

Stoney Hill Landfill Site  
 Perimeter Gas Monitoring Data, October to December 2020

Sample Point	Date	Methane (%v/v)	Carbon Dioxide (%v/v)	Oxygen (%v/v)	Balance Gas (%v/v)	Barometric Pressure (mbar)	Relative Pressure (mbar)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	Comments
M1	20/10/2020	15.8	23	0.2	61	978	0.82	0	0	
M1	13/11/2020	0.2	0.3	21.2	78.3	989	-0.63	0	0	
M1	04/12/2020	15.7	24	0.5	59.8	955	-0.75	0	0	
M11	20/10/2020	0	17.2	3.2	79.6	978	-0.29	0	0	
M11	13/11/2020	0	0.9	20.5	78.6	989	-0.38	0	0	
M11	04/12/2020	1.3	21.5	1.1	76.1	956	0.44	0	0	
M13	20/10/2020	3.6	26	0.6	69.8	978	11.83	1	0	
M13	13/11/2020	0	12.7	13.2	74.1	989	0.87	0	0	
M13	04/12/2020	0	16.2	8.8	75	956	16.21	1	0	
M16	20/10/2020	0	24.8	1	74.2	978	3.42	0	0	
M16	13/11/2020	0	16.9	10.2	72.9	989	-0.39	0	0	
M16	04/12/2020	0.1	24.6	6.2	69.1	956	-0.67	0	0	
M18	20/10/2020	0	0.1	20.9	79	979	-0.27	0	0	
M18	13/11/2020	0.1	8.6	12.9	78.4	989	3.29	0	0	
M18	04/12/2020	11.1	19.2	2.1	67.6	956	-3.23	0	0	
M18D	20/10/2020	5.7	15.6	7.1	71.6	978	-0.33	0	0	
M18D	13/11/2020	0	0.2	21.3	78.5	989	-0.91	0	0	
M18D	04/12/2020	4.6	11.1	11.8	72.5	956	-0.14	0	0	
M20	20/10/2020	43.8	29.2	0.7	26.3	979	-0.12	0	0	
M20	13/11/2020	27.1	27.3	1.7	43.9	989	-0.6	1	0	
M20	04/12/2020	36.7	29.7	1.9	31.7	956	4.79	1	0	
M20D	20/10/2020	0.2	0.2	20.8	78.8	978	-0.36	0	0	
M20D	13/11/2020	0.2	0.4	21	78.4	988	-0.36	0	0	
M20D	04/12/2020	0.2	0.4	21	78.4	956	-0.33	0	0	
M22	20/10/2020	63.2	18.1	0.3	18.4	978	0.27	0	0	
M22	13/11/2020	45.8	20.8	0.3	33.1	988	-0.39	1	0	
M22	23/12/2020	52.2	22	3.1	22.7	982	8.28	0	0	
M22D	20/10/2020	35.6	25.4	1.3	37.7	978	0.22	0	0	
M22D	13/11/2020	35.9	25.8	1.4	36.9	988	-0.62	0	0	
M22D	23/12/2020	34.2	27.3	1.5	37	1003	-0.62	1	0	
M23	20/10/2020	33.4	39.2	0.4	27	978	8.08	1	0	
M23	13/11/2020	34.1	38.7	0.8	26.4	989	0.72	1	0	
M23	04/12/2020	34.7	39.2	1.5	24.6	956	11.11	0	0	
M23D	20/10/2020	33.5	37.5	0.5	28.5	978	-0.24	0	0	
M23D	13/11/2020	33.8	37.4	0.7	28.1	989	-1.28	1	0	
M23D	04/12/2020	29	31.9	4.5	34.6	956	1.06	0	0	
M24	20/10/2020	0	12.3	4.4	83.3	977	0.19	0	0	
M24	13/11/2020	0	10.2	8.5	81.3	988	-0.72	0	0	
M24	04/12/2020	0	7.6	19.8	72.6	956	-0.91	0	0	
M24D	20/10/2020	32.4	30	0.6	37	978	0.41	0	0	
M24D	13/11/2020	28.6	27.9	1	42.5	989	-0.98	1	0	
M24D	04/12/2020	20.4	23.3	2.7	53.6	955	2.19	0	0	
M32	20/10/2020	59.2	34.3	0.7	5.8	978	-0.09	1	0	
M32	13/11/2020	46.3	28	5.1	20.6	989	-0.26	0	0	
M32	04/12/2020	58.1	36.6	2.3	3	956	-0.75	1	0	
M32D	20/10/2020	21.3	19	5.7	54	978	-0.29	0	0	
M32D	13/11/2020	34.2	27	0.7	38.1	988	-2.05	1	0	
M32D	04/12/2020	38	28.7	1.4	31.9	955	-3.01	0	0	
M6	20/10/2020	5.2	6.3	18.5	70	978	-0.09	0	0	
M6	13/11/2020	9.9	11.3	17	61.8	988	-0.41	0	0	
M6	04/12/2020	9.3	14.1	16.1	60.5	955	-0.63	0	0	
M6D	20/10/2020	0.5	1.9	19.8	77.8	978	0	0	0	
M6D	13/11/2020	0.6	3.7	19.8	75.9	988	-0.34	0	0	
M6D	04/12/2020	0.4	1.5	21	77.1	956	-0.65	0	0	
M3	04/12/2020									Unable to locate
M21	04/12/2020									Unable to locate

Stoney Hill Landfill Site  
 Onsite Gas Monitoring Data, November to December 2020

Sample Point	Date	Methane (%v/v)	Carbon Dioxide (%v/v)	Oxygen (%v/v)	Balance Gas (%v/v)	Barometric Pressure (mbar)	Relative Pressure (mbar)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
GEW1	11/11/2020	30.3	15.7	6.1	47.9	995	3.2	2	0
GEW1	01/12/2020	44.9	20.4	3.8	30.9	1006	0.44	2	0
GEW2	11/11/2020	3	11.3	4.4	81.3	994	5.08	0	0
GEW2	01/12/2020	13.9	14.4	4.5	67.2	1007	0.14	0	0
GEW3	11/11/2020	57.8	29.4	6.6	6.2	994	7.02	2	0
GEW3	01/12/2020	56.7	27.5	2.8	13	1006	4.16	1	1
GEW4	11/11/2020	66.8	34.2	0.6	0	994	5.97	2	0
GEW4	01/12/2020	67.1	34.2	0.8	0	1006	-0.24	2	0
GEW5	11/11/2020	70.3	31.2	0.6	0	994	0.62	0	1
GEW5	01/12/2020	70.5	30.9	1.1	0	1000	-0.86	0	5
GEW6	11/11/2020	65.8	35.5	0.6	0	998	6.28	1	6
GEW6	01/12/2020	67.1	37.3	1.1	0	1006	0.89	2	7
IC107	11/11/2020	66.9	34.6	0.5	0	994	5.05	1	6
IC107	01/12/2020	67	34.4	0.8	0	1007	-0.43	1	4
IC108	11/11/2020	44.4	31.6	1.5	22.5	994	5.66	2	3
IC108	01/12/2020	35.9	28.1	1.1	34.9	1007	-0.21	2	1
IC109	11/11/2020	67	34.2	0.6	0	994	30.67	1	5
IC109	01/12/2020	67.2	34.4	0.8	0	1007	32.52	0	6
IC112	11/11/2020	64.3	33.5	1.2	1	993	6.2	1	2
IC112	01/12/2020	56.4	29.3	3.3	11	1006	-0.6	1	1
IC113	11/11/2020	66.4	34.6	0.7	0	994	7.43	1	0
IC113	01/12/2020	66.4	34.3	1	0	1006	3.29	1	0
IC116	11/11/2020	1.4	1.1	19.3	78.2	994	2.04	1	0
IC116	11/11/2020	66.2	35.3	0.4	0	994	30.1	1	9
IC116	01/12/2020	64.3	34.4	0.9	0.4	1007	27.45	2	10
IC127	11/11/2020	22.3	6.8	11.6	59.3	994	1.73	1	0
IC127	01/12/2020	29.1	8.4	9.6	52.9	1006	-1.27	1	0
IC128	11/11/2020	66.1	34.8	0.6	0	993	4.3	1	3
IC128	01/12/2020	67	33.8	1.1	0	1006	-1.16	1	3
IC129	11/11/2020	0.4	3.9	18.9	76.8	994	7.29	1	0
IC129	01/12/2020	0.3	4.1	18.7	76.9	1007	5.13	1	0
IC130	11/11/2020	64.5	32.8	1.2	1.5	994	5.08	2	1
IC130	01/12/2020	67.3	34.1	0.7	0	1006	-14.24	1	1
IC133	11/11/2020	73.9	26.2	0.4	0	995	-9.29	1	0
IC133	01/12/2020	56.7	20.9	4.5	17.9	1007	-12.65	1	0
IC14	11/11/2020	64.7	31.9	1.5	1.9	994	5.78	2	0
IC14	01/12/2020	57.3	27.7	2.4	12.6	1006	0.6	2	1
IC158	11/11/2020	31.2	11	10.4	47.4	994	-0.77	3	0
IC158	01/12/2020	30.8	11.3	11.1	46.8	1007	0.05	2	0
IC159	11/11/2020	71.3	29.8	0.1	0	994	5.49	2	1
IC159	01/12/2020	68.1	29.5	0.6	1.8	1006	0.48	4	3
IC16	11/11/2020	13	17.7	2.5	66.8	994	-0.31	0	0
IC16	01/12/2020	11.8	16.3	3.8	68.1	1006	1.44	1	0
IC21	11/11/2020	72.8	11.4	4	11.8	995	4.6	7	0
IC21	01/12/2020	48.4	24.2	5.2	22.2	1007	-0.75	1	3
IC44	11/11/2020	62.6	31.8	1.7	3.9	994	4.88	2	0
IC44	01/12/2020	63.7	32.3	1.8	2.2	1006	1.45	1	1
IC68	11/11/2020	61	5.4	4.1	29.5	994	-0.17	0	0
IC68	01/12/2020	53	4.1	8.8	34.1	1006	-0.48	0	0
IC75	11/11/2020	31.4	22.3	8.8	37.5	994	-9.52	1	0
IC75	01/12/2020	57.8	30.3	3.1	8.8	1007	0.1	2	2
IC77	11/11/2020	0.9	1.5	19.8	77.8	994	-0.39	5	0
IC77	01/12/2020	0.8	1.5	19.7	78	1006	-0.55	6	0
IC85	11/11/2020	64.5	30.3	2.1	3.1	994	4.93	3	16
IC85	01/12/2020	67.4	32.6	0.9	0	1006	-0.17	0	14
IC87	11/11/2020	0.9	10.4	1.7	87	994	-0.29	0	0
IC87	01/12/2020	0.5	10.6	2.5	86.4	1006	-0.56	0	0
IC88	11/11/2020	70.9	30.5	0.5	0	994	5.07	2	4
IC88	01/12/2020	52.1	27.5	5.5	14.9	1006	-0.46	1	1
IC94	11/11/2020	67.8	33.6	0.5	0	994	5.03	1	9
IC94	01/12/2020	68	33.6	0.7	0	1007	-0.27	1	8
IC97	11/11/2020	85.4	12.1	0.5	2	994	15.11	0	1
IC97	01/12/2020	84.8	12.8	0.9	1.5	1006	3.39	0	1
VP45	11/11/2020	40.1	19.3	1.1	39.5	995	-0.41	2	21
VP45	01/12/2020	59	19.2	1.6	20.2	1007	-0.51	0	43
VP64	11/11/2020	67.3	34.1	0.6	0	994	-7.03	2	4
VP64	01/12/2020	67.2	34.1	0.8	0	1007	-0.33	2	5
W1	11/11/2020	66.9	32.1	0.9	0.1	995	5.8	1	1
W1	01/12/2020	54.3	26.8	3	15.9	1006	0.26	1	1
W11	11/11/2020	64.9	30.2	1.6	3.3	994	5.31	1	0
W11	01/12/2020	60	28.3	3.2	8.5	1006	1.3	1	0
W12	11/11/2020	63.7	32.3	1.4	2.6	994	4.31	1	1
W12	01/12/2020	37.8	25.1	3.1	34	1007	-2.98	1	0
W13	11/11/2020	4	5.7	13.1	77.2	994	-0.33	1	0
W13	01/12/2020	4.6	5.8	13.8	75.8	1007	-0.41	1	0
W14	11/11/2020	59.7	39.2	0.8	0.3	994	-9.28	1	1
W14	01/12/2020	60.7	39	1	0	1007	-12.31	0	2

W15	11/11/2020	0.4	0.7	20.7	78.2	995	-0.7	2	0
W15	01/12/2020	0.3	0.8	20.8	78.1	1007	-0.02	2	0
W16	11/11/2020	65.8	34.9	0.6	0	994	-3.66	1	0
W16	01/12/2020	66.2	34.5	1	0	1007	-8.87	1	2
W17	11/11/2020	69	30.1	1.2	0	995	11.54	2	0
W17	01/12/2020	67.6	32.5	1.4	0	1007	-4.59	2	7
W18	11/11/2020	66.6	33.6	0.8	0	994	5.41	1	1
W18	01/12/2020	66.5	32.9	1.2	0	1007	-14.63	2	1
W19	11/11/2020	68.4	32.7	0.7	0	994	4.5	1	10
W19	01/12/2020	65.5	31.7	1.7	1.1	1007	-0.14	1	13
W2	11/11/2020	43.6	7.8	9.6	39	994	5.05	12	0
W2	01/12/2020	43.5	8	9.8	38.7	1006	0.53	12	0
W20	11/11/2020	68.9	31.5	0.7	0	994	4.69	1	0
W20	01/12/2020	69.8	31.6	1	0	1006	-0.05	1	1
W21	11/11/2020	0.7	0.4	21.4	77.5	994	9.07	0	0
W22	11/11/2020	67.9	33.4	0.5	0	994	4.3	1	15
W22	01/12/2020	67.5	33.2	0.9	0	1007	-0.05	1	4
W23	11/11/2020	72.7	12.8	1.8	12.7	994	-0.33	1	0
W23	01/12/2020	60.7	31.3	1.9	6.1	1007	0.07	1	1
W3	11/11/2020	66.4	32.1	1	0.5	994	5.32	0	0
W3	01/12/2020	57.1	27.6	2.3	13	1006	0.77	2	2
W4	11/11/2020	66.1	31.1	1.1	1.7	994	5.08	1	0
W4	01/12/2020	55.3	27.1	1.3	16.3	1006	0.34	1	1
W5	11/11/2020	52.9	22.9	0.8	23.4	995	5.31	2	0
W5	01/12/2020	66.1	23.7	2.1	8.1	1006	0.8	1	0
W6	11/11/2020	63.3	30.1	0.8	5.8	995	9.21	1	0
W6	11/11/2020	0.4	0.3	20.7	78.6	995	0.03	0	0
W6	01/12/2020	65.2	28.3	1.4	5.1	1006	5.1	1	1
W7	11/11/2020	1.6	0.7	16.6	81.1	994	-0.38	1	0
W7	01/12/2020	3.9	2.2	7.2	86.7	1006	-9.31	0	0
W8	11/11/2020	0.3	0.2	21	78.5	994	-0.38	0	0
W8	01/12/2020	0.2	0.3	20.9	78.6	1006	-0.41	0	0
W9	11/11/2020	64	34.1	1.2	0.7	994	-5.92	1	0
W9	01/12/2020	66.2	33.7	1.5	0	1007	0.15	2	6

Stoney Hill Landfill Site  
Groundwater Analysis, October to December 2020

Sample Point	Date	Comments
M5	04/12/2020	Dry

Stoney Hill Landfill Site  
Surface Water Analysis, October to December 2020

Sample Point	POND A	POND C
Date	17/12/2020	17/12/2020
Aluminium (mg/l)	451	409
Ammoniacal Nitrogen (mg/l)	0.021	0.017
COD (total) (mg/l)	34.5	26.5
Copper (ug/l)	2.18	3.48
Dissolved Methane (mg/l)	0.00101	0.00248
pH (pH Units)	7.05	7.03
Solids Suspended (mg/l)	4.05	6.2
Sulphate (mg/l)	35.6	52.6
Sulphide (mg/l)	<0.01	<0.01
Visible Oil and Grease	Absent	Absent
Zinc (ug/l)	35.3	84.8

Stoney Hill Landfill Site  
 Leachate Dips, November to December 2020

Sample Point	Date	Dip to Leachate (m)	Dip to Base (m)
GEW1	19/11/2020	12.65	17.10
GEW1	17/12/2020	12.63	17.10
GEW2	19/11/2020	12.35	14.35
GEW2	17/12/2020	12.37	14.35
GEW3	19/11/2020	13.14	17.16
GEW3	17/12/2020	13.13	17.16
GEW4	19/11/2020	8.8	10.94
GEW4	17/12/2020	8.86	10.94
GEW5	19/11/2020	8.38	13.44
GEW5	17/12/2020	8.33	13.44
GEW6	19/11/2020	7.7	11.15
GEW6	17/12/2020	7.56	11.15
W1	19/11/2020	6.5	8.5
W1	17/12/2020	6.42	8.5
W11	19/11/2020	13.2	13.57
W11	17/12/2020	13.22	13.57
W13	19/11/2020	4.2	5.32
W13	17/12/2020	4.13	5.32
W14	19/11/2020	4.7	5.32
W14	17/12/2020	4.75	5.32
W15	19/11/2020	2.1	4.05
W15	17/12/2020	2.2	4.05
W17	19/11/2020	3.81	5.38
W17	17/12/2020	3.88	5.38
W19	19/11/2020	5.9	7.55
W19	17/12/2020	5.87	7.55
W1A	19/11/2020	4.5	10.95
W1A	17/12/2020	4.55	10.95
W2	19/11/2020	5.54	7.75
W2	17/12/2020	5.54	7.75
W20	19/11/2020	10.07	11.62
W20	17/12/2020	10	11.62
W23	19/11/2020	5.2	7.35
W23	17/12/2020	5.21	7.35
W4	19/11/2020	7.65	11.4
W4	17/12/2020	7.6	11.4
W5	19/11/2020	8.1	8.25
W5	17/12/2020	8.08	8.25
W8	19/11/2020	3.58	6.54
W8	17/12/2020	3.62	6.54