

Brou Landfill Facility - Annual Result Summary - Oct 2024 to Oct 2025

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-24 to 29-Oct-25
Sample Period: 30-Oct-25 to 29-Oct-25 (Annual)



Anniversary Date: 30-Oct-24
Published Date: 17-Mar-25

Licence Point 1 - BR809 (Upper) Groundwater Annual Parameters

Sample Frequency	Annual
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Annual Result Sample Date 27/02/25 Obtained Date 11/03/25	Additional Result Sample Date Obtained Date	Comment
Aluminium (dissolved)	(mg/L)	<0.01		
Arsenic	(mg/L)	<0.02		
Barium	(mg/L)	0.518		
Benzene	(mg/L)	<0.0003		
Cadmium	(mg/L)	<0.005		
Chromium (hexavalent)	(mg/L)	<0.005		
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)	0.19		
Lead (dissolved)	(mg/L)	<0.01		
Manganese	(mg/L)	0.096		
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)	<0.02		
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)



Anniversary Date: 30-Oct-24
Published Date: 17-Mar-25

Licence Point 2 - BR810 (Lower) Groundwater Annual Parameters

Sample Frequency	Annual
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Annual Result Sample Date 27/02/25 Obtained Date 11/03/25	Additional Result Sample Date Obtained Date	Comment
Aluminium (dissolved)	(mg/L)	<0.01		
Arsenic	(mg/L)	<0.02		
Barium	(mg/L)	0.042		
Benzene	(mg/L)	<0.0003		
Cadmium	(mg/L)	<0.005		
Chromium (hexavalent)	(mg/L)	<0.005		
Chromium (total)	(mg/L)	<0.005		
Cobalt	(mg/L)	0.007		
Copper (dissolved)	(mg/L)	<0.005		
Ethyl benzene	(mg/L)	<0.0003		
Fluoride	(mg/L)	0.2		
Lead (dissolved)	(mg/L)	<0.01		
Manganese	(mg/L)	0.248		
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)	<0.02		
Total phenolics	(mg/L)	<0.05		
Xylene	(mg/L)	<0.0004		
Zinc (dissolved)	(mg/L)	0.03		

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Sample Period: 30-Oct-25 to 29-Oct-25 (Annual)



Anniversary Date: 30-Oct-24
Published Date: 17-Mar-25

Licence Point 3 - BR811 (Mid) Groundwater Annual Parameters

Sample Frequency	Annual
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Annual Result Sample Date 27/02/25 Obtained Date 11/03/25	Additional Result Sample Date Obtained Date	Comment
Aluminium (dissolved)	(mg/L)	<0.01		
Arsenic	(mg/L)	<0.02		
Barium	(mg/L)	0.108		
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)	0.009		
Copper (dissolved)	(mg/L)	<0.005		
Ethyl benzene	(mg/L)	<0.0003		
Fluoride	(mg/L)	0.18		
Lead (dissolved)	(mg/L)	<0.01		
Manganese	(mg/L)	0.481		
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)	<0.02		
Total phenolics	(mg/L)	<0.05		
Xylene	(mg/L)	<0.0004		
Zinc (dissolved)	(mg/L)	0.06		

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Sample Period: 30-Oct-25 to 29-Oct-25 (Annual)



Anniversary Date: 30-Oct-24
Published Date: 17-Mar-25

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

Sample Frequency	Annual
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Annual Result Sampling Date 28/11/24 Obtained Date 10/12/24	Additional Result Sampling Date 27/02/25 Obtained Date 11/03/25	Additional Result Sampling Date Obtained Date	Additional Result Sampling Date Obtained Date	Comment
Alkalinity as CaCO3	(mg/L CaCO ₃)	983	352			Anions = sum of Chloride, Sulphate, Bromide and Fluoride
Aluminium (dissolved)	(mg/L)	0.13	0.08			
Ammonia	(mg/L)	49	15.9			
Anions	(mg/L)	802.6	494.7			Cations = sum of Calcium, Sodium, Magnesium and Potassium
Arsenic	(mg/L)	0.02	<0.02			
Barium (dissolved)	(mg/L)	0.09	0.036			
Bromide	(mg/L)	2.3	1.5			BTEX = sum of Benzene, Toluene, Ethyl Benzene and Xylene. Increased LOR for BTEX sample 30/07/24 due to analysis issues.
BTEX	(mg/L)	<0.0013	<0.0013			
Cadmium	(mg/L)	<0.005	<0.005			
Calcium (dissolved)	(mg/L)	73.1	48.9			
Cations	(mg/L)	1036.2	500.4			
Chloride	(mg/L)	770	440			
Chromium	(mg/L)	0.138	0.038			
Cobalt	(mg/L)	0.01	<0.005			
Conductivity	(µS/cm)	4834	2089			
Copper (dissolved)	(mg/L)	0.284	0.034			
Dissolved Oxygen	(mg/L)	3.21	6.99			
Fluoride	(mg/L)	0.27	0.2			
Lead (dissolved)	(mg/L)	0.02	<0.01			
Magnesium	(mg/L)	41.1	19.5			
Manganese	(mg/L)	0.27	0.1			
Mercury	(mg/L)	<0.0003	<0.0003			
Nitrate	(mg/L)	0.7	0.16			
Nitrite	(mg/L)	0.875	3.14			
Nitrogen (Total)	(mg/L)	80.5	33.6			
Oxidised Nitrogen	(mg/L)	1.58	3.3			
pH	pH Units	8.6	7.8			
Phosphorus (Total)	(mg/L)	2.6	0.83			
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001	<0.0001			
Potassium	(mg/L)	296	140			
Sodium	(mg/L)	626	292			
Sulphate	(mg/L)	30	53			
Sulfur	(mg/L)	17.3	23.2			
TKN	(mg/L)	78.9	30.3			
Total Organic Carbon	(mg/L)	241.9	111.4			
Total Petroleum Hydrocarbons	(mg/L)	<0.2	<0.02			
Total Suspended Solids (TSS)	(mg/L)	12	32			
Zinc (dissolved)	(mg/L)	0.42	0.1			

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Anniversary Date: 30-Oct-24
Published Date: 17-Mar-25

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 23/01/25 Obtained Date 06/02/25	Additional Result Sampling Date Obtained Date	Additional Result Sampling Date Obtained Date	Comment
Alkalinity as CaCO3	(mg/L CaCO ₃)	86			Anions = sum of Chloride, Sulphate, Bromide and Fluoride Cations = sum of Calcium, Sodium, Magnesium and Potassium BTEX = sum of Benzene, Toluene, Ethyl Benzene and Xylene
Aluminium (dissolved)	(mg/L)	0.02			
Ammonia	(mg/L)	0.14			
Anions	(mg/L)	10030			
Arsenic	(mg/L)	<0.02			
Barium	(mg/L)	0.016			
Bromide	(mg/L)	29			
BTEX	(mg/L)	<0.0013			
Cadmium	(mg/L)	<0.005			
Calcium (dissolved)	(mg/L)	196			
Cations	(mg/L)	5248			
Chloride	(mg/L)	8800			
Chromium	(mg/L)	<0.005			
Cobalt	(mg/L)	<0.005			
Conductivity	(µS/cm)	25360			
Copper (dissolved)	(mg/L)	<0.005			
Dissolved Oxygen	(mg/L)	9.01			
Fluoride	(mg/L)	0.49			
Lead (dissolved)	(mg/L)	<0.01			
Magnesium	(mg/L)	512			
Manganese	(mg/L)	0.021			
Mercury	(mg/L)	<0.0003			
Nitrate	(mg/L)	0.03			
Nitrite	(mg/L)	0.0003			
Nitrogen (Total)	(mg/L)	0.75			
Oxidised Nitrogen	(mg/L)	0.03			
pH	pH Units	7.60			
Phosphorus (Total)	(mg/L)	0.012			
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001			
Potassium	(mg/L)	160			
Sodium	(mg/L)	4380			
Sulphate	(mg/L)	1200			
Sulfur	(mg/L)	389			
TKN	(mg/L)	0.72			
Total Organic Carbon	(mg/L)	11.3			
Total Petroleum Hydrocarbons	(mg/L)	<0.2			
Total Suspended Solids (TSS)	(mg/L)	4			
Zinc (dissolved)	(mg/L)	<0.01			

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Sample Period: 30-Oct-25 to 29-Oct-25 (Annual)



Anniversary Date: 30-Oct-24
Published Date: 17-Mar-25

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

Sample Frequency	Annual
Sampling Method	Grab Sample

Pollutant	Unit of Measure	<u>Annual Result</u> Sampling Date 23/01/25 Obtained Date 06/02/25	<u>Additional Result</u> Sampling Date Obtained Date	<u>Additional Result</u> Sampling Date Obtained Date	<u>Additional Result</u> Sampling Date Obtained Date	Comment
Alkalinity as CaCO3	(mg/L CaCO ₃)	34.0				Anions = sum of Chloride, Sulphate, Bromide and Fluoride
Aluminium (dissolved)	(mg/L)	0.05				
Ammonia	(mg/L)	0.07				
Anions	(mg/L)	341.7				
Arsenic	(mg/L)	<0.02				Cations = sum of Calcium, Sodium, Magnesium and Potassium
Barium	(mg/L)	0.088				
Bromide	(mg/L)	0.6				
BTEX	(mg/L)	<0.0013				
Cadmium	(mg/L)	<0.005				BTEX = sum of Benzene, Toluene, Ethyl Benzene and Xylene
Calcium (dissolved)	(mg/L)	23.4				
Cations	(mg/L)	194.6				
Chloride	(mg/L)	320.0				
Chromium	(mg/L)	<0.005				
Cobalt	(mg/L)	<0.005				
Conductivity	(µS/cm)	113.0				
Copper (dissolved)	(mg/L)	<0.005				
Dissolved Oxygen	(mg/L)	2.88				
Fluoride	(mg/L)	0.05				
Lead (dissolved)	(mg/L)	<0.01				
Magnesium	(mg/L)	36.2				
Manganese	(mg/L)	0.284				
Mercury	(mg/L)	<0.0003				
Nitrate	(mg/L)	<0.01				
Nitrite	(mg/L)	0.006				
Nitrogen (Total)	(mg/L)	1.67				
Oxidised Nitrogen	(mg/L)	<0.01				
pH	pH Units	6.6				
Phosphorus (Total)	(mg/L)	0.046				
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001				
Potassium	(mg/L)	12.00				
Sodium	(mg/L)	123.0				
Sulphate	(mg/L)	21.0				
Sulfur	(mg/L)	8.0				
TKN	(mg/L)	1.67				
Total Organic Carbon	(mg/L)	31.4				
Total Petroleum Hydrocarbons	(mg/L)	<0.2				
Total Suspended Solids (TSS)	(mg/L)	9.0				
Zinc (dissolved)	(mg/L)	<0.01				