

Dial A Dump (EC) Pty Ltd
Groundwater Quality Monitoring



Licensee: Dial A Dump (EC) Pty Ltd
 Address: Genesis Waste Facility, Honeycomb Drive, Eastern Creek
 EPL Nos. 13426

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BH6d		2015		2016				2017				2018				2019				2020			
Pollutant	Units	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
*C10 - C14	µg/L			<50				<50				90				<50				240			
*C15 - C28	µg/L			<100				130				110				<100				240			
*C29 - C36	µg/L			<50				<50				<50				<100				<100			
*C6 - C9	µg/L			70				<20				<20				25				<10			
*meta & para-Xylene	µg/L			8				<2				<2				<2				<2			
*Naphthalene	µg/L			<5				<5				<5				<1				<1			
*Nitrate	mg/L	<0.01	<0.01	0.08	9.02	0.46	-	-	0.02	0.06	0.28	<0.01	0.04	0.05	0.077	<0.005	<0.025	0.007	<0.005	0.006			
*Nitrite	mg/L	<0.01	0.01	<0.01	<0.01	<0.01	-	-	<0.01	0.01	0.01	<0.01	<0.01	<0.05	<0.005	<0.005	<0.025	<0.005	<0.005	<0.005			
*ortho-Xylene	µg/L			4				<2				<2				<1				<1			
Alkalinity	mg/L	461	406	821	1240	596	425	657	818	156	48	697	850	570	670	1200	1100	660	720	720			
Aluminium	mg/L			<0.01				0.01				<0.01				0.02				0.01			
Arsenic	mg/L			<0.001				0.004				0.003				0.006				0.004			
Barium	mg/L			0.04				11.2				13.8				28				14			
Benzene	µg/L			10				3				<1				7				2			
Cadmium	mg/L			<0.0001				<0.0001				<0.0001				<0.0001				<0.0001			
Calcium	mg/L	410	354	100	99	87	452	147	217	9	29	171	257	130	170	330	290	150	190	160			
Chloride	mg/L	5380	6220	242	2730	1640	6590	1760	3230	47	29	2210	3040	2000	2100	2700	2700	2600	2300	2500			
Chromium	mg/L			<0.001				0.003				<0.001				0.001				0.005			
Copper	mg/L			0.007				0.002				<0.001				0.01				0.008			
Electrical Conductivity	µS/cm	16190	16180	14640	10990	14330	6960	6570	9780	10083	8811	11725	9944	5160	7153	10710	9927	9706	7433	7095			
Ethyl Benzene	µg/L			<2				<2				<2				<1				<1			
Fluoride	mg/L			0.4				0.3				0.2	0.2			0.1				0.2			
Lead	mg/L			<0.001				0.003				<0.001				0.001				<0.001			
Magnesium	mg/L	193	165	105	202	20	163	38	89	2	4	45	72	37	43	96	82	86	50	48			
Manganese	mg/L			0.003				0.477				0.288				0.19				0.52			
Mercury	mg/L			<0.0001				<0.0001				<0.0001				<0.00005				<0.00005			
Nitrate + nitrite	mg/L	<0.01	<0.01	0.08	9.02	0.46	0.04	<0.01	0.02	0.07	0.29	<0.01	0.04	0.05	0.077	<0.005	<0.025	0.007	<0.005	0.006			
Nitrogen (ammonia)	mg/L	7.82	7.9	10.7	0.12	3.3	8.35	7.8	3.13	<0.01	0.04	5.64	5.34	8.1	7	5.8	6.4	5.6	8.7	6.5			
pH		5.98	7.99	6.99	6.73	6.98	6.7	7.01	7.28	6.99	6.9	8.23	7.3	7.05	6.78	7.1	7.17	7.37	6.76	6.61			
Phenols	µg/L			1.7				<0.05				<1.0				<50				<0.05			
Phosphorus	mg/L			<0.01				0.03				0.03				0.07				<0.05			
Potassium	mg/L	49	41	2	18	24	42	40	64	4	3	43	55	46	49	71	65	60	56	47			
Redox	mV	85.3	-30.1	18.3	-93	20.1	-17.1	-29.8	-50.7	-31.4	-33.36	-68.4	72.3	-46	-82.9	-59.3	-96.9	135.9	49.6	-39.1			
Sodium	mg/L	3660	3570	637	1920	782	3580	1270	1850	109	17	1390	1670	1600	3100	2300	1900	1600	1300	1400			
Standing water level	m AHD	11.43	11.268	14.535	7.022	19.06	17.59	18.783	19.843	20.07	20.392	21.506	21.823	17.15	17.93	21.14	16.55	16.8	15.55	18.51			
Sulphate	mg/L	<10	<10	908	360	<1	<1	<1	<1	25	41	<1	<1	54	2	<1	<1	<1	<1	<1			
Toluene	µg/L			21				<2				<2				2				<1			
Total organic carbon	mg/L			22				20				7				89				34			
Total Petroleum Hydrocarbons	µg/L			70				130				200				25				480			
Xylene	µg/L			12				<2				<2				<1				<2			
Zinc	mg/L			0.016				5.82				3.9				0.17				3			