report October-December 2025

10-December-2025

Equipment 01 Last Calibration	22/05/2025
Equipment 01 Serial No.	GA5000 + G501011
Personnel 01	INF02019 simon.obrien
Time OFF	13:30
Time ON	09:24
Weather	Overcast

Field log report



Pen-Y-Bont

Chirk Field Logs Report October-December 2025

17-December-2025

Equipment 01 Calibration Due	15/08/2026
Equipment 01 Last Calibration	15/08/2025
Equipment 01 Serial No.	G507508
Equipment 01 Type	GA5000
Equipment 02 Serial No.	84096-22
Equipment 02 Type	ATEX Leachate Dip Tape
Ground Conditions	Waterlogged
Personnel 01	D Beeston
Time OFF	11:45
Time ON	08:45
Weather	Heavy rain

BOREHOLE GAS REPORT

From: 01/10/2025 To: 31/12/2025

16/10/2025

	Atmospheric Pressure (mBar)	CH4 (%v/v) (%)	CO2 (%v/v) (%)	O2 (%v/v)	Relative Pressure (mBar)
PBGB00G1	1021	0	1.5	18	-0.05
PBGB00G2	1022	0	2.3	17.8	0.02
PBGB00G3	1022	0	1.8	18.5	0.02
PBGB00G4	1022	0	3	16.8	-0.09
PBGB00G5	1023	0	0.9	19.6	0
PBGB00G6	1022	0	0.8	18.9	-0.05
PBGB00G7	1023	0	2.9	18	-0.05
PBGB00G8	1023	0	5.8	13.8	-0.03
PBGB00G9	1022	0	3	13.9	-0.05
PBGB00G10	1022	0	0.8	19	0.02
PBGB00G11	1021	0	2.5	5.2	-0.05
PBGB00G12	1021	0	2.8	16.8	-0.07
PBGB00G13	1021	0	1.5	18.6	-0.03
PBGB00G14	1021	0	0.8	18.9	-0.14
PBGB00G15	1021	0	2.1	18.4	-0.03
PBGB00G16	1022	0	2.6	17	-0.05
PBGB00G17	1021	0	2.6	17.9	-0.02

From: 01/10/2025 To: 31/12/2025

10/11/2025

	Atmospheric Pressure (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	H2S (ppm)	O2 (%v/v)	Relative Pressure (mBar)
PBGB00G1	995	0	0	1.7	0	18.1	-0.02
PBGB00G2	996	0	0	2.6	0	17.7	0
PBGB00G3	995	0	0	1.8	0	18.7	-0.05
PBGB00G4	996	0	0	3	1	17.2	-0.03
PBGB00G5	996	0	0	0.9	0	19.7	-0.02
PBGB00G6	996	0	0	1.1	0	18.7	0
PBGB00G7	996	0	0	2.7	0	18.1	-0.02
PBGB00G8	996	0	0	5.9	0	12.5	0.02
PBGB00G9	996	0	0	4.6	1	13.2	-0.03
PBGB00G10	996	0	0	0.9	1	19.3	0.05
PBGB00G11	994	0	0	3	1	3.7	0.03
PBGB00G12	994	0	0	3	1	17.1	-0.02
PBGB00G13	994	0	0	1.9	1	18.6	-0.12
PBGB00G14	995	0	0	1.2	1	18.9	-0.02
PBGB00G15	994	0	0	2.1	1	18.6	0.03
PBGB00G16	994	0	0	2.6	1	17.6	-0.03
PBGB00G17	995	0	0	3	0	17.6	0
PBT00001	996	0	1	0.1	0	20.4	-0.02
PBT00002	998	0	0	0.1	0	20.5	-0.02
PBT00003	998	0	0	3.1	0	17.5	-0.52
PBT00004	998	0	0	1	0	19.4	0.03
PBT00005	998	0	0	1.2	0	18.6	0
PBT00006	998	0	0	0.6	0	19.8	-0.02
PBT00007	998	0	0	0.2	0	20.3	-0.03
PBT00008	998	0	0	0.1	0	20.4	-0.02
PBT00009	998	0	0	0.2	0	20.5	-0.07
PBT00010	998	0	0	0.2	0	20.3	-0.02
PBT00011	997	59	0	9	0	0.6	2.83
PBT00012	998	0	0	0.5	0	19.9	0.47
PBT00013	998	0	0	0.1	0	20.3	0.09

From: 01/10/2025 To: 31/12/2025

17/12/2025

	Atmospheric Pressure (mBar)	CH4 (%v/v) (%)	CO2 (%v/v) (%)	O2 (%v/v)	Relative Pressure (mBar)
PBGB00G1	1000	0	2	19	0.03
PBGB00G2	1001	0	5.4	11.3	-0.03
PBGB00G3	1001	0	2.6	17.7	32.84
PBGB00G4	1001	0	0.2	20	0.02
PBGB00G5	1001	0	1.7	15.4	0.05
PBGB00G6	1001	0	0.7	19.6	0.07
PBGB00G7	1001	0	3.2	16	0.05
PBGB00G8	1002	0	4.8	11.8	0.1
PBGB00G9	1002	0.3	3.7	14.2	-2.99
PBGB00G10	1002	0	0.7	19.5	-3.27
PBGB00G11	1000	0	2.5	2.5	0
PBGB00G12	1000	0	3.4	16.4	-0.02
PBGB00G13	1000	0	3.8	14.1	0.02
PBGB00G14	1000	0	2.4	17.9	0.09
PBGB00G15	1000	0	3.1	17	0.02
PBGB00G16	1000	0	2.7	16.8	0.05
PBGB00G17	1000	0	3.3	16.9	0.12

LFGX & BALANCING REPORT

From: 01/10/2025 To: 31/12/2025

16/10/2025

	Atmospheric Pressure (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Engine Output (Kwh)	Flare Temperature (Deg C)	Flow (m3/hr)	Flow (scmh)	H2S (ppm)	LFG Balance (%)
CHILRIS1	1020	61.5	15	34.4					0	3.6
CHILRIS2	1020	50.9	11	34.3					0	14.3
CHILW06R	1018	34.6	22	26					0	32
CHILW4AR	1017	54.9	32	40.5					64	4.3
CHIR0010	1017	44.3	20	35.4					16	20
CHIR0037	1017	37.3	46	33.7					0	27.5
CHIR0041	1016	47	31	39.4					90	13.4
CHIR0072	1018	58.4	35	41.3					84	0.3
CHIR0073	1019	48.1	20	37.3					1	13.6
CHIR0081	1018	12.6	9	18.9					28	68.4
CHIR0091	1018	55.4	25	41.6					71	2.8
CHIR0093	1018	47.9	20	39.7					50	12.4
CHISITE1		45.5	31	36.3	505			255	82	20.2
CHIW0065	1016	49.6	26	38.2					32	12.2
CHIW0066	1016	52.9	29	37.9					42	9.2
CHIW0067	1018	47.8	16	38.1					0	11.9
CHIW0068	1018	47.9	18	40.2					145	11.7
CHIW0082	1019	32.9	14	27.1					14	37.1
CHIW0083	1019	53.8	18	38.2					71	7.9
CHIW0089	1019	58.3	21	41.8					73	0
CHIW0094	1019	0	9	0.8					0	78.9
CHIW0097	1020	0.6	6	5.3					0	79.2
CHIW0098	1019	60.5	23	38.5					16	1
CHIW0099	1019	45.9	19	34.6					28	19.1
CHIW0100	1019	50.2	17	36.2					25	12
CHIW0101	1021	54.3	13	38.2					2	7.1
CHIW0102	1018	0	9	0.1					0	79
CHIW0104	1017	0.8	18	2.4					6	79

O2 (%v/v)	Relative Pressure (mBar)	Valve Adjustment	Valve Position
0.5	-0.5	5	2
0.5	-0.48	10	5
7.4	-1.12	5	40
0.3	-0.36	0	0
0.3	-2.84	20	20
1.5	-3.04	0	0
0.2	-8.21	20	20
0	-10.45	100	100
1	-0.48	10	10
0.1	-0.55	0	0
0.2	-1.82	40	35
0	-1.22	40	35
1.6	-12.87		
0	-7.97	20	20
0	-9.78	20	20
2.2	-1.67	0	0
0.2	-0.76	20	20
2.9	-0.76	2	5
0.1	-0.77	15	10
0	-12.65	30	25
20.3	-0.65	0	0
14.9	-0.62	0	0
0	-0.58	5	2
0.4	-1.89	20	20
1.6	-1.25	30	25
0.4	-2.16	5	2
20.9	-0.5	0	0
17.8	-1.92	0	0

From: 01/10/2025 To: 31/12/2025

	Atmospheric Pressure (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Engine Output (Kwh)	Flare Temperature (Deg C)	Flow (m3/hr)	Flow (scmh)	H2S (ppm)	LFG Balance (%)
CHIW0110	1018	56.1	43	41.4					124	2.4
CHIW0111	1018	1	29	3.9					0	92.4
CHIW0113	1017	0.3	40	17.1					0	81.7
CHIW0115	1017	38.1	31	36.5					183	25.3
CHIW0116	1017	7.6	54	3.7					34	88.7
CHIW0117	1016	1.2	25	13.3					16	83.2
CHIW0118	1016	47.2	42	40.2					106	12.5
CHIW0121	1016	47.9	31	39					129	13.1
CHIW0123	1017	28.3	32	34.9					169	36.8
CHIW0124	1016	41	32	37					126	22
CHIW0125	1016	55.7	49	44.1					307	0.2
CHIW0126	1015	53.3	36	44.9					81	1.8
CHIW1601	1016	46	34	39					164	14.9
CHIW1602	1016	44.6	48	40.1					331	15.3
CHIW1603	1016	2.1	19	13.3					3	67.5
CHIW1604	1015	34.7	33	34.4					66	30.3
CHIW1605	1018	40.7	34	36.8					33	21.8
CHIW1608	1017	45.3	80	40.4					232	14.2
CHIW1609	1017	43.9	25	33.8					24	19.8
CHIW1611	1018	57.6	18	40					85	2.4
GW44	1016	48.2	26	39					52	12.5
GW48	1019	9.6	9	7.1					0	66.8
GW56	1016	26.2	26	30.1					49	43.7
GW57	1017	53	32	39.6					27	7.4
GW88	1018	44.8	20	37.1					53	18.1
LC01B	1016	0.7	22	12.4					0	69.2
LM04B	1019	33.5	25	25.3					0	33.6
LM07B	1018	40.3	22	28.1					5	26
PBLFGXGW03	1018	59.7	17	38.4					22	1.7
PBLFGXGW07	1018	54.3	18	35.5					23	11.6

O2 (%v/v)	Relative Pressure (mBar)	Valve Adjustment	Valve Position
0.1	-1.79	20	15
2.7	-0.4	0	0
0.9	-0.27	0	0
0.1	-0.6	5	5
0	-0.55	0	0
2.3	-0.62	0	0
0.1	-9.26	30	30
0	-9.18	10	40
0	-0.43	0	10
0	-1.53	2	5
0	-0.17	2	0
0	-0.65	0	0
0.1	-4.48	5	5
0	-2.65	5	5
17.1	-0.53		
0.6	-1.07	10	15
0.7	-0.67	2	5
0.1	-0.36	10	20
2.5	-2.35	101	10
0	-1.53	5	2
0.3	-5.43	15	15
16.5	-1.49	0	0
0	-5.36	0	5
0	-9.19	25	20
0	-8.88	30	30
17.7	-1.07	0	0
7.6	-0.69	0	5
5.6	-2.42	5	40
0.2	-0.07	25	25
0.5	-6.08	15	15

From: 01/10/2025 To: 31/12/2025

	Atmospheric Pressure (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Engine Output (Kwh)	Flare Temperature (Deg C)	Flow (m3/hr)	Flow (scmh)	H2S (ppm)	LFG Balance (%)
PBLFGXGW18	1017	58.1	22	41.8					23	0.1
PBLFGXGW28	1017	58.2	18	40.9					58	0.9
PBLFGXGW29	1018	61	18	37.4					25	1.6
PBLFGXGW30	1018	58.2	18	37.3					6	4.2
PYBFLARE		10.9		11.9		0	0			70.1

O2 (%v/v)	Relative Pressure (mBar)	Valve Adjustment	Valve Position
0	-0.24	5	2
0	-0.05	10	5
0	-9.18	15	10
0.3	-1.15	5	2
7.1	-66.7		

From: 01/10/2025 To: 31/12/2025

21/10/2025

	Atmospheric Pressure (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Engine Output (Kwh)	Flow (scmh)	H2S (ppm)	LFG Balance (%)	O2 (%v/v)	Relative Pressure (mBar)
CHILMP01	979	69.7	3	28.1			Off upper s	2.3	1.7	-0.7
CHILMP02	980	15.3	5	7			66	65.9	11.8	-0.48
CHILW5BR	979	4.3	10	2.5			56	74.6	18.6	-0.76
CHIP0111	979	15.6	7	6.7			43	65.7	12	-0.09
CHIR0043	978	55.8	28	45			235	0	0	-11.87
CHIR0055	978	56.3	20	40.1			113	3.3	0.3	-9.81
CHIR0069	979	56.9	24	42.2			144	0.9	0	-9.23
CHIR0070	979	57	16	40			93	3	0	-8.95
CHIR0074	978	55.9	34	45.3			160	0	0	-7.68
CHIR0079	980	55.2	10	35.6			120	9.1	0.1	-9.6
CHIR0080	979	58.7	15	41.3			155	0	0	-0.46
CHIR252R	978	52.4	11	36.5			81	11.1	0	-4.69
CHISITE1		48.9	28	37.9	501	252	63	14	1.2	-13.08
CHIW0064	977	45.8	13	36.2			169	17.8	0.2	-0.53
CHIW0078	979	68.1	18	31.5			79	0.4	0	-10.72
CHIW0084	979	44.7	4	28			135	27.3	0	-3.87
CHIW0105	977	49.7	6	32			70	18.2	0.1	-6.51
CHIW0106	978	62.1	8	8.3			Off lower sc	65.3	15.6	-1
CHIW0107	980	2.8	3	2.7			48	76.5	18	-0.45
CHIW0108	979	4.1	3	4			54	76	15.9	-0.48
CHIW0109	978	0.3	2	0.6			54	80.3	18.8	-0.45
CHIW0112	979	46.5	18	38.4			105	14.3	0.8	-1.48
CHIW0120	979	52.7	13	39			177	8.3	0	-3.78
CHIW0127	978	43.7	33	40.2			257	15.8	0.3	-0.77
CHIW0128	978	54.1	45	44			292	1.7	0.2	-0.65
CHIW1606	979	48.6	88	42.2			704	8.7	0.5	-0.45
CHIW1608	978	47	31	40.1			243	12.9	0	-5.5
CHIW1610	978	44.5	20	34.7			139	16.9	3.9	-0.65
CHIW1612	978	49.2	14	36.9			73	13.9	0	-0.84

Valve Adjustment	Valve Position
0	0
0	5
0	0
4	40
40	40
30	30
20	20
15	1
70	70
0	0
10	10
5	5
10	10
2	2
10	10
2	2
10	10
0	0
0	0
40	40
15	10
5	10
5	5
10	10
30	30
10	15
10	5

From: 01/10/2025 To: 31/12/2025

	Atmospheric Pressure (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Engine Output (Kwh)	Flow (scmh)	H2S (ppm)	LFG Balance (%)	O2 (%v/v)	Relative Pressure (mBar)
LC005A	978	50.9	19	37			63	10	2.1	-10.09
PBLFGXGW01	979	63.8	6	35.6			46	0.5	0.1	-2.84

Valve Adjustment	Valve Position
10	10
10	10

From: 01/10/2025 To: 31/12/2025

12/11/2025

	Atmospheric Pressure (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Engine Output (Kwh)	Flare Temperature (Deg C)	Flow (m3/hr)	Flow (scmh)	H2S (ppm)	LFG Balance (%)
CHILRIS1	991	64	8	33.1					47	2.5
CHILRIS2	991	48.6	6	32.8					47	17.6
CHILW06R	989	56.4	15	39.5					47	3.3
CHILW4AR	989	57.1	18	42.7					47	0.2
CHIR0010	989	51.7	10	36.4					47	11.9
CHIR0037	988	40.2	24	31.6					48	26.7
CHIR0041	989	52	15	38.7					47	8.7
CHIR0072	989	57.3	13	41.3					49	1.1
CHIR0081	990	29.2	6	27.7					49	42.8
CHIR0091	990	55.5	12	41.4					47	2.7
CHIR0093	990	52.5	12	40.4					47	7.1
CHISITE1		49.5	8	36	480			260	50	15.7
CHIW0064	987	49.8	8	36.4					47	13.3
CHIW0065	987	51.7	9	39.3					47	9
CHIW0066	989	50.7	16	38.6					47	10.5
CHIW0067	989	55.6	10	40.6					47	3.4
CHIW0068	989	53.6	11	38.8					47	7.2
CHIW0082	990	57.6	8	33.5					49	8.7
CHIW0083	990	59	9	38.8					49	4.6
CHIW0089	989	57.6	9	39.3					49	2.6
CHIW0094	990	5.2	7	12.8					48	71.5
CHIW0097	991	9.2	8	11.2					48	71.6
CHIW0098	990	48.9	9	32.6					48	15.8
CHIW0099	992	49.1	8	32.1					48	18.4
CHIW0100	991	50.3	10	34.8					47	13.7
CHIW0101	990	46.1	8	35					47	18.4
CHIW0102	990	0.4	6	6.7					47	75.1
CHIW0104	989	17.6	9	16					47	55.2
CHIW0105	988	56.3	10	35.1					47	7.6

O2 (%v/v)	Relative Pressure (mBar)	Valve Adjustment	Valve Position
0.4	-0.53	5	5
1	-0.53	5	5
0.8	-11.1	10	10
0	-6.24	0	0
0	-5.67	10	10
1.5	-7.41	0	0
0.6	-8.14	15	15
0.3	-8.37	100	100
0.3	-1.1	0	0
0.4	-11.44	30	30
0	-10.12	20	20
2.1	-8.61		
0.5	-1.56	5	5
0	-6.6	20	20
0.2	-7.66	20	20
0.4	-2.94	0	0
0.4	-5.15	20	20
0.2	-1.22	5	5
0.1	-1.17	20	20
0.5	-11.44	50	50
10.5	-0.29	0	0
8	-0.55	0	0
2.7	-0.64	5	5
0.4	-3.57	20	20
1.2	-2.32	30	30
0.5	-2.29	5	5
17.8	-2.37		0
11.2	-3.11	30	30
1	-5.45	5	5

From: 01/10/2025 To: 31/12/2025

	Atmospheric Pressure (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Engine Output (Kwh)	Flare Temperature (Deg C)	Flow (m3/hr)	Flow (scmh)	H2S (ppm)	LFG Balance (%)
CHIW0110	989	57	18	42					47	1
CHIW0111	989	29.5	27	20.9					46	44.7
CHIW0113	989	0.5	15	19.3					48	79.5
CHIW0115	989	46.5	12	36.5					47	17
CHIW0116	988	39.1	28	32.7					48	26.6
CHIW0117	989	6.7	12	15.2					47	75.6
CHIW0118	989	51	17	40.5					47	8.2
CHIW0121	988	49.4	15	39.9					48	10.5
CHIW0123	988	53.2	20	42.4					47	4.2
CHIW0124	989	50.7	22	39.8					47	9
CHIW0125	988	54.5	16	42.1					47	3.1
CHIW0126	987	53.6	16	44.8					50	1.5
CHIW1601	987	53.7	13	40.4					47	5.8
CHIW1602	987	53.2	17	42.6					47	4
CHIW1603	988	55.2	16	43.9					47	0.9
CHIW1604	988	46.3	23	38.9					48	14.5
CHIW1605	990	47.6	14	38.1					47	14
CHIW1606	988	53.8	43	45.7					47	1.1
CHIW1609	988	50.4	15	37.1					50	11.6
CHIW1611	990	53.5	13	38.3					50	7.8
GW44	988	51	7	39.1					48	9.1
GW48	991	51.1	9	32.2					47	15.9
GW56	988	57.6	12	38.6					48	3.3
GW57	989	52.5	21	40.1					47	7
GW88	989	50.8	12	37.9					48	11.2
LC01B	988	1.1	12	16.2					46	66.1
LM04B	988	58.5	29	41.6					47	1.6
LM07B	990	59.3	12	37.8					47	2.4
PBLFGXGW03	989	63	7	37.2					48	0
PBLFGXGW07	990	57.8	5	33.2					48	8.1

O2 (%v/v)	Relative Pressure (mBar)	Valve Adjustment	Valve Position
0	-8.47	15	15
4.9	-7.32	0	0
0.7	-0.5	0	0
0	-4.64	5	5
1.6	-1.51	0	0
2.5	-0.82	0	0
0.3	-10.7	20	20
0.2	-5	5	5
0.2	-0.76	0	0
0.5	-0.55	21	2
0.3	-1.25	10	10
0.1	-0.33	2	2
0.1	-1.13	5	5
0.2	-2.06	5	5
0	-0.72		
0.3	-0.62	5	5
0.3	-4.38	5	5
0.2	-1.82	20	20
0.9	-3.99	15	15
0.4	-5.7	5	5
0.8	-4.71	20	20
0.8	-2.71	0	0
0.5	-2.47	0	0
0.4	-10.26	30	30
0.1	-8.16	30	30
16.6	-0.21	0	0
0.5	-3.61	2	2
0.5	-11.31	10	10
0	-2.29	10	10
0.9	-5.72	10	10

From: 01/10/2025 To: 31/12/2025

	Atmospheric Pressure (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Engine Output (Kwh)	Flare Temperature (Deg C)	Flow (m3/hr)	Flow (scmh)	H2S (ppm)	LFGBalance (%)
PBLFGXGW18	988	56.1	6	40.3					48	3.6
PBLFGXGW28	989	59.4	5	39.1					48	1
PBLFGXGW29	989	62.4	6	37.4					48	0.2
PBLFGXGW30	989	62.5	6	37.3					49	0.1
PYBFLARE		14.3		22.8		0	0			56.2

O2 (%v/v)	Relative Pressure (mBar)	Valve Adjustment	Valve Position
0	-2.78	10	10
0.5	-0.43	5	5
0	-7.32	10	10
0.1	-0.79	2	2
6.7	0.34		

From: 01/10/2025 To: 31/12/2025

13/11/2025

	Atmospheric Pressure (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Engine Output (Kwh)	Flow (scmh)	H2S (ppm)	LFG Balance (%)	O2 (%v/v)	Relative Pressure (mBar)
CHILMP01	985	73.8	6	23.8			47	2.1	0.3	-0.6
CHILMP02	995	20.6	7	11.6			47	60.5	7.3	-0.41
CHILW5BR	995	2.1	6	4.9			46	74.1	18.9	-3.83
CHIP0111	995	19.9	10	13.4			47	59.6	7.1	-0.58
CHIR0043	994	53.7	15	42.8			47	3.5	0	-22.78
CHIR0055	994	56.3	12	40.9			47	2.7	0.1	-23.71
CHIR0069	994	54.8	16	42.3			47	2.9	0	-18.95
CHIR0070	995	60.2	12	37.2			47	2.1	0.5	-17.89
CHIR0073	993	54.7	15	38			50	6.8	0.5	-0.81
CHIR0074	994	54.1	16	43			47	2.8	0.1	-11.39
CHIR0079	996	58.4	15	38.7			48	2.9	0	-8.4
CHIR0080	995	25.5	10	9.5			47	54.4	10.6	-1.51
CHIR252R	994	51.4	9	34.9			30	13.2	0.5	-7.75
CHISITE1		48	14	36.8	249	150	50	15.5	2.3	-5.41
CHIW0078	995	66.3	12	31			47	2.3	0.4	-12.73
CHIW0084	995	55.6	6	26.9			47	17.5	0	-7.87
CHIW0105	994	58.1	8	33.5			43	8.4	0	-5.95
CHIW0106	994	21.6	5	17.8			35	60.6	0	-2.32
CHIW0107	995	12	8	11.7			37	68.2	8.1	-1.34
CHIW0108	995	13.8	5	11			47	64.7	10.5	-0.95
CHIW0109	995	0.1	5	3.8			47	78	18.1	-1.22
CHIW0112	995	50.6	12	36.5			47	11.9	1	-3.47
CHIW0120	994	48.3	8	34.1			36	17.6	0	-11.6
CHIW0127	994	51.1	19	42.3			49	7	0.2	-2.22
CHIW0128	994	44.7	22	37.5			46	14.5	3.3	-1
CHIW1608	994	49	16	40.9			46	9.8	0.3	-7.08
CHIW1610	994	32.5	10	27.2			46	32.8	7.5	-3.88
CHIW1612	994	41.8	9	34.3			35	23.4	0.5	-1.56
LC005A	994	19.9	9	17.9			47	50.1	12.1	-19.07

Valve Adjustment	Valve Position
0	0
22	5
0	0
50	50
30	30
30	30
40	40
5	5
10	10
60	60
0	0
5	5
10	10
5	5
5	5
0	0
0	0
0	0
0	0
30	30
15	15
10	5
5	5
30	30
5	10
5	5
2	10

From: 01/10/2025 To: 31/12/2025

	Atmospheric Pressure (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Engine Output (Kwh)	Flow (scmh)	H2S (ppm)	LFG Balance (%)	O2 (%v/v)	Relative Pressure (mBar)
PBLFGXGW01	995	64.6	9	35.1			35	0.3	0	-6.27

Valve Adjustment	Valve Position
10	10

From: 01/10/2025 To: 31/12/2025

03/12/2025

	Atmospheric Pressure (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Engine Output (Kwh)	Flare Temperature (Deg C)	Flow (m3/hr)	Flow (scmh)	H2S (ppm)	LFG Balance (%)
CHILRIS1	996	61	12	35.1					50	3.3
CHILRIS2	996	29.9	6	23.8					51	41
CHILW06R	994	58.2	38	39.2					60	2.3
CHILW4AR	993	58.2	42	41.5					124	0.2
CHIR0010	993	48.8	22	35.9					56	15.3
CHIR0037	992	40	39	34.4					7	24.5
CHIR0041	993	47.8	31	40.3					135	12.6
CHIR0072	994	59.2	29	41.5					131	0
CHIR0073	997	39	17	32.2					256	25.1
CHIR0081	995	0.1	0	6.5					50	87.9
CHIR0091	994	58.9	30	42.6					61	0
CHIR0093	995	48.4	21	39.3					0	12.3
CHISITE1		46	31	36.1	503			302	138	19.3
CHIW0064	992	48	23	35.3					158	16.7
CHIW0065	992	49.7	25	37.8					93	12.1
CHIW0066	993	49.1	31	37.8					91	13.1
CHIW0067	995	44.1	15	40.5					252	15.5
CHIW0068	994	49.8	17	40.2					191	9.8
CHIW0082	995	28.5	9	24.8					65	42.6
CHIW0083	995	39.2	18	35.6					58	24.8
CHIW0089	994	57.6	14	40.8					119	1.4
CHIW0094	995	0.1	8	0.3					50	80.8
CHIW0097	996	2.7	5	4					50	78.9
CHIW0098	995	28.2	12	23.9					50	40.6
CHIW0099	995	31.8	12	32.5					67	35.2
CHIW0100	995	48.3	14	34.1					73	16.1
CHIW0101	995	39.8	9	34.8					84	24.9
CHIW0102	994	0	6	0.1					36	78.6
CHIW0104	993	4.2	19	4.1					829	73.7

O2 (%v/v)	Relative Pressure (mBar)	Valve Adjustment	Valve Position
0.6	-6.49	15	10
5.3	-0.67	0	0
0.5	-17.78	10	5
0.1	-0.22	0	0
0	-6.98	25	20
1.1	-0.67	0	0
0.4	-14.54	20	20
0.3	-11.92	100	100
3.7	-4.85	2	5
5.5	-1.36	0	0
0	-16.2	30	30
0	-15.14	30	30
1.8	-7.9		
0	-1.07	5	5
0.4	-5.67	15	15
0	-16.37	20	20
0	-6.39	2	2
0.5	-9.14	30	30
4.1	-3.66	2	5
0.4	-3.06	20	25
0.2	-18.2	40	40
18.8	-1.1	0	0
14.4	-0.76	0	0
7.3	-2.9	0	5
0.5	-6.7	5	10
1.5	-6.65	30	30
0.5	-6.15	2	2
20.9	-3.81	0	0
18	-9.54	0	0

From: 01/10/2025 To: 31/12/2025

	Atmospheric Pressure (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Engine Output (Kwh)	Flare Temperature (Deg C)	Flow (m3/hr)	Flow (scmh)	H2S (ppm)	LFG Balance (%)
CHIW0110	995	57.6	76	43.7					192	0
CHIW0111	993	2.5	34	3.3					52	92.6
CHIW0113	995	0.4	29	16.3					56	81.6
CHIW0115	995	41.2	30	36.8					229	21.9
CHIW0116	993	12.4	39	5.5					52	81.8
CHIW0117	993	1.6	27	13.7					54	84.5
CHIW0118	992	46.6	49	40.3					40	13.1
CHIW0121	992	48.1	28	38.5					240	13.4
CHIW0123	992	58.2	72	44.3					333	0
CHIW0124	992	38.1	41	37.7					0	24.2
CHIW0125	992	15	33	27.6					57	56
CHIW0126	991	48.1	42	41.3					266	10.6
CHIW1601	991	38.1	31	36.9					56	24.8
CHIW1602	991	46.4	37	40					231	13.2
CHIW1603	991	1.4	22	16.2					43	65.5
CHIW1604	993	32.1	37	34.5					83	32.5
CHIW1605	994	42.2	48	37.2					555	19.6
CHIW1606	992	56.1	79	44.1					143	0
CHIW1609	995	18	8	14.8					51	54.4
CHIW1611	994	7.7	3	6.5					50	68.5
GW44	992	52.1	23	39.3					114	8.6
GW48	994	37.5	17	33.9					182	26.8
GW56	992	61.1	25	38.7					154	2.9
GW57	992	54.5	43	39					233	6.5
GW88	995	44.7	24	36.5					104	18.4
LC01B	991	2.2	31	16.6					84	68.9
LM04B	993	33.4	51	25.2					43	33.5
LM07B	996	53.8	23	36					46	8.4
PBLFGXGW03	994	57.9	18	34					65	6.6
PBLFGXGW07	994	54	20	34.8					72	11.4

O2 (%v/v)	Relative Pressure (mBar)	Valve Adjustment	Valve Position
0.5	-1.03	30	30
1.6	-0.6	0	0
1.7	-0.77	0	0
0.1	-7.58	5	5
0.3	-0.69	0	0
0.2	-10.1	0	0
0	-15.5	30	30
0	-3.95	5	5
0.4	-1.19	2	2
0	-0.93	2	2
1.4	-0.6	0	0
0	-0.64	10	10
0.2	-0.65	2	2
0.4	-0.74	2	2
16.9	-0.62		
0.9	-0.93	0	2
1	-6.99	10	10
0	-1.15	25	25
12.8	-6.96	5	10
17.3	-8.87	0	1
0	-3.95	30	25
1.8	-18.16	0	0
0.3	-1.24	2	2
0	-15.31	30	30
0.4	-13.37	25	25
12.3	-0.65	0	0
7.9	-12.73	1	2
1.8	-17.87	20	20
1.5	-0.98	2	2
0.3	-5.34	20	2

From: 01/10/2025 To: 31/12/2025

	Atmospheric Pressure (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Engine Output (Kwh)	Flare Temperature (Deg C)	Flow (m3/hr)	Flow (scmh)	H2S (ppm)	LFG Balance (%)
PBLFGXGW18	993	52.3	15	38.1					122	9.1
PBLFGXGW28	993	59.1	16	39.3					115	27.3
PBLFGXGW29	993	62.5	16	36.8					77	0.7
PBLFGXGW30	993	60.7	21	38					51	4.5
PYBFLARE		6.4		5.9		0	0			69.6

O2 (%v/v)	Relative Pressure (mBar)	Valve Adjustment	Valve Position
0.5	-3.33	2	2
7	-3.51	5	5
0	-8.99	151	15
0.8	-6.63	5	5
18.1	-0.57		

From: 01/10/2025 To: 31/12/2025

10/12/2025

	Atmospheric Pressure (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Engine Output (Kwh)	Flow (scmh)	H2S (ppm)	LFG Balance (%)	O2 (%v/v)	Relative Pressure (mBar)
CHILMP01	998	70.8	4	25.7			63	3.9	0	-2.84
CHILMP02	998	22.8	7	11.8			51	59.7	5.7	-0.53
CHILW5BR	998	0.7	8	0.5			50	78	20.8	-2.01
CHIP0111	998	23.6	10	12			51	58.7	5.7	-0.52
CHIR0043	997	55.7	26	43.5			225	0.5	0.3	-20.7
CHIR0055	998	55.6	22	39.1			97	5.3	0	-18.73
CHIR0069	997	53.9	25	41.1			133	5	0	-20.46
CHIR0070	997	56.3	20	38.7			104	5	0	-18.18
CHIR0074	997	56.2	33	44.2			159	0	0	-19.59
CHIR0079	998	58.4	11	36.8			115	4.3	0.5	-19.97
CHIR0080	998	19.8	7	10.2			52	67.2	2.8	-3.93
CHIR252R	997	59	14	35.1			111	6.3	0	-13.59
CHISITE1		44.3	27	35.3	500	301	131	20.9	2	-23.01
CHIW0078	998	65.8	22	29.9			58	3.9	0.4	-19.83
CHIW0084	998	28.3	5	25.3			129	46.4	0	-9.74
CHIW0105	996	47.6	9	32.3			89	20.1	0	-18.83
CHIW0106	997	32	3	6			104	60.3	1.7	-3.73
CHIW0107	998	13.1	6	6.8			47	71.3	8.8	-0.57
CHIW0108	998	2	3	2.7			60	80.7	14.6	-0.55
CHIW0109	998	0	2	0.4			49	78.9	20.7	-1.67
CHIW0112	997	41.7	21	35.3			106	21.2	1.8	-5.82
CHIW0120	997	40.3	13	34.5			246	25.2	0	-15.77
CHIW0127	996	48.6	43	41.6			269	9.8	0	-5.41
CHIW0128	997	11.8	33	26.5			37	60.9	0.8	-3.16
CHIW1608	996	47.1	39	40.3			229	12.6	0	-13.59
CHIW1610	997	2.3	12	2.2			45	75.9	19.6	-4.74
CHIW1612	997	37	17	33.6			103	29.4	0	-5.12
LC005A	997	58.4	23	40.1			58	1.4	0.1	-11.34
PBLFGXGW01	997	54.6	10	32.8			84	11.8	0.8	-18.61

Valve Adjustment	Valve Position
2	2
0	5
0	0
70	70
40	40
20	20
30	30
20	20
60	60
0	0
20	20
10	10
0	5
10	5
0	0
0	0
0	0
0	0
30	30
10	10
5	5
	2
30	30
0	2
5	5
20	20
10	10

GROUNDWATER QUALITY REPORT

From: 01/10/2025 To: 31/12/2025

19/11/2025

	Alkalinity (CaCO ₃ :m g/l)	Ammonia cal Nitrogen (N:mg/l)	BOD (mg/l)	Calcium (Diss) (mg/l)	Chloride (mg/l)	Chromium (Diss) (mg/l)	COD (mg/l)	Conductiv ity (uS / cm)	Dissolved Oxygen (Lab) (mg/l)	Lead (Diss) (mg/l)
PBBH0004	541	0.6	<1	11	112	<0.001	13	1590	7.7	<0.0002
PBBH0007	313	0.4	2.4	23	51	<0.001	<5	800	6.8	<0.0002
PBBH0008	298	0.3	<1	9	19	<0.001	<5	648	11.2	<0.0002
PBBH0009	349	0.16	<1	37	23	<0.001	<5	854	8.4	<0.0002
PBBH0010	341	0.9	<1	55	21	<0.001	<5	829	10.5	<0.0002
PBBH0012	937	3.3	3.5	319	393	<0.001	13	6280	6.1	<0.0002
PBBH0013	536	0.8	<1	118	72	<0.001	17	2410	9.5	<0.0002
PBBH0014	362	0.1	3.9	237	58	<0.001	<5	1500	9.1	<0.0002
PBT00002	136	0.05	<1	123	14	<0.001	7	826	10	<0.0002
PBT00004	122	0.14	4	87	12	<0.001	<5	593	9.4	<0.0002
PBT00006	384	0.02	<1	156	28	<0.001	5	1080	9.4	<0.0002
PBT00012	129	0.1	<1	153	21	<0.001	6	990	10.8	<0.0002
PBT00013	344	1	<1	168	35	<0.001	8	1270	9.6	<0.0002

Magnesium (Diss) (mg/l)	pH (Lab)	Potassium (Diss) (mg/l)	Purge Volume (litres)	Sulphide (mg/l)	Suspended Solids (mg/l)	Total Organic Carbon (mg/l)	Total Oxidised Nitrogen (mg/l)	Water Temperature (Deg C)	Zinc (Diss) (mg/l)
2	7.7	6	95	0.57	22	6.06	<0.2	9.7	0.006
4	7.7	7	35	0.1	290	2.45	0.2	8.5	0.009
3	7.4	6		0.59	10	0.59	0.5	7.8	0.012
10	7.4	10	10	<0.02	33	1.71	1.1	10.8	0.008
17	7.3	13	10	<0.02	23	0.74	<0.2	10.9	0.011
86	6.6	54	35	0.11	1020	6.5	<0.2	10.2	0.02
18	7.2	14	30	0.36	40	8.15	<0.2	11	0.01
29	7	8	40	<0.02	99	3.44	<0.2	10.5	0.019
26	6.8	6	7	<0.02	83	4.12	2.2	8	0.02
15	7.2	3		0.18	35	2.65	1.9	9.4	0.014
24	7	5		0.08	139	3.7	0.7	9.7	0.012
25	6.6	3		0.03	23	3.52	2	10.8	0.03
39	6.8	8	20	0.07	66	4.8	0.7	10.4	0.014

LEACHATE QUALITY REPORT

From: 01/10/2025 To: 31/12/2025

16/10/2025

	Alkalinity (CaCO3:mg/l)	Ammoniacal Nitrogen (N:mg/l)	Arsenic (Diss) (mg/l)	BOD (mg/l)	Cadmium (Diss) (mg/l)	CH4 (Diss) (mg/l)	Chloride (mg/l)	Chromium (Diss) (mg/l)	COD (mg/l)	Conductivity (Field) (uS / cm)
LC0003										
LM04B										
LM05B										
LM07B										
PBLC001D										
PBLC004BR										
PBLC5B										
PBLM6B										
PBLT0001	20000	3700	0.152	3930	0.00178	2.27	2280	0.268	9830	20000

Copper (Diss) (mg/l)	Field Comments	Iron (Diss) (mg/l)	MCCP (Mecopro p) (UG/L)	pH (Field)	pH (Lab)	Phosphorous (P:mg/l)	Suspended Solids (mg/l)	Water Temperature (Deg C)	Zinc (Diss) (mg/l)
	Pumping								
	Dry								
	Pumping								
	Pumping								
	Not Pumpin								
	Pumping								
	Pumping								
	Pumping								
0.019	Sampled	5.17	106	8.9	8.3	28.4	94	10.5	0.246

From: 01/10/2025 To: 31/12/2025

19/11/2025

	Alkalinity (CaCO ₃ :mg/l)	Ammoniacal Nitrogen (N:mg/l)	Arsenic (Diss) (mg/l)	BOD (mg/l)	Cadmium (Diss) (mg/l)	CH ₄ (Diss) (mg/l)	Chloride (mg/l)	Chromium (Diss) (mg/l)	COD (mg/l)	Conductivity (Field) (uS / cm)
LC0003										
LM04B										
LM05B										
LM07B		3130		440			1760		4650	
PBLC001D										
PBLC004B		5310		6240			3790		18200	
PBLC5B		4370		4860			2590		14100	
PBLM6B										
PBLT0001	12000	2690	0.114	2120	0.00111	5.82	1670	0.263	6610	20000

Conductivity (uS / cm)	Copper (Diss) (mg/l)	Field Comments	Iron (Diss) (mg/l)	MCPP (Mecopro p) (UG/L)	pH (Field)	pH (Lab)	Phosphorous (P:mg/l)	Suspended Solids (mg/l)	Water Temperature (Deg C)	Zinc (Diss) (mg/l)
		Not pumpin								
		Dry								
		Pumping								
33300		Pumping - S				8			20.6	
		Ins Liq								
49100		Pumping - S				8.3			26.7	
44100		Pumping - S				8.3			20.8	
		Pumping								
	<0.010	Sampled	7.35	54	8.7	8.2	20.6	39	5.3	0.095

From: 01/10/2025 To: 31/12/2025

17/12/2025

	Alkalinity (CaCO3:mg/l)	Ammoniacal Nitrogen (N:mg/l)	Arsenic (Diss) (mg/l)	BOD (mg/l)	Cadmium (Diss) (mg/l)	CH4 (Diss) (mg/l)	Chloride (mg/l)	Chromium (Diss) (mg/l)	COD (mg/l)	Conductivity (Field) (uS / cm)
LC0003										
LM04B										
LM05B										
LM07B										
PBLC001D										
PBLC004BR										
PBLC5B										
PBLM6B										
PBLT0001	13500	2980	0.124	3330	0.0023	0.05	1880	0.216	8970	20000

Copper (Diss) (mg/l)	Field Comments	Iron (Diss) (mg/l)	MCPP (Mecopro p) (UG/L)	pH (Field)	pH (Lab)	Phosphorous (P:mg/l)	Suspended Solids (mg/l)	Water Temperature (Deg C)	Zinc (Diss) (mg/l)
	Pumping								
	Not Pumpin								
	Pumping								
	Pumping								
	Pumping								
	Pumping								
	Not Pumpin								
	Pumping								
0.013	Sampled	5.27	141	8.8	8.4	21.9	62	10.5	0.415

GROUNDWATER LEVELS REPORT

From: 01/10/2025 To: 31/12/2025

19/11/2025

	Dip to Water (m)	Total Depth (m)	Water Level (mAOD)
PBBH0004	1.54	20.09	53.10
PBBH0007	20.38	38.5	54.81
PBBH0008	14.28	52.24	70.08
PBBH0009	17.99	39.81	59.97
PBBH0010	22.95	39.93	51.29
PBBH0012	0.1	17.14	53.99
PBBH0013	1.2	15.78	51.65
PBBH0014	14.73	35.63	57.78
PBT00002	1.39	4.14	53.61
PBT00004	1.75	4.11	53.55
PBT00006	1.91	5.9	52.99
PBT00012	0.94	3.85	52.06
PBT00013	0.9	4.85	53.00

LEACHATE LEVELS REPORT

From: 01/10/2025 To: 31/12/2025

16/10/2025

	Total Depth (m)	Water Level (mAOD)
LC0003		66.7800
LM04B	47.99	
LM05B		41.49
LM07B		40.0720
PBLC001D		42.86
PBLC004BR		42.0500
PBLC5B		42.16
PBLM6B		42.2000

From: 01/10/2025 To: 31/12/2025

19/11/2025

	Total Depth (m)	Water Level (mAOD)
LC0003		67.1000
LM04B	47.99	
LM05B		40.55
LM07B		41.4620
PBLC001D		42.93
PBLC004B		39.3320
PBLC5B		41.22
PBLM6B		42.4300

From: 01/10/2025 To: 31/12/2025

17/12/2025

	Total Depth (m)	Water Level (mAOD)
LC0003		67.4200
LM04B	47.99	
LM05B		40.78
LM07B		41.2120
PBLC001D		42.91
PBLC004BR		42.1500
PBLC5B		41.77
PBLM6B		42.5100

SURFACE WATER QUALITY REPORT

From: 01/10/2025 To: 31/12/2025

10/11/2025

	Alkalinity (CaCO ₃ :mg/l)	Ammoniacal Nitrogen (N:mg/l)	Cadmium (Diss) (mg/l)	Calcium (Diss) (mg/l)	Chloride (mg/l)	Chromium (Diss) (mg/l)	COD (mg/l)	Conductivity (Field) (uS / cm)	Conductivity (uS / cm)	Copper (Diss) (mg/l)
PBLagoon1		<0.01			25		39	1590	1560	
PBLagoon2		1.7			7		20	620	588	
PBLagoon3		0.07			13		17	1790	1810	
PBWP0001	20.6	<0.01	<0.00002	8	10	<0.001	12	150	<100	<0.001
PBWP0002	19.2	<0.01	<0.00002	9	10	<0.001	13	220	<100	<0.001
PBWP0003	18.9	<0.01	<0.00002	9	10	<0.001	13	130	<100	0.001
PBWP0004										
PBWP0005										

Sodium (Diss) (mg/l)	Suspended Solids (mg/l)	Total Organic Carbon (mg/l)	Total Oxidised Nitrogen (mg/l)	Total Sulphur (Diss) (SO4:mg/l)	Water Temperature (Deg C)	Zinc (Diss) (mg/l)
	170				13.8	
	111				11.3	
	30				11.2	
5	17	4.35	0.7	7	11.4	0.023
6	<5	4.3	0.8	8	12.1	0.006
6	<5	4.38	0.7	7	13.7	0.01

GAS BAG SAMPLING

Certificate of Analysis



Client: Infinis, 500 Pavillion Drive, Northampton Business Park, Northampton, NN4 7YZ
 Date Received: 15-Dec-25 Date Reported: 17-Dec-25
 Condition of samples: Ambient and Satisfactory

Report ID:
ASC/69848

Method No		SUB - CEN SLA		SUB - CEN SLA	
Accreditation		None		None	
Client Reference		Chirk		Chirk	
		CHIW0123		CHILWM4B	
		Date Sampled: 10-Dec-25		Date Sampled: 10-Dec-25	
SOCOTEC Ref		ASC/69848.001		ASC/69848.002	
Matrix		Gas (Tedlar)		Gas (Tedlar)	
Date Tested		16/12/2025		16/12/2025	
Compound	Limit of Detection	Units	Result	Result	Result
Oxygen	1	% v/v	1		4
Nitrogen	1	% v/v	37		18
Methane	1	% v/v	30		47
Carbon Dioxide	1	% v/v	33		32
Helium	50	ppm v/v	NR		NR
Hydrogen	50	ppm v/v	NR		NR
Carbon Monoxide	5	ppm v/v	<5		<5
Hydrogen sulphide	1	ppm v/v	220		<1
Total VOCs (As Toluene)	1	mg/m3	930		890
Organic Fluorine †	2	mg/m3	<2		<2
Organic Chlorine †	5	mg/m3	<5		6
Organic Silicon †	0.4	mg/m3	8.3		1
Total Sulphur †	7	mg/m3	290		<7
Toluene	0.02	mg/m3	17		5.6
Freon 21	0.05	mg/m3	<0.05		<0.05
Freon 11	0.05	mg/m3	<0.05		2.1
Vinyl Chloride	0.3	mg/m3	<0.3		<0.3
Chloroethane	0.2	mg/m3	<0.2		<0.2
1:1 Dichloroethene	0.09	mg/m3	0.1		0.1
Dichloromethane	0.1	mg/m3	<0.1		4.6
1:1 Dichloroethane	0.06	mg/m3	<0.06		<0.06
cis 1:2 Dichloroethene	0.05	mg/m3	<0.05		<0.05
1:2 Dichloroethane	0.1	mg/m3	<0.1		<0.1
Trichloroethene	0.1	mg/m3	<0.1		<0.1
Tetrachloroethene	0.1	mg/m3	<0.1		<0.1
Chlorobenzene	0.1	mg/m3	<0.1		<0.1
Hexamethyldisiloxane	0.1	mg/m3	2.2		1.4
Hexamethylcyclotrisiloxane	0.1	mg/m3	0.4		0.9
Octamethylcyclotetrasiloxane	0.1	mg/m3	18		1.4
Decamethylcyclopentasiloxane	0.1	mg/m3	0.9		0.1
Dodecamethylcyclohexasiloxane	0.1	mg/m3	<0.1		<0.1
Methanethiol	1	mg/m3	<1		<1
Ethanethiol	0.3	mg/m3	<0.3		<0.3
Dimethylsulphide	0.1	mg/m3	8.8		2.4
Carbondisulphide	0.1	mg/m3	0.6		5
1-Propanethiol	0.2	mg/m3	<0.2		<0.2
Methylethylsulphide	0.1	mg/m3	<0.1		<0.1

Authorised by: Kiran Kular
 Position: Senior Analyst

Deviant Code Key

Codes denote a deviating sample. As a result the validity of the final test result may have been compromised.

SUB indicates that the analysis was carried out by SOCOTEC Bretby Gas laboratory, CO analysed by GC using FID and He and H2 analysed by GC using TCD.

NR - Analysis not requested

Issuing Laboratory: Advanced Chemistry and Research, Etwall House, Bretby Business Park,
 Ashby Road, Bretby, Burton-upon-Trent DE15 0YZ

Certificate of Analysis



Client: Infinis, 500 Pavillion Drive, Northampton Business Park, Northampton, NN4 7YZ
 Date Received: 15-Dec-25 Date Reported: 17-Dec-25
 Condition of samples: Ambient and Satisfactory

Report ID:
ASC/69848

Method No	SUB - CEN SLA	SUB - CEN SLA
Accreditation	None	None
Client Reference	Chirk	Chirk
	CHIW0123	CHILWM4B
	Date Sampled: 10-Dec-25	Date Sampled: 10-Dec-25
SOCOTEC Ref	ASC/69848.001	ASC/69848.002
Matrix	Gas (Tedlar)	Gas (Tedlar)
Date Tested	16/12/2025	16/12/2025

Compound	Limit of Detection	Units	Result	Result
1-Butanethiol	0.3	mg/m3	<0.3	<0.3
Dimethyldisulphide	0.1	mg/m3	<0.1	<0.1
Acetaldehyde	0.2	mg/m3	<0.2	<0.2
Benzene	0.1	mg/m3	7	0.5
1,3-Butadiene	0.07	mg/m3	<0.07	<0.07
Carbon tetrachloride	0.1	mg/m3	<0.1	<0.1
p-Dichlorobenzene	0.2	mg/m3	<0.2	<0.2
1-Pentene	0.2	mg/m3	8.6	<0.2
1,1,2,2-Tetrachloroethane	0.04	mg/m3	<0.04	<0.04
Ethylbutyrate	0.09	mg/m3	<0.09	<0.09
Furan	0.07	mg/m3	1.5	<0.07
2-Butoxyethanol	0.2	mg/m3	<0.2	<0.2
Tetramethylsilane	0.1	mg/m3	<0.1	<0.1
Trimethylsilanol	0.1	mg/m3	<0.1	<0.1
Octamethyltrisiloxane	0.1	mg/m3	0.1	<0.1
Decamethyltetrasiloxane	0.1	mg/m3	<0.1	<0.1
Dodecamethylpentasiloxane	0.1	mg/m3	<0.1	<0.1
Butyric acid	0.1	mg/m3	<0.1	<0.1
Styrene	0.1	mg/m3	0.1	0.1

Authorised by: Kiran Kular
 Position: Senior Analyst

Deviant Code Key

Codes denote a deviating sample. As a result the validity of the final test result may have been compromised.

SUB indicates that the analysis was carried out by SOCOTEC Bretby Gas laboratory, CO analysed by GC using FID and He and H2 analysed by GC using TCD.

Issuing Laboratory: Advanced Chemistry and Research, Etwall House, Bretby Business Park,
 Ashby Road, Bretby, Burton-upon-Trent DE15 0YZ