

Brou Landfill Facility - 3rd Quarter Result Summary - May 2022 to Jul 2022



Anniversary Date: 30-Oct-21
Published Date: 25-Jul-22

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-21 to 29-Oct-22
 Sample Period: 01-May-22 to 31-Jul-22 (3rd Quarter)

Licence Point 1 - BR809 (Upper) Groundwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result Sample Date 09/06/22 Obtained Date 22/06/22	Comment
Alkalinity as CaCO ₃	(mg/L CaCO ₃)	144	
Calcium (Dissolved)	(mg/L)	11.4	
Chloride	(mg/L)	590	
Magnesium	(mg/L)	94.6	
Nitrogen (Ammonia)	(mg/L)	<0.01	
pH	(pH)	7.5	
Potassium	(mg/L)	6.8	
Sodium	(mg/L)	288	
Standing Water Level	(m)	25.9	
Sulfate	(mg/L)	12.0	
Total Dissolved Solids (TDS)	(mg/L)	1223	
Total Organic Carbon (TOC)	(mg/L)	<0.2	

Licence Point 2 - BR810 (Lower) Groundwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result Sample Date 09/06/22 Obtained Date 22/06/22	Comment
Alkalinity as CaCO ₃	(mg/L CaCO ₃)	139	
Calcium (Dissolved)	(mg/L)	8.57	
Chloride	(mg/L)	840	
Magnesium	(mg/L)	93.6	
Nitrogen (Ammonia)	(mg/L)	0.02	
pH	(pH)	6.4	
Potassium	(mg/L)	1.4	
Sodium	(mg/L)	607	
Standing Water Level	(m)	1.3	
Sulfate	(mg/L)	130	
Total Dissolved Solids (TDS)	(mg/L)	1883	
Total Organic Carbon (TOC)	(mg/L)	1.6	

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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 09/06/22	Obtained Date 22/06/22	
Alkalinity as CaCO ₃	(mg/L CaCO ₃)	117		
Calcium (Dissolved)	(mg/L)	11.4		
Chloride	(mg/L)	930		
Magnesium	(mg/L)	109		
Nitrogen (Ammonia)	(mg/L)	<0.01		
pH	(pH)	6.4		
Potassium	(mg/L)	2.4		
Sodium	(mg/L)	600		
Standing Water Level	(m)	3.55		
Sulfate	(mg/L)	95		
Total Dissolved Solids (TDS)	(mg/L)	1973		
Total Organic Carbon (TOC)	(mg/L)	3.8		

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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)			No overflows reported May - July 2022
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	Sample Event 2 Sampling Date	Comment
Alkalinity as CaCO ₃	(mg/L)			No overflows reported May - July 2022
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 01/06/22 Obtained Date 14/06/22	Sample Date 14/07/22 Obtained Date 25/07/22	Sample Date Obtained Date	
Nitrogen (Ammonia)	(mg/L)	13.1	8.62		
pH	pH Units	7.6	8.3		
Total Suspended Solids (TSS)	(mg/L)	22	17		