

Brou Landfill Facility - Annual Result Summary - Oct 2023 to Oct 2024



Anniversary Date: 30-Oct-23
Published Date: 3-Jul-24

Licensee: Eurobodalla Shire Council
 EPL No.: 5881
 Premises: Brou Landfill Facility
 Address: Brou Lake Road, Dalmeny NSW 2546
 EPL Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32802&SYSUID=1&LICID=5881>
 POEO Public Register: <http://www.epa.nsw.gov.au/prpoeoapp/>
 Licence Period: 30-Oct-23 to 29-Oct-24
 Sample Period: 30-Oct-23 to 29-Oct-24 (Annual)

Licence Point 1 - BR809 (Upper) Groundwater Annual Parameters

Sample Frequency	Annual
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Annual Result	Additional Result	Comment
		Sample Date 23/04/24 Obtained Date 07/05/24	Sample Date Obtained Date	
Aluminium (dissolved)	(mg/L)	0.01		
Arsenic	(mg/L)	<0.02		
Barium	(mg/L)	0.523		
Benzene	(mg/L)	<0.0003		
Cadmium	(mg/L)	<0.005		
Chromium (hexavalent)	(mg/L)	<0.0004		
Chromium (total)	(mg/L)	<0.005		
Cobalt	(mg/L)	<0.005		
Copper (dissolved)	(mg/L)	<0.005		
Ethyl benzene	(mg/L)	<0.0003		
Fluoride	(mg/L)	0.21		
Lead (dissolved)	(mg/L)	<0.01		
Manganese	(mg/L)	0.092		
Mercury	(mg/L)	<0.0003		
Nitrate	(mg/L)	<0.01		
Nitrite	(mg/L)	<0.001		
Organochlorine pesticides	(mg/L)	<0.00001		
Organophosphate pesticides	(mg/L)	<0.001		
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001		
Toluene	(mg/L)	<0.0003		
Total Petroleum Hydrocarbons	(mg/L)	<0.2		
Total Phenolics	(mg/L)	<0.05		
Xylene	(mg/L)	<0.0004		
Zinc (dissolved)	(mg/L)	0.03		

Brou Landfill Facility - Annual Result Summary - Oct 2021 to Oct 2022

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 Licence Period: 30-Oct-21 to 29-Oct-22
 Sample Period: 30-Oct-21 to 29-Oct-22 (Annual)



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Licence Point 2 - BR810 (Lower) Groundwater Annual Parameters

Sample Frequency	Annual
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Annual Result Sample Date 23/04/24 Obtained Date 07/05/24	Additional Result Sample Date Obtained Date	Comment
Aluminium (dissolved)	(mg/L)	<0.01		
Arsenic	(mg/L)	<0.02		
Barium	(mg/L)	0.039		
Benzene	(mg/L)	<0.0003		
Cadmium	(mg/L)	<0.005		
Chromium (hexavalent)	(mg/L)	<0.0004		
Chromium (total)	(mg/L)	<0.005		
Cobalt	(mg/L)	0.006		
Copper (dissolved)	(mg/L)	<0.005		
Ethyl benzene	(mg/L)	<0.0003		
Fluoride	(mg/L)	0.21		
Lead (dissolved)	(mg/L)	<0.01		
Manganese	(mg/L)	0.249		
Mercury	(mg/L)	<0.0003		
Nitrate	(mg/L)	0.01		
Nitrite	(mg/L)	<0.001		
Organochlorine pesticides	(mg/L)	0.00002		
Organophosphate pesticides	(mg/L)	<0.001		
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001		
Toluene	(mg/L)	<0.0003		
Total Petroleum Hydrocarbons	(mg/L)	<0.2		
Total phenolics	(mg/L)	<0.05		
Xylene	(mg/L)	<0.0004		
Zinc (dissolved)	(mg/L)	0.03		

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Licence Point 3 - BR811 (Mid) Groundwater Annual Parameters

Sample Frequency	Annual
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Annual Result	Additional Result	Comment
		Sample Date 23/04/24 Obtained Date 07/05/24	Sample Date Obtained Date	
Aluminium (dissolved)	(mg/L)	0.01		
Arsenic	(mg/L)	<0.02		
Barium	(mg/L)	0.104		
Benzene	(mg/L)	<0.0003		
Cadmium	(mg/L)	<0.005		
Chromium (hexavalent)	(mg/L)	<0.0004		
Chromium (total)	(mg/L)	<0.005		
Cobalt	(mg/L)	0.008		
Copper (dissolved)	(mg/L)	<0.005		
Ethyl benzene	(mg/L)	<0.00003		
Fluoride	(mg/L)	0.21		
Lead (dissolved)	(mg/L)	<0.01		
Manganese	(mg/L)	0.438		
Mercury	(mg/L)	<0.0003		
Nitrate	(mg/L)	<0.01		
Nitrite	(mg/L)	<0.001		
Organochlorine pesticides	(mg/L)	<0.00001		
Organophosphate pesticides	(mg/L)	<0.001		
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001		
Toluene	(mg/L)	<0.0003		
Total Petroleum Hydrocarbons	(mg/L)	<0.2		
Total phenolics	(mg/L)	<0.05		
Xylene	(mg/L)	<0.0004		
Zinc (dissolved)	(mg/L)	0.04		

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Licence Point 7 - BR802 Leachate Annual Parameters (Leachate Pond)

Sample Frequency	Annual
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Annual Result Sampling Date 13/03/24 Obtained Date 28/03/24	Additional Result Sampling Date 23/04/24 Obtained Date 07/05/24	Additional Result Sampling Date Obtained Date	Comment
Alkalinity as CaCO3	(mg/L CaCO ₃)	714	591		Anions = sum of Chloride, Sulphate, Bromide and Fluoride
Aluminium (dissolved)	(mg/L)	0.14	0.05		
Ammonia	(mg/L)	49.8	58.3		
Anions	(mg/L)	712.74	612.3		Cations = sum of Calcium, Sodium, Magnesium and Potassium
Arsenic	(mg/L)	0.02	0.02		BTEX = sum of Benzene, Toluene, Ethyl Benzene and Xylene
Barium	(mg/L)	0.047	0.052		
Bromide	(mg/L)	2.5	2.1		
BTEX	(mg/L)	<0.0013	<0.0013		
Cadmium	(mg/L)	<0.005	<0.005		
Calcium (dissolved)	(mg/L)	54.0	59.5		
Cations	(mg/L)	813.3	793.1		
Chloride	(mg/L)	690	590		
Chromium	(mg/L)	0.107	0.098		
Cobalt	(mg/L)	0.006	0.007		
Conductivity	(µS/cm)	3493	3408		
Copper (dissolved)	(mg/L)	0.014	0.131		
Dissolved Oxygen	(mg/L)	1.20	0.82		
Fluoride	(mg/L)	0.24	0.2		
Lead (dissolved)	(mg/L)	0.01	0.01		
Magnesium	(mg/L)	28.3	29.6		
Manganese	(mg/L)	0.192	0.214		
Mercury	(mg/L)	<0.0003	<0.0003		
Nitrate	(mg/L)	<0.01	0.53		
Nitrite	(mg/L)	0.067	0.878		
Nitrogen (Total)	(mg/L)	71.6	82.5		
Oxidised Nitrogen	(mg/L)	0.07	1.41		
pH	pH Units	8.4	7.7		
Phosphorus (Total)	(mg/L)	3.65	2.78		
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001	<0.0001		
Potassium	(mg/L)	247.0	248		
Sodium	(mg/L)	484	456		
Sulphate	(mg/L)	20	20		
Sulfur	(mg/L)	14	14		
TKN	(mg/L)	71.5	81.1		
Total Organic Carbon	(mg/L)	211.8	198.5		
Total Petroleum Hydrocarbons	(mg/L)	0.2	0.3		
Total Suspended Solids (TSS)	(mg/L)	100	23		
Zinc (dissolved)	(mg/L)	0.12	0.64		

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Licence Point 9 - BR812 Downstream Water Quality Annual Parameters (Brou Lake)

Sample Frequency	Annual
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Annual Result Sampling Date 13/03/24 Obtained Date 03/04/24	Additional Result Sampling Date Obtained Date	Additional Result Sampling Date Obtained Date	Comment
Alkalinity as CaCO3	(mg/L CaCO ₃)	90			Anions = sum of Chloride, Sulphate, Bromide and Fluoride
Aluminium (dissolved)	(mg/L)	0.01			
Ammonia	(mg/L)	0.110			Cations = sum of Calcium, Sodium, Magnesium and Potassium
Anions	(mg/L)	20061			
Arsenic	(mg/L)	<0.02			BTEX = sum of Benzene, Toluene, Ethyl Benzene and Xylene
Barium	(mg/L)	0.019			
Bromide	(mg/L)	61			
BTEX	(mg/L)	<0.0013			
Cadmium	(mg/L)	<0.005			
Calcium (dissolved)	(mg/L)	366			
Cations	(mg/L)	11509			
Chloride	(mg/L)	18000			
Chromium	(mg/L)	<0.005			
Cobalt	(mg/L)	<0.005			
Conductivity	(µS/cm)	47690			
Copper (dissolved)	(mg/L)	<0.005			
Dissolved Oxygen	(mg/L)	4.24			
Fluoride	(mg/L)	<50			
Lead (dissolved)	(mg/L)	<0.01			
Magnesium	(mg/L)	1120			
Manganese	(mg/L)	0.025			
Mercury	(mg/L)	<0.0003			
Nitrate	(mg/L)	<0.01			
Nitrite	(mg/L)	<0.001			
Nitrogen (Total)	(mg/L)	0.95			
Oxidised Nitrogen	(mg/L)	<0.01			
pH	pH Units	7.6			
Phosphorus (Total)	(mg/L)	0.048			
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001			
Potassium	(mg/L)	353			
Sodium	(mg/L)	9670			
Sulphate	(mg/L)	2000			
Sulfur	(mg/L)	849			
TKN	(mg/L)	0.95			
Total Organic Carbon	(mg/L)	9.5			
Total Petroleum Hydrocarbons	(mg/L)	<0.2			
Total Suspended Solids (TSS)	(mg/L)	33			
Zinc (dissolved)	(mg/L)	<0.01			

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Licence Point 10 - BR813 Downstream Annual Parameters (Farm Dam)

Sample Frequency	Annual
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Annual Result Sampling Date 02/01/24 Obtained Date 13/01/24	Additional Result Sampling Date 13/03/24 Obtained Date 03/04/24	Additional Result Sampling Date 13/05/24 Obtained Date 23/05/24	Additional Result Sampling Date 11/06/24 Obtained Date 24/06/24	Comment
Alkalinity as CaCO3	(mg/L CaCO ₃)	29.0	61.0	28.0	36.0	Anions = sum of Chloride, Sulphate, Bromide and Fluoride
Aluminium (dissolved)	(mg/L)	0.2	0.02	0.42	0.08	
Ammonia	(mg/L)	0.04	0.02	0.59	0.63	
Anions	(mg/L)	129.9	243.7	102.2	272.8	
Arsenic	(mg/L)	<0.02	<0.02	<0.02	<0.02	Cations = sum of Calcium, Sodium, Magnesium and Potassium
Barium	(mg/L)	0.044	0.057	0.03	0.051	
Bromide	(mg/L)	0.4	0.6	0.2	0.8	
BTEX	(mg/L)	<0.0013	<0.0013	<0.0013	<0.0013	
Cadmium	(mg/L)	<0.005	<0.005	<0.005	0.005	BTEX = sum of Benzene, Toluene, Ethyl Benzene and Xylene
Calcium (dissolved)	(mg/L)	12.6	18.5	12.5	21.5	
Cations	(mg/L)	92.2	158.7	81.8	157.7	
Chloride	(mg/L)	120.0	230.0	91.0	250.0	
Chromium	(mg/L)	<0.005	<0.005	<0.005	<0.005	
Cobalt	(mg/L)	<0.005	<0.005	<0.005	<0.005	
Conductivity	(µS/cm)	499.0	865.0	435.0	908.0	
Copper (dissolved)	(mg/L)	<0.005	<0.005	0.005	<0.005	
Dissolved Oxygen	(mg/L)	5.3	6.05	4.96	7.98	
Fluoride	(mg/L)	0.05	0.12	<0.05	<0.05	
Lead (dissolved)	(mg/L)	<0.01	<0.01	0.01	<0.01	
Magnesium	(mg/L)	13.8	25.6	11.3	29.2	
Manganese	(mg/L)	0.114	0.206	0.018	0.04	
Mercury	(mg/L)	<0.0003	<0.0003	<0.0003	<0.0003	
Nitrate	(mg/L)	0.05	<0.01	0.12	0.13	
Nitrite	(mg/L)	0.011	0.004	0.025	0.017	
Nitrogen (Total)	(mg/L)	2.17	1.58	2.28	2.53	
Oxidised Nitrogen	(mg/L)	0.06	0.01	0.15	0.15	
pH	pH Units	6.9	7.10	6.8	6.8	
Phosphorus (Total)	(mg/L)	0.08	0.061	0.046	0.067	
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	
Potassium	(mg/L)	8.40	11.60	7.30	8.80	
Sodium	(mg/L)	57.0	103.0	51.0	98.0	
Sulphate	(mg/L)	9.5	13.0	11.0	22.0	
Sulfur	(mg/L)	4.0	5.0	5.0	8.0	
TKN	(mg/L)	2.11	1.57	2.13	2.38	
Total Organic Carbon	(mg/L)	43.7	31.5	41.1	25.9	
Total Petroleum Hydrocarbons	(mg/L)	<0.2	<0.2	<0.2	<0.2	
Total Suspended Solids (TSS)	(mg/L)	22.0	65.0	6.0	28.0	
Zinc (dissolved)	(mg/L)	<0.01	<0.01	0.01	<0.01	