

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/prpoeapp/>

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LHD001 (EPA ID 3)																
Pollutant	Unit of measure	Monitoring Frequency Required by licence	8/07/2024	16/10/2024	7/01/2025	28/04/2025	3/09/2025		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	-	-	8300	-	-		1	1	N/A	N	8,300	8,300	8,300	
Aluminium	mg/L	Yearly	-	-	0.76	-	-		1	1	N/A	N	1	1	1	
Arsenic	mg/L	Yearly	-	-	0.145	-	-		1	1	N/A	N	0	0	0	
Barium	mg/L	Yearly	-	-	0.7	-	-		1	1	N/A	N	1	1	1	
Benzene	mg/L	Yearly	-	-	<0.001	-	-		1	1	N/A	N	0	0	#DIV/0!	
Benzo(a)pyrene	mg/L	Yearly	-	-	<0.0005	-	-		1	1	N/A	N	0	0	#DIV/0!	
Bicarbonate Alkalinity as CaCO3	mg/L	Yearly	-	-	6700	-	-		1	1	N/A	N	6,700	6,700	6,700	
Biochemical Oxygen Demand	mg/L	Yearly	-	-	199	-	-		1	1	N/A	N	199	199	199	
Cadmium	mg/L	Yearly	-	-	0.0002	-	-		1	1	N/A	N	0	0	0	
Calcium	mg/L	Yearly	-	-	40	-	-		1	1	N/A	N	40	40	40	
Chemical Oxygen Demand	mg/L	Yearly	-	-	5000	-	-		1	1	N/A	N	5,000	5,000	5,000	
Chloride	mg/L	Yearly	-	-	2980	-	-		1	1	N/A	N	2,980	2,980	2,980	
Hexavalent Chromium	mg/L	Yearly	-	-	<1.00	-	-		1	1	N/A	N	0	0	#DIV/0!	
Chromium	mg/L	Yearly	-	-	0.383	-	-		1	1	N/A	N	0	0	0	
Cobalt	mg/L	Yearly	-	-	0.076	-	-		1	1	N/A	N	0	0	0	
Conductivity	uS/cm	Quarterly	16,900	17400	20600	18600	-		4	4	N/A	N	16,900	20,600	18,375	
Copper	mg/L	Yearly	-	-	0.008	-	-		1	1	N/A	N	0	0	0	
Ethylbenzene	mg/L	Yearly	-	-	<0.002	-	-		1	1	N/A	N	0	0	#DIV/0!	
Fluoride	mg/L	Yearly	-	-	0.7	-	-		1	1	N/A	N	1	1	1	
Lead	mg/L	Yearly	-	-	0.009	-	-		1	1	N/A	N	0	0	0	
Magnesium	mg/L	Yearly	-	-	34	-	-		1	1	N/A	N	34	34	34	
Manganese	mg/L	Yearly	-	-	0.377	-	-		1	1	N/A	N	0	0	0	
Mercury	mg/L	Yearly	-	-	<0.0001	-	-		1	1	N/A	N	0	0	#DIV/0!	
Nickel	mg/L	Yearly	-	-	0.28	-	-		1	1	N/A	N	0	0	0	
Nitrate as N	mg/L	Yearly	-	-	1.18	-	-		1	1	N/A	N	1	1	1	
Nitrite as N	mg/L	Yearly	-	-	<0.10	-	-		1	1	N/A	N	0	0	#DIV/0!	
Nitrogen (ammonia)	mg/L	Yearly	-	-	1440	-	285		1	1	N/A	N	285	1,440	863	
Organochlorine pesticides	mg/L	Yearly	-	-	<0.0008	-	-		1	1	N/A	N	0	0	#DIV/0!	
Organophosphate pesticides	mg/L	Yearly	-	-	<0.0024	-	-		1	0	N/A	N	0	0	#DIV/0!	
pH	pH	Quarterly	8.61	8.47	8.63	8.5	-		4	4	N/A	N	8	9	9	
Total Phosphorus	mg/L	Yearly	-	-	23.9	-	-		1	1	N/A	N	24	24	24	
Polycyclic Aromatic hydrocarbons	mg/L	Yearly	-	-	n/a	-	-		1	1	N/A	N	0	0	#DIV/0!	
Potassium	mg/L	Yearly	-	-	1000	-	-		1	1	N/A	N	1,000	1,000	1,000	
Sodium	mg/L	Yearly	-	-	1940	-	-		1	1	N/A	N	1,940	1,940	1,940	
Sulfate	mg/L	Yearly	-	-	n/a	-	-		1	1	N/A	N	0	0	#DIV/0!	
Toluene	mg/L	Yearly	-	-	124	-	-		1	1	N/A	N	124	124	124	
Total Dissolved Solids	mg/L	Yearly	-	-	n/a	-	-		1	0	N/A	N	0	0	#DIV/0!	
Total Organic Carbon	mg/L	Yearly	-	-	1380	-	-		1	1	N/A	N	1,380	1,380	1,380	
Total Petroleum Hydrocarbons	mg/L	Yearly	-	-	n/a	-	-		1	0	N/A	N	0	0	#DIV/0!	
Total Phenolics	mg/L	Yearly	-	-	n/a	-	-		1	1	N/A	N	0	0	#DIV/0!	
Total Suspended Solids	mg/L	Yearly	-	-	312	-	-		1	1	N/A	N	312	312	312	
Xylene	mg/L	Yearly	-	-	n/a	-	-		1	1	N/A	N	0	0	#DIV/0!	
Zinc	mg/L	Yearly	-	-	0.364	-	-		1	1	N/A	N	0	0	0	
LH1DAM (EPA ID 40)																
Total Alkalinity as CaCO3	mg/L	Yearly	-	-	5640	-	-		1	1	N/A	N	5,640	5,640	5,640	
Aluminium	mg/L	Yearly	-	-	0.34	-	-		1	1	N/A	N	0	0	0	

Pollutant	Unit of measure	Monitoring Frequency Required by licence	8/07/2024	16/10/2024	7/01/2025	28/04/2025	3/09/2025		No. of samples required	No. of samples collected and analysed	Pollutant Limit	Exceedance (Y/N)	Min	Max	Average	Comments
Arsenic	mg/L	Yearly	-	-	0.088	-	-		1	1	N/A	N	0	0	0	
Barium	mg/L	Yearly	-	-	0.52	-	-		1	1	N/A	N	1	1	1	
Benzene	mg/L	Yearly	-	-	<0.001	-	-		1	1	N/A	N	0	0	#DIV/0!	
Benzo(a)pyrene	mg/L	Yearly	-	-	<0.0005	-	-		1	1	N/A	N	0	0	#DIV/0!	
Bicarbonate Alkalinity as CaCO3	mg/L	Yearly	-	-	5480	-	-		1	1	N/A	N	5,480	5,480	5,480	
Biochemical Oxygen Demand	mg/L	Yearly	-	-	203	-	-		1	1	N/A	N	203	203	203	
Cadmium	mg/L	Yearly	-	-	<0.0001	-	-		1	1	N/A	N	0	0	#DIV/0!	
Calcium	mg/L	Yearly	-	-	86	-	-		1	1	N/A	N	86	86	86	
Chemical Oxygen Demand	mg/L	Yearly	-	-	3070	-	-		1	1	N/A	N	3,070	3,070	3,070	
Chloride	mg/L	Yearly	-	-	2330	-	-		1	1	N/A	N	2,330	2,330	2,330	
Hexavalent Chromium	mg/L	Yearly	-	-	<1.00	-	-		1	1	N/A	N	0	0	#DIV/0!	
Chromium	mg/L	Yearly	-	-	0.254	-	-		1	1	N/A	N	0	0	0	
Cobalt	mg/L	Yearly	-	-	0.054	-	-		1	1	N/A	N	0	0	0	
Conductivity	uS/cm	Quarterly	10300	13500	16100	12600	-		4	4	N/A	N	10,300	16,100	13,125	
Copper	mg/L	Yearly	-	-	0.004	-	-		1	1	N/A	N	0	0	0	
Ethylbenzene	mg/L	Yearly	-	-	<0.002	-	-		1	1	N/A	N	0	0	#DIV/0!	
Fluoride	mg/L	Yearly	-	-	0.6	-	-		1	1	N/A	N	1	1	1	
Lead	mg/L	Yearly	-	-	0.004	-	-		1	1	N/A	N	0	0	0	
Magnesium	mg/L	Yearly	-	-	58	-	-		1	1	N/A	N	58	58	58	
Manganese	mg/L	Yearly	-	-	0.256	-	-		1	1	N/A	N	0	0	0	
Mercury	mg/L	Yearly	-	-	<0.0001	-	-		1	1	N/A	N	0	0	#DIV/0!	
Nickel	mg/L	Yearly	-	-	0.197	-	-		1	1	N/A	N	0	0	0	
Nitrate as N	mg/L	Yearly	-	-	<0.10	-	-		1	0	N/A	N	0	0	#DIV/0!	
Nitrite as N	mg/L	Yearly	-	-	<0.10	-	-		1	0	N/A	N	0	0	#DIV/0!	
Nitrogen (ammonia)	mg/L	Yearly	-	-	1210	-	-		1	1	N/A	N	1,210	1,210	1,210	
Organochlorine pesticides	mg/L	Yearly	-	-	<0.0008	-	-		1	1	N/A	N	0	0	#DIV/0!	
Organophosphate pesticides	mg/L	Yearly	-	-	<0.0024	-	-		1	1	N/A	N	0	0	#DIV/0!	
pH	pH	Quarterly	8.35	8.4	8.39	8.37	-		4	4	N/A	N	8	8	8	
Total Phosphorus	mg/L	Yearly	-	-	13.4	-	-		1	1	N/A	N	13	13	13	
Polycyclic Aromatic hydrocarbons	mg/L	Yearly	-	-	n/a	-	-		1	1	N/A	N	0	0	#DIV/0!	
Potassium	mg/L	Yearly	-	-	980	-	-		1	1	N/A	N	980	980	980	
Sodium	mg/L	Yearly	-	-	1940	-	-		1	1	N/A	N	1,940	1,940	1,940	
Sulfate	mg/L	Yearly	-	-	n/a	-	-		1	1	N/A	N	0	0	#DIV/0!	
Toluene	mg/L	Yearly	-	-	129	-	-		1	1	N/A	N	129	129	129	
Total Dissolved Solids	mg/L	Yearly	-	-	n/a	-	-		1	0	N/A	N	0	0	#DIV/0!	
Total Organic Carbon	mg/L	Yearly	-	-	826	-	-		1	1	N/A	N	826	826	826	
Total Petroleum Hydrocarbons	mg/L	Yearly	-	-	n/a	-	-		1	0	N/A	N	0	0	#DIV/0!	
Total Phenolics	mg/L	Yearly	-	-	n/a	-	-		1	1	N/A	N	0	0	#DIV/0!	
Total Suspended Solids	mg/L	Yearly	-	-	117	-	-		1	1	N/A	N	117	117	117	
Xylene	mg/L	Yearly	-	-	n/a	-	-		1	1	N/A	N	0	0	#DIV/0!	
Zinc	mg/L	Yearly	-	-	0.157	-	-		1	1	N/A	N	0	0	0	
Date Monitoring Data Obtained					15/01/2025	9/05/2025	10/09/2025									
Date Uploaded					7/02/2025	20/05/2025	26/09/2025									

Note:

** - Monitoring date pending

n/a - analysis not done, analysis to be done during the next sampling event.