

Brou Landfill Facility - 1st Quarter Result Summary - Oct 2020 to Feb 2021

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-20 to 29-Oct-21
 Sample Period: 30-Oct-20 to 28-Feb-21 (1st Quarter)



Anniversary Date: 30-Oct-20
 Published Date: 28-Apr-21

Licence Point 1 - BR809 Groundwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result Sample Date 26/11/20 Obtained Date 11/12/20	Comment
Alkalinity as CaCO ₃	(mg/L CaCO ₃)	111	
Calcium (Dissolved)	(mg/L)	10.2	
Chloride	(mg/L)	720	
Magnesium	(mg/L)	103	
Nitrogen (Ammonia)	(mg/L)	<0.01	
pH	(pH)	6.2	
Potassium	(mg/L)	7.8	
Sodium	(mg/L)	298	
Standing Water Level	(m)	25.9	
Sulfate	(mg/L)	10	
Total Dissolved Solids (TDS)	(mg/L)	1453	
Total Organic Carbon (TOC)	(mg/L)	1.0	

Licence Point 2 - BR810 Groundwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result Sample Date 26/11/20 Obtained Date 11/12/20	Comment
Alkalinity as CaCO ₃	(mg/L CaCO ₃)	135	
Calcium (Dissolved)	(mg/L)	8.8	
Chloride	(mg/L)	900	
Magnesium	(mg/L)	90.5	
Nitrogen (Ammonia)	(mg/L)	0.01	
pH	(pH)	6.4	
Potassium	(mg/L)	1.5	
Sodium	(mg/L)	543	
Standing Water Level	(m)	1.3	
Sulfate	(mg/L)	140	
Total Dissolved Solids (TDS)	(mg/L)	1907	
Total Organic Carbon (TOC)	(mg/L)	3.5	

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Licence Point 3 - BR811 Groundwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result	
		Sample Date 26/11/20	Obtained Date 11/12/20
Alkalinity as CaCO ₃	(mg/L CaCO ₃)	119	
Calcium (Dissolved)	(mg/L)	12.1	
Chloride	(mg/L)	960	
Magnesium	(mg/L)	96.6	
Nitrogen (Ammonia)	(mg/L)	0.01	
pH	(pH)	6.4	
Potassium	(mg/L)	2.4	
Sodium	(mg/L)	524	
Standing Water Level	(m)	3.55	
Sulfate	(mg/L)	110	
Total Dissolved Solids (TDS)	(mg/L)	1890	
Total Organic Carbon (TOC)	(mg/L)	2.8	

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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	Comment	Sample Event 2	Comment
		Sampling Date 05/01/21 Obtained Date 20/01/21		Sampling Date 06/01/21 Obtained Date 20/01/21	
Alkalinity as CaCO ₃	(mg/L)	51		59	
Aluminium	(mg/L)	1.26		0.279	
Ammonia	(mg/L)	0.02		0.02	
Arsenic	(mg/L)	0.0012		0.0009	
Barium	(mg/L)	0.0504		0.0435	
BTEX	(mg/L)	<0.0004		<0.0004	
Cadmium	(mg/L)	<0.0001		<0.0001	
Chloride	(mg/L)	190		210	
Chromium	(mg/L)	0.0025		0.0015	
Cobalt	(mg/L)	0.0011		0.0008	
Conductivity	(µS/cm)	775		842	
Copper	(mg/L)	0.0079		0.0071	
Dissolved Oxygen	(mg/L)	5.89		7.57	
Fluoride	(mg/L)	0.07		0.08	
Lead	(mg/L)	0.0018		0.0006	
Magnesium	(mg/L)	26.6		29.4	
Manganese	(mg/L)	0.0394		0.0421	
Mercury	(mg/L)	<0.0003		<0.0003	
Nitrate	(mg/L)	<0.01		<0.01	
Nitrite	(mg/L)	0.008		0.007	
Nitrogen (Total)	(mg/L)	1.92		1.84	
Oxidised Nitrogen	(mg/L)	0.01		0.01	
pH	pH Units	7.1		7.2	
Phosphorus (Total)	(mg/L)	0.072		0.062	
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001		<0.0001	
Potassium	(mg/L)	10.2		10.8	
Sodium	(mg/L)	81.7		89.2	
Sulfate	(mg/L)	15		13	
Sulfur	(mg/L)	6.08		8.5	
Total Organic Carbon	(mg/L)	37.8		37.9	
Total Petroleum Hydrocarbons	(mg/L)	<0.2		<0.2	
Total Suspended Solids (TSS)	(mg/L)	120		12	
Zinc	(mg/L)	0.006		0.004	

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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 05/01/21	Comment	Sample Event 2 Sampling Date 06/01/21	Comment
Alkalinity as CaCO ₃	(mg/L)				
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)				

No flow - Insufficient volume for sample and analysis

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Licence Point 6 - BR801 Stormwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result	
		Sample Date 26/11/20	Obtained Date 09/12/20
Nitrogen (Ammonia)	(mg/L CaCO ₃)	0.2	
pH	pH Units	8.3	
Total Suspended Solids (TSS)	(mg/L)	7	