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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BH12d & BH26d		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**
Alkalinity (total) as CaCO3	mg/L		506	584	753	627	349	554	824	938	948	943	933	930	1,000	1,000	1,000	1,000	650	1,100	1,100	1,100	1,100
Aluminium (filtered)	mg/L			0.02				<0.01				<0.01				<0.01				<0.01			
Arsenic (filtered)	mg/L			0.002				0.002				0.002				0.004				0.002			
Barium (filtered)	mg/L			6.8				7.29				25.1				20				24			
Benzene	µg/L			10				8				14				<1				10			
Cadmium (filtered)	mg/L			<0.0001				<0.0001				<0.0001				<0.0001				<0.0001			
Calcium (filtered)	mg/L		8	88	170	184	87	84	180	165	182	223	191	200	210	220	190	220	260	250	250	210	250
Chloride	mg/L		3,290	3,610	3,450	3,230	1,340	1,930	3,490	3,190	3,320	3,410	3,160	3,000	2,900	2,900	2,600	2,500	3,200	3,100	2,700	2,900	2,900
Chromium (III+VI) (filtered)	mg/L			<0.001				<0.001				<0.001				<0.001				<0.001			
Copper (filtered)	mg/L			<0.001				<0.001				<0.001				0.019				0.002			
EC (field)	uS/cm		9,872	11,050	10,750	10,720	9,570	10,830	9,620	9,700	7,070	5,988	4,231	10,270	10,480	9,774	9,993	9,873	10,528	9,470	9,753	9,448	9,956
Ethylbenzene	µg/L			<2				<2				2				<1				<1			
Fluoride	mg/L			0.2			0.1	0.2		<0.1	0.2	0.2	0.1			0.1				0.1			
Lead (filtered)	mg/L			<0.001				<0.001				<0.001				<0.001				<0.001			
Magnesium (filtered)	mg/L		28	66	77	74	37	33	70	57	70	79	73	74	76	76	72	70	83	82	78	66	82
Manganese (filtered)	mg/L			0.122				0.124				0.2				0.16				0.18			
Mercury (filtered)	mg/L			<0.0001				<0.0001				<0.0001				<0.00005				<0.00005			
Nitrogen (Total Oxidised)	mg/L		<0.01	<0.01	0.05	0.09	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	0.02	0.02	0.04	0.02	0.006	0.007	0.3	<0.005	<0.005	<0.005	0.01
Ammonia	mg/L		15.5	10.7	8.82	8.54	4.18	8.64	8.2	7.67	8.27	7.93	8.02	8	6.6	6.2	6.9	6.2	5.3	7.5	7.9	6.2	7.0
pH (Field)	-		10.79	8.25	6.86	8.2	6.95	7.28	7.14	6.82	6.78	7.11	7.04	7.1	7.25	7.32	8.06	7.03	6.75	6.3	6.58	6.80	6.90
Phenolics Total	µg/L															<0.05				<50			
Phosphorus	mg/L			<0.01				<0.01				0.1				<0.05				<0.05			
Potassium (filtered)	mg/L		103	73	78	70	36	30	64	54	83	70	63	69	82	80	73	61	75	63	74	65	62
Redox Potential (Field)	mV		-100.6	-53.7	-28.3	16.2	-31.3	-48.2	-43.2	-42.5	-143.1	-112.1	-140.4	-45	-74.3	-136.3	-260.1	-117.2	-13	-37.1	-109.9	-37.3	-56.9
Sodium (filtered)	mg/L		2,190	2,040	2,240	2,340	1,030	928	2,050	1,550	1,850	2,110	1,890	2,500	2,600	2,600	1,900	1,500	1,800	2,100	2,100	1,900	1,700
Sulphate	mg/L		116	25	<1	2	2	<1	<10	<1	<10	<1	<5	4	2	4	3	13	1	<1	1	<1	<1
Toluene	µg/L			22				<2				<2				<1				<1			
TOC	mg/L			21				5				18				28				37			
Xylene Total	µg/L			12				13				28											
Xylene (m & p)	µg/L			8				9				20				<2				3			
Zinc (filtered)	mg/L			0.009				<0.005				0.009				0.081				0.19			
C10-C14	µg/L			<50				<50				<50				<50				240			
C10-C16	mg/L			<0.1				<0.1				<0.1				<0.05				0.24			
C15-C28	µg/L			<100				<100				<100				<100				120			
C16-C34	mg/L			<0.1				<0.1				<0.1				<0.1				<0.1			
C29-C36	µg/L			<50				<50				<50				<100				<100			
C34-C40	mg/L			<0.1				<0.1				<0.1				<0.1				<0.1			
C6-C10	mg/L			0.08				0.04				0.07				<0.01				0.013			
C6-C9	µg/L			80				40				70				<10				13			
F2 minus Naphthalene	mg/L			<0.1				<0.1				<0.1				<0.05				0.24			
C10-C40 (Sum of total)	µg/L			<100				<100				<100				<100							
+C10-C36 (Sum of total)	µg/L			<50				<50				<50				<50							

BH12d & BH26d		2021				2022				2023				2024			
Pollutant	**Units**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Alkalinity (total) as CaCO3	**mg/L**	1,100	1,100														
Aluminium (filtered)	**mg/L**	<0.01															
Arsenic (filtered)	**mg/L**	0.001															
Barium (filtered)	**mg/L**	25															
Benzene	**µg/L**	9															
Cadmium (filtered)	**mg/L**	<0.0001															
Calcium (filtered)	**mg/L**	260	240														
Chloride	**mg/L**	3,000	2,700														
Chromium (III+VI) (filtered)	**mg/L**	0.003															
Copper (filtered)	**mg/L**	0.001															
EC (field)	**uS/cm**	9,576	9,448														
Ethylbenzene	**µg/L**	<1															
Fluoride	**mg/L**	0.2															
Lead (filtered)	**mg/L**	<0.001															
Magnesium (filtered)	**mg/L**	79	72														
Manganese (filtered)	**mg/L**	0.19															
Mercury (filtered)	**mg/L**	<0.00005															
Nitrogen (Total Oxidised)	**mg/L**	<0.005															
Ammonia	**mg/L**	7.3	7.3														
pH (Field)	**-**	6.82	6.76														
Phenolics Total	**µg/L**	<50															
Phosphorus	**mg/L**	<0.05															
Potassium (filtered)	**mg/L**	61	67														
Redox Potential (Field)	**mV**	-108.2	-89.3														
Sodium (filtered)	**mg/L**	1,700	1,800														
Sulphate	**mg/L**	2	<1														
Toluene	**µg/L**	<1															
TOC	**mg/L**	43															
Xylene Total	**µg/L**																
Xylene (m & p)	**µg/L**	<2															
Zinc (filtered)	**mg/L**	0.023															
TPH																	
C10-C14	**µg/L**	200															
C10-C16	**mg/L**	0.3															
C15-C28	**µg/L**	170															
C16-C34	**mg/L**	<0.1															
C29-C36	**µg/L**	<100															
C34-C40	**mg/L**	<0.1															
C6-C10	**mg/L**	<0.01															
C6-C9	**µg/L**	<10															
F2 minus Naphthalene	**mg/L**	0.3															
C10-C40 (Sum of total)	**µg/L**																
+C10-C36 (Sum of total)	**µg/L**																