

Brou Landfill Facility - Annual Result Summary - Oct 2023 to Oct 2024



Anniversary Date: 30-Oct-23
Published Date: 14-Oct-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 29-Oct-24 (Annual)

Licence Point 1 - BR809 (Upper) Groundwater Annual Parameters

| | |
|------------------|-------------|
| Sample Frequency | Annual |
| Sampling Method | Grab Sample |

| Pollutant | Unit of Measure | Annual Result | Additional Result | Comment |
|----------------------------------|-----------------|--|------------------------------|---------|
| | | Sample Date 23/04/24 Obtained Date 07/05/24 | Sample Date Obtained Date | |
| Aluminium (dissolved) | (mg/L) | 0.01 | | |
| Arsenic | (mg/L) | <0.02 | | |
| Barium | (mg/L) | 0.523 | | |
| 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) | <0.005 | | |
| Copper (dissolved) | (mg/L) | <0.005 | | |
| Ethyl benzene | (mg/L) | <0.0003 | | |
| Fluoride | (mg/L) | 0.21 | | |
| Lead (dissolved) | (mg/L) | <0.01 | | |
| Manganese | (mg/L) | 0.092 | | |
| 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) | <0.2 | | |
| 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)



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 Published Date: 14-Oct-24

Licence Point 2 - BR810 (Lower) Groundwater Annual Parameters

| | |
|------------------|-------------|
| Sample Frequency | Annual |
| Sampling Method | Grab Sample |

| Pollutant | Unit of Measure | Annual Result Sample Date 23/04/24 Obtained Date 07/05/24 | Additional Result Sample Date Obtained Date | Comment |
|----------------------------------|-----------------|---|---|---------|
| Aluminium (dissolved) | (mg/L) | <0.01 | | |
| Arsenic | (mg/L) | <0.02 | | |
| Barium | (mg/L) | 0.039 | | |
| 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) | 0.006 | | |
| Copper (dissolved) | (mg/L) | <0.005 | | |
| Ethyl benzene | (mg/L) | <0.0003 | | |
| Fluoride | (mg/L) | 0.21 | | |
| Lead (dissolved) | (mg/L) | <0.01 | | |
| Manganese | (mg/L) | 0.249 | | |
| Mercury | (mg/L) | <0.0003 | | |
| Nitrate | (mg/L) | 0.01 | | |
| Nitrite | (mg/L) | <0.001 | | |
| Organochlorine pesticides | (mg/L) | 0.00002 | | |
| Organophosphate pesticides | (mg/L) | <0.001 | | |
| Polycyclic Aromatic Hydrocarbons | (mg/L) | <0.0001 | | |
| Toluene | (mg/L) | <0.0003 | | |
| Total Petroleum Hydrocarbons | (mg/L) | <0.2 | | |
| Total phenolics | (mg/L) | <0.05 | | |
| Xylene | (mg/L) | <0.0004 | | |
| Zinc (dissolved) | (mg/L) | 0.03 | | |

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Licence Point 3 - BR811 (Mid) Groundwater Annual Parameters

| | |
|------------------|-------------|
| Sample Frequency | Annual |
| Sampling Method | Grab Sample |

| Pollutant | Unit of Measure | Annual Result | Additional Result | Comment |
|----------------------------------|-----------------|--|------------------------------|---------|
| | | Sample Date 23/04/24 Obtained Date 07/05/24 | Sample Date Obtained Date | |
| Aluminium (dissolved) | (mg/L) | 0.01 | | |
| Arsenic | (mg/L) | <0.02 | | |
| Barium | (mg/L) | 0.104 | | |
| 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) | 0.008 | | |
| Copper (dissolved) | (mg/L) | <0.005 | | |
| Ethyl benzene | (mg/L) | <0.00003 | | |
| Fluoride | (mg/L) | 0.21 | | |
| Lead (dissolved) | (mg/L) | <0.01 | | |
| Manganese | (mg/L) | 0.438 | | |
| 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) | <0.2 | | |
| Total phenolics | (mg/L) | <0.05 | | |
| Xylene | (mg/L) | <0.0004 | | |
| Zinc (dissolved) | (mg/L) | 0.04 | | |

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30-Oct-23

Published Date:

14-Oct-24

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

| | |
|------------------|-------------|
| Sample Frequency | Annual |
| Sampling Method | Grab Sample |

| Pollutant | Unit of Measure | Annual Result | Additional Result | Additional Result | Additional Result | Comment |
|----------------------------------|---------------------------|--|--|--|--|---|
| | | Sampling Date 13/03/24 Obtained Date 28/03/24 | Sampling Date 23/04/24 Obtained Date 07/05/24 | Sampling Date 30/07/24 Obtained Date 18/08/24 | Sampling Date 26/09/24 Obtained Date 13/10/24 | |
| Alkalinity as CaCO3 | (mg/L CaCO ₃) | 714 | 591 | 622 | 375 | Anions = sum of Chloride, Sulphate, Bromide and Fluoride |
| Aluminium (dissolved) | (mg/L) | 0.14 | 0.05 | 0.1 | 0.09 | |
| Ammonia | (mg/L) | 49.8 | 58.3 | 92.4 | 75.5 | Cations = sum of Calcium, Sodium, Magnesium and Potassium |
| Anions | (mg/L) | 712.74 | 612.3 | 601.11 | 773.8 | |
| Arsenic | (mg/L) | 0.02 | 0.02 | 0.02 | 0.02 | BTEX = sum of Benzene, Toluene, Ethyl Benzene and Xylene. Increased LOR for BTEX sample 30/07/24 due to analysis issues. |
| Barium (dissolved) | (mg/L) | 0.047 | 0.052 | 0.043 | 0.049 | |
| Bromide | (mg/L) | 2.5 | 2.1 | 1.9 | 2.6 | |
| BTEX | (mg/L) | <0.0013 | <0.0013 | <0.0036 | <0.0013 | |
| Cadmium | (mg/L) | <0.005 | <0.005 | <0.005 | <0.005 | |
| Calcium (dissolved) | (mg/L) | 54.0 | 59.5 | 47.8 | 55 | |
| Cations | (mg/L) | 813.3 | 793.1 | 661.6 | 823 | |
| Chloride | (mg/L) | 690 | 590 | 570 | 740 | |
| Chromium | (mg/L) | 0.107 | 0.098 | 0.09 | 0.11 | |
| Cobalt | (mg/L) | 0.006 | 0.007 | 0.006 | 0.008 | |
| Conductivity | (µS/cm) | 3493 | 3408 | 3200 | 3196 | |
| Copper (dissolved) | (mg/L) | 0.014 | 0.131 | 0.022 | 0.056 | |
| Dissolved Oxygen | (mg/L) | 1.20 | 0.82 | 0.72 | 1.7 | |
| Fluoride | (mg/L) | 0.24 | 0.2 | 0.21 | 0.19 | |
| Lead (dissolved) | (mg/L) | 0.01 | 0.01 | <0.01 | <0.01 | |
| Magnesium | (mg/L) | 28.3 | 29.6 | 24.8 | 30 | |
| Manganese | (mg/L) | 0.192 | 0.214 | 0.137 | 0.228 | |
| Mercury | (mg/L) | <0.0003 | <0.0003 | <0.0003 | <0.0003 | |
| Nitrate | (mg/L) | <0.01 | 0.53 | 6.94 | 5.01 | |
| Nitrite | (mg/L) | 0.067 | 0.878 | 0.387 | 0.848 | |
| Nitrogen (Total) | (mg/L) | 71.6 | 82.5 | 131 | 98.6 | |
| Oxidised Nitrogen | (mg/L) | 0.07 | 1.41 | 7.33 | 5.86 | |
| pH | pH Units | 8.4 | 7.7 | 7.9 | 7.5 | |
| Phosphorus (Total) | (mg/L) | 3.65 | 2.78 | 1.7 | 1.7 | |
| Polycyclic Aromatic Hydrocarbons | (mg/L) | <0.0001 | <0.0001 | <0.0001 | <0.0001 | |
| Potassium | (mg/L) | 247.0 | 248 | 207 | 249 | |
| Sodium | (mg/L) | 484 | 456 | 382 | 489 | |
| Sulphate | (mg/L) | 20 | 20 | 29 | 31.0 | |
| Sulfur | (mg/L) | 14 | 14 | 19.6 | 20.6 | |
| TKN | (mg/L) | 71.5 | 81.1 | 124 | 92.7 | |
| Total Organic Carbon | (mg/L) | 211.8 | 198.5 | 160 | 160 | |
| Total Petroleum Hydrocarbons | (mg/L) | 0.2 | 0.3 | <0.2 | <0.2 | |
| Total Suspended Solids (TSS) | (mg/L) | 100 | 23 | 10 | 2 | |
| Zinc (dissolved) | (mg/L) | 0.12 | 0.64 | 0.19 | 0.210 | |

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 Sample Period: 30-Oct-23 to 29-Oct-24 (Annual)



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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 13/03/24 Obtained Date 03/04/24 | Additional Result Sampling Date Obtained Date | Additional Result Sampling Date Obtained Date | Comment |
|----------------------------------|---------------------------|---|---|---|---|
| Alkalinity as CaCO3 | (mg/L CaCO ₃) | 90 | | | Anions = sum of Chloride, Sulphate, Bromide and Fluoride |
| Aluminium (dissolved) | (mg/L) | 0.01 | | | |
| Ammonia | (mg/L) | 0.110 | | | |
| Anions | (mg/L) | 20061 | | | Cations = sum of Calcium, Sodium, Magnesium and Potassium |
| Arsenic | (mg/L) | <0.02 | | | BTEX = sum of Benzene, Toluene, Ethyl Benzene and Xylene |
| Barium | (mg/L) | 0.019 | | | |
| Bromide | (mg/L) | 61 | | | |
| BTEX | (mg/L) | <0.0013 | | | |
| Cadmium | (mg/L) | <0.005 | | | |
| Calcium (dissolved) | (mg/L) | 366 | | | |
| Cations | (mg/L) | 11509 | | | |
| Chloride | (mg/L) | 18000 | | | |
| Chromium | (mg/L) | <0.005 | | | |
| Cobalt | (mg/L) | <0.005 | | | |
| Conductivity | (µS/cm) | 47690 | | | |
| Copper (dissolved) | (mg/L) | <0.005 | | | |
| Dissolved Oxygen | (mg/L) | 4.24 | | | |
| Fluoride | (mg/L) | <50 | | | |
| Lead (dissolved) | (mg/L) | <0.01 | | | |
| Magnesium | (mg/L) | 1120 | | | |
| Manganese | (mg/L) | 0.025 | | | |
| Mercury | (mg/L) | <0.0003 | | | |
| Nitrate | (mg/L) | <0.01 | | | |
| Nitrite | (mg/L) | <0.001 | | | |
| Nitrogen (Total) | (mg/L) | 0.95 | | | |
| Oxidised Nitrogen | (mg/L) | <0.01 | | | |
| pH | pH Units | 7.6 | | | |
| Phosphorus (Total) | (mg/L) | 0.048 | | | |
| Polycyclic Aromatic Hydrocarbons | (mg/L) | <0.0001 | | | |
| Potassium | (mg/L) | 353 | | | |
| Sodium | (mg/L) | 9670 | | | |
| Sulphate | (mg/L) | 2000 | | | |
| Sulfur | (mg/L) | 849 | | | |
| TKN | (mg/L) | 0.95 | | | |
| Total Organic Carbon | (mg/L) | 9.5 | | | |
| Total Petroleum Hydrocarbons | (mg/L) | <0.2 | | | |
| Total Suspended Solids (TSS) | (mg/L) | 33 | | | |
| Zinc (dissolved) | (mg/L) | <0.01 | | | |

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 Sample Period: 30-Oct-23 to 29-Oct-24 (Annual)



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

| Sample Frequency | Annual |
|------------------|-------------|
| Sampling Method | Grab Sample |

| Pollutant | Unit of Measure | Annual Result Sampling Date 02/01/24 Obtained Date 13/01/24 | Additional Result Sampling Date 13/03/24 Obtained Date 03/04/24 | Additional Result Sampling Date 13/05/24 Obtained Date 23/05/24 | Additional Result Sampling Date 11/06/24 Obtained Date 24/06/24 | Comment |
|----------------------------------|---------------------------|---|---|---|---|---|
| Alkalinity as CaCO3 | (mg/L CaCO ₃) | 29.0 | 61.0 | 28.0 | 36.0 | Anions = sum of Chloride, Sulphate, Bromide and Fluoride |
| Aluminium (dissolved) | (mg/L) | 0.2 | 0.02 | 0.42 | 0.08 | |
| Ammonia | (mg/L) | 0.04 | 0.02 | 0.59 | 0.63 | |
| Anions | (mg/L) | 129.9 | 243.7 | 102.2 | 272.8 | |
| Arsenic | (mg/L) | <0.02 | <0.02 | <0.02 | <0.02 | Cations = sum of Calcium, Sodium, Magnesium and Potassium |
| Barium | (mg/L) | 0.044 | 0.057 | 0.03 | 0.051 | |
| Bromide | (mg/L) | 0.4 | 0.6 | 0.2 | 0.8 | |
| BTEX | (mg/L) | <0.0013 | <0.0013 | <0.0013 | <0.0013 | |
| Cadmium | (mg/L) | <0.005 | <0.005 | <0.005 | 0.005 | BTEX = sum of Benzene, Toluene, Ethyl Benzene and Xylene |
| Calcium (dissolved) | (mg/L) | 12.6 | 18.5 | 12.5 | 21.5 | |
| Cations | (mg/L) | 92.2 | 158.7 | 81.8 | 157.7 | |
| Chloride | (mg/L) | 120.0 | 230.0 | 91.0 | 250.0 | |
| Chromium | (mg/L) | <0.005 | <0.005 | <0.005 | <0.005 | |
| Cobalt | (mg/L) | <0.005 | <0.005 | <0.005 | <0.005 | |
| Conductivity | (µS/cm) | 499.0 | 865.0 | 435.0 | 908.0 | |
| Copper (dissolved) | (mg/L) | <0.005 | <0.005 | 0.005 | <0.005 | |
| Dissolved Oxygen | (mg/L) | 5.3 | 6.05 | 4.96 | 7.98 | |
| Fluoride | (mg/L) | 0.05 | 0.12 | <0.05 | <0.05 | |
| Lead (dissolved) | (mg/L) | <0.01 | <0.01 | 0.01 | <0.01 | |
| Magnesium | (mg/L) | 13.8 | 25.6 | 11.3 | 29.2 | |
| Manganese | (mg/L) | 0.114 | 0.206 | 0.018 | 0.04 | |
| Mercury | (mg/L) | <0.0003 | <0.0003 | <0.0003 | <0.0003 | |
| Nitrate | (mg/L) | 0.05 | <0.01 | 0.12 | 0.13 | |
| Nitrite | (mg/L) | 0.011 | 0.004 | 0.025 | 0.017 | |
| Nitrogen (Total) | (mg/L) | 2.17 | 1.58 | 2.28 | 2.53 | |
| Oxidised Nitrogen | (mg/L) | 0.06 | 0.01 | 0.15 | 0.15 | |
| pH | pH Units | 6.9 | 7.10 | 6.8 | 6.8 | |
| Phosphorus (Total) | (mg/L) | 0.08 | 0.061 | 0.046 | 0.067 | |
| Polycyclic Aromatic Hydrocarbons | (mg/L) | <0.0001 | <0.0001 | <0.0001 | <0.0001 | |
| Potassium | (mg/L) | 8.40 | 11.60 | 7.30 | 8.80 | |
| Sodium | (mg/L) | 57.0 | 103.0 | 51.0 | 98.0 | |
| Sulphate | (mg/L) | 9.5 | 13.0 | 11.0 | 22.0 | |
| Sulfur | (mg/L) | 4.0 | 5.0 | 5.0 | 8.0 | |
| TKN | (mg/L) | 2.11 | 1.57 | 2.13 | 2.38 | |
| Total Organic Carbon | (mg/L) | 43.7 | 31.5 | 41.1 | 25.9 | |
| Total Petroleum Hydrocarbons | (mg/L) | <0.2 | <0.2 | <0.2 | <0.2 | |
| Total Suspended Solids (TSS) | (mg/L) | 22.0 | 65.0 | 6.0 | 28.0 | |
| Zinc (dissolved) | (mg/L) | <0.01 | <0.01 | 0.01 | <0.01 | |