

Ersine Park Landfill EPL4865

Link to Environment Protection Licence (Insert 4865 in search menu):

<http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32538&SYSUID=1&LICID=4865>

December 2013 Ground Water Results

Date for testing: 19 December 2013

Date results received: 25 January 2014

Quarterly Test Round

Monitor Well ID:	Date	Physical Parameters					
		Temp (°C)	DO mg/L	pH	ORP (mV)	Conductivity (ms/cm)	TDS g/L
BH15A	19/12/2013	19.40	0.56	6.73	-122	94.1	61.1
BH15B	19/12/2013	19.50	0.17	6.68	-103	13.7	8.9
BH16A	19/12/2013	21.00	0.29	7.26	-157	10.6	6.9
BH16B	19/12/2013	20.90	0.28	6.92	-140	13.5	8.8
BH17D	19/12/2013	20.70	1.14	7.70	-224	18.4	11.9
BH17E	19/12/2013	20.80	0.22	6.96	-185	17.5	11.4
BH18	19/12/2013	21.40	1.54	6.91	-86	86.6	56.3
BH19	19/12/2013	20.50	0.68	7.22	-156	6.9	4.5
BH20	19/12/2013	21.20	1.84	7.05	-106	63	40.9
BH21	19/12/2013	21.20	1.65	7.07	-92	11	7.2
BH22	19/12/2013	21.40	0.99	7.08	-116	91.7	59.6
BH23	19/12/2013	22.20	0.89	6.57	-59	18.9	12.3
BH24	19/12/2013	27.60	1.63	6.63	-45	27.1	17.6

Monitor Well ID:	Depth to Water (m)
BH15A	11.541
BH15B	12.655
BH16A	17.509
BH16B	17.831
BH17D	19.223
BH17E	6.130
BH18	24.565
BH19	13.202
BH20	9.298
BH21	30.079
BH22	30+
BH23	19.170
BH24	23.692

All units in mg/l unless otherwise stated

Sample ID	Sampling			
	Date	TDS	TOC	Ammonia
LOR		10	1	0.01
BH15A	19/12/2013	6520	3	5.16
BH15B	19/12/2013	10200	2	6.91
BH16A	19/12/2013	7750	<1	6.52
BH16B	19/12/2013	12500	5	7.19
BH17D	19/12/2013	1120	7	4.58
BH17E	19/12/2013	1090	3	1.75
BH18	19/12/2013	5900	3	5.1
BH19	19/12/2013	416	9	0.06
BH20	19/12/2013	4170	6	3.09
BH21	19/12/2013	8870	25	5.64
BH22	19/12/2013	6180	25	5.04
BH23	19/12/2013	15100	2	2.32
BH24	19/12/2013	1730	37	0.71

All units in mg/l unless otherwise stated

Sample ID	Cations				Anions	
	Calcium	Magnesium	Sodium	Potassium	Chloride	Sulphate
LOR	1	1	1	1	1	1
BH15A	322	66	1910	47	2880	<10
BH15B	324	162	3180	91	4890	<10
BH16A	170	90	2530	56	4100	<10
BH16B	470	196	3120	118	5580	<10
BH17D	23	146	182	18	224	154
BH17E	64	93	229	10	138	45
BH18	144	130	1910	51	3060	<1
BH19	10	19	105	1	62	45
BH20	75	148	1250	31	1870	<1
BH21	286	163	2390	70	4170	<1
BH22	136	77	2120	40	3240	<1
BH23	495	1200	2100	51	6980	30
BH24	179	158	243	5	488	20

All units in mg/l unless otherwise stated

Sample ID	Alkalinity by PC Titrator			
	Alkalinity (as CaCO ₃)	Hydroxide (as CaCO ₃)	Carbonate (as CaCO ₃)	Bicarbonate (as CaCO ₃)
LOR	1	1	1	1
BH15A	907	<1	<1	907
BH15B	1040	<1	<1	1040
BH16A	572	<1	<1	572
BH16B	516	<1	<1	516
BH17D	686	<1	<1	627
BH17E	885	<1	<1	885
BH18	935	<1	<1	935
BH19	208	<1	<1	208
BH20	990	<1	<1	990
BH21	712	<1	<1	712
BH22	831	<1	<1	831
BH23	687	<1	<1	687
BH24	1030	<1	<1	103