

Brou Landfill Facility - 2nd Quarter Result Summary - Mar 2021 to May 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: 01-Mar-21 to 31-May-21 (2nd 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 25/02/21 Obtained Date 12/03/21	Comment
Alkalinity as CaCO ₃	(mg/L CaCO ₃)	113	
Calcium (Dissolved)	(mg/L)	8.66	
Chloride	(mg/L)	750	
Magnesium	(mg/L)	108	
Nitrogen (Ammonia)	(mg/L)	<0.01	
pH	(pH)	6.4	
Potassium	(mg/L)	6.5	
Sodium	(mg/L)	271	
Standing Water Level	(m)	26.0	
Sulfate	(mg/L)	9.2	
Total Dissolved Solids (TDS)	(mg/L)	1380	
Total Organic Carbon (TOC)	(mg/L)	3.7	

Licence Point 2 - BR810 Groundwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result Sample Date 25/02/21 Obtained Date 12/03/21	Comment
Alkalinity as CaCO ₃	(mg/L CaCO ₃)	137	
Calcium (Dissolved)	(mg/L)	8.45	
Chloride	(mg/L)	980	
Magnesium	(mg/L)	81.3	
Nitrogen (Ammonia)	(mg/L)	0.01	
pH	(pH)	6.5	
Potassium	(mg/L)	1.3	
Sodium	(mg/L)	533	
Standing Water Level	(m)	1.4	
Sulfate	(mg/L)	140	
Total Dissolved Solids (TDS)	(mg/L)	1884	
Total Organic Carbon (TOC)	(mg/L)	6.2	

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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 25/02/21	Obtained Date 12/03/21
Alkalinity as CaCO ₃	(mg/L CaCO ₃)	119	
Calcium (Dissolved)	(mg/L)	9.01	
Chloride	(mg/L)	1000	
Magnesium	(mg/L)	89.5	
Nitrogen (Ammonia)	(mg/L)	0.01	
pH	(pH)	6.4	
Potassium	(mg/L)	2	
Sodium	(mg/L)	530	
Standing Water Level	(m)	3.6	
Sulfate	(mg/L)	110	
Total Dissolved Solids (TDS)	(mg/L)	1980	
Total Organic Carbon (TOC)	(mg/L)	5.2	

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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 18/03/21 Obtained Date 10/04/21		Sampling Date 24/03/21 Obtained Date 10/04/21	
Alkalinity as CaCO ₃	(mg/L)	73		49	
Aluminium	(mg/L)	0.33		1.40	
Ammonia	(mg/L)	0.01		0.03	
Arsenic	(mg/L)	<0.02		<0.02	
Barium	(mg/L)	0.038		0.040	
Bromide	(mg/L)	0.23		<0.10	
BTEX	(mg/L)	<0.0004		<0.0004	
Cadmium	(mg/L)	<0.005		<0.005	
Calcium	(mg/L)	24.2		21.3	
Chloride	(mg/L)	72		57	
Chromium	(mg/L)	<0.005		<0.005	
Cobalt	(mg/L)	<0.005		<0.005	
Conductivity	(µS/cm)	426		368	
Copper	(mg/L)	0.016		0.020	
Dissolved Oxygen	(mg/L)	9.76		8.12	
Fluoride	(mg/L)	0.05		<0.05	
Lead	(mg/L)	<0.01		<0.01	
Magnesium	(mg/L)	9.40		7.34	
Manganese	(mg/L)	0.020		0.019	
Mercury	(mg/L)	<0.0003		<0.0003	
Nitrate	(mg/L)	0.006		0.41	
Nitrite	(mg/L)	<0.01		0.321	
Nitrogen (Total)	(mg/L)	1.37		2.97	
Oxidised Nitrogen	(mg/L)	0.01		0.73	
pH	pH Units	7.3		7.1	
Phosphorus (Total)	(mg/L)	0.059		0.190	
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001		<0.0001	
Potassium	(mg/L)	13.4		16.4	
Sodium	(mg/L)	41.7		34.6	
Sulphate	(mg/L)	15		25	
Sulfur	(mg/L)	6.12		10.2	
TKN	(mg/L)	1.36		2.24	
Total Organic Carbon	(mg/L)	28.2		45.1	
Total Petroleum Hydrocarbons	(mg/L)	<0.02		<0.2	
Total Suspended Solids (TSS)	(mg/L)	16		67	
Zinc	(mg/L)	0.01		0.03	

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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 18/03/21 Obtained Date 10/04/21	Comment	Sample Event 2 Sampling Date 24/03/21	Comment
Alkalinity as CaCO ₃	(mg/L)	<5			
Aluminium	(mg/L)	8.04			
Ammonia	(mg/L)	0.02			
Arsenic	(mg/L)	<0.02			
Barium	(mg/L)	0.068			
Bromide	(mg/L)	<0.1			
BTEX	(mg/L)	<0.0004			
Cadmium	(mg/L)	<0.005			
Calcium	(mg/L)	2.11			
Chloride	(mg/L)	54			
Chromium	(mg/L)	0.015			
Cobalt	(mg/L)	<0.005			
Conductivity	(µS/cm)	22.4			
Copper	(mg/L)	0.005			
Dissolved Oxygen	(mg/L)	8.69			
Fluoride	(mg/L)	<0.05			
Lead	(mg/L)	0.01			
Magnesium	(mg/L)	5.39			
Manganese	(mg/L)	0.134			
Mercury	(mg/L)	<0.0003			
Nitrate	(mg/L)	<0.01			
Nitrite	(mg/L)	0.007			
Nitrogen (Total)	(mg/L)	0.73			
Oxidised Nitrogen	(mg/L)	0.01			
pH	pH Units	4.7			
Phosphorus (Total)	(mg/L)	0.086			
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001			
Potassium	(mg/L)	4.3			
Sodium	(mg/L)	24.4			
Sulphate	(mg/L)	4.3			
Sulphur	(mg/L)	1.89			
TKN	(mg/L)	0.72			
Total Organic Carbon	(mg/L)	37.8			
Total Petroleum Hydrocarbons	(mg/L)	<0.2			
Total Suspended Solids (TSS)	(mg/L)	550			
Zinc	(mg/L)	0.02			

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 25/02/21	Obtained Date 08/03/21
Nitrogen (Ammonia)	(mg/L CaCO ₃)	0.9	
pH	pH Units	7.8	
Total Suspended Solids (TSS)	(mg/L)	13	