



Pollutant Monitoring Results - Leachate

Environmental Protection Licence Number:

5065

Licensee Name:

Lucas Heights Resource Recovery Park

Facility Address:

New Illawarra Rd Lucas Heights, NSW 2234

A copy of the full licence can be found on the POEO Public Register <http://www.epa.nsw.gov.au/prpoeoapp/>

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LHD001 (EPA ID 3)														
Pollutant	Unit of measure	Monitoring Frequency Required by licence	9/08/2023	25/10/2023	29/01/2024	18/04/2024	No. of samples required	No. of samples collected and analysed	Pollutant Limit	Exceedance (Y/N)	Min	Max	Average	Comments
Total Alkalinity as CaCO3	mg/L	Yearly	-	-	5970	-	1	1	N/A		5970	5970	5970	
Aluminium	mg/L	Yearly	-	-	0.24	-	1	1	N/A		0.24	0.24	0.24	
Arsenic	mg/L	Yearly	-	-	0.11	-	1	1	N/A		0.11	0.11	0.11	
Barium	mg/L	Yearly	-	-	0.652	-	1	1	N/A		0.652	0.652	0.652	
Benzene	mg/L	Yearly	-	-	<1	-	1	1	N/A		0	0	#DIV/0!	
Benzo(a)pyrene	mg/L	Yearly	-	-	<0.5	-	1	1	N/A		0	0	#DIV/0!	
Bicarbonate Alkalinity as CaCO3	mg/L	Yearly	-	-	5590	-	1	1	N/A		5590	5590	5590	
Biochemical Oxygen Demand	mg/L	Yearly	-	-	35	-	1	1	N/A		35	35	35	
Cadmium	mg/L	Yearly	-	-	<0.0010	-	1	1	N/A		0	0	#DIV/0!	
Calcium	mg/L	Yearly	-	-	59	-	1	1	N/A		59	59	59	
Chemical Oxygen Demand	mg/L	Yearly	-	-	1870	-	1	1	N/A		1870	1870	1870	
Chloride	mg/L	Yearly	-	-	2220	-	1	1	N/A		2220	2220	2220.000	
Hexavalent Chromium	mg/L	Yearly	-	-	<1.00	-	1	1	N/A		0	0	#DIV/0!	
Chromium	mg/L	Yearly	-	-	0.257	-	1	1	N/A		<0.005	<0.05	0.0275	
Cobalt	mg/L	Yearly	-	-	0.053	-	1	1	N/A		<0.005	<0.05	0.0275	
Conductivity	uS/cm	Quarterly	17,700	20400	15900	14600	4	4	N/A		14600	20400	17150	
Copper	mg/L	Yearly	-	-	<0.010	-	1	1	N/A		<0.001	<1	0.25075	
Ethylbenzene	mg/L	Yearly	-	-	<2	-	1	1	N/A		<0.001	<1	0.25075	
Fluoride	mg/L	Yearly	-	-	0.7	-	1	1	N/A		<0.001	<1	0.25075	
Lead	mg/L	Yearly	-	-	<0.010	-	1	1	N/A		<0.002	<2	0.5015	
Magnesium	mg/L	Yearly	-	-	56	-	1	1	N/A		<0.001	<1	0.25075	
Manganese	mg/L	Yearly	-	-	0.412	-	1	1	N/A		<0.001	0.412	0.25075	
Mercury	mg/L	Yearly	-	-	<0.0010	-	1	1	N/A		<0.1	0	12.825	
Nickel	mg/L	Yearly	-	-	0.196	-	1	1	N/A		<0.1	0.196	15.325	
Nitrate as N	mg/L	Yearly	-	-	4.34	-	1	1	N/A		<0.1	4.34	15.325	
Nitrite as N	mg/L	Yearly	-	-	0.13	-	1	1	N/A		0.13	0.13	0.13	
Nitrogen (ammonia)	mg/L	Yearly	-	-	1100	-	1	1	N/A		1100	1100	1100	
Organochlorine pesticides	mg/L	Yearly	-	-	<0.5	-	1	1	N/A		0	0	#DIV/0!	
Organophosphate pesticides	mg/L	Yearly	-	-	0.736842105	-	1	1	N/A		0.736842105	0.736842105	0.736842105	
pH	pH	Quarterly	8.71	8.44	8.46	8.43	4	4	N/A		8.43	8.71	8.51	
Total Phosphorus	mg/L	Yearly	-	-	16.5	-	1	1	N/A		16.5	16.5	16.5	
Polycyclic Aromatic hydrocarbons	mg/L	Yearly	-	-	<0.5	-	1	1	N/A		<0.1	0	110.05	
Potassium	mg/L	Yearly	-	-	837	-	1	1	N/A		837	837	837	
Sodium	mg/L	Yearly	-	-	1600	-	1	1	N/A		1600	1600	1600	
Sulfate	mg/L	Yearly	-	-	<10	-	1	1	N/A		0	0	#DIV/0!	
Toluene	mg/L	Yearly	-	-	<2	-	1	1	N/A		0	0	#DIV/0!	
Total Dissolved Solids	mg/L	Yearly	-	-	7530	-	1	1	N/A		7530	7530	7530	
Total Organic Carbon	mg/L	Yearly	-	-	624	-	1	1	N/A		<0.005	<0.005	<0.005	
Total Petroleum Hydrocarbons	mg/L	Yearly	-	-	1620	-	1	1	N/A		1620	1620	1620	
Total Phenolics	mg/L	Yearly	-	-	<0.05	-	1	1	N/A		0	0	#DIV/0!	
Total Suspended Solids	mg/L	Yearly	-	-	88	-	1	1	N/A		88	88	88	
Xylene	mg/L	Yearly	-	-	<2	-	1	1	N/A		0	0	#DIV/0!	
Zinc	mg/L	Yearly	-	-	0.166	-	1	1	N/A		<0.05	<0.05	<0.05	
LHDAM (EPA ID 40)														
Total Alkalinity as CaCO3	mg/L	Yearly	-	-	1890	-	1	1	N/A	Y/N	1890	1890	1890	
Aluminium	mg/L	Yearly	-	-	<0.10	-	1	1	N/A		0	0	#DIV/0!	
Arsenic	mg/L	Yearly	-	-	<0.010	-	1	1	N/A		0	0	#DIV/0!	
Barium	mg/L	Yearly	-	-	0.177	-	1	1	N/A		0.177	0.177	0.177	
Benzene	mg/L	Yearly	-	-	<1	-	1	1	N/A		0	0	#DIV/0!	
Benzo(a)pyrene	mg/L	Yearly	-	-	<0.5	-	1	1	N/A		0	0	#DIV/0!	
Bicarbonate Alkalinity as CaCO3	mg/L	Yearly	-	-	1890	-	1	1	N/A		1890	1890	1890.000	
Biochemical Oxygen Demand	mg/L	Yearly	-	-	22	-	1	1	N/A		22	22	22.000	
Cadmium	mg/L	Yearly	-	-	<0.0010	-	1	1	N/A		0	0	#DIV/0!	
Calcium	mg/L	Yearly	-	-	63	-	1	1	N/A		63	63	63.000	

Pollutant	Unit of measure	Monitoring Frequency Required by licence	9/08/2023	25/10/2023	29/01/2024	18/04/2024	No. of samples required	No. of samples collected and analysed	Pollutant Limit	Exceedance (Y/N)	Min	Max	Average	Comments
Chemical Oxygen Demand	mg/L	Yearly	-	-	283	-	1	1	N/A		283	283	283.000	
Chloride	mg/L	Yearly	-	-	829	-	1	1	N/A		829	829	829.000	
Hexavalent Chromium	mg/L	Yearly	-	-	<0.10	-	1	1	N/A		0	0	#DIV/0!	
Chromium	mg/L	Yearly	-	-	0.013	-	1	1	N/A		<0.005	<0.05	0.0275	
Cobalt	mg/L	Yearly	-	-	0.012	-	1	1	N/A		<0.005	0.012	0.005	
Conductivity	uS/cm	Quarterly	**	**	6060	5280	4	2	N/A		5280	6060	5670.00	
Copper	mg/L	Yearly	-	-	0.052	-	1	1	N/A		<0.001	0.052	2.001	
Ethylbenzene	mg/L	Yearly	-	-	<2	-	1	1	N/A		<0.001	<1	0.25	
Fluoride	mg/L	Yearly	-	-	0.3	-	1	1	N/A		<0.001	<1	0.25	
Lead	mg/L	Yearly	-	-	<0.010	-	1	1	N/A		<0.002	0	2.668	
Magnesium	mg/L	Yearly	-	-	36	-	1	1	N/A		<0.001	<1	0.25	
Manganese	mg/L	Yearly	-	-	0.11	-	1	1	N/A		<0.001	0.11	9.667	
Mercury	mg/L	Yearly	-	-	<0.0001	-	1	1	N/A		<0.1	0	40.066	
Nickel	mg/L	Yearly	-	-	0.047	-	1	1	N/A		<0.1	0.047	56.733	
Nitrate as N	mg/L	Yearly	-	-	0.1	-	1	1	N/A		<0.1	0.1	50.067	
Nitrite as N	mg/L	Yearly	-	-	0.23	-	1	1	N/A		0.23	0.23	0.23	
Nitrogen (ammonia)	mg/L	Yearly	-	-	403	-	1	1	N/A		403	403	403.000	
Organochlorine pesticides	mg/L	Yearly	-	-	<0.5	-	1	1	N/A		0	0	#DIV/0!	
Organophosphate pesticides	mg/L	Yearly	-	-	<0.5	-	1	1	N/A		0	0	#DIV/0!	
pH	pH	Quarterly	**	**	7.7	7.78	4	2	N/A		7.7	7.78	7.740	
Total Phosphorus	mg/L	Yearly	-	-	0.84	-	1	1	N/A		0.84	0.84	0.84	
Polycyclic Aromatic hydrocarbons	mg/L	Yearly	-	-	<0.5	-	1	1	N/A		<0.1	0	96.733	
Potassium	mg/L	Yearly	-	-	270	-	1	1	N/A		270	270	270	
Sodium	mg/L	Yearly	-	-	522	-	1	1	N/A		522	522	522	
Sulfate	mg/L	Yearly	-	-	<10	-	1	1	N/A		0	0	#DIV/0!	
Toluene	mg/L	Yearly	-	-	<2	-	1	1	N/A		<0.1	<0.1	<0.1	
Total Dissolved Solids	mg/L	Yearly	-	-	2310	-	1	1	N/A		2310	2310	2310	
Total Organic Carbon	mg/L	Yearly	-	-	124	-	1	1	N/A		<0.005	<0.005	<0.005	
Total Petroleum Hydrocarbons	mg/L	Yearly	-	-	670	-	1	1	N/A		670	670	670	
Total Phenolics	mg/L	Yearly	-	-	<0.05	-	1	1	N/A		<1	<1	<1	
Total Suspended Solids	mg/L	Yearly	-	-	12	-	1	1	N/A		<1	<1	<1	
Xylene	mg/L	Yearly	-	-	<2	-	1	1	N/A		0	0	#DIV/0!	
Zinc	mg/L	Yearly	-	-	<0.052	-	1	1	N/A		<0.05	<0.05	<0.05	

**Sample was not taken due to administration error. This has since been rectified.