

Kurnell Landfill Environmental Monitoring Locations

EPA ID No.	Monitoring Location	Easting	Northing
3	BH3A	331557.559	6233612.570
4	BH4A	331555.149	6233531.497
5	BH5A	331325.514	6233723.575
6	BH6A	331588.552	6233160.367
7	BH7A	331293.2	6233053.87
8	BH8A	331005.488	6233233.894
9	BH9C	331540.67	6233420.14
11	BH10A	331819.08	6233299.27
12	BH11A	331350.35	6233170.05
13	BH12A	331166.433	6233699.572
14	BH13A	331447.247	6233662.638
15	BH14	331997.150	6233370.046
16	BH15	332482.813	6233510.587
17	BH16	332149.279	6233032.038
18	BH17	331432.560	6233696.015
19	BH18	330761.63	6233399.46
26	BH19	331786.065	6233268.677
27	BH20	332200.120	6233439.830
28	BH22	332446.162	6233300.895
29	BH23	332254.027	6233075.673
30	BH24	331709.001	6232960.575
31	BH25	330974	6233693
1	LB02	331246	6233411

Kurnell Landfill Quarterly Ground Water Analytical Results - October 2018

Monitoring Location:			BH3A	BH4A	BH5A	BH6A	BH7A	BH8A	BH9C	BH10	BH11A	BH12A	BH13A
Sample Id:			091018-JJ-BH3A	091018-JJ-BH4A	091018-JJ-BH5A	081018-JJ-BH6A	081018-JJ-BH7A	081018-JJ-BH8A	081018-JJ-BH9C	081018-JJ-10B	081018-JJ-BH11A	091018-JJ-BH12A	091018-JJ-BH13A
Laboratory Report Number:			202587	202587	202587	202501	202501	202501	202501	202501	202501	202587	202587
Laboratory:			EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab
Date Sampled:			09 Oct 18	09 Oct 18	09 Oct 18	08 Oct 18	08 Oct 18	08 Oct 18	08 Oct 18	08 Oct 18	08 Oct 18	09 Oct 18	09 Oct 18
Parameters	PQL	Units	3rd Quarter 2018/2019	3rd Quarter 2018/2019	3rd quarter 2018/2019	3rd quarter 2018/2019	3rd Quarter 2018/2019	3rd Quarter 2018/2019	3rd quarter 2018/2019	3rd quarter 2018/2019	3rd quarter 2018/2019	3rd quarter 2018/2019	3rd quarter 2018/2019
	Standing Water Level	0.01	mBTOC	3.27	4.21	7.35	4.19	2.76	16.93	5.83	2.98	23.81	10.25
pH (field)	0.1	pH units	7.63	6.98	6.97	7.06	7.28	7.71	7.1	6.92	6.72	6.91	7.08
Electrical Conductivity (field)	1	µS/cm	844	1041	1410	766	931	521	1666	1306	2319	1904	1630
pH	0.1	pH units	7.8	7.1	7.3	6.9	7.2	7.5	7.2	7	6.6	7.2	7.4
Total Dissolved Solids	5	mg/L	680	810	940	750	660	340	950	1000	2600	1300	1100
Total Organic Carbon	1	mg/L	5	8	21	13	5	2	36	37	66	20	18
Carbonate Alkalinity (CO3-2)	1	mg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloride	20	mg/L	39	44	140	41	36	47	130	70	110	220	110
Sulphate	5	mg/L	300	340	45	320	57	14	64	240	1100	79	160
Ammonia as N	0.1	mg/L	1	0.036	13	0.51	0.1	<0.005	33	0.83	0.32	5.4	3.2
Sodium (Na)	0.03	mg/L	45	47	140	61	37	40	160	68	220	180	190
Potassium (I) Ion	0.03	mg/L	11	11	24	28	2.8	1.2	29	13	88	21	16
Calcium (II) Ion	0.03	mg/L	140	200	180	730	170	80	180	260	470	220	220
Magnesium (II) Ion	0.03	mg/L	19	13	31	44	29	8	23	23	39	45	38

Kurnell Landfill Quarterly Ground Water Analytical Results - October 2018 (continued)

Sample Location:			BH14	BH15	BH16	BH17	BH18	BH19	BH20	BH22	BH23	BH24	BH25	LB2
Sample Id:			081018-JJ-BH14A	081018-JJ-BH15	081018-JJ-BH16	091018-JJ-BH17	091018-JJ-BH18	081018-JJ-BH19A	081018-JJ-BH20	081018-JJ-BH22	081018-JJ-BH23	081018-JJ-BH24	091018-JJ-BH25	091018-JJ-LB2
Laboratory Report Number:			202501	202501	202501	202587	202587	202501	202501	202501	202501	202501	202587	202587
Laboratory:			EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab
Date Sampled:			08 Oct 18	08 Oct 18	08 Oct 18	09 Oct 18	09 Oct 18	08 Oct 18	08 Oct 18	08 Oct 18	08 Oct 18	08 Oct 18	09 Oct 18	09 Oct 18
Parameters	PQL	Units	3rd quarter	3rd quarter	3rd Quarter	3rd Quarter	3rd Quarter	3rd Quarter	3rd Quarter	3rd Quarter	3rd Quarter	3rd Quarter	3rd Quarter	3rd quarter
			2018/2019	2018/2019	2018/2019	2018/2019	2018/2019	2018/2019	2018/2019	2018/2019	2018/2019	2018/2019	2018/2019	2018/2019
Standing Water Level	0.01	mBTOC	3.96	4.65	1.3	5.47	27.22	3.4	1.97	3.25	3.23	12.9	7.4	17.99
pH (field)	0.1	pH units	6.73	7.29	6.96	7.01	6.87	7.08	7.28	7.46	7.46	6.55	7.39	7.05
Electrical Conductivity (field)	1	µS/cm	1260	824	232.4	893	1287	823	510	893	526	342	1233	495.7
pH	0.1	pH units	6.6	7.5	6.4	7.3	7.2	7	6.8	7.4	7.4	6.5	7.7	-
Total Dissolved Solids	5	mg/L	1100	600	170	710	870	720	390	680	340	220	740	-
Total Organic Carbon	1	mg/L	22	7	18	8	4	45	14	40	12	5	6	-
Carbonate Alkalinity (CO3-2)	1	mg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloride	20	mg/L	130	56	49	45	82	50	52	81	44	22	180	410
Sulphate	5	mg/L	350	67	12	160	60	220	150	190	27	24	9	520
Ammonia as N	0.1	mg/L	0.15	0.4	0.033	0.38	1	0.033	0.01	3	0.02	<0.005	0.52	110
Sodium (Na)	0.03	mg/L	140	60	31	48	74	46	44	90	41	13	160	530
Potassium (I) Ion	0.03	mg/L	11	7.2	2.1	12	6.4	7.4	7.2	15	8.6	3.3	4	120
Calcium (II) Ion	0.03	mg/L	230	130	19	160	210	160	70	120	79	56	150	290
Magnesium (II) Ion	0.03	mg/L	41	25	4.7	16	27	15	9.8	19	8.8	5.7	20	100

Kurnell Landfill Quarterly Subsurface Gas Results - October 2018

EPA ID No.	Well ID	Initial well pressure above atmospheric (kPa)	Initial vent	Flow Rate L/hr	Initial well concentrations	Maximum vacuum on well (psi)	Recovery time (min)	Total volume purged (L)	Well concentrations following purging
					CH ₄				CH ₄
					(%)				(%)
20	BH4A	<0.1	Nil	<0.1	0.1	-18	<1	30	<0.1
22	BH8B	<0.1	Nil	<0.1	<0.1	-18	<1	30	<0.1
23	BH12A	<0.1	Nil	<0.1	<0.1	-18	<1	30	<0.1
24	BH13A	<0.1	Nil	0.1	<0.1	-18	<1	30	<0.1
25	BH18	<0.1	Nil	<0.1	0.1	-18	<1	30	<0.1

BOLD Greater than the assessment criteria of 1.0 % CH₄