

Brou Landfill Facility - 1st Quarter Result Summary - Oct 2023 to Jan 2024



Anniversary Date: 30-Oct-23
Published Date: 23-Feb-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 31-Jan-24 (1st Quarter)

Licence Point 1 - BR809 (Upper) Groundwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result Sample Date 31/01/24 Obtained Date 15/02/24	Comment
Alkalinity as CaCO ₃	(mg/L CaCO ₃)	120	
Calcium (Dissolved)	(mg/L)	12.1	
Chloride	(mg/L)	790	
Magnesium	(mg/L)	115	
Nitrogen (Ammonia)	(mg/L)	<0.01	
pH	(pH)	6.3	
Potassium	(mg/L)	7.3	
Sodium	(mg/L)	311	
Standing Water Level	(m)	24.05	
Sulfate	(mg/L)	10	
Total Dissolved Solids (TDS)	(mg/L)	1515	
Total Organic Carbon (TOC)	(mg/L)	8.7	

Licence Point 2 - BR810 (Lower) Groundwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result Sample Date 31/01/24 Obtained Date 15/02/24	Comment
Alkalinity as CaCO ₃	(mg/L CaCO ₃)	138	
Calcium (Dissolved)	(mg/L)	7.92	
Chloride	(mg/L)	950	
Magnesium	(mg/L)	84.5	
Nitrogen (Ammonia)	(mg/L)	0.01	
pH	(pH)	6.5	
Potassium	(mg/L)	1.1	
Sodium	(mg/L)	544	
Standing Water Level	(m)	0.75	
Sulfate	(mg/L)	140	
Total Dissolved Solids (TDS)	(mg/L)	2100	
Total Organic Carbon (TOC)	(mg/L)	8.5	

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Licence Point 3 - BR811 (Mid) Groundwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result		Comment
		Sample Date 31/01/24	Obtained Date 15/02/24	
Alkalinity as CaCO ₃	(mg/L CaCO ₃)	110		
Calcium (Dissolved)	(mg/L)	14.3		
Chloride	(mg/L)	1000		
Magnesium	(mg/L)	103		
Nitrogen (Ammonia)	(mg/L)	0.02		
pH	(pH)	6.4		
Potassium	(mg/L)	2.6		
Sodium	(mg/L)	532		
Standing Water Level	(m)	2.6		
Sulfate	(mg/L)	91		
Total Dissolved Solids (TDS)	(mg/L)	2070		
Total Organic Carbon (TOC)	(mg/L)	8.8		

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Licence Point 4 - BR807 Downstream Surfacewater Parameters

Sample Frequency	Weekly during any discharge
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Sample Event 1 Sampling Date Obtained Date	Sample Event 2 Sampling Date Obtained Date	Comment
Alkalinity as CaCO ₃	(mg/L)			Sediment pond overflow unable to be sampled due to insufficient flows 02/01/24
Aluminium	(mg/L)			
Ammonia	(mg/L)			
Arsenic	(mg/L)			
Barium	(mg/L)			
BTEX	(mg/L)			
Cadmium	(mg/L)			
Calcium	(mg/L)			
Chloride	(mg/L)			
Chromium	(mg/L)			
Cobalt	(mg/L)			
Conductivity	(µS/cm)			
Copper	(mg/L)			
Dissolved Oxygen	(mg/L)			
Fluoride	(mg/L)			
Lead	(mg/L)			
Magnesium	(mg/L)			
Manganese	(mg/L)			
Mercury	(mg/L)			
Nitrate	(mg/L)			
Nitrite	(mg/L)			
Nitrogen (Total)	(mg/L)			
Oxidised Nitrogen	(mg/L)			
pH	pH Units			
Phosphorus (Total)	(mg/L)			
Polycyclic Aromatic Hydrocarbons	(mg/L)			
Potassium	(mg/L)			
Sodium	(mg/L)			
Sulfate	(mg/L)			
Sulfur	(mg/L)			
Total Organic Carbon	(mg/L)			
Total Petroleum Hydrocarbons	(mg/L)			
Total Suspended Solids (TSS)	(mg/L)			
Zinc	(mg/L)			

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Licence Point 5 - BR808 Upstream Surfacewater Quarterly Parameters

Sample Frequency	Weekly during any discharge
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Sample Event 1 Sampling Date Obtained Date	Sample Event 2 Sampling Date Obtained Date	Comment
Alkalinity as CaCO ₃	(mg/L)			Sediment pond overflow unable to be sampled due to insufficient flows 02/01/24
Aluminium	(mg/L)			
Ammonia	(mg/L)			
Arsenic	(mg/L)			
Barium	(mg/L)			
BTEX	(mg/L)			
Cadmium	(mg/L)			
Chloride	(mg/L)			
Chromium	(mg/L)			
Cobalt	(mg/L)			
Conductivity	(µS/cm)			
Copper	(mg/L)			
Dissolved Oxygen	(mg/L)			
Fluoride	(mg/L)			
Lead	(mg/L)			
Magnesium	(mg/L)			
Manganese	(mg/L)			
Mercury	(mg/L)			
Nitrate	(mg/L)			
Nitrite	(mg/L)			
Nitrogen (Total)	(mg/L)			
Oxidised Nitrogen	(mg/L)			
pH	pH Units			
Phosphorus (Total)	(mg/L)			
Polycyclic Aromatic Hydrocarbons	(mg/L)			
Potassium	(mg/L)			
Sodium	(mg/L)			
Sulfate	(mg/L)			
Sulfur	(mg/L)			
Total Organic Carbon	(mg/L)			
Total Petroleum Hydrocarbons	(mg/L)			
Total Suspended Solids (TSS)	(mg/L)			
Zinc	(mg/L)			

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Licence Point 6 - BR801 Sediment Pond Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result	Additional Result	Additional Result	Comment
		Sample Date 02/01/24 Obtained Date 16/02/24	Sample Date 31/01/24 Obtained Date 14/02/24	Sample Date Obtained Date	
Nitrogen (Ammonia)	(mg/L)	5.4	1.02		
pH	pH Units	8.5	8.4		
Total Suspended Solids (TSS)	(mg/L)	39	17		