

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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Pollutant	Unit of measure	Monitoring Frequency Required by licence	8/07/2024	16/10/2024	7/01/2025	28/04/2025	-	No. of samples required	No. of samples collected and analysed	Pollutant Limit	Exceedance (Y/N)	Min	Max	Average	Comments
Total Alkalinity as CaCO ₃	mg/L	Yearly	-	-	8300	-	-	1	1	N/A	N	8300	8300	8300	
Aluminium	mg/L	Yearly	-	-	0.76	-	-	1	1	N/A	N	0.76	0.76	0.76	
Arsenic	mg/L	Yearly	-	-	0.145	-	-	1	1	N/A	N	0.145	0.145	0.145	
Barium	mg/L	Yearly	-	-	0.7	-	-	1	1	N/A	N	0.7	0.7	0.7	
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 CaCO ₃	mg/L	Yearly	-	-	6700	-	-	1	1	N/A	N	6700	6700	6700	
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	0.0002	0.0002	0.0002	
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	5000	5000	5000	
Chloride	mg/L	Yearly	-	-	2980	-	-	1	1	N/A	N	2980	2980	2980	
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	0.383	0.383	0.383	
Cobalt	mg/L	Yearly	-	-	0.076	-	-	1	1	N/A	N	0.076	0.076	0.076	
Conductivity	uS/cm	Quarterly	16,900	17400	20600	18600	-	4	4	N/A	N	16900	20600	18375	
Copper	mg/L	Yearly	-	-	0.008	-	-	1	1	N/A	N	0.008	0.008	0.008	
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	0.7	0.7	0.7	
Lead	mg/L	Yearly	-	-	0.009	-	-	1	1	N/A	N	0.009	0.009	0.009	
Magnesium	mg/L	Yearly	-	-	34	-	-	1	1	N/A	N	34	34	34	
Manganese	mg/L	Yearly	-	-	0.377	-	-	1	1	N/A	N	0.377	0.377	0.377	
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	0.28	0.28	0.28	
Nitrate as N	mg/L	Yearly	-	-	1.18	-	-	1	1	N/A	N	1.18	1.18	1.18	
Nitrite as N	mg/L	Yearly	-	-	<0.10	-	-	1	1	N/A	N	0	0	#DIV/0!	
Nitrogen (ammonia)	mg/L	Yearly	-	-	1440	-	-	1	1	N/A	N	1440	1440	1440	
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	8.47	8.63	8.5525	
Total Phosphorus	mg/L	Yearly	-	-	23.9	-	-	1	1	N/A	N	23.9	23.9	23.9	
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	1000	1000	1000	
Sodium	mg/L	Yearly	-	-	1940	-	-	1	1	N/A	N	1940	1940	1940	
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	1380	1380	1380	
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!	

Pollutant	Unit of measure	Monitoring Frequency Required by licence	8/07/2024	16/10/2024	7/01/2025	28/04/2025	-	No. of samples required	No. of samples collected and analysed	Pollutant Limit	Exceedance (Y/N)	Min	Max	Average	Comments
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	0.364	0.364	0.364	
			8/07/2024	16/10/2024	7/01/2025	28/04/2025	14/07/2025								
Total Alkalinity as CaCO3	mg/L	Yearly	-	-	5640	-	-	1	1	N/A	N	5640	5640	5640	
Aluminium	mg/L	Yearly	-	-	0.34	-	-	1	1	N/A	N	0.34	0.34	0.34	
Arsenic	mg/L	Yearly	-	-	0.088	-	-	1	1	N/A	N	0.088	0.088	0.088	
Barium	mg/L	Yearly	-	-	0.52	-	-	1	1	N/A	N	0.52	0.52	0.52	
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	5480	5480	5480	
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	3070	3070	3070	
Chloride	mg/L	Yearly	-	-	2330	-	-	1	1	N/A	N	2330	2330	2330	
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	0.254	0.254	0.254	
Cobalt	mg/L	Yearly	-	-	0.054	-	-	1	1	N/A	N	0.054	0.054	0.054	
Conductivity	uS/cm	Quarterly	10300	13500	16100	12600	12500	4	4	N/A	N	10300	16100	13000	
Copper	mg/L	Yearly	-	-	0.004	-	-	1	1	N/A	N	0.004	0.004	0.004	
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	0.6	0.6	0.6	
Lead	mg/L	Yearly	-	-	0.004	-	-	1	1	N/A	N	0.004	0.004	0.004	
Magnesium	mg/L	Yearly	-	-	58	-	-	1	1	N/A	N	58	58	58	
Manganese	mg/L	Yearly	-	-	0.256	-	-	1	1	N/A	N	0.256	0.256	0.256	
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	0.197	0.197	0.197	
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	1210	1210	1210	
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	8.46	4	4	N/A	N	8.35	8.46	8.394	
Total Phosphorus	mg/L	Yearly	-	-	13.4	-	-	1	1	N/A	N	13.4	13.4	13.4	
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	1940	1940	1940	
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	0.157	0.157	0.157	
Date Monitoring Data Obtained					15/01/2025	9/05/2025	21/07/2025								
Date Uploaded					7/02/2025	20/05/2025	1/08/2025								

Note:

** - Monitoring date pending

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