Permit Number:	TP3835LV	Operator:	SI Green UK Limited	Test method & uncertainty
Installation:	Cwmrhydyceirw Quarry			Portable infra-red analyser. Uncertainty is the accuracy of the meter.
Schedule 4 - Emissions and monitoring		Tables S4.1 & S4.6 and Table 3a from the Updated Management Report dated January 2021		
Reporting of ground and landfill gases for the period from		Quarter 1	01 January - 31 March	2023

Cwmrhydyceirw Quarry: Site Monitoring January 2023

Borehole		Water Level (m)	CH4	CO2	O2	Balance	CO (ppm)	Gas Pressure	Internal flow (l/h)	Barom Press	Bottom Bor Lev	Ground Lev (mAOD)	Wat Lev (mAOD)	Boreh on surf. (m)	Boreh Bottom (m)	Water Column (m)	
Emission Limit Value			no limit set	no limit set	no limit set		no limit set										GAS IN WASTE
L1C/09	10/01/2023	10.72	27.8	16.9	2	42.6	2	0.00	0.0	1001	35.45	46.50	36.27	0.49	11.54	0.82	
L3/09R	10/01/2023	11.28	5.1	4.6	14	75.8	0	0.00	0.0	1001	36.62	46.34	36.46	1.40	11.12	-0.16	
L6/09	10/01/2023	10.37	0.0	0.2	21	78.4	0	0.00	0.0	1001	34.02	46.83	37.38	0.92	13.73	3.36	
L9B/09	10/01/2023	10.82	12.9	4.6	14	67.2	0	0.00	0.0	1001	36.32	46.51	36.84	1.15	11.34	0.52	
L11/09	10/01/2023	11.67	32.2	6.6	7	52.6	1	0.00	0.0	1001	33.46	47.12	36.21	0.76	14.42	2.75	
L13/09			*No access*								40.95	46.98	47.75	0.77	6.80	6.80	
L14/09R			*No access*								28.55	39.00	39.10	0.10	10.55	10.55	
L16/09	10/01/2023	10.32	5.3	1.7	20	76.7	0	0.00	0.0	1001	35.31	46.90	37.31	0.73	12.32	2.00	
L19/09			*No access*								41.93	47.18	47.87	0.69	5.94	5.94	
L21/09R	10/01/2023	8.49	12.4	11.5	4	68.5	0	0.00	0.0	1001	33.98	43.84	36.63	1.28	11.14	2.65	
L23/09			*No access*								34.74	45.85	46.14	0.29	11.40	11.40	
L26/09	10/01/2023	8.49	12.6	1.0	7	79.3	0	0.00	0.0	1001	36.64	43.33	35.66	0.82	7.51	-0.98	
L1/20	10/01/2023	0.32	0.0	0.0	22	78.2	0	0.00	0.0	1001	34.29	43.21	44.28	1.39	10.31	9.99	
L2/20			*No access*								36.81	41.51	42.81	1.30	6.00	6.00	
L3/20	10/01/2023	10.72	0.5	0.7	13	85.9	0	0.00	0.0	1001	34.54	47.40	38.09	1.41	14.27	3.55	
L4/20	10/01/2023	7.42	0.0	0.1	22	78.1	0	0.00	0.0	1001	33.63	43.32	37.30	1.40	11.09	3.67	
L5/20	10/01/2023	9.52	16.4	0.2	11	70.0	1	0.00	0.0	1001	40.05	47.73	39.56	1.35	9.03	-0.49	
L6/20	10/01/2023	9.97	15.6	9.5	7	66.1	0	0.00	0.0	1001	33.07	44.73	36.12	1.36	13.02	3.05	
L7/20	10/01/2023	5.62	9.4	2.1	4	84.7	1	0.00	0.0	1001	42.75	47.34	43.17	1.45	6.04	0.42	
L8/20	10/01/2023	10.31	1.6	3.0	14	81.0	0	0.00	0.0	1001	34.04	44.94	35.91	1.28	12.18	1.87	
L9/20	10/01/2023	10.72	8.9	9.1	11	71.3	0	0.00	0.0	1001	35.86	45.57	36.25	1.40	11.11	0.39	

Permit Number:	TP3835LV	Operator:	SI Green UK Limited	Test method & uncertainty
Installation:	Cwmrhydyceirw Quarry			Portable infra-red analyser. Uncertainty is the accuracy of the meter.
Schedule 4 - Emissions and monitoring		Tables S4.1 & S4.6 and Table 3a from the Updated Management Report dated January 2021		
Reporting of ground and landfill gases for the period from		Quarter 1	01 January - 31 March	2023

Cwmrhydyceirw Quarry: Site Monitoring January 2023

Borehole		Water Level (m)	CH4	CO2	O2	Balance	CO (ppm)	Gas Pressure	Internal flow (l/h)	Barom Press	Bottom Bor Lev	Ground Lev (mAOD)	Wat Lev (mAOD)	Boreh on surf. (m)	Boreh Bottom (m)	Water Column (m)	
Emission Limit Value			1.0% vol.	no limit set	no limit set		no limit set										
LFG**2R**	11/01/2023	5.42	0.0	0.1	19	81.4	0	0.02	0.0	1003	32.06	56.40	51.43	0.45	24.79	19.37	
LFG**3**	11/01/2023	8.37	0.0	0.1	22	77.9	0	-5.57	2.8	1003	33.27	56.60	48.68	0.45	23.78	15.41	
LFG**4**	11/01/2023	Dry	0.0	5.7	15	78.9	0	-0.05	0.0	1003	-6.01		#VALUE!	0.55	6.56	#VALUE!	
LFG**5**	11/01/2023	25.28	0.0	2.5	11	86.8	0	0.09	0.2	1003	31.66	61.93	37.05	0.40	30.67	5.39	
LFG**6**	11/01/2023	5.02	0.0	0.4	21	78.9	0	-0.05	0.2	1003	34.37	62.41	57.49	0.10	28.14	23.12	
LFG**7BG**	11/01/2023	6.06	0.0	0.1	22	77.9	0	0.01	0.1	1003	51.76	62.07	56.48	0.47	10.78	4.72	
LFG**8**	11/01/2023	25.62	0.0	0.3	20	79.6	0	0.05	0.2	1003	31.69	62.32	37.20	0.50	31.13	5.51	
LFG**9**	11/01/2023	Dry	1.0	1.5	0	97.9	0	0.04	0.2	1003	32.08	62.21	#VALUE!	0.47	30.60	#VALUE!	
LFG**10**	11/01/2023	20.91	0.0	1.4	15	83.6	0	-0.07	0.2	1003	32.55	62.39	41.93	0.45	30.29	9.38	
LFG**11**	11/01/2023	14.92	0.0	0.8	19	79.8	0	-2.11	0.3	1003	35.14	64.07	49.55	0.40	29.33	14.41	
LFG**11A**	11/01/2023	16.81	0.0	0.1	22	78.2	0	-0.18	0.1	1003	33.72	63.14	46.83	0.50	29.92	13.11	
LFG**12BG**	11/01/2023	13.95	0.0	0.1	21	78.3	0	-0.07	0.2	1003	33.97	64.61	51.11	0.45	31.09	17.14	
LFG**13**	11/01/2023	16.43	0.0	3.4	14	82.2	0	0.09	0.2	1003	33.55	65.21	49.28	0.50	32.16	15.73	
LFG**17**	10/01/2023	26.25	0.0	0.5	19	80.2	0	0.05	0.1	1001	28.07	67.44	41.60	0.41	39.78	13.53	
LFG**18R**			*Covered*								33.84	69.66	69.66	0.00	35.82	35.82	
LFG**19**	10/01/2023	35.86	0.0	0.1	22	78.1	0	0.09	0.2	1001	29.62	69.70	34.16	0.32	40.40	4.54	
LFG**20**	10/01/2023	25.88	0.0	0.1	20	79.5	0	0.01	0.3	1001	30.25	69.95	44.40	0.33	40.03	14.15	
LFG**21BG**	10/01/2023	7.46	0.0	0.2	21	79.6	0	0.02	0.1	1001	31.89	75.46	68.60	0.60	44.17	36.71	
LFG**22**	10/01/2023	25.22	0.0	2.3	16	82.2	0	0.04	0.1	1001	29.22	69.20	44.43	0.45	40.43	15.21	
LFG**23**			*Replaced but not decommissioned due to inaccessibility*								0.00		0.00			0.00	
LFG**23R**			*Not monitored*								0.00		0.00			0.00	
LFG**24**	10/01/2023	4.82	0.0	5.6	18	75.9	0	0.30	0.1	1001	30.67	73.28	68.79	0.33	42.94	38.12	
LFG**24R-A**			*Not monitored*								0.00		0.00			0.00	
LFG**24R-B**			*Not monitored*								0.00		0.00			0.00	
LFG**25**	10/01/2023	3.48	0.0	9.2	4	88.5	0	-0.02	-0.5	1001	30.07	71.50	68.33	0.31	41.74	38.26	
LFG**25R-A**			*Not monitored*								0.00		0.00			0.00	
LFG**25R-B**			*Not monitored*								0.00		0.00			0.00	
LFG**26**	10/01/2023	26.32	0.0	3.8	15	81.1	0	0.26	-0.2	1001	40.48	69.51	43.49	0.30	29.33	3.01	
LFG**26R-A**			*Not monitored*								0.00		0.00			0.00	
LFG**26R-B**			*Not monitored*								0.00		0.00			0.00	
LFG**27**			*Not monitored*								0.00		0.00			0.00	
LFG**27R-A**	10/01/2023	4.33	1.2	0.5	0	98.0	0	0.21	3.2	1001	32.62	67.84	63.76	0.25	35.47	31.14	
LFG**27R-B**	10/01/2023	5.05	0.0	1.2	20	78.3	0	-0.54	0.2	1001	32.62	67.84	63.04	0.25	35.47	30.42	
LFG**35R**	10/01/2023	20.56	0.0	0.7	20	79.2	0	-1.84	0.1	1001	29.64	61.60	41.54	0.50	32.46	11.90	
LFG**39**	10/01/2023	12.95	0.0	0.5	90.7	79.6	0	2.02	-0.7	1001	28.65	44.57	32.15	0.53	16.45	3.50	
LFG**40**	10/01/2023	11.84	0.0	0.1	4.7	95.1	0	-5.34	-0.7	1001	31.87	45.07	33.69	0.46	13.66	1.82	
LFG**41**	10/01/2023	11.26	0.4	5.6	13.6	80.5	0	11.33	3.1	1001	30.26	45.06	34.34	0.54	15.34	4.08	
LFG**42**	10/01/2023	7.18	0.0	0.1	19.6	80.2	0	-0.04	1.4	1001	29.72	45.65	38.94	0.47	16.40	9.22	
LFG**43R**	10/01/2023	18.11	0.0	2.4	9	89.3	0	-0.90	0.1	1001	30.34	66.62	48.97	0.46	36.74	18.63	
LFG**44R**	10/01/2023	30.55	0.0	6.2	4.7	90.2	0	-0.65	0.2	1001	31.40	64.76	34.58	0.37	33.73	3.18	
LFG**45**			*Covered*								30.20	61.52	61.83	0.31	31.63	31.63	
LFG**46R**	10/01/2023	27.58	0.0	0.2	21.6	78.2	0	-0.60	0.1	1001	29.83	62.54	35.39	0.43	33.14	5.56	
LFG**47R**	10/01/2023	18.71	0.0	0.6	20.7	78.6	0	-1.53	0.1	1001	31.16	63.28	44.96	0.39	32.51	13.80	
LFG**48R**	10/01/2023	5.30	0.0	0.1	78.4	82.9	0	-3.04	0.6	1001	30.26	52.12	46.85	0.03	21.89	16.59	
LFG**49**	10/01/2023	12.38	0.0	5.5	14	80.4	0	-1.12	-0.1	1001	31.26	53.12	40.77	0.03	21.89	9.51	
LFG**50**	10/01/2023	12.63	29.2	4.9	0.7	65.2	0	-2.25	0.1	1001	32.26	54.12	41.52	0.03	21.89	9.26	
LFG**51**	10/01/2023	12.08	4.7	9.2	1.5	84.7	0	-1.46	0.1	1001	33.26	55.12	43.07	0.03	21.89	9.81	

GAS EXTERNAL WASTE

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.
[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed …Guy Titman **Date…25/04/2023**
(Authorised to sign as representative of Operator)

Permit Number:	TP3835LV	Operator:	SI Green UK Limited	Test method & uncertainty
Installation:	Cwmrhydyceirw Quarry			Portable infra-red analyser. Uncertainty is the accuracy of the meter.
Schedule 4 - Emissions and monitoring		Tables S4.1 & S4.6 and Table 3a from the Updated Management Report dated January 2021		
Reporting of ground and landfill gases for the period from		Quarter 1	01 January - 31 March	2023

Cwmrhydyceirw Quarry: Site Monitoring February 2023

Borehole		Water Level (m)	CH4	CO2	O2	Balance	CO (ppm)	Gas Pressure	Internal flow (l/h)	Barom Press	Bottom Bor Lev	Ground Lev (mAOD)	Wat Lev (mAOD)	Boreh on surf. (m)	Boreh Bottom (m)	Water Column (m)	
Emission Limit Value			no limit set	no limit set	no limit set		no limit set										GAS IN WASTE
L1C/09	02/02/2023	12.99	52.0	19.3	2	30.3	1	0.00	0.0	1024	35.45	46.50	34.00	0.49	11.54	-1.45	
L3/09R	02/02/2023	10.54	0.3	0.4	21	78.2	0	0.00	0.0	1024	36.62	46.34	37.20	1.40	11.12	0.58	
L6/09	02/02/2023	11.14	0.0	0.5	21	78.4	0	0.00	0.0	1024	34.02	46.83	36.61	0.92	13.73	2.59	
L9B/09	02/02/2023	10.47	5.4	1.7	19	74.7	0	0.00	0.0	1024	36.32	46.51	37.19	1.15	11.34	0.87	
L11/09	02/02/2023	12.87	65.6	8.6	5	19.5	0	0.00	0.0	1024	33.46	47.12	35.01	0.76	14.42	1.55	
L13/09			*Covered*								40.95	46.98	47.75	0.77	6.80	6.80	
L14/09R			*Missing*								28.55	39.00	39.10	0.10	10.55	10.55	
L16/09	02/02/2023	7.32	0.0	0.1	22	78.1	0	0.00	0.0	1024	35.31	46.90	40.31	0.73	12.32	5.00	
L19/09	02/02/2023	7.25	0.0	0.1	21	78.4	0	0.00	0.0	1024	41.93	47.18	40.62	0.69	5.94	-1.31	
L21/09R	02/02/2023	8.59	0.0	0.1	22	78.2	0	0.00	0.0	1024	33.98	43.84	36.53	1.28	11.14	2.55	
L23/09			*Covered*								34.74	45.85	46.14	0.29	11.40	11.40	
L26/09	02/02/2023	Dry	19.4	1.1	6	74.4	0	0.00	0.0	1024	36.64	43.33	#VALUE!	0.82	7.51	#VALUE!	
L1/20	02/02/2023	11.63	0.0	0.1	22	78.2	0	0.00	0.0	1024	34.29	43.21	32.97	1.39	10.31	-1.32	
L2/20			*Flooded*								36.81	41.51	42.81	1.30	6.00	6.00	
L3/20	02/02/2023	12.91	0.0	0.1	22	78.3	0	0.00	0.0	1024	34.54	47.40	35.90	1.41	14.27	1.36	
L4/20	02/02/2023	7.49	0.3	0.2	21	78.4	1	0.00	0.0	1024	33.63	43.32	37.23	1.40	11.09	3.60	
L5/20	02/02/2023	9.51	17.3	0.2	12	71.1	0	0.00	0.0	1024	40.05	47.73	39.57	1.35	9.03	-0.48	
L6/20	02/02/2023	9.88	0.0	0.1	22	78.2	0	0.00	0.0	1024	33.07	44.73	36.21	1.36	13.02	3.14	
L7/20	02/02/2023	Dry	8.3	2.2	8	81.2	1	0.00	0.0	1024	42.75	47.34	#VALUE!	1.45	6.04	#VALUE!	
L8/20	02/02/2023	10.25	0.0	0.1	22	78.2	0	0.00	0.0	1024	34.04	44.94	35.97	1.28	12.18	1.93	
L9/20	02/02/2023	10.52	0.0	0.1	22	78.3	0	0.00	0.0	1024	35.86	45.57	36.45	1.40	11.11	0.59	

Permit Number:	TP3835LV	Operator:	SI Green UK Limited	Test method & uncertainty
Installation:	Cwmrhydyceirw Quarry			Portable infra-red analyser. Uncertainty is the accuracy of the meter.
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Cwmrhydyceirw Quarry: Site Monitoring February 2023

Borehole		Water Level (m)	CH4	CO2	O2	Balance	CO (ppm)	Gas Pressure	Internal flow (l/h)	Barom Press	Bottom Bor Lev	Ground Lev (mAOD)	Wat Lev (mAOD)	Boreh on surf. (m)	Boreh Bottom (m)	Water Column (m)	
Emission Limit Value			1.0% vol.	no limit set	no limit set		no limit set										
LFG**2R**	03/02/2023	5.56	0.0	0.1	19	80.5	0	-0.32	0.4	1029	32.06	56.40	51.29	0.45	24.79	19.23	GAS EXTERNAL WASTE
LFG**3**	03/02/2023	8.63	0.0	0.2	22	78.2	0	0.77	0.2	1029	33.27	56.60	48.42	0.45	23.78	15.15	
LFG**4**	03/02/2023	5.12	0.0	1.4	20	78.4	0	0.02	0.2	1029	-6.01		-4.57	0.55	6.56	1.44	
LFG**5**	03/02/2023	26.08	0.0	2.6	15	81.5	0	-0.02	0.2	1029	31.66	61.93	36.25	0.40	30.67	4.59	
LFG**6**	03/02/2023	7.31	0.0	0.2	21	78.4	0	0.05	0.1	1029	34.37	62.41	55.20	0.10	28.14	20.83	
LFG**7BG**	03/02/2023	5.76	0.0	0.1	22	78.2	0	0.00	0.2	1029	51.76	62.07	56.78	0.47	10.78	5.02	
LFG**8**	03/02/2023	26.63	0.0	0.1	21	78.4	0	0.30	0.2	1029	31.69	62.32	36.19	0.50	31.13	4.50	
LFG**9**	03/02/2023	Dry	1.2	1.3	1	96.8	1	0.32	0.1	1029	32.08	62.21	#VALUE!	0.47	30.60	#VALUE!	
LFG**10**	03/02/2023	18.38	0.0	0.3	21	78.9	0	0.01	0.2	1029	32.55	62.39	44.46	0.45	30.29	11.91	
LFG**11**	03/02/2023	16.52	0.0	0.1	21	78.4	0	2.76	0.2	1029	35.14	64.07	47.95	0.40	29.33	12.81	
LFG**11A**	03/02/2023	23.55	0.0	1.2	15	83.4	0	0.05	0.1	1029	33.72	63.14	40.09	0.50	29.92	6.37	
LFG**12BG**	03/02/2023	14.73	0.0	0.1	22	78.3	0	0.02	-0.3	1029	33.97	64.61	50.33	0.45	31.09	16.36	
LFG**13**	03/02/2023	18.56	0.0	5.2	10	84.3	0	0.02	0.3	1029	33.55	65.21	47.15	0.50	32.16	13.60	
LFG**17**	02/02/2023	27.57	0.0	0.1	22	78.1	0	-0.21	0.2	1024	28.07	67.44	40.28	0.41	39.78	12.21	
LFG**18R**	02/02/2023	29.78	0.0	0.1	22	78.0	0	0.03	0.2	1024	33.84	69.66	39.88	0.00	35.82	6.04	
LFG**19**	02/02/2023	27.92	0.0	0.1	22	77.9	0	0.02	0.3	1024	29.62	69.70	42.10	0.32	40.40	12.48	
LFG**20**	02/02/2023	27.67	0.0	0.1	22	78.1	0	-0.63	0.2	1024	30.25	69.95	42.61	0.33	40.03	12.36	
LFG**21BG**	02/02/2023	5.92	0.1	0.2	21	78.9	0	0.02	0.2	1024	31.89	75.46	70.14	0.60	44.17	38.25	
LFG**22**	02/02/2023	27.31	0.0	0.1	22	78.0	0	-4.51	0.2	1024	29.22	69.20	42.34	0.45	40.43	13.12	
LFG**23**			*Replaced but not decommissioned due to inaccessibility*								0.00		0.00			0.00	
LFG**23R**			*Not monitored*								0.00		0.00			0.00	
LFG**24**	02/02/2023	6.87	0.0	0.3	21	78.4	0	0.07	0.1	1024	30.67	73.28	66.74	0.33	42.94	36.07	
LFG**24R-A**	02/02/2023	1.96	0.0	0.2	21	78.2	0	0.09	0.3	1024	0.00		-1.96			-1.96	
LFG**24R-B**	02/02/2023	4.82	0.0	2.2	19	78.6	0	-0.93	0.2	1024	0.00		-4.82			-4.82	
LFG**25**	02/02/2023	7.41	0.0	0.2	21	78.8	0	-0.02	0.1	1024	30.07	71.50	64.40	0.31	41.74	34.33	
LFG**25R-A**	02/02/2023	1.62	0.0	2.2	17	81.4	0	-1.01	0.2	1024	0.00		-1.62			-1.62	
LFG**25R-B**	02/02/2023	4.74	0.1	5.4	0	94.2	0	0.05	0.2	1024	0.00		-4.74			-4.74	
LFG**26**	02/02/2023	Dry	0.0	1.0	20	79.4	0	0.02	1.5	1024	40.48	69.51	#VALUE!	0.30	29.33	#VALUE!	
LFG**26R-A**			*Not monitored*								0.00		0.00			0.00	
LFG**26R-B**			*Not monitored*								0.00		0.00			0.00	
LFG**27**			*Not monitored*								0.00		0.00			0.00	
LFG**27R-A**	02/02/2023	Dry	0.0	0.1	22	78.0	0	0.00	0.0	1024	32.62	67.84	#VALUE!	0.25	35.47	#VALUE!	
LFG**27R-B**	02/02/2023	5.91	0.0	0.1	22	78.0	0	0.00	0.0	1024	32.62	67.84	62.18	0.25	35.47	29.56	
LFG**35R**	03/02/2023	21.61	0.0	1.3	20	78.6	0	-1.32	0.1	1029	29.64	61.60	40.49	0.50	32.46	10.85	
LFG**39**	02/02/2023	13.35	0.1	1.0	17.8	81.0	0	-3.41	0.5	1024	28.65	44.57	31.75	0.53	16.45	3.10	
LFG**40**	02/02/2023	12.23	0.1	0.0	1.1	99.1	0	-15.12	1.2	1024	31.87	45.07	33.30	0.46	13.66	1.43	
LFG**41**	02/02/2023	11.68	0.0	5.2	14.1	80.6	0	-53.12	1.4	1024	30.26	45.06	33.92	0.54	15.34	3.66	
LFG**42**	02/02/2023	9.33	0.0	0.8	15.6	83.5	0	-0.04	0.2	1024	29.72	45.65	36.79	0.47	16.40	7.07	
LFG**43R**	02/02/2023	22.87	0.2	1.5	21	77.9	0	-0.24	0.2	1024	30.34	66.62	44.21	0.46	36.74	13.87	
LFG**44R**	02/02/2023	31.22	0.8	1.4	19.7	78.4	0	-1.88	0.1	1024	31.40	64.76	33.91	0.37	33.73	2.51	
LFG**45**	02/02/2023	10.28	1.3	1.9	18	78.5	0	0.03	0.2	1024	30.20	61.52	51.55	0.31	31.63	21.35	
LFG**46R**	03/02/2023	28.30	0.0	10.3	8.4	81.2	0	-15.86	0.4	1029	29.83	62.54	34.67	0.43	33.14	4.84	
LFG**47R**	03/02/2023	19.32	0.0	0.5	21.1	78.3	0	-0.16	0.6	1029	31.16	63.28	44.35	0.39	32.51	13.19	
LFG**48R**	03/02/2023	19.42	0.1	2.9	16.6	80.4	0	-24.87	1.0	1029	30.26	52.12	32.73	0.03	21.89	2.47	
LFG**49**	02/02/2023	13.22	0.0	0.1	21.4	78.5	0	-0.04	0.1	1024	31.26	53.12	39.93	0.03	21.89	8.67	
LFG**50**	02/02/2023	13.12	25.2	4.9	0.7	69.1	0	-0.16	0.1	1024	32.26	54.12	41.03	0.03	21.89	8.77	
LFG**51**	02/02/2023	13.22	3.1	9.2	0.9	87.2	0	-0.12	0.2	1024	33.26	55.12	41.93	0.03	21.89	8.67	

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.
[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed …Guy Titman **Date…25/04/2023**
(Authorised to sign as representative of Operator)

Permit Number:	TP3835LV	Operator:	SI Green UK Limited	Test method & uncertainty
Installation:	Cwmrhydyceirw Quarry			Portable infra-red analyser. Uncertainty is the accuracy of the meter.
Schedule 4 - Emissions and monitoring		Tables S4.1 & S4.6 and Table 3a from the Updated Management Report dated January 2021		
Reporting of ground and landfill gases for the period from		Quarter 1	01 January - 31 March	2023

Cwmrhydyceirw Quarry: Site Monitoring March 2023

Borehole		Water Level (m)	CH4	CO2	O2	Balance	CO (ppm)	Gas Pressure	Internal flow (l/h)	Barom Press	Bottom Bor Lev	Ground Lev (mAOD)	Wat Lev (mAOD)	Boreh on surf. (m)	Boreh Bottom (m)	Water Column (m)	
Emission Limit Value			no limit set	no limit set	no limit set		no limit set										GAS IN WASTE
L1C/09	07/03/2023	12.53	23.5	8.6	13	55.7	0	0.00	0.0	996	35.45	46.50	34.46	0.49	11.54	-0.99	
L3/09R	07/03/2023	10.77	0.0	0.1	22	77.4	0	0.00	0.0	996	36.62	46.34	36.97	1.40	11.12	0.35	
L6/09	07/03/2023	11.23	3.0	1.9	20	74.8	0	0.00	0.0	996	34.02	46.83	36.52	0.92	13.73	2.50	
L9B/09	07/03/2023	10.02	0.3	0.2	22	77.1	0	0.00	0.0	996	36.32	46.51	37.64	1.15	11.34	1.32	
L11/09	07/03/2023	11.35	41.1	0.8	6	51.6	0	0.00	0.0	996	33.46	47.12	36.53	0.76	14.42	3.07	
L13/09	07/03/2023	7.94	0.0	0.1	22	77.2	0	0.00	0.0	996	40.95	46.98	39.81	0.77	6.80	-1.14	
L14/09R			*Not monitored*								0.00		0.00			0.00	
L16/09	07/03/2023	7.47	0.0	0.1	22	77.5	0	0.00	0.0	996	35.31	46.90	40.16	0.73	12.32	4.85	
L19/09	07/03/2023	7.11	9.2	0.1	13	79.1	0	0.00	0.0	996	41.93	47.18	40.76	0.69	5.94	-1.17	
L21/09R	08/03/2023	8.95	0.0	0.2	22	77.2	0	0.00	0.0	988	33.98	43.84	36.17	1.28	11.14	2.19	
L23/09	08/03/2023	13.72	22.1	5.6	3	70.2	0	0.00	0.0	988	34.74	45.85	32.42	0.29	11.40	-2.32	
L26/09	08/03/2023	7.92	0.1	0.1	22	77.7	1	0.00	0.0	988	36.64	43.33	36.23	0.82	7.51	-0.41	
L1/20	07/03/2023	7.76	0.1	0.1	22	77.1	0	0.00	0.0	996	34.29	43.21	36.84	1.39	10.31	2.55	
L2/20	07/03/2023	7.98	0.0	0.1	22	77.2	0	0.00	0.0	996	36.81	41.51	34.83	1.30	6.00	-1.98	
L3/20	07/03/2023	9.72	0.0	0.1	22	77.4	0	0.00	0.0	996	34.54	47.40	39.09	1.41	14.27	4.55	
L4/20	07/03/2023	7.36	0.0	0.1	22	78.1	0	0.00	0.0	996	33.63	43.32	37.36	1.40	11.09	3.73	
L5/20	07/03/2023	9.72	19.0	0.3	9	70.8	0	0.00	0.0	996	40.05	47.73	39.36	1.35	9.03	-0.69	
L6/20	07/03/2023	7.27	26.2	9.9	12	50.1	0	0.00	0.0	996	33.07	44.73	38.82	1.36	13.02	5.75	
L7/20	07/03/2023	Dry	2.4	0.8	18	78.8	0	0.00	0.0	996	42.75	47.34	#VALUE!	1.45	6.04	#VALUE!	
L8/20	07/03/2023	7.29	0.0	0.1	22	77.4	0	0.00	0.0	996	34.04	44.94	38.93	1.28	12.18	4.89	
L9/20	07/03/2023	10.72	0.0	0.1	22	77.3	0	0.00	0.0	996	35.86	45.57	36.25	1.40	11.11	0.39	

Permit Number:	TP3835LV	Operator:	SI Green UK Limited	Test method & uncertainty
Installation:	Cwmrhydyceirw Quarry			Portable infra-red analyser. Uncertainty is the accuracy of the meter.
Schedule 4 - Emissions and monitoring		Tables S4.1 & S4.6 and Table 3a from the Updated Management Report dated January 2021		
Reporting of ground and landfill gases for the period from		Quarter 1	01 January - 31 March	2023

Cwmrhydyceirw Quarry: Site Monitoring March 2023

Borehole		Water Level (m)	CH4	CO2	O2	Balance	CO (ppm)	Gas Pressure	Internal flow (l/h)	Barom Press	Bottom Bor Lev	Ground Lev (mAOD)	Wat Lev (mAOD)	Boreh on surf. (m)	Boreh Bottom (m)	Water Column (m)	
Emission Limit Value			1.0% vol.	no limit set	no limit set		no limit set										
LFG**2R**	08/03/2023	5.82	0.0	0.1	20	79.3	0	-7.61	0.1	988	32.06	56.40	51.03	0.45	24.79	18.97	
LFG**3**	08/03/2023	8.64	0.4	0.2	22	77.0	1	-0.05	0.1	988	33.27	56.60	48.41	0.45	23.78	15.14	
LFG**4**	08/03/2023	5.36	0.0	6.2	16	77.5	0	0.02	0.1	988	-6.01		-4.81	0.55	6.56	1.20	
LFG**5**	08/03/2023	26.01	0.0	2.3	19	78.6	0	-0.04	0.2	988	31.66	61.93	36.32	0.40	30.67	4.66	
LFG**6**	08/03/2023	7.40	0.0	0.1	23	76.9	2	0.04	0.2	988	34.37	62.41	55.11	0.10	28.14	20.74	
LFG**7BG**	08/03/2023	6.73	0.0	0.8	19	79.8	0	0.05	0.2	988	51.76	62.07	55.81	0.47	10.78	4.05	
LFG**8**	08/03/2023	26.33	0.0	0.7	20	79.1	0	0.14	0.1	988	31.69	62.32	36.49	0.50	31.13	4.80	
LFG**9**	08/03/2023	Dry	0.0	1.2	3	95.4	0	0.19	-0.3	988	32.08	62.21	#VALUE!	0.47	30.60	#VALUE!	
LFG**10**	08/03/2023	18.59	0.0	1.2	18	81.2	0	0.14	0.2	988	32.55	62.39	44.25	0.45	30.29	11.70	
LFG**11**	08/03/2023	16.82	0.0	1.5	19	79.2	0	-0.04	-0.2	988	35.14	64.07	47.65	0.40	29.33	12.51	
LFG**11A**	08/03/2023	23.66	0.0	1.3	17	82.1	0	0.02	0.3	988	33.72	63.14	39.98	0.50	29.92	6.26	
LFG**12BG**	08/03/2023	15.40	0.0	1.5	17	80.4	0	-0.04	0.2	988	33.97	64.61	49.66	0.45	31.09	15.69	
LFG**13**	08/03/2023	18.47	0.0	6.7	12	83.1	0	0.02	-0.6	988	33.55	65.21	47.24	0.50	32.16	13.69	
LFG**17**	08/03/2023	27.83	0.0	1.1	13	85.2	0	-1.07	0.2	988	28.07	67.44	40.02	0.41	39.78	11.95	
LFG**18R**	08/03/2023	30.10	0.0	3.3	13	84.7	2	0.02	0.2	988	33.84	69.66	39.56	0.00	35.82	5.72	
LFG**19**	08/03/2023	28.15	0.0	1.4	13	84.7	0	0.02	0.2	988	29.62	69.70	41.87	0.32	40.40	12.25	
LFG**20**	08/03/2023	28.72	0.0	2.9	9	88.4	0	0.04	0.2	988	30.25	69.95	41.56	0.33	40.03	11.31	
LFG**21BG**	08/03/2023	4.15	0.0	0.1	22	77.6	0	0.02	0.2	988	31.89	75.46	71.91	0.60	44.17	40.02	
LFG**22**	08/03/2023	26.59	0.0	1.4	19	79.6	0	0.03	0.0	988	29.22	69.20	43.06	0.45	40.43	13.84	
LFG**23**			*Replaced but not decommissioned due to inaccessibility*								0.00		0.00			0.00	GAS EXTERNAL WASTE
LFG**23R**			*Not monitored*								0.00		0.00			0.00	
LFG**24**	08/03/2023	7.94	0.0	0.2	21	78.5	0	0.09	0.1	988	30.67	73.28	65.67	0.33	42.94	35.00	
LFG**24R-A**	08/03/2023	1.89	0.0	0.3	21	78.1	0	-0.11	0.2	988	0.00		-1.89			-1.89	
LFG**24R-B**	08/03/2023	0.93	0.0	5.3	15	79.7	0	-0.02	0.3	988	0.00		-0.93			-0.93	
LFG**25**	08/03/2023	13.71	0.4	2.4	14	82.7	1	0.11	0.1	988	30.07	71.50	58.10	0.31	41.74	28.03	
LFG**25R-A**	08/03/2023	1.62	0.0	4.7	15	80.4	0	0.09	0.1	988	0.00		-1.62			-1.62	
LFG**25R-B**	08/03/2023	4.45	0.4	7.5	1	91.4	0	0.07	0.2	988	0.00		-4.45			-4.45	
LFG**26**	08/03/2023	25.72	0.0	2.8	16	80.4	0	0.18	0.0	988	40.48	69.51	44.09	0.30	29.33	3.61	
LFG**26R-A**			*Not monitored*								0.00		0.00			0.00	
LFG**26R-B**			*Not monitored*								0.00		0.00			0.00	
LFG**27**			*Not monitored*								0.00		0.00			0.00	
LFG**27R-A**	08/03/2023	Dry	0.0	6.7	5	88.3	0	-3.30	0.1	988	32.62	67.84	#VALUE!	0.25	35.47	#VALUE!	
LFG**27R-B**	08/03/2023	6.02	0.0	5.4	14	80.7	0	-5.02	0.1	988	32.62	67.84	62.07	0.25	35.47	29.45	
LFG**35R**	07/03/2023	22.93	0.0	2.8	19	77.4	0	-0.84	0.2	996	29.64	61.60	39.17	0.50	32.46	9.53	
LFG**39**	07/03/2023	13.71	0.1	1.7	16.7	81.3	0	0.12	0.0	996	28.65	44.57	31.39	0.53	16.45	2.74	
LFG**40**	07/03/2023	12.57	0.0	0.1	2.5	98.1	0	4.72	0.4	996	31.87	45.07	32.96	0.46	13.66	1.09	
LFG**41**	07/03/2023	12.15	0.3	5.9	13.5	80.2	0	1.62	0.9	996	30.26	45.06	33.45	0.54	15.34	3.19	
LFG**42**	07/03/2023	9.72	0.0	3.1	10.5	86.0	0	0.02	0.3	996	29.72	45.65	36.40	0.47	16.40	6.68	
LFG**43R**	07/03/2023	22.90	0.4	7.9	3	88.4	0	1.33	0.1	996	30.34	66.62	44.18	0.46	36.74	13.84	
LFG**44R**	07/03/2023	31.58	0.0	7.6	6.9	85.7	0	3.78	0.0	996	31.40	64.76	33.55	0.37	33.73	2.15	
LFG**45**	07/03/2023	10.82	0.0	2.1	17	80.1	0	-0.27	0.2	996	30.20	61.52	51.01	0.31	31.63	20.81	
LFG**46R**	07/03/2023	28.43	0.0	11.3	5.3	83.1	0	7.24	0.1	996	29.83	62.54	34.54	0.43	33.14	4.71	
LFG**47R**	07/03/2023	20.51	0.0	0.6	21.8	77.2	0	-1.56	0.3	996	31.16	63.28	43.16	0.39	32.51	12.00	
LFG**48R**	07/03/2023	20.49	0.0	0.6	21.4	77.7	0	-0.96	0.1	996	30.26	52.12	31.66	0.03	21.89	1.40	
LFG**49**	07/03/2023	13.42	0.0	8.5	10.1	81.2	0	0.05	0.1	996	31.26	53.12	39.73	0.03	21.89	8.47	
LFG**50**	07/03/2023	13.44	30.7	5.0	0.3	63.6	0	0.07	0.2	996	32.26	54.12	40.71	0.03	21.89	8.45	
LFG**51**	07/03/2023	13.38	4.0	9.6	0.9	85.2	0	-5.81	0.3	996	33.26	55.12	41.77	0.03	21.89	8.51	

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.
[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed …Guy Titman **Date…25/04/2023**
(Authorised to sign as representative of Operator)