

Dunmore Quarry

Environmental Monitoring Report

March 2022

Date Published: April 2022



This monitoring report is to satisfy the requirements of Section 66 (6) of the Protection of the Environment and Operations Act 1997, to make available, within 14 days of request, any monitoring data that relates to pollution under an Environment Protection Licence.

The monitoring of pollutants provided in this report is undertaken as per the requirements of Environment Protection Licence 77 (EPL 77 – Boral Dunmore Quarry)

This report provides environmental monitoring data for Dunmore Quarry for the period December 2017 to Februrary 2022.

|  |  |
| --- | --- |
| **Dunmore Quarry Information** | |
| Premise Details | Boral – Dunmore Quarry |
| Address | Princes Highway, Dunmore NSW, 2529 |
| Licensee | Boral Resources (NSW) PTY LTD |
| EPL No | 77 |
| EPL Location | <https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=77&id=77&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued> |

Monitoring data in this report relates to the monitoring undertaken in the reporting period for the following environmental pollutants:

* Deposited Dust
* Dust PM10
* Water Quality
* Blasting

**Air Quality**

Air Quality Monitoring is conducted as per condition M2.2 of EPL 77. The air quality results for the reporting period are tabled below.

**Deposited Dust**

Deposited Dust (g/m2/month) results for the reporting period:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sample Period: | February 2022 | |  |  |  |
| Date received: | 28/03/2022 |  |  |  |  |
| Licensee: | Dunmore Quarry | |  |  |  |
| Licensee Address: | Princes Hwy, Dunmore NSW 2529 | | | |  |
| EPL No: | 77 |  | |  |  |
|  |  |  |  |  |  |
| **Qualifications related to Dust**  Air Emissions Monitoring - Dust Deposition Gauge | |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Location** | **Monitoring Frequency** | **Pollutant** | **Measurement** | **Unit** | **Comments** |
| Monitoring Point 1 (Site 1A) | Monthly | Insoluble Solids | 2.50 | g/m²/month |  |
| Ash | 0.70 | g/m²/month |
| Soluble Matter | 0.47 | g/m²/month |
| Total Solids | 2.96 | g/m²/month |
| Monitoring Point 2 (Site 2A) | Monthly | Insoluble Solids | 1.69 | g/m²/month |  |
| Ash | 0.60 | g/m²/month |
| Soluble Matter | 0.02 | g/m²/month |
| Total Solids | 1.70 | g/m²/month |
| Monitoring Point 3 (Site DD2) | Monthly | Insoluble Solids | 1.19 | g/m²/month |  |
| Ash | 0.62 | g/m²/month |
| Soluble Matter | 0.14 | g/m²/month |
| Total Solids | 1.49 | g/m²/month |
| Monitoring Point 4 (Site DD10) | Monthly | Insoluble Solids | 1.42 | g/m²/month |  |
| Ash | 0.17 | g/m²/month |
| Soluble Matter | 0.04 | g/m²/month |
| Total Solids | 1.46 | g/m²/month |

**Historical Data**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Location** | **Date Received** | **Pollutant** | **Measurement** | **Unit** | **Comments** |
| **January 2022** | | | | | |
| Monitoring Point 1 (Site 1A) | 23/02/2022 | Insoluble Solids | ND | g/m²/month | Glass bottle broken in transit, no data available. |
| Ash | ND | g/m²/month |
| Soluble Matter | ND | g/m²/month |
| Total Solids | ND | g/m²/month |
| Monitoring Point 2 (Site 2A) | 23/02/2022 | Insoluble Solids | 2.12 | g/m²/month |  |
| Ash | 1.41 | g/m²/month |
| Soluble Matter | 0.76 | g/m²/month |
| Total Solids | 2.87 | g/m²/month |
| Monitoring Point 3 (Site DD2) | 23/02/2022 | Insoluble Solids | 1.41 | g/m²/month |  |
| Ash | 0.95 | g/m²/month |
| Soluble Matter | 1.09 | g/m²/month |
| Total Solids | 2.50 | g/m²/month |
| Monitoring Point 4 (Site DD10) | 23/02/2022 | Insoluble Solids | 0.42 | g/m²/month |  |
| Ash | 0.28 | g/m²/month |
| Soluble Matter | 0.07 | g/m²/month |
| Total Solids | 0.49 | g/m²/month |
| **December 2021** | | | | | |
| Monitoring Point 1 (Site 1A) | 08/02/22 | Insoluble Solids | 3.71 | g/m²/month |  |
| Ash | 1.44 | g/m²/month |
| Soluble Matter | 4.11 | g/m²/month |
| Total Solids | 7.82 | g/m²/month |
| Monitoring Point 2 (Site 2A) | 08/02/22 | Insoluble Solids | 3.42 | g/m²/month |  |
| Ash | 0.90 | g/m²/month |
| Soluble Matter | 1.44 | g/m²/month |
| Total Solids | 4.86 | g/m²/month |
| Monitoring Point 3 (Site DD2) | 08/02/22 | Insoluble Solids | 2.26 | g/m²/month |  |
| Ash | 1.03 | g/m²/month |
| Soluble Matter | 6.28 | g/m²/month |
| Total Solids | 8.54 | g/m²/month |
| Monitoring Point 4 (Site DD10) | 08/02/22 | Insoluble Solids | 2.47 | g/m²/month |  |
| Ash | 0.89 | g/m²/month |
| Soluble Matter | 3.12 | g/m²/month |
| Total Solids | 5.59 | g/m²/month |
| **November 2021** | | | | | |
| Monitoring Point 1 (Site 1A) | 23/12/21 | Insoluble Solids | 1.41 | g/m²/month |  |
| Ash | 0.90 | g/m²/month |
| Soluble Matter | 0.29 | g/m²/month |
| Total Solids | 1.70 | g/m²/month |
| Monitoring Point 2 (Site 2A) | 23/12/21 | Insoluble Solids | 1.18 | g/m²/month |  |
| Ash | 0.82 | g/m²/month |
| Soluble Matter | 0.26 | g/m²/month |
| Total Solids | 1.44 | g/m²/month |
| Monitoring Point 3 (Site DD2) | 23/12/21 | Insoluble Solids | 0.92 | g/m²/month |  |
| Ash | 0.55 | g/m²/month |
| Soluble Matter | 1.15 | g/m²/month |
| Total Solids | 2.06 | g/m²/month |
| Monitoring Point 4 (Site DD10) | 23/12/21 | Insoluble Solids | 1.36 | g/m²/month |  |
| Ash | 0.80 | g/m²/month |
| Soluble Matter | 0.42 | g/m²/month |
| Total Solids | 1.79 | g/m²/month |
| **October 2021** | | | | | |
| Monitoring Point 1 (Site 1A) | 30/11/21 | Insoluble Solids | 1.55 | g/m²/month |  |
| Ash | 1.04 | g/m²/month |
| Soluble Matter | 1.93 | g/m²/month |
| Total Solids | 3.47 | g/m²/month |
| Monitoring Point 2 (Site 2A) | 30/11/21 | Insoluble Solids | 3.29 | g/m²/month |  |
| Ash | 0.84 | g/m²/month |
| Soluble Matter | 2.70 | g/m²/month |
| Total Solids | 5.99 | g/m²/month |
| Monitoring Point 3 (Site DD2) | 30/11/21 | Insoluble Solids | 1.69 | g/m²/month |  |
| Ash | 1.09 | g/m²/month |
| Soluble Matter | 1.98 | g/m²/month |
| Total Solids | 3.66 | g/m²/month |
| Monitoring Point 4 (Site DD10) | 30/11/21 | Insoluble Solids | 3.87 | g/m²/month |  |
| Ash | 3.29 | g/m²/month |
| Soluble Matter | 5.00 | g/m²/month |
| Total Solids | 8.86 | g/m²/month |
| **September 2021** | | | | | |
| Monitoring Point 1 (Site 1A) | 10/11/21 | Insoluble Solids | ND | g/m²/month | Glass bottle broken, no data available. |
| Ash | ND | g/m²/month |
| Soluble Matter | ND | g/m²/month |
| Total Solids | ND | g/m²/month |
| Monitoring Point 2 (Site 2A) | 10/11/21 | Insoluble Solids | 1.32 | g/m²/month |  |
| Ash | 0.98 | g/m²/month |
| Soluble Matter | 2.13 | g/m²/month |
| Total Solids | 3.45 | g/m²/month |
| Monitoring Point 3 (Site DD2) | 10/11/21 | Insoluble Solids | 1.13 | g/m²/month |  |
| Ash | 0.92 | g/m²/month |
| Soluble Matter | 1.72 | g/m²/month |
| Total Solids | 2.85 | g/m²/month |
| Monitoring Point 4 (Site DD10) | 10/11/21 | Insoluble Solids | 1,71 | g/m²/month |  |
| Ash | 1.45 | g/m²/month |
| Soluble Matter | 1.82 | g/m²/month |
| Total Solids | 3.53 | g/m²/month |
| **August 2021** | | | | | |
| Monitoring Point 1 (Site 1A) | 30/09/21 | Insoluble Solids | 0.77 | g/m²/month |  |
| Ash | 0.75 | g/m²/month |  |
| Soluble Matter | 0.19 | g/m²/month |  |
| Total Solids | 0.96 | g/m²/month |  |
| Monitoring Point 2 (Site 2A) | 30/09/21 | Insoluble Solids | 1.38 | g/m²/month |  |
| Ash | 0.94 | g/m²/month |  |
| Soluble Matter | 1.08 | g/m²/month |  |
| Total Solids | 2.45 | g/m²/month |  |
| Monitoring Point 3 (Site DD2) | 30/09/21 | Insoluble Solids | 1.20 | g/m²/month |  |
| Ash | 0.84 | g/m²/month |  |
| Soluble Matter | 0.72 | g/m²/month |  |
| Total Solids | 1.91 | g/m²/month |  |
| Monitoring Point 4 (Site DD10) | 30/09/21 | Insoluble Solids | 1.16 | g/m²/month |  |
| Ash | 0.70 | g/m²/month |  |
| Soluble Matter | 0.84 | g/m²/month |  |
| Total Solids | 1.99 | g/m²/month |  |
| **July 2021** | | | | | |
| Monitoring Point 1 (Site 1A) | 13/09/21 | Insoluble Solids | 1.73 | g/m²/month |  |
| Ash | 0.34 | g/m²/month |  |
| Soluble Matter | 0.10 | g/m²/month |  |
| Total Solids | 1.83 | g/m²/month |  |
| Monitoring Point 2 (Site 2A) | 13/09/21 | Insoluble Solids | 2.61 | g/m²/month |  |
| Ash | 0.64 | g/m²/month |  |
| Soluble Matter | 0.32 | g/m²/month |  |
| Total Solids | 2.92 | g/m²/month |  |
| Monitoring Point 3 (Site DD2) | 13/09/21 | Insoluble Solids | 1.44 | g/m²/month |  |
| Ash | 0.50 | g/m²/month |  |
| Soluble Matter | 0.27 | g/m²/month |  |
| Total Solids | 1.70 | g/m²/month |  |
| Monitoring Point 4 (Site DD10) | 13/09/21 | Insoluble Solids | 2.33 | g/m²/month |  |
| Ash | 0.77 | g/m²/month |  |
| Soluble Matter | 0.08 | g/m²/month |  |
| Total Solids | 2.40 | g/m²/month |  |
| **June 2021** | | | | | |
| Monitoring Point 1 (Site 1A) | 06/08/21 | Insoluble Solids | 1.13 | g/m²/month |  |
| Ash | 0.58 | g/m²/month |  |
| Soluble Matter | 0.32 | g/m²/month |  |
| Total Solids | 1.45 | g/m²/month |  |
| Monitoring Point 2 (Site 2A) | 06/08/21 | Insoluble Solids | 1.79 | g/m²/month |  |
| Ash | 0.49 | g/m²/month |  |
| Soluble Matter | 0.75 | g/m²/month |  |
| Total Solids | 2.54 | g/m²/month |  |
| Monitoring Point 3 (Site DD2) | 06/08/21 | Insoluble Solids | 2.06 | g/m²/month |  |
| Ash | 0.96 | g/m²/month |  |
| Soluble Matter | 0.50 | g/m²/month |  |
| Total Solids | 2.56 | g/m²/month |  |
| Monitoring Point 4 (Site DD10) | 06/08/21 | Insoluble Solids | 1.95 | g/m²/month |  |
| Ash | 0.61 | g/m²/month |  |
| Soluble Matter | 0.45 | g/m²/month |  |
| Total Solids | 2.41 | g/m²/month |  |
| **May 2021** | | | | | |
| Monitoring Point 1 (Site 1A) | 24/6/21 | Insoluble Solids | 2.40 | g/m²/month |  |
| Ash | 0.87 | g/m²/month |  |
| Soluble Matter | 0.20 | g/m²/month |  |
| Total Solids | 2.59 | g/m²/month |  |
| Monitoring Point 2 (Site 2A) | 24/6/21 | Insoluble Solids | 2.27 | g/m²/month |  |
| Ash | 0.79 | g/m²/month |  |
| Soluble Matter | 0.30 | g/m²/month |  |
| Total Solids | 2.57 | g/m²/month |  |
| Monitoring Point 3 (Site DD2) | 24/6/21 | Insoluble Solids | 2.62 | g/m²/month |  |
| Ash | 0.48 | g/m²/month |  |
| Soluble Matter | 1.29 | g/m²/month |  |
| Total Solids | 3.92 | g/m²/month |  |
| Monitoring Point 4 (Site DD10) | 24/6/21 | Insoluble Solids | 2.36 | g/m²/month |  |
| Ash | 0.70 | g/m²/month |  |
| Soluble Matter | 0.64 | g/m²/month |  |
| Total Solids | 3.00 | g/m²/month |  |
| **April 2021** | | | | | |
| Monitoring Point 1 (Site 1A) | 28/05/21 | Insoluble Solids | 0.98 | g/m²/month |  |
| Ash | 0.91 | g/m²/month |  |
| Soluble Matter | 0.24 | g/m²/month |  |
| Total Solids | 1.22 | g/m²/month |  |
| Monitoring Point 2 (Site 2A) | 28/05/21 | Insoluble Solids | 1.68 | g/m²/month |  |
| Ash | 1.66 | g/m²/month |  |
| Soluble Matter | 0.03 | g/m²/month |  |
| Total Solids | 1.71 | g/m²/month |  |
| Monitoring Point 3 (Site DD2) | 28/05/21 | Insoluble Solids | 1.47 | g/m²/month |  |
| Ash | 0.81 | g/m²/month |  |
| Soluble Matter | 0.98 | g/m²/month |  |
| Total Solids | 2.45 | g/m²/month |  |
| Monitoring Point 4 (Site DD10) | 28/05/21 | Insoluble Solids | 0.93 | g/m²/month |  |
| Ash | 0.88 | g/m²/month |  |
| Soluble Matter | 0.02 | g/m²/month |  |
| Total Solids | 0.95 | g/m²/month |  |
| **March 2021** | | | | | |
| Monitoring Point 1 (Site 1A) | 29/4/21 | Insoluble Solids | 1.90 | g/m²/month |  |
| Ash | 1.33 | g/m²/month |  |
| Soluble Matter | 3.27 | g/m²/month |  |
| Total Solids | 5.17 | g/m²/month |  |
| Monitoring Point 2 (Site 2A) | 29/4/21 | Insoluble Solids | 2.23 | g/m²/month |  |
| Ash | 1.51 | g/m²/month |  |
| Soluble Matter | 2.75 | g/m²/month |  |
| Total Solids | 4.98 | g/m²/month |  |
| Monitoring Point 3 (Site DD2) | 29/4/21 | Insoluble Solids | 1.62 | g/m²/month |  |
| Ash | 0.79 | g/m²/month |  |
| Soluble Matter | 0.83 | g/m²/month |  |
| Total Solids | 2.45 | g/m²/month |  |
| Monitoring Point 4 (Site DD10) | 29/4/21 | Insoluble Solids | 2.79 | g/m²/month |  |
| Ash | 1.70 | g/m²/month |  |
| Soluble Matter | 4.01 | g/m²/month |  |
| Total Solids | 6.80 | g/m²/month |  |
| **February 2021** | | | | | |
| Monitoring Point 1 (Site 1A) | 16/4/21 | Insoluble Solids | 1.31 | g/m²/month |  |
| Ash | 1.22 | g/m²/month |
| Soluble Matter | 1.98 | g/m²/month |
| Total Solids | 3.29 | g/m²/month |
| Monitoring Point 2 (Site 2A) | 16/4/21 | Insoluble Solids | 0.94 | g/m²/month |
| Ash | 0.84 | g/m²/month |
| Soluble Matter | 2.43 | g/m²/month |
| Total Solids | 3.37 | g/m²/month |
| Monitoring Point 3 (Site DD2) | 16/4/21 | Insoluble Solids | 0.96 | g/m²/month |
| Ash | 0.87 | g/m²/month |
| Soluble Matter | 3.03 | g/m²/month |
| Total Solids | 3.99 | g/m²/month |
| Monitoring Point 4 (Site DD10) | 16/4/21 | Insoluble Solids | 0.85 | g/m²/month |
| Ash | 0.72 | g/m²/month |
| Soluble Matter | 1.97 | g/m²/month |
| Total Solids | 2.81 | g/m²/month |
| **January 2021** | | | | | |
| Monitoring Point 1 (Site 1A) | 17/3/21 | Insoluble Solids | 1.24 | g/m²/month |  |
| Ash | 0.87 | g/m²/month |
| Soluble Matter | 3.42 | g/m²/month |
| Total Solids | 4.66 | g/m²/month |
| Monitoring Point 2 (Site 2A) | 17/3/21 | Insoluble Solids | 1.12 | g/m²/month |  |
| Ash | 0.83 | g/m²/month |
| Soluble Matter | 0.29 | g/m²/month |
| Total Solids | 3.15 | g/m²/month |
| Monitoring Point 3 (Site DD2) | 17/3/21 | Insoluble Solids | 1.36 | g/m²/month |  |
| Ash | 1.15 | g/m²/month |
| Soluble Matter | 3.39 | g/m²/month |
| Total Solids | 4.75 | g/m²/month |
| Monitoring Point 4 (Site DD10) | 17/3/21 | Insoluble Solids | 1.25 | g/m²/month |  |
| Ash | 1.17 | g/m²/month |
| Soluble Matter | 3.66 | g/m²/month |
| Total Solids | 4.91 | g/m²/month |
| **December 2020** | | | | | |
| Monitoring Point 1 (Site 1A) | 10/2/21 | Insoluble Solids | 4.17 | g/m²/month |  |
| Ash | 2.18 | g/m²/month |
| Soluble Matter | 5.76 | g/m²/month |
| Total Solids | 9.93 | g/m²/month |
| Monitoring Point 2 (Site 2A) | 10/2/21 | Insoluble Solids | 1.94 | g/m²/month |  |
| Ash | 1.61 | g/m²/month |
| Soluble Matter | 2.96 | g/m²/month |
| Total Solids | 4.84 | g/m²/month |
| Monitoring Point 3 (Site DD2) | 10/2/21 | Insoluble Solids | 2.39 | g/m²/month |  |
| Ash | 0.91 | g/m²/month |
| Soluble Matter | 3.10 | g/m²/month |
| Total Solids | 5.49 | g/m²/month |
| Monitoring Point 4 (Site DD10) | 10/2/21 | Insoluble Solids | 3.56 | g/m²/month |  |
| Ash | 1.92 | g/m²/month |
| Soluble Matter | 1.23 | g/m²/month |
| Total Solids | 4.79 | g/m²/month |
| **November 2020** | | | | | |
| Monitoring Point 1 (Site 1A) | 11/01/21 | Insoluble Solids | 2.60 | g/m²/month |  |
| Ash | 1.37 | g/m²/month |
| Soluble Matter | 0.92 | g/m²/month |
| Total Solids | 3.52 | g/m²/month |
| Monitoring Point 2 (Site 2A) | 11/01/21 | Insoluble Solids | 1.40 | g/m²/month |  |
| Ash | 0.88 | g/m²/month |
| Soluble Matter | 0.42 | g/m²/month |
| Total Solids | 1.82 | g/m²/month |
| Monitoring Point 3 (Site DD2) | 11/01/21 | Insoluble Solids | 0.72 | g/m²/month |  |
| Ash | 0.12 | g/m²/month |
| Soluble Matter | 0.24 | g/m²/month |
| Total Solids | 0.96 | g/m²/month |
| Monitoring Point 4 (Site DD10) | 11/01/21 | Insoluble Solids | 2.88 | g/m²/month |  |
| Ash | 1.66 | g/m²/month |
| Soluble Matter | 1.09 | g/m²/month |
| Total Solids | 3.96 | g/m²/month |
| **October 2020** | | | | | |
| Monitoring Point 1 (Site 1A) | 01/12/20 | Insoluble Solids | 1.97 | g/m²/month |  |
| Ash | 1.28 | g/m²/month |
| Soluble Matter | 1.22 | g/m²/month |
| Total Solids | 3.19 | g/m²/month |
| Monitoring Point 2 (Site 2A) | 01/12/20 | Insoluble Solids | 2.80 | g/m²/month |  |
| Ash | 1.30 | g/m²/month |
| Soluble Matter | 1.78 | g/m²/month |
| Total Solids | 4.57 | g/m²/month |
| Monitoring Point 3 (Site DD2) | 01/12/20 | Insoluble Solids | 2.51 | g/m²/month |  |
| Ash | 1.30 | g/m²/month |
| Soluble Matter | 2.20 | g/m²/month |
| Total Solids | 4.72 | g/m²/month |
| Monitoring Point 4 (Site DD10) | 01/12/20 | Insoluble Solids | 0.93 | g/m²/month |  |
| Ash | 0.58 | g/m²/month |
| Soluble Matter | 1.03 | g/m²/month |
| Total Solids | 1.96 | g/m²/month |
| **September 2020** | | | | | |
| Monitoring Point 1 (Site 1A) | 30/10/20 | Insoluble Solids | 1.66 | g/m²/month |  |
| Ash | 1.27 | g/m²/month |  |
| Soluble Matter | 1.46 | g/m²/month |  |
| Total Solids | 3.13 | g/m²/month |  |
| Monitoring Point 2 (Site 2A) | 30/10/20 | Insoluble Solids | 1.41 | g/m²/month |  |
| Ash | 0.98 | g/m²/month |  |
| Soluble Matter | 1.15 | g/m²/month |  |
| Total Solids | 2.56 | g/m²/month |  |
| Monitoring Point 3 (Site DD2) | 30/10/20 | Insoluble Solids | 1.43 | g/m²/month |  |
| Ash | 1.02 | g/m²/month |  |
| Soluble Matter | 1.19 | g/m²/month |  |
| Total Solids | 2.62 | g/m²/month |  |
| Monitoring Point 4 (Site DD10) | 30/10/20 | Insoluble Solids | 1.40 | g/m²/month |  |
| Ash | 0.97 | g/m²/month |  |
| Soluble Matter | 1.07 | g/m²/month |  |
| Total Solids | 2.47 | g/m²/month |  |
| **August 2020** | | | | | |
| Monitoring Point 1 (Site 1A) | 30/09/20 | Insoluble Solids | 1.14 | g/m²/month |  |
| Ash | 0.56 | g/m²/month |
| Soluble Matter | 1.27 | g/m²/month |
| Total Solids | 2.41 | g/m²/month |
| Monitoring Point 2 (Site 2A) | 30/09/20 | Insoluble Solids | 1.84 | g/m²/month |
| Ash | 1.30 | g/m²/month |
| Soluble Matter | 1.44 | g/m²/month |
| Total Solids | 3.28 | g/m²/month |
| Monitoring Point 3 (Site DD2) | 30/09/20 | Insoluble Solids | 1.19 | g/m²/month |
| Ash | 0.80 | g/m²/month |
| Soluble Matter | 1.97 | g/m²/month |
| Total Solids | 3.16 | g/m²/month |
| Monitoring Point 4 (Site DD10) | 30/09/20 | Insoluble Solids | 1.63 | g/m²/month |
| Ash | 1.36 | g/m²/month |
| Soluble Matter | 0.73 | g/m²/month |
| Total Solids | 2.36 | g/m²/month |
| **July 2020** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 2.02 | g/m²/month | Monitoring Point 3 had a measured insoluble solids and ash content above 4 g/m²/month for July. Despite this elevated reading, the rolling annual average for the insoluble solids fraction was 3.02 g/m²/month and is therefore compliant with EPL 77 and DA 470-11-2003 limits.  During July the wind was predominantly from the W, WSW and SW which is not from the general direction of the Dunmore operations at monitoring point 2 (located S of Dunmore operations). |
| Ash | 1.44 | g/m²/month |
| Soluble Matter | 1.71 | g/m²/month |
| Total Solids | 3.73 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 0.97 | g/m²/month |
| Ash | 0.75 | g/m²/month |
| Soluble Matter | 0.94 | g/m²/month |
| Total Solids | 1.91 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 4.89 | g/m²/month |
| Ash | 4.28 | g/m²/month |
| Soluble Matter | 3.51 | g/m²/month |
| Total Solids | 8.49 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 1.69 | g/m²/month |
| Ash | 1.03 | g/m²/month |
| Soluble Matter | 1.80 | g/m²/month |
| Total Solids | 3.49 | g/m²/month |
|  | | | | |
| **July 2020** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 0.93 | g/m²/month |  |
| Ash | 0.85 | g/m²/month |
| Soluble Matter | 0.87 | g/m²/month |
| Total Solids | 1.80 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 0.56 | g/m²/month |  |
| Ash | 0.51 | g/m²/month |
| Soluble Matter | 0.65 | g/m²/month |
| Total Solids | 1.21 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 1.03 | g/m²/month |  |
| Ash | 0.70 | g/m²/month |
| Soluble Matter | 2.12 | g/m²/month |
| Total Solids | 3.15 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 0.87 | g/m²/month |  |
| Ash | 0.46 | g/m²/month |
| Soluble Matter | 0.90 | g/m²/month |
| Total Solids | 1.77 | g/m²/month |
| **May 2020** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 1.25 | g/m²/month |  |
| Ash | 0.83 | g/m²/month |
| Soluble Matter | 4.31 | g/m²/month |
| Total Solids | 5.57 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 1.09 | g/m²/month |  |
| Ash | 0.83 | g/m²/month |
| Soluble Matter | 0.77 | g/m²/month |
| Total Solids | 1.86 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 1.18 | g/m²/month |  |
| Ash | 1.04 | g/m²/month |
| Soluble Matter | 1.09 | g/m²/month |
| Total Solids | 2.28 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 0.79 | g/m²/month |  |
| Ash | 0.67 | g/m²/month |
| Soluble Matter | 0.93 | g/m²/month |
| Total Solids | 1.72 | g/m²/month |
| **April 2020** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 1.45 | g/m²/month |  |
| Ash | 0.95 | g/m²/month |
| Soluble Matter | 0.50 | g/m²/month |
| Total Solids | 2.82 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 4.84 | g/m²/month |  |
| Ash | 2.36 | g/m²/month |
| Soluble Matter | 5.23 | g/m²/month |
| Total Solids | 10.06 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 1.69 | g/m²/month |  |
| Ash | 0.95 | g/m²/month |
| Soluble Matter | 1.40 | g/m²/month |
| Total Solids | 3.09 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 1.40 | g/m²/month |  |
| Ash | 0.85 | g/m²/month |
| Soluble Matter | 1.44 | g/m²/month |
| Total Solids | 2.84 | g/m²/month |
| **March 2020** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 2.03 | g/m²/month |  |
| Ash | 1.56 | g/m²/month |
| Soluble Matter | 3.47 | g/m²/month |
| Total Solids | 5.50 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 1.75 | g/m²/month |  |
| Ash | 1.11 | g/m²/month |
| Soluble Matter | 1.38 | g/m²/month |
| Total Solids | 3.12 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 1.81 | g/m²/month |  |
| Ash | 1.05 | g/m²/month |
| Soluble Matter | 1.86 | g/m²/month |
| Total Solids | 3.66 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 1.85 | g/m²/month |  |
| Ash | 1.20 | g/m²/month |
| Soluble Matter | 0.92 | g/m²/month |
| Total Solids | 2.77 | g/m²/month |
| **February 2020** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 6.77 | g/m²/month | Currowan Bushfire burning within the South Coast region |
| Ash | 3.11 | g/m²/month |
| Soluble Matter | 7.84 | g/m²/month |
| Total Solids | 14.60 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 13.25 | g/m²/month | Currowan Bushfire burning within the South Coast region |
| Ash | 9.90 | g/m²/month |
| Soluble Matter | 11.83 | g/m²/month |
| Total Solids | 25.08 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 4.60 | g/m²/month | Currowan Bushfire burning within the South Coast region |
| Ash | 3.06 | g/m²/month |
| Soluble Matter | 7.34 | g/m²/month |
| Total Solids | 11.94 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 3.64 | g/m²/month | Currowan Bushfire burning within the South Coast region |
| Ash | 2.26 | g/m²/month |
| Soluble Matter | 5.36 | g/m²/month |
| Total Solids | 9.00 | g/m²/month |
| **January 2020** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 7.11 | g/m²/month | Currowan Bushfire burning within the South Coast region. Samples affected by Dust Storm 23/1/2020 |
| Ash | 5.45 | g/m²/month |
| Soluble Matter | 2.14 | g/m²/month |
| Total Solids | 9.26 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 9.12 | g/m²/month | Currowan Bushfire burning within the South Coast region. Samples affected by Dust Storm 23/1/2020 |
| Ash | 6.44 | g/m²/month |
| Soluble Matter | 2.40 | g/m²/month |
| Total Solids | 11.52 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 10.20 | g/m²/month | Currowan Bushfire burning within the South Coast region. Samples affected by Dust Storm 23/1/2020 |
| Ash | 8.28 | g/m²/month |
| Soluble Matter | 3.06 | g/m²/month |
| Total Solids | 14.02 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 8.14 | g/m²/month | Currowan Bushfire burning within the South Coast region. Samples affected by Dust Storm 23/1/2020 |
| Ash | 6.33 | g/m²/month |
| Soluble Matter | 1.79 | g/m²/month |
| Total Solids | 9.93 | g/m²/month |
| **December 2019** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 2.31 | g/m²/month | Currowan Bushfire burning within the South Coast region. |
| Ash | 1.40 | g/m²/month |
| Soluble Matter | 0.89 | g/m²/month |
| Total Solids | 3.20 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 2.02 | g/m²/month | Currowan Bushfire burning within the South Coast region. |
| Ash | 1.42 | g/m²/month |
| Soluble Matter | 0.60 | g/m²/month |
| Total Solids | 2.62 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 2.14 | g/m²/month | Currowan Bushfire burning within the South Coast region. |
| Ash | 1.27 | g/m²/month |
| Soluble Matter | 0.60 | g/m²/month |
| Total Solids | 2.74 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 1.84 | g/m²/month | Currowan Bushfire burning within the South Coast region. |
| Ash | 1.10 | g/m²/month |
| Soluble Matter | 0.56 | g/m²/month |
| Total Solids | 2.39 | g/m²/month |
| **November 2019** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 3.27 | g/m²/month |  |
| Ash | 2.04 | g/m²/month |
| Soluble Matter | 1.23 | g/m²/month |
| Total Solids | 4.80 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 3.55 | g/m²/month |  |
| Ash | 3.10 | g/m²/month |
| Soluble Matter | 0.45 | g/m²/month |
| Total Solids | 5.35 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 2.84 | g/m²/month |  |
| Ash | 2.52 | g/m²/month |
| Soluble Matter | 1.45 | g/m²/month |
| Total Solids | 4.29 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 2.16 | g/m²/month |  |
| Ash | 1.91 | g/m²/month |
| Soluble Matter | 2.77 | g/m²/month |
| Total Solids | 4.93 | g/m²/month |
| **October 2019** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 1.84 | g/m²/month |  |
|  | Ash | 0.98 | g/m²/month |
|  | Soluble Matter | 0.85 | g/m²/month |
|  | Total Solids | 3.28 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 1.43 | g/m²/month |  |
|  | Ash | 0.94 | g/m²/month |
|  | Soluble Matter | 0.49 | g/m²/month |
|  | Total Solids | 2.28 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 2.19 | g/m²/month |  |
|  | Ash | 1.18 | g/m²/month |
|  | Soluble Matter | 1.18 | g/m²/month |
|  | Total Solids | 3.37 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 1.24 | g/m²/month |  |
|  | Ash | 0.91 | g/m²/month |
|  | Soluble Matter | 0.88 | g/m²/month |
|  | Total Solids | 2.13 | g/m²/month |
| **September 2019** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 1.1 | g/m²/month |  |
| Ash | 0.92 | g/m²/month |
| Soluble Matter | 1.88 | g/m²/month |
| Total Solids | 2.98 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 1.44 | g/m²/month |  |
| Ash | 1.2 | g/m²/month |
| Soluble Matter | 1.81 | g/m²/month |
| Total Solids | 3.25 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 2.01 | g/m²/month |  |
| Ash | 1.51 | g/m²/month |
| Soluble Matter | 3.7 | g/m²/month |
| Total Solids | 5.71 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 0.5 | g/m²/month |  |
| Ash | 0.46 | g/m²/month |
| Soluble Matter | 2.98 | g/m²/month |
| Total Solids | 3.48 | g/m²/month |
| **August 2019** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 2.08 | g/m²/month |  |
| Ash | 1.42 | g/m²/month |
| Soluble Matter | 1.41 | g/m²/month |
| Total Solids | 3.49 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 0.91 | g/m²/month |  |
| Ash | 0.62 | g/m²/month |
| Soluble Matter | 1.65 | g/m²/month |
| Total Solids | 2.56 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 1.67 | g/m²/month |  |
| Ash | 1.14 | g/m²/month |
| Soluble Matter | 1.64 | g/m²/month |
| Total Solids | 3.31 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 2.4 | g/m²/month |  |
| Ash | 1.72 | g/m²/month |
| Soluble Matter | 1.54 | g/m²/month |
| Total Solids | 3.94 | g/m²/month |
| **July 2019** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 1.19 | g/m²/month |  |
| Ash | 0.65 | g/m²/month |
| Soluble Matter | 0.14 | g/m²/month |
| Total Solids | 1.33 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 1.43 | g/m²/month |  |
| Ash | 0.69 | g/m²/month |
| Soluble Matter | 1.72 | g/m²/month |
| Total Solids | 3.15 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 0.6 | g/m²/month |  |
| Ash | 0.57 | g/m²/month |
| Soluble Matter | 0.79 | g/m²/month |
| Total Solids | 1.39 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 0.31 | g/m²/month |  |
| Ash | 0.3 | g/m²/month |
| Soluble Matter | 0.11 | g/m²/month |
| Total Solids | 0.42 | g/m²/month |
| **June 2019** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 3.23 | g/m²/month |  |
| Ash | 1.25 | g/m²/month |
| Soluble Matter | 2.67 | g/m²/month |
| Total Solids | 5.9 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 2.82 | g/m²/month |  |
| Ash | 1.08 | g/m²/month |
| Soluble Matter | 1.29 | g/m²/month |
| Total Solids | 4.11 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 2.86 | g/m²/month |  |
| Ash | 1.09 | g/m²/month |
| Soluble Matter | 2.61 | g/m²/month |
| Total Solids | 5.51 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 1.54 | g/m²/month |  |
| Ash | 0.75 | g/m²/month |
| Soluble Matter | 1.19 | g/m²/month |
| Total Solids | 2.74 | g/m²/month |
| **May 2019** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 0.28 | g/m²/month |  |
| Ash | 0.11 | g/m²/month |
| Soluble Matter | 0.13 | g/m²/month |
| Total Solids | 0.41 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 0.73 | g/m²/month |  |
| Ash | 0.45 | g/m²/month |
| Soluble Matter | 0.71 | g/m²/month |
| Total Solids | 1.44 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 2.33 | g/m²/month |  |
| Ash | 1.58 | g/m²/month |
| Soluble Matter | 0.67 | g/m²/month |
| Total Solids | 3 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 1.15 | g/m²/month |  |
| Ash | 0.44 | g/m²/month |
| Soluble Matter | 0.36 | g/m²/month |
| Total Solids | 1.51 | g/m²/month |
| **April 2019** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 1.09 | g/m²/month |  |
| Ash | 0.75 | g/m²/month |
| Soluble Matter | 0.73 | g/m²/month |
| Total Solids | 1.82 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 1.97 | g/m²/month |  |
| Ash | 1.46 | g/m²/month |
| Soluble Matter | 2.43 | g/m²/month |
| Total Solids | 4.4 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 3.28 | g/m²/month |  |
| Ash | 1.09 | g/m²/month |
| Soluble Matter | 1.98 | g/m²/month |
| Total Solids | 5.26 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 2.31 | g/m²/month |  |
| Ash | 1.23 | g/m²/month |
| Soluble Matter | 1.64 | g/m²/month |
| Total Solids | 3.95 | g/m²/month |
| **March 2019** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 3.29 | g/m²/month |  |
| Ash | 1.53 | g/m²/month |
| Soluble Matter | 0.86 | g/m²/month |
| Total Solids | 4.15 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 1.13 | g/m²/month |  |
| Ash | 0.92 | g/m²/month |
| Soluble Matter | 6.07 | g/m²/month |
| Total Solids | 7.2 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 4.25 | g/m²/month |  |
| Ash | 1.94 | g/m²/month |
| Soluble Matter | 0.56 | g/m²/month |
| Total Solids | 4.81 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 3.89 | g/m²/month |  |
| Ash | 1.88 | g/m²/month |
| Soluble Matter | 0.16 | g/m²/month |
| Total Solids | 4.05 | g/m²/month |
| **February 2019** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 5.29 | g/m²/month | Regional Dust Storm on 13/2/19 and 14/2/19 |
| Ash | 3.55 | g/m²/month |
| Soluble Matter | 1.44 | g/m²/month |
| Total Solids | 6.69 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 5.09 | g/m²/month | Regional Dust Storm on 13/2/19 and 14/2/19 |
| Ash | 3.29 | g/m²/month |
| Soluble Matter | 2.20 | g/m²/month |
| Total Solids | 7.32 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 8.62 | g/m²/month | Regional Dust Storm on 13/2/19 and 14/2/19 |
| Ash | 4.40 | g/m²/month |
| Soluble Matter | 3.14 | g/m²/month |
| Total Solids | 11.76 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 4.02 | g/m²/month | Regional Dust Storm on 13/2/19 and 14/2/19 |
| Ash | 2.36 | g/m²/month |
| Soluble Matter | 1.30 | g/m²/month |
| Total Solids | 5.32 | g/m²/month |
| **January 2019** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 4.37 | g/m²/month |  |
| Ash | 3.24 | g/m²/month |
| Soluble Matter | 0.71 | g/m²/month |
| Total Solids | 5.09 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 2.6 | g/m²/month |  |
| Ash | 1.84 | g/m²/month |
| Soluble Matter | 0.79 | g/m²/month |
| Total Solids | 3.39 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 3.93 | g/m²/month |  |
| Ash | 2.82 | g/m²/month |
| Soluble Matter | 0.72 | g/m²/month |
| Total Solids | 4.65 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 2.71 | g/m²/month |  |
| Ash | 2.34 | g/m²/month |
| Soluble Matter | 0.24 | g/m²/month |
| Total Solids | 2.95 | g/m²/month |
| **December 2018** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 3.12 | g/m²/month |  |
| Ash | 2.04 | g/m²/month |
| Soluble Matter | 1.35 | g/m²/month |
| Total Solids | 5.55 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 3.83 | g/m²/month |  |
| Ash | 2.48 | g/m²/month |
| Soluble Matter | 1.55 | g/m²/month |
| Total Solids | 5.38 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 4.3 | g/m²/month |  |
| Ash | 2.14 | g/m²/month |
| Soluble Matter | 2.04 | g/m²/month |
| Total Solids | 6.34 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 0.79 | g/m²/month |  |
| Ash | 0.45 | g/m²/month |
| Soluble Matter | 2.52 | g/m²/month |
| Total Solids | 3.31 | g/m²/month |
| **November 2018** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 3.66 | g/m²/month |  |
| Ash | 2.74 | g/m²/month |
| Soluble Matter | 0.28 | g/m²/month |
| Total Solids | 3.94 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 5.76 | g/m²/month |  |
| Ash | 4.58 | g/m²/month |
| Soluble Matter | 0.3 | g/m²/month |
| Total Solids | 6.06 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 3.29 | g/m²/month |  |
| Ash | 2.24 | g/m²/month |
| Soluble Matter | 1.74 | g/m²/month |
| Total Solids | 5.03 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 4.47 | g/m²/month |  |
| Ash | 2.43 | g/m²/month |
| Soluble Matter | 2.83 | g/m²/month |
| Total Solids | 7.3 | g/m²/month |
| **October 2018** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 4.12 | g/m²/month |  |
| Ash | 1.61 | g/m²/month |
| Soluble Matter | 1.26 | g/m²/month |
| Total Solids | 5.38 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 4.58 | g/m²/month |  |
| Ash | 2.19 | g/m²/month |
| Soluble Matter | 1.23 | g/m²/month |
| Total Solids | 5.81 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 2.39 | g/m²/month |  |
| Ash | 1.27 | g/m²/month |
| Soluble Matter | 0.64 | g/m²/month |
| Total Solids | 3.03 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 2.57 | g/m²/month |  |
| Ash | 1.05 | g/m²/month |
| Soluble Matter | 0.82 | g/m²/month |
| Total Solids | 3.39 | g/m²/month |
| **September 2018** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 3.16 | g/m²/month |  |
| Ash | 1.84 | g/m²/month |
| Soluble Matter | 1.42 | g/m²/month |
| Total Solids | 4.58 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 3.01 | g/m²/month |  |
| Ash | 2.17 | g/m²/month |
| Soluble Matter | 1.67 | g/m²/month |
| Total Solids | 4.68 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 2.8 | g/m²/month |  |
| Ash | 1.69 | g/m²/month |
| Soluble Matter | 2.95 | g/m²/month |
| Total Solids | 5.75 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 2.87 | g/m²/month |  |
| Ash | 1.73 | g/m²/month |
| Soluble Matter | 1.55 | g/m²/month |
| Total Solids | 4.42 | g/m²/month |
| **August 2018** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 2.95 | g/m²/month |  |
| Ash | 1.97 | g/m²/month |
| Soluble Matter | 1.41 | g/m²/month |
| Total Solids | 4.36 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 2.03 | g/m²/month |  |
| Ash | 1.03 | g/m²/month |
| Soluble Matter | 1.28 | g/m²/month |
| Total Solids | 3.32 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 4.23 | g/m²/month |  |
| Ash | 2.33 | g/m²/month |
| Soluble Matter | 0.87 | g/m²/month |
| Total Solids | 5.1 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 4.95 | g/m²/month |  |
| Ash | 2.32 | g/m²/month |
| Soluble Matter | 1.25 | g/m²/month |
| Total Solids | 6.2 | g/m²/month |
| **July 2018** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Insoluble Solids | 2 | g/m²/month |  |
| Ash | 1.47 | g/m²/month |
| Soluble Matter | 1.09 | g/m²/month |
| Total Solids | 3.09 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Insoluble Solids | 1.84 | g/m²/month |  |
| Ash | 1.6 | g/m²/month |
| Soluble Matter | 1.52 | g/m²/month |
| Total Solids | 3.37 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Insoluble Solids | 1.67 | g/m²/month |  |
| Ash | 1.53 | g/m²/month |
| Soluble Matter | 1.55 | g/m²/month |
| Total Solids | 3.22 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Insoluble Solids | 2.46 | g/m²/month |  |
| Ash | 2.06 | g/m²/month |
| Soluble Matter | 2.02 | g/m²/month |
| Total Solids | 4.48 | g/m²/month |
| **June 2018** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Ash | 1.80 | g/m²/month |  |
| Insoluble Solids | 1.22 | g/m²/month |
| Soluble Matter | 1.31 | g/m²/month |
| Total Solids | 3.11 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Ash | 1.00 | g/m²/month |  |
| Insoluble Solids | 1.43 | g/m²/month |
| Soluble Matter | 1.51 | g/m²/month |
| Total Solids | 2.94 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Ash | 1.17 | g/m²/month |  |
| Insoluble Solids | 1.60 | g/m²/month |
| Soluble Matter | 0.53 | g/m²/month |
| Total Solids | 2.14 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Ash | 1.63 | g/m²/month |  |
| Insoluble Solids | 2.78 | g/m²/month |
| Soluble Matter | 0.43 | g/m²/month |
| Total Solids | 3.21 | g/m²/month |
| **May 2018** | | | | | |
| Monitoring Point 1 (Site 1A) |  | Ash | 1.38 | g/m²/month |  |
| Insoluble Solids | 1.87 | g/m²/month |
| Soluble Matter | 1.46 | g/m²/month |
| Total Solids | 3.33 | g/m²/month |
| Monitoring Point 2 (Site 2A) |  | Ash | 1.41 | g/m²/month |  |
| Insoluble Solids | 1.91 | g/m²/month |
| Soluble Matter | 1.39 | g/m²/month |
| Total Solids | 3.30 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Ash | 1.48 | g/m²/month |  |
| Insoluble Solids | 1.98 | g/m²/month |
| Soluble Matter | 1.17 | g/m²/month |
| Total Solids | 3.16 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Ash | 0.85 | g/m²/month |  |
| Insoluble Solids | 1.72 | g/m²/month |
| Soluble Matter | 0.81 | g/m²/month |
| Total Solids | 2.53 | g/m²/month |
| **April 2018** | | | | | |
| Monitoring Point 1 (Site 1) |  | Ash | 4.56 | g/m²/month |  |
| Insoluble Solids | 4.91 | g/m²/month |
| Soluble Matter | 2.34 | g/m²/month |
| Total Solids | 7.25 | g/m²/month |
| Monitoring Point 2 (Site 2) |  | Ash | 2.91 | g/m²/month |  |
| Insoluble Solids | 5.36 | g/m²/month |
| Soluble Matter | 6.20 | g/m²/month |
| Total Solids | 11.56 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Ash | 2.40 | g/m²/month |  |
| Insoluble Solids | 2.70 | g/m²/month |
| Soluble Matter | 2.19 | g/m²/month |
| Total Solids | 4.90 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Ash | 2.39 | g/m²/month |  |
| Insoluble Solids | 2.74 | g/m²/month |
| Soluble Matter | 2.54 | g/m²/month |
| Total Solids | 5.28 | g/m²/month |
| **March 2018** | | | | | |
| Monitoring Point 1 (Site 1) |  | Ash | 2.90 | g/m²/month |  |
| Insoluble Solids | 4.97 | g/m²/month |
| Soluble Matter | 8.13 | g/m²/month |
| Total Solids | 13.10 | g/m²/month |
| Monitoring Point 2 (Site 2) |  | Ash | 3.09 | g/m²/month |  |
| Insoluble Solids | 3.81 | g/m²/month |
| Soluble Matter | 5.24 | g/m²/month |
| Total Solids | 9.05 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Ash | 1.74 | g/m²/month |  |
| Insoluble Solids | 2.72 | g/m²/month |
| Soluble Matter | 4.57 | g/m²/month |
| Total Solids | 7.29 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Ash | 1.91 | g/m²/month |  |
| Insoluble Solids | 4.21 | g/m²/month |
| Soluble Matter | 5.19 | g/m²/month |
| Total Solids | 9.40 | g/m²/month |
| **February 2018** | | | | | |
| Monitoring Point 1 (Site 1) |  | Ash | 1.22 | g/m²/month |  |
| Insoluble Solids | 1.79 | g/m²/month |
| Soluble Matter | 4.11 | g/m²/month |
| Total Solids | 5.9 | g/m²/month |
| Monitoring Point 2 (Site 2) |  | Ash | 4.26 | g/m²/month |  |
| Insoluble Solids | 4.71 | g/m²/month |
| Soluble Matter | 4.76 | g/m²/month |
| Total Solids | 9.46 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Ash | 1.84 | g/m²/month |  |
| Insoluble Solids | 2.22 | g/m²/month |
| Soluble Matter | 3.31 | g/m²/month |
| Total Solids | 5.53 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Ash | 1.23 | g/m²/month |  |
| Insoluble Solids | 1.47 | g/m²/month |
| Soluble Matter | 3.71 | g/m²/month |
| Total Solids | 5.18 | g/m²/month |
| **January 2018** | | | | | |
| Monitoring Point 1 (Site 1) |  | Ash | 1.22 | g/m²/month |  |
| Insoluble Solids | 1.79 | g/m²/month |
| Soluble Matter | 4.11 | g/m²/month |
| Total Solids | 5.9 | g/m²/month |
| Monitoring Point 2 (Site 2) |  | Ash | 4.26 | g/m²/month |  |
| Insoluble Solids | 4.71 | g/m²/month |
| Soluble Matter | 4.76 | g/m²/month |
| Total Solids | 9.46 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Ash | 1.84 | g/m²/month |  |
| Insoluble Solids | 2.22 | g/m²/month |
| Soluble Matter | 3.31 | g/m²/month |
| Total Solids | 5.53 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Ash | 1.23 | g/m²/month |  |
| Insoluble Solids | 1.47 | g/m²/month |
| Soluble Matter | 3.71 | g/m²/month |
| Total Solids | 5.18 | g/m²/month |
| **December 2017** | | | | | |
| Monitoring Point 1 (Site 1) |  | Ash | 2.41 | g/m²/month |  |
| Insoluble Solids | 3.97 | g/m²/month |
| Soluble Matter | 2.76 | g/m²/month |
| Total Solids | 6.73 | g/m²/month |
| Monitoring Point 2 (Site 2) |  | Ash | 4.05 | g/m²/month |  |
| Insoluble Solids | 5.32 | g/m²/month |
| Soluble Matter | 3.07 | g/m²/month |
| Total Solids | 8.39 | g/m²/month |
| Monitoring Point 3 (Site DD2) |  | Ash | 1.75 | g/m²/month |  |
| Insoluble Solids | 2.24 | g/m²/month |
| Soluble Matter | 3.67 | g/m²/month |
| Total Solids | 5.92 | g/m²/month |
| Monitoring Point 4 (Site DD10) |  | Ash | 1.66 | g/m²/month |  |
| Insoluble Solids | 2.47 | g/m²/month |
| Soluble Matter | 2.22 | g/m²/month |
| Total Solids | 4.69 | g/m²/month |
| Insoluble Solids | 3.49 | g/m²/month |
| Soluble Matter | 1.09 | g/m²/month |
| Total Solids | 4.58 | g/m²/month |
| Insoluble Solids | 2.84 | g/m²/month |
| Soluble Matter | 1.44 | g/m²/month |
| Total Solids | 4.28 | g/m²/month |
| Further Historical monitoring data relating to dust can be found in the associated Annual Reviews for each year. Location of the Dunmore Quarry Annual Reviews can be found at<https://www.boral.com.au/locations/boral-dunmore-operations> | | | | | |

**PM10**

PM10 (µg/m3) results for the reporting period month is:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sample Period: | January/February 2022 | | |  |  |  |  |
| Date Received: | 15/03/22 | | |  |  |  |  |
| Licensee: | Dunmore Quarry | |  |  |  |  |  |
| Licensee Address: | Princes Hwy, Dunmore NSW 2529 | | | | |  |  |
| EPL No: | 77 |  | | |  |  |  |
|  |  |  | |  |  |  |  |
| **Qualifications related to Dust:** | |  | |  |  |  |  |
| \* Air Emissions Monitoring - High Volume Air Sampler | | | | | | |  |

| **Location** | **Sample Date** | **Date Received** | **Pollutant** | **Monitoring Frequency** | **Measurement** | **Limit** | **Unit** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Monitoring Point 5 | 5/01/22 | 15/03/22 | PM10 | 6 days | 4.52 | 50 | µg/m³ |  |
| Monitoring Point 5 | 11/01/22 | 15/03/22 | PM10 | 6 days | 12.42 | 50 | µg/m³ |  |
| Monitoring Point 5 | 17/01/22 | 15/03/22 | PM10 | 6 days | 11.56 | 50 | µg/m³ |  |
| Monitoring Point 5 | 23/01/22 | 15/03/22 | PM10 | 6 days | 2.67 | 50 | µg/m³ |  |
| Monitoring Point 5 | 29/01/22 | 15/03/22 | PM10 | 6 days | 7.49 | 50 | µg/m³ |  |
| Monitoring Point 5 | 4/02/22 | 15/03/22 | PM10 | 6 days | 6.48 | 50 | µg/m³ |  |
| Monitoring Point 5 | 10/02/22 | 15/03/22 | PM10 | 6 days | 18.54 | 50 | µg/m³ |  |
| Monitoring Point 5 | 16/02/22 | 15/03/22 | PM10 | 6 days | 13.31 | 50 | µg/m³ |  |

**Historical Data**

| **Location** | **Sample Date** | **Date Received** | **Pollutant** | **Monitoring Frequency** | **Measurement** | **Limit** | **Unit** | **Comments** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Monitoring Point 5 | 5/01/22 | 15/03/22 | PM10 | 6 days | 4.52 | 50 | µg/m³ |  |
| Monitoring Point 5 | 11/01/22 | 15/03/22 | PM10 | 6 days | 12.42 | 50 | µg/m³ |  |
| Monitoring Point 5 | 17/01/22 | 15/03/22 | PM10 | 6 days | 11.56 | 50 | µg/m³ |  |
| Monitoring Point 5 | 23/01/22 | 15/03/22 | PM10 | 6 days | 2.67 | 50 | µg/m³ |  |
| Monitoring Point 5 | 29/01/22 | 15/03/22 | PM10 | 6 days | 7.49 | 50 | µg/m³ |  |
| Monitoring Point 5 | 4/02/22 | 15/03/22 | PM10 | 6 days | 6.48 | 50 | µg/m³ |  |
| Monitoring Point 5 | 10/02/22 | 15/03/22 | PM10 | 6 days | 18.54 | 50 | µg/m³ |  |
| Monitoring Point 5 | 16/02/22 | 15/03/22 | PM10 | 6 days | 13.31 | 50 | µg/m³ |  |
| Monitoring Point 5 | 6/12/21 | 25/01/22 | PM10 | 6 days | 16.76 | 50 | µg/m³ |  |
| Monitoring Point 5 | 12/12/21 | 25/01/22 | PM10 | 6 days | 25.55 | 50 | µg/m³ |  |
| Monitoring Point 5 | 18/12/21 | 25/01/22 | PM10 | 6 days | 26.32 | 50 | µg/m³ |  |
| Monitoring Point 5 | 24/12/21 | 25/01/22 | PM10 | 6 days | 7.49 | 50 | µg/m³ |  |
| Monitoring Point 5 | 30/12/21 | 25/01/22 | PM10 | 6 days | 10.46 | 50 | µg/m³ |  |
| Monitoring Point 5 | 30/11/21 | 7/12/21 | PM10 | 6 days | 5.53 | 50 | µg/m³ |  |
| Monitoring Point 5 | 24/11/21 | 7/12/21 | PM10 | 6 days | 18.60 | 50 | µg/m³ |  |
| Monitoring Point 5 | 18/11/21 | 7/12/21 | PM10 | 6 days | 2.61 | 50 | µg/m³ |  |
| Monitoring Point 5 | 12/11/21 | 7/12/21 | PM10 | 6 days | 17.53 | 50 | µg/m³ |  |
| Monitoring Point 5 | 6/11/21 | 7/12/21 | PM10 | 6 days | 22.28 | 50 | µg/m³ |  |
| Monitoring Point 5 | 31/10/21 | 7/12/21 | PM10 | 6 days | 9.51 | 50 | µg/m³ |  |
| Monitoring Point 5 | 25/10/21 | 23/11/21 | PM10 | 6 days | 18.60 | 50 | µg/m³ |  |
| Monitoring Point 5 | 19/10/21 | 27/10/21 | PM10 | 6 days | 5.23 | 50 | µg/m³ |  |
| Monitoring Point 5 | 13/10/21 | 27/10/21 | PM10 | 6 days | 6.36 | 50 | µg/m³ |  |
| Monitoring Point 5 | 7/10/21 | 27/10/21 | PM10 | 6 days | 18.54 | 50 | µg/m³ |  |
| Monitoring Point 5 | 1/10/21 | 27/10/21 | PM10 | 6 days | 7.01 | 50 | µg/m³ |  |
| Monitoring Point 5 | 25/09/21 | 12/10/21 | PM10 | 6 days | 5.64 | 50 | µg/m³ |  |
| Monitoring Point 5 | 19/09/21 | 12/10/21 | PM10 | 6 days | 8.73 | 50 | µg/m³ |  |
| Monitoring Point 5 | 13/09/21 | 12/10/21 | PM10 | 6 days | 2.26 | 50 | µg/m³ |  |
| Monitoring Point 5 | 7/09/21 | 12/10/21 | PM10 | 6 days | 5.53 | 50 | µg/m³ |  |
| Monitoring Point 5 | 1/09/21 | 12/10/21 | PM10 | 6 days | 15.92 | 50 | µg/m³ |  |
| Monitoring Point 5 | 26/8/21 | 22/09/21 | PM10 | 6 days | 0.24 | 50 | µg/m³ |  |
| Monitoring Point 5 | 20/8/21 | 22/09/21 | PM10 | 6 days | 5.35 | 50 | µg/m³ |  |
| Monitoring Point 5 | 14/8/21 | 22/09/21 | PM10 | 6 days | 2.20 | 50 | µg/m³ |  |
| Monitoring Point 5 | 8/8/21 | 22/09/21 | PM10 | 6 days | 1.84 | 50 | µg/m³ |  |
| Monitoring Point 5 | 2/8/21 | 22/09/21 | PM10 | 6 days | 1.01 | 50 | µg/m³ |  |
| Monitoring Point 5 | 27/7/21 | 13/09/21 | PM10 | 6 days | 0.65 | 50 | µg/m³ |  |
| Monitoring Point 5 | 21/7/21 | 13/09/21 | PM10 | 6 days | 1.60 | 50 | µg/m³ |  |
| Monitoring Point 5 | 15/7/21 | 13/09/21 | PM10 | 6 days | 0.95 | 50 | µg/m³ |  |
| Monitoring Point 5 | 9/7/21 | 13/09/21 | PM10 | 6 days | 3.57 | 50 | µg/m³ |  |
| Monitoring Point 5 | 3/7/21 | 13/09/21 | PM10 | 6 days | 0.71 | 50 | µg/m³ |  |
| Monitoring Point 5 | 27/6/21 | 8/7/21 | PM10 | 6 days | 1.13 | 50 | µg/m³ |  |
| Monitoring Point 5 | 21/6/21 | 8/7/21 | PM10 | 6 days | 4.04 | 50 | µg/m³ |  |
| Monitoring Point 5 | 15/6/21 | 8/7/21 | PM10 | 6 days | 3.03 | 50 | µg/m³ |  |
| Monitoring Point 5 | 9/6/21 | 8/7/21 | PM10 | 6 days | 2.32 | 50 | µg/m³ |  |
| Monitoring Point 5 | 3/6/21 | 8/7/21 | PM10 | 6 days | 4.28 | 50 | µg/m³ |  |
| Monitoring Point 5 | 28/5/21 | 7/6/21 | PM10 | 6 days | 0.83 | 50 | µg/m³ |  |
| Monitoring Point 5 | 22/5/21 | 7/6/21 | PM10 | 6 days | 1.66 | 50 | µg/m³ |  |
| Monitoring Point 5 | 16/5/21 | 7/6/21 | PM10 | 6 days | 0.83 | 50 | µg/m³ |  |
| Monitoring Point 5 | 10/5/21 | 7/6/21 | PM10 | 6 days | 1.07 | 50 | µg/m³ |  |
| Monitoring Point 5 | 4/5/21 | 7/6/21 | PM10 | 6 days | 2.91 | 50 | µg/m³ |  |
| Monitoring Point 5 | 28/4/21 | 28/05/21 | PM10 | 6 days | 8.50 | 50 | µg/m³ |  |
| Monitoring Point 5 | 22/4/21 | 28/05/21 | PM10 | 6 days | 6.95 | 50 | µg/m³ |  |
| Monitoring Point 5 | 16/4/21 | 28/05/21 | PM10 | 6 days | 10.16 | 50 | µg/m³ |  |
| Monitoring Point 5 | 10/4/21 | 28/05/21 | PM10 | 6 days | 8.08 | 50 | µg/m³ |  |
| Monitoring Point 5 | 4/4/21 | 28/05/21 | PM10 | 6 days | 7.25 | 50 | µg/m³ |  |
| Monitoring Point 5 | 29/3/21 | 22/04/21 | PM10 | 6 days | 4.22 | 50 | µg/m³ |  |
| Monitoring Point 5 | 23/3/21 | 22/04/21 | PM10 | 6 days | 3.09 | 50 | µg/m³ |  |
| Monitoring Point 5 | 17/3/21 | 22/04/21 | PM10 | 6 days | 6.71 | 50 | µg/m³ |  |
| Monitoring Point 5 | 11/3/21 | 22/04/21 | PM10 | 6 days | 9.57 | 50 | µg/m³ |  |
| Monitoring Point 5 | 5/3/21 | 22/4/21 | PM10 | 6 days | 10.16 | 50 | µg/m³ |  |
| Monitoring Point 5 | 27/02/21 | 31/03/31 | PM10 | 6 days | 13.73 | 50 | µg/m³ |  |
| Monitoring Point 5 | 21/02/21 | 31/03/31 | PM10 | 6 days | 9.27 | 50 | µg/m³ |  |
| Monitoring Point 5 | 15/02/21 | 31/03/31 | PM10 | 6 days | 9.15 | 50 | µg/m³ |  |
| Monitoring Point 5 | 9/02/21 | 31/03/31 | PM10 | 6 days | 9.45 | 50 | µg/m³ |  |
| Monitoring Point 5 | 3/02/21 | 31/03/31 | PM10 | 6 days | 6.83 | 50 | µg/m³ |  |
| Monitoring Point 5 | 28/01/21 | 04/03/21 | PM10 | 6 days | 17.41 | 50 | µg/m³ |  |
| Monitoring Point 5 | 22/01/21 | 04/03/21 | PM10 | 6 days | 45.44 | 50 | µg/m³ |  |
| Monitoring Point 5 | 16/01/21 | 04/03/21 | PM10 | 6 days | 7.66 | 50 | µg/m³ |  |
| Monitoring Point 5 | 10/01/21 | 04/03/21 | PM10 | 6 days | 4.22 | 50 | µg/m³ |  |
| Monitoring Point 5 | 04/01/21 | 04/03/21 | PM10 | 6 days | 16.76 | 50 | µg/m³ |  |
| Monitoring Point 5 | 29/12/20 | 01/02/21 | PM10 | 6 days | 3.74 | 50 | µg/m³ |  |
| Monitoring Point 5 | 23/12/20 | 01/02/21 | PM10 | 6 days | 10.46 | 50 | µg/m³ |  |
| Monitoring Point 5 | 17/12/20 | 01/02/21 | PM10 | 6 days | 26.44 | 50 | µg/m³ |  |
| Monitoring Point 5 | 11/12/20 | 01/02/21 | PM10 | 6 days | 11.11 | 50 | µg/m³ |  |
| Monitoring Point 5 | 5/12/20 | 01/02/21 | PM10 | 6 days | 3.57 | 50 | µg/m³ |  |
| Monitoring Point 5 | 17/11/20 | 11/12/20 | PM10 | 6 days | 20.20 | 50 | µg/m³ |  |
| Monitoring Point 5 | 11/11/20 | 11/12/20 | PM10 | 6 days | 8.73 | 50 | µg/m³ |  |
| Monitoring Point 5 | 05/11/20 | 11/12/20 | PM10 | 6 days | 3.57 | 50 | µg/m³ |  |
| Monitoring Point 5 | 23/11/20 | 11/12/20 | PM10 | 6 days | 11.23 | 50 | µg/m³ |  |
| Monitoring Point 5 | 29/11/20 | 11/12/20 | PM10 | 6 days | 12.34 | 50 | µg/m³ |  |
| Monitoring Point 5 | 06/10/20 | 18/11/20 | PM10 | 6 days | 4.21 | 50 | µg/m³ |  |
| Monitoring Point 5 | 12/10/20 | 18/11/20 | PM10 | 6 days | 11.05 | 50 | µg/m³ |  |
| Monitoring Point 5 | 18/10/20 | 18/11/20 | PM10 | 6 days | 6.65 | 50 | µg/m³ |  |
| Monitoring Point 5 | 24/10/20 | 18/11/20 | PM10 | 6 days | 10.58 | 50 | µg/m³ |  |
| Monitoring Point 5 | 30/10/20 | 18/11/20 | PM10 | 6 days | 5.11 | 50 | µg/m³ |  |
| Monitoring Point 5 | 06/09/20 | 19/10/20 | PM10 | 6 days | 12.42 | 50 | µg/m³ |  |
| Monitoring Point 5 | 12/09/20 | 19/10/20 | PM10 | 6 days | 7.66 | 50 | µg/m³ |  |
| Monitoring Point 5 | 18/09/20 | 19/10/20 | PM10 | 6 days | 4.40 | 50 | µg/m³ |  |
| Monitoring Point 5 | 24/09/20 | 19/10/20 | PM10 | 6 days | 3.21 | 50 | µg/m³ |  |
| Monitoring Point 5 | 30/09/20 | 19/10/20 | PM10 | 6 days | 27.51 | 50 | µg/m³ |  |
| Monitoring Point 5 | 01/08/20 | 18/09/20 | PM10 | 6 days | 33.57 | 50 | µg/m³ |  |
| Monitoring Point 5 | 07/08/20 | 18/09/20 | PM10 | 6 days | 6.77 | 50 | µg/m³ |  |
| Monitoring Point 5 | 13/08/20 | 18/09/20 | PM10 | 6 days | 9.80 | 50 | µg/m³ |  |
| Monitoring Point 5 | 19/08/20 | 18/09/20 | PM10 | 6 days | 12.12 | 50 | µg/m³ |  |
| Monitoring Point 5 | 25/08/20 | 18/09/20 | PM10 | 6 days | 7.37 | 50 | µg/m³ |  |
| Monitoring Point 5 | 31/08/20 | 18/09/20 | PM10 | 6 days | 4.81 | 50 | µg/m³ |  |
| Monitoring Point 5 | 02/07/20 |  | PM10 | 6 days | 14.50 | 50 | µg/m³ |  |
| Monitoring Point 5 | 08/07/20 |  | PM10 | 6 days | 9.86 | 50 | µg/m³ |  |
| Monitoring Point 5 | 14/07/20 |  | PM10 | 6 days | 9.21 | 50 | µg/m³ |  |
| Monitoring Point 5 | 20/07/20 |  | PM10 | 6 days | 8.50 | 50 | µg/m³ |  |
| Monitoring Point 5 | 26/07/20 |  | PM10 | 6 days | 9.63 | 50 | µg/m³ |  |
| Monitoring Point 5 | 02/06/20 |  | PM10 | 6 days | 8.61 | 50 | µg/m³ |  |
| Monitoring Point 5 | 08/06/20 |  | PM10 | 6 days | 10.45 | 50 | µg/m³ |  |
| Monitoring Point 5 | 14/06/20 |  | PM10 | 6 days | 6.95 | 50 | µg/m³ |  |
| Monitoring Point 5 | 20/06/20 |  | PM10 | 6 days | 8.08 | 50 | µg/m³ |  |
| Monitoring Point 5 | 26/06/20 |  | PM10 | 6 days | 7.84 | 50 | µg/m³ |  |
| Monitoring Point 5 | 3/05/20 |  | PM10 | 6 days | 8.97 | 50 | µg/m³ |  |
| Monitoring Point 5 | 9/05/20 |  | PM10 | 6 days | 17.65 | 50 | µg/m³ |  |
| Monitoring Point 5 | 15/05/20 |  | PM10 | 6 days | 12.60 | 50 | µg/m³ |  |
| Monitoring Point 5 | 21/05/20 |  | PM10 | 6 days | 13.55 | 50 | µg/m³ |  |
| Monitoring Point 5 | 27/05/20 |  | PM10 | 6 days | 12.12 | 50 | µg/m³ |  |
| Monitoring Point 5 | 3/04/20 |  | PM10 | 6 days | 9.11 | 50 | µg/m³ |  |
| Monitoring Point 5 | 9/04/20 |  | PM10 | 6 days | 3.15 | 50 | µg/m³ |  |
| Monitoring Point 5 | 15/4/20 |  | PM10 | 6 days | 23.29 | 50 | µg/m³ |  |
| Monitoring Point 5 | 21/4/20 |  | PM10 | 6 days | 11.47 | 50 | µg/m³ |  |
| Monitoring Point 5 | 27/4/20 |  | PM10 | 6 days | 12.00 | 50 | µg/m³ |  |
| Monitoring Point 5 | 4/03/2020 |  | PM10 | 6 days | 19.71 | 50 | µg/m³ |  |
| Monitoring Point 5 | 10/03/2020 |  | PM10 | 6 days | 10.52 | 50 | µg/m³ |  |
| Monitoring Point 5 | 16/03/2020 |  | PM10 | 6 days | 11.29 | 50 | µg/m³ |  |
| Monitoring Point 5 | 22/03/2020 |  | PM10 | 6 days | 20.92 | 50 | µg/m³ |  |
| Monitoring Point 5 | 28/03/2020 |  | PM10 | 6 days | 7.37 | 50 | µg/m³ |  |
| Monitoring Point 5 | 2/02/20 |  | PM10 | 6 days | 44.15 | 50 | µg/m³ | Higher than average PM10 measurement attributed to the ambient poor air quality caused by the Currowan Bushfire |
| Monitoring Point 5 | 8/02/20 |  | PM10 | 6 days | 17.23 | 50 | µg/m³ | Currowan bushfire extinguished |
| Monitoring Point 5 | 14/02/20 |  | PM10 | 6 days | 19.01 | 50 | µg/m³ |  |
| Monitoring Point 5 | 20/02/20 |  | PM10 | 6 days | 13.50 | 50 | µg/m³ |  |
| Monitoring Point 5 | 26/02/20 |  | PM10 | 6 days | 21.21 | 50 | µg/m³ |  |
| Monitoring Point 5 | 3/01/20 |  | PM10 | 6 days | 48.96 | 50 | µg/m³ | Higher than average PM10 measurement attributed to the ambient poor air quality caused by the Currowan Bushfire south of the site during the month of January |
| Monitoring Point 5 | 9/01/20 |  | PM10 | 6 days | 18.84 | 50 | µg/m³ |
| Monitoring Point 5 | 15/01/20 |  | PM10 | 6 days | 39.81 | 50 | µg/m³ |
| Monitoring Point 5 | 21/01/20 |  | PM10 | 6 days | 30.50 | 50 | µg/m³ |
| Monitoring Point 5 | 27/01/20 |  | PM10 | 6 days | 30.50 | 50 | µg/m³ |
| Monitoring Point 5 | 4/12/19 |  | PM10 | 6 days | 28.82 | 50 | µg/m³ |  |
| Monitoring Point 5 | 10/12/19 |  | PM10 | 6 days | 70.23 | 50 | µg/m³ | Elevated PM10 measurement attributed to the ambient poor air quality caused by the Currowan Bushfire south of the site |
| Monitoring Point 5 | 16/12/19 |  | PM10 | 6 days | 28.70 | 50 | µg/m³ |  |
| Monitoring Point 5 | 22/12/19 |  | PM10 | 6 days | 33.27 | 50 | µg/m³ |  |
| Monitoring Point 5 | 28/12/19 |  | PM10 | 6 days | 36.60 | 50 | µg/m³ |  |
| Monitoring Point 5 | 28/11/19 |  | PM10 | 6 days | 52.35 | 50 | µg/m³ | Elevated PM10 measurement attributed to the ambient poor air quality caused by the Currowan Bushfire south of the site beginning 26/11/19 |
| Monitoring Point 5 | 22/11/19 |  | PM10 | 6 days | 35.12 | 50 | µg/m³ |  |
| Monitoring Point 5 | 16/11/19 |  | PM10 | 6 days | 17.65 | 50 | µg/m³ |  |
| Monitoring Point 5 | 10/11/19 |  | PM10 | 6 days | 7.37 | 50 | µg/m³ |  |
| Monitoring Point 5 | 4/11/19 |  | PM10 | 6 days | 15.09 | 50 | µg/m³ |  |
| Monitoring Point 5 | 29/10/19 |  | PM10 | 6 days | 35.29 | 50 | µg/m³ |  |
| Monitoring Point 5 | 23/10/19 |  | PM10 | 6 days | 16.70 | 50 | µg/m³ |  |
| Monitoring Point 5 | 17/10/19 |  | PM10 | 6 days | 10.93 | 50 | µg/m³ |  |
| Monitoring Point 5 | 11/10/19 |  | PM10 | 6 days | 4.04 | 50 | µg/m³ |  |
| Monitoring Point 5 | 5/10/19 |  | PM10 | 6 days | 4.63 | 50 | µg/m³ |  |
| Monitoring Point 5 | 29/09/19 |  | PM10 | 6 days | 11.05 | 50 | µg/m³ |  |
| Monitoring Point 5 | 23/09/19 |  | PM10 | 6 days | 24.48 | 50 | µg/m³ |  |
| Monitoring Point 5 | 17/09/19 |  | PM10 | 6 days | 7.25 | 50 | µg/m³ |  |
| Monitoring Point 5 | 11/09/19 |  | PM10 | 6 days | 11.05 | 50 | µg/m³ |  |
| Monitoring Point 5 | 5/09/19 |  | PM10 | 6 days | 13.37 | 50 | µg/m³ |  |
| Monitoring Point 5 | 30/08/19 |  | PM10 | 6 days | 3.86 | 50 | µg/m³ |  |
| Monitoring Point 5 | 24/08/19 |  | PM10 | 6 days | 12.44 | 50 | µg/m³ |  |
| Monitoring Point 5 | 18/08/19 |  | PM10 | 6 days | 11.69 | 50 | µg/m³ |  |
| Monitoring Point 5 | 12/08/19 |  | PM10 | 6 days | 3.69 | 50 | µg/m³ |  |
| Monitoring Point 5 | 6/08/19 |  | PM10 | 6 days | 8.95 | 50 | µg/m³ |  |
| Monitoring Point 5 | 31/07/19 |  | PM10 | 6 days | 0 | 50 | µg/m³ |  |
| Monitoring Point 5 | 25/07/19 |  | PM10 | 6 days | 13.73 | 50 | µg/m³ |  |
| Monitoring Point 5 | 19/07/19 |  | PM10 | 6 days | 9.38 | 50 | µg/m³ |  |
| Monitoring Point 5 | 13/07/19 |  | PM10 | 6 days | 4.75 | 50 | µg/m³ |  |
| Monitoring Point 5 | 7/07/19 |  | PM10 | 6 days | 6.83 | 50 | µg/m³ |  |
| Monitoring Point 5 | 1/07/19 |  | PM10 | 6 days | 31.08 | 50 | µg/m³ |  |
| Monitoring Point 5 | 25/06/19 |  | PM10 | 6 days | 21.87 | 50 | µg/m³ |  |
| Monitoring Point 5 | 19/06/19 |  | PM10 | 6 days | 6.18 | 50 | µg/m³ |  |
| Monitoring Point 5 | 13/06/19 |  | PM10 | 6 days | 30.97 | 50 | µg/m³ |  |
| Monitoring Point 5 | 7/06/19 |  | PM10 | 6 days | 9.45 | 50 | µg/m³ |  |
| Monitoring Point 5 | 1/06/19 |  | PM10 | 6 days | 15.92 | 50 | µg/m³ |  |
| Monitoring Point 5 | 31/5/19 |  | PM10 | 6 days | 15.92 | 50 | µg/m³ |  |
| Monitoring Point 5 | 26/5/19 |  | PM10 | 6 days | 14.8 | 50 | µg/m³ |  |
| Monitoring Point 5 | 20/5/19 |  | PM10 | 6 days | 22.4 | 50 | µg/m³ |  |
| Monitoring Point 5 | 14/5/19 |  | PM10 | 6 days | 16.76 | 50 | µg/m³ |  |
| Monitoring Point 5 | 8/5/19 |  | PM10 | 6 days | 11.65 | 50 | µg/m³ |  |
| Monitoring Point 5 | 2/5/19 |  | PM10 | 6 days | 34.46 | 50 | µg/m³ |  |
| Monitoring Point 5 | 26/4/19 |  | PM10 | 6 days | 19.96 | 50 | µg/m³ |  |
| Monitoring Point 5 | 20/4/19 |  | PM10 | 6 days | 12.18 | 50 | µg/m³ |  |
| Monitoring Point 5 | 14/4/19 |  | PM10 | 6 days | 14.56 | 50 | µg/m³ |  |
| Monitoring Point 5 | 8/4/19 |  | PM10 | 6 days | 25.91 | 50 | µg/m³ |  |
| Monitoring Point 5 | 2/4/19 |  | PM10 | 6 days | 10.70 | 50 | µg/m³ |  |
| Monitoring Point 5 | 27/3/19 |  | PM10 | 6 days | 16.82 | 50 | µg/m³ |  |
| Monitoring Point 5 | 21/3/19 |  | PM10 | 6 days | 10.64 | 50 | µg/m³ |  |
| Monitoring Point 5 | 15/3/19 |  | PM10 | 6 days | 14.91 | 50 | µg/m³ |  |
| Monitoring Point 5 | 9/3/19 |  | PM10 | 6 days | 22.58 | 50 | µg/m³ |  |
| Monitoring Point 5 | 3/3/19 |  | PM10 | 6 days | 11.53 | 50 | µg/m³ |  |
| Monitoring Point 5 | 26/2/19 |  | PM10 | 6 days | 16.93 | 50 | µg/m³ |  |
| Monitoring Point 5 | 20/2/19 |  | PM10 | 6 days | 26.15 | 50 | µg/m³ |  |
| Monitoring Point 5 | 13/2/19 |  | PM10 | 6 days | 16.04 | 50 | µg/m³ |  |
| Monitoring Point 5 | 7/2/19 |  | PM10 | 6 days | 16.46 | 50 | µg/m³ |  |
| Monitoring Point 5\* | 1/2/19 |  | PM10 | 6 days | 81.47 | 50 | µg/m³ | Regionally high ambient PM10 levels above air quality guidelines (>50 µg/m³ on 1/2/19). Elevated reading not attributed to Dunmore Quarry |
| Monitoring Point 5 | 26/1/19 |  | PM10 | 6 days | 37.20 | 50 | µg/m³ |  |
| Monitoring Point 5 | 20/1/19 |  | PM10 | 6 days | 15.81 | 50 | µg/m³ |  |
| Monitoring Point 5 | 14/1/19 |  | PM10 | 6 days | 30.42 | 50 | µg/m³ |  |
| Monitoring Point 5 | 8/1/19 |  | PM10 | 6 days | 25.55 | 50 | µg/m³ |  |
| Monitoring Point 5 | 2/1/19 |  | PM10 | 6 days | 22.64 | 50 | µg/m³ |  |
| Monitoring Point 5 | 27/12/18 |  | PM10 | 6 days | 30.60 | 50 | µg/m³ |  |
| Monitoring Point 5 | 21/12/18 |  | PM10 | 6 days | 11.23 | 50 | µg/m³ |  |
| Monitoring Point 5 | 15/12/18 |  | PM10 | 6 days | 20.95 | 50 | µg/m³ |  |
| Monitoring Point 5 | 9/12/18 |  | PM10 | 6 days | 24.36 | 50 | µg/m³ |  |
| Monitoring Point 5 | 3/12/18 |  | PM10 | 6 days | 14.38 | 50 | µg/m³ |  |
| Monitoring Point 5 | 27/11/18 |  | PM10 | 6 days | 26.44 | 50 | µg/m³ |  |
| Monitoring Point 5 | 21/11/18 |  | PM10 | 6 days | 19.01 | 50 | µg/m³ |  |
| Monitoring Point 5 | 15/11/18 |  | PM10 | 6 days | 6.18 | 50 | µg/m³ |  |
| Monitoring Point 5 | 9/11/18 |  | PM10 | 6 days | 16.82 | 50 | µg/m³ |  |
| Monitoring Point 5 | 3/11/18 |  | PM10 | 6 days | 24.24 | 50 | µg/m³ |  |
| Monitoring Point 5 | 28/10/18 |  | PM10 | 6 days | 7.90 | 50 | µg/m³ |  |
| Monitoring Point 5 | 22/10/18 |  | PM10 | 6 days | 17.47 | 50 | µg/m³ |  |
| Monitoring Point 5 | 16/10/18 |  | PM10 | 6 days | 29.00 | 50 | µg/m³ |  |
| Monitoring Point 5 | 10/10/18 |  | PM10 | 6 days | 10.43 | 50 | µg/m³ |  |
| Monitoring Point 5 | 04/9/18 |  | PM10 | 6 days | 12.67 | 50 | µg/m³ |  |
| Monitoring Point 5 | 10/9/18 |  | PM10 | 6 days | 12.67 | 50 | µg/m³ |  |
| Monitoring Point 5 | 16/9/18 |  | PM10 | 6 days | 11.71 | 50 | µg/m³ |  |
| Monitoring Point 5 | 22/9/18 |  | PM10 | 6 days | 12.24 | 50 | µg/m³ |  |
| Monitoring Point 5 | 28/9/18 |  | PM10 | 6 days | 36.06 | 50 | µg/m³ |  |
| Monitoring Point 5 | 04/10/18 |  | PM10 | 6 days | 36.06 | 50 | µg/m³ |  |
| Monitoring Point 5 | 11/8/18 |  | PM10 | 6 days | 13.07 | 50 | µg/m³ |  |
| Monitoring Point 5 | 17/8/18 |  | PM10 | 6 days | 10.46 | 50 | µg/m³ |  |
| Monitoring Point 5 | 23/8/18 |  | PM10 | 6 days | 4.81 | 50 | µg/m³ |  |
| Monitoring Point 5 | 29/8/18 |  | PM10 | 6 days | 5.46 | 50 | µg/m³ |  |
| Monitoring Point 5 | 6/7/18 |  | PM10 | 6 days | 6.36 | 50 | µg/m³ |  |
| Monitoring Point 5 | 12/7/18 |  | PM10 | 6 days | 3.57 | 50 | µg/m³ |  |
| Monitoring Point 5 | 18/7/18 |  | PM10 | 6 days | 25.79 | 50 | µg/m³ |  |
| Monitoring Point 5 | 24/7/18 |  | PM10 | 6 days | 5.11 | 50 | µg/m³ |  |
| Monitoring Point 5 | 30/7/18 |  | PM10 | 6 days | 20.02 | 50 | µg/m³ |  |
| Monitoring Point 5 | 5/8/18 |  | PM10 | 6 days | 6.00 | 50 | µg/m³ |  |
| Monitoring Point 5 | 6/6/18 |  | PM10 | 6 days | 3.98 | 50 | µg/m³ |  |
| Monitoring Point 5 | 12/6/18 |  | PM10 | 6 days | 4.40 | 50 | µg/m³ |  |
| Monitoring Point 5 | 18/6/18 |  | PM10 | 6 days | 2.73 | 50 | µg/m³ |  |
| Monitoring Point 5 | 24/6/18 |  | PM10 | 6 days | 2.25 | 50 | µg/m³ |  |
| Monitoring Point 5 | 30/6/18 |  | PM10 | 6 days | 2.73 | 50 | µg/m³ |  |
| Monitoring Point 5 | 1/5/18 |  | PM10 | 6 days | 16.40 | 50 | µg/m³ |  |
| Monitoring Point 5 | 7/5/18 |  | PM10 | 6 days | 20.26 | 50 | µg/m³ |  |
| Monitoring Point 5 | 13/5/18 |  | PM10 | 6 days | 6.36 | 50 | µg/m³ |  |
| Monitoring Point 5 | 19/5/18 |  | PM10 | 6 days | 6.00 | 50 | µg/m³ |  |
| Monitoring Point 5 | 25/5/18 |  | PM10 | 6 days | 7.78 | 50 | µg/m³ |  |
| Monitoring Point 5 | 31/4/18 |  | PM10 | 6 days | 0.77 | 50 | µg/m³ |  |
| Monitoring Point 5 | 7/4/18 |  | PM10 | 6 days | 17.71 | 50 | µg/m³ |  |
| Monitoring Point 5 | 13/4/18 |  | PM10 | 6 days | 28.64 | 50 | µg/m³ |  |
| Monitoring Point 5 | 19/4/18 |  | PM10 | 6 days | 29.89 | 50 | µg/m³ |  |
| Monitoring Point 5 | 25/4/18 |  | PM10 | 6 days | 5.86 | 50 | µg/m³ |  |
| Monitoring Point 5 | 2/3/18 |  | PM10 | 6 days | 17.74 | 50 | µg/m³ |  |
| Monitoring Point 5 | 8/3/18 |  | PM10 | 6 days | 17.74 | 50 | µg/m³ |  |
| Monitoring Point 5 | 14/3/18 |  | PM10 | 6 days | 19.13 | 50 | µg/m³ |  |
| Monitoring Point 5 | 20/3/18 |  | PM10 | 6 days | 19.85 | 50 | µg/m³ |  |
| Monitoring Point 5 | 26/3/18 |  | PM10 | 6 days | 3.62 | 50 | µg/m³ |  |
| Monitoring Point 5 | 1/4/18 |  | PM10 | 6 days | 31.79 | 50 | µg/m³ |  |
| Monitoring Point 5 | 31/1/18 |  | PM10 | 6 days | 30.90 | 50 | µg/m³ |  |
| Monitoring Point 5 | 6/2/18 |  | PM10 | 6 days | 15.09 | 50 | µg/m³ |  |
| Monitoring Point 5 | 12/2/18 |  | PM10 | 6 days | 18.66 | 50 | µg/m³ |  |
| Monitoring Point 5 | 18/2/18 |  | PM10 | 6 days | 29.35 | 50 | µg/m³ |  |
| Monitoring Point 5 | 24/2/18 |  | PM10 | 6 days | 33.27 | 50 | µg/m³ |  |
| Monitoring Point 5 | 07/01/18 |  | PM10 | 6 days | 32.32 | 50 | µg/m³ |  |
| Monitoring Point 5 | 13/01/18 |  | PM10 | 6 days | 7.05 | 50 | µg/m³ |  |
| Monitoring Point 5 | 19/01/18 |  | PM10 | 6 days | 32.20 | 50 | µg/m³ |  |
| Monitoring Point 5 | 25/01/18 |  | PM10 | 6 days | 16.16 | 50 | µg/m³ |  |
| Further Historical monitoring data relating to PM10 can be found in the associated Annual Reviews for each year. Location of the Dunmore Quarry Annual Reviews can be found at <https://www.boral.com.au/locations/boral-dunmore-operations> | | | | | | | | |

**Blasting**

Blast monitoring is conducted as per condition L4 of EPL 77. The blasting monitoring results for the reporting period is summarised below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sample Period: | March 2022 |  |  |  |  |  |
| Licensee: | Dunmore Quarry |  |  |  |  |  |
| Licensee Address: | Princes Hwy, Dunmore NSW 2529 | | | |  |  |
| EPL No: | 77 |  | |  |  |  |
|  |  |  |  |  |  |  |
| **Qualifications related to noise:** | |  |  |  |  |  |
| \* The overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time | | | | | | |
| \* The overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) for more than 5% of the total number of blasts over each reporting period | | | | | | |
| \* Ground vibration peak particle vector from the blasting operations at the premises must not exceed 10mm/sec at any time | | | | | | |
| \* Ground vibration peak particle vector from the blasting operations at the premises must not exceed 5mm/sec for more than 5% of the total number of blasts over each reporting period | | | | | | |
| \* Blast monitoring overpressure and ground vibration is currently measured at the Benny Property. Prior to the 20th of February 2018 blast monitoring had been undertaken at the MacParland Residence.  \* **A reading denoted as “No Trigger” means that the recorded value was below the measuring sensitivity of the instrument and therefore deemed compliant with limits**. | | | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Monitoring Location** | **Blast Date** | **Results Received** | **Time** | **Ground Vibration (mm/s)** | **Overpressure (dBL)** | **Compliant** | **Comments** |
| Benny Residence | No blasting occurred during the month of March |  |  |  |  | Y | Instrument set to a sensitivity of 88.0dbL for Overpressure and 0mm/s for Vibration |

**Historical Data**

| **Monitoring Location** | **Blast Date** | **Results Received** | **Time** | **Ground Vibration (mm/s)** | **Overpressure**  **(dBL)** | **Compliant** | **Comments** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Benny Residence | 21-Feb-22 | 15-Mar-22 | 11:06 | No Trigger | No Trigger | Y | Instrument set to a sensitivity of 88.0dbL for Overpressure and 0mm/s for Vibration |
| Benny Residence | 22-Dec-22 | 22-Dec-22 | 13:16 | No Trigger | No Trigger | Y | Instrument set to a sensitivity of 88.0dbL for Overpressure and 0mm/s for vibration |
| Benny Residence | 01-Dec-21 | 01-Dec-21 | 14:41 | No Trigger | No Trigger | Y | Instrument set to a sensitivity of 88.0dbL for Overpressure and 0mm/s for Vibration |
| Benny Residence | 17-Nov-21 | 17-Nov-21 | 14:09 | No Trigger | No Trigger | Y | Instrument set to a sensitivity of 88.0dbL for Overpressure and 0mm/s for vibration |
| Benny Residence | 22-Oct-21 | 22-Oct-21 | 12:11 | No Trigger | No Trigger | Y | Instrument set to a sensitivity of 88.0dbL for Overpressure and 0mm/s for vibration |
| Benny Residence | 20-Sept-21 | 20-Sept-21 | 12:03 | No Trigger | No Trigger | Y | Instrument set to a sensitivity of 88.0dbL for Overpressure and 0mm/s for vibration |
| Benny Residence | 01-Sept-21 | 01-Sept-21 | 13:29 | No Trigger | No Trigger | Y | Instrument set to a sensitivity of 88.0dbL for Overpressure and 0mm/s for vibration |
| Benny Residence | 09-Aug-21 | 09-Aug-21 | 13:04 | No Trigger | No Trigger | Y | Instrument set to a sensitivity of 88.0dbL for Overpressure and 0mm/s for vibration |
| Benny Residence | 03-Jun-21 | 03-Jun-21 | 15:05 | 0.60 | 101.9 | Y |  |
| Benny Residence | 09-Jun-21 | 09-Jun-21 | 15:01 | 0.80 | 99.5 | Y |  |
| Benny Residence | 10-May-21 | 10-May-21 | 13:49 | No Trigger | No Trigger | Y |  |
| Benny Residence | 19-May-21 | 19-May-21 | 12:43 | No Trigger | No Trigger | Y |  |
| Benny Residence | 14-Apr-21 | 14-Apr-21 | 13:49 | No Trigger | No Trigger | Y |  |
| Benny Residence | 21-Apr-21 | 21-Apr-21 | 12:46 | 0.70 | 95.9 | Y |  |
| Benny Residence | 10-Mar-21 | 10-Mar-21 | 14:29 | 1.30 | 109.9 | Y |  |
| Benny Residence | 29-Mar-21 | 29-Mar-21 | 15:07 | 1.10 | 101.0 | Y |  |
| Benny Residence | 03-Feb-21 | 03-Feb-21 | 3:09 | 0.80 | 102.8 | Y |  |
| Benny Residence | 10-Feb-21 | 10-Feb-21 | 13:50 | 0.80 | 102.8 | Y |  |
| Benny Residence | 17-Feb-21 | 17-Feb-21 | 13:10 | 0.70 | 100.0 | Y |  |
| Benny Residence | 24-Feb-21 | 24-Feb-21 | 9:52 | No Trigger | No Trigger | Y |  |
| Benny Residence | 29-Jan-21 | 29-Jan-21 | 12:59 | No Trigger | No Trigger | Y |  |
| Benny Residence | 20-Jan-21 | 20-Jan-21 | 12:48 | No Trigger | No Trigger | Y |  |
| Benny Residence | 13-Jan-21 | 13-Jan-21 | 12:59 | 0.50 | 102.8 | Y |  |
| Benny Residence | 09-Dec-20 | 09-Dec-20 | 14:32 | 0.70 | 98.8 | Y |  |
| Benny Residence | 25-Nov-20 | 25-Nov-20 | 12:45 | No Trigger | 106.7 | Y |  |
| Benny Residence | 18-Nov-20 | 18-Nov-20 | 14:48 | 0.80 | 106.5 | Y |  |
| Benny Residence | 04-Nov-20 | 04-Nov-20 | 12:23 | No Trigger | 101.0 | Y |  |
| Benny Residence | 28-Oct-20 | 28-Oct-20 | 14:40 | 0.50 | 103.5 | Y |  |
| Benny Residence | 21-Oct-20 | 21-Oct-20 | 14:59 | 3.60 | 103.0 | Y |  |
| Benny Residence | 14-Oct-20 | 14-Oct-20 | 12:10 | 2.00 | 109.3 | Y |  |
| Benny Residence | 28-Sep-20 | 28-Sep-20 | 14:32 | 1.00 | 101.0 | Y |  |
| Benny Residence | 23-Sep-20 | 23-Sep-20 | 12:33 | 0.50 | 100.0 | Y |  |
| Benny Residence | 16-Sep-20 | 16-Sep-20 | 12:15 | 0.60 | 105.5 | Y |  |
| Benny Residence | 09-Sep-20 | 09-Sep-20 | 14:26 | 0.90 | 101.9 | Y |  |
| Benny Residence | 02-Sep-20 | 02-Sep-20 | 12:09 | 0.30 | 103.8 | Y |  |
| Benny Residence | 31-Aug-20 | 31-Aug-20 | 12:12 | 1.80 | No Trigger | Y |  |
| Benny Residence | 26-Aug-20 | 26-Aug-20 | 14:28 | No Trigger | No Trigger | Y |  |
| Benny Residence | 12-Aug-20 | 12-Aug-20 | 13:12 | 0.10 | 101.2 | Y |  |
| Benny Residence | 05-Aug-20 | 05-Aug-20 | 14:43 | 3.10 | 100.8 | Y |  |
| Benny Residence | 24/07/2020 | 24/07/2020 | 12:24 | 2.20 | 106.4 | Y |  |
| Benny Residence | 20/07/2020 | 20/07/2020 | 15:03 | 0.60 | 102.8 | Y |  |
| Benny Residence | 13/07/2020 | 13/07/2020 | 13:12 | 2.20 | 102.3 | Y |  |
| Benny Residence | 8/07/2020 | 8/07/2020 | 13:08 | 1.45 | 101 | Y |  |
| Benny Residence | 1/07/2020 | 1/07/2020 | 13:11 | No Trigger | 102.3 | Y |  |
| Benny Residence | 24/06/20 | 24/06/2020 | 13:29 | No Trigger | No Trigger | Y |  |
| Benny Residence | 15/06/2020 | 15/06/2020 | 14:26 | 5.83 | 106.6 | Y | The seed wave from the site law was inputted into a regression analysis via a Monte Carlo model on SHOTPlus™, used the B value (attenuation) and P-wave established from the site law and calibrated the K value to predict the modelled reading of 5.83 mm/s with a standard deviation of 0.52mm/s.  It is expected that over 20 blasts will be undertaken in the reporting period, hence the ground vibration measurement is deemed to be compliant to 95th percentile limits |
| Benny Residence | 27-May-20 | 27-May-20 | 13:49 | 3.50 | 104.8 | Y |  |
| Benny Residence | 08-Apr-20 | 08-Apr-20 | 16:02 | 1.55 | 116.3 | Y | It is expected that over 20 blasts will be undertaken in the reporting period, hence the airblast overpressure is deemed to be compliant to 95th percentile limits |
| Benny Residence | 18-Mar-20 | 18-Mar-20 | 12:40 | 2.55 | 94.2 | Y |  |
| Benny Residence | 09-Mar-20 | 09-Mar-20 | 13:45 | 1.71 | 111.4 | Y |  |
| Benny Residence | 26/02/2020 | 26/02/2020 | 12:23 | 2.15 | 104.9 | Y |  |
| Benny Residence | 19/02/2020 | 19/02/2020 | 12:55 | 1.64 | 97.7 | Y |  |
| Benny Residence | 5/02/2020 | 5/02/2020 | 13:21 | 4.25 | 98.2 | Y | The seed wave from the site law was inputted into a regression analysis via a Monte Carlo model on SHOTPlus™, used the B value (attenuation) and P-wave established from the site law and calibrated the K value to predict the modelled reading of 4.25 mm/s with a standard deviation of 0.52mm/s. |
| Benny Residence | 15/01/2020 | 15/01/2020 | 12:22 | 0.89 | 102.5 | Y |  |
| Benny Residence | 11/12/2019 | 11/12/2019 | 12:15 | 2.70 | 100.0 | Y |  |
| Benny Residence | 04/12/2019 | 04/12/2019 | 12:35 | 3.40 | 108.0 | Y |  |
| Benny Residence | 21/11/2019 | 16/10/2019 | 9:22 | 3.52 | 107.7 | Y |  |
| Benny Residence | 6/11/2019 | 2/10/2019 | 12:17 | 2.93 | 102.4 | Y |  |
| Benny Residence | 30/10/2019 | 30/10/2019 | 10:55 | 0.82 | 110.2 | Y |  |
| Benny Residence | 28/10/2019 | 28/10/2019 | 12:18 | 1.97 | 101.7 | Y |  |
| Benny Residence | 16/10/2019 | 16/10/2019 | 12:59 | 3.73 | 98.2 | Y |  |
| Benny Residence | 2/10/2019 | 2/10/2019 | 15:25 | 1.54 | 106.8 | Y |  |
| Benny Residence | 25/09/2019 | 25/09/2019 | 13:33 | 2.83 | 100.2 | Y |  |
| Benny Residence | 04/09/2019 | 04/09/2019 | 12:35 | 1.27 | 100.8 | Y |  |
| Benny Residence | 06-Aug-19 | 06-Aug-19 | 14:20 | 2.26 | 101.1 | Y |  |
| Benny Residence | 23-Jul-19 | 23-Jul-19 | 12:14 | 1.85 | 97.2 | Y |  |
| Benny Residence | 17-Jul-19 | 17-Jul-19 | 12:17 | 3.19 | 99.5 | Y |  |
| Benny Residence | 10-Jul-19 | 10-Jul-19 | 14:58 | 4.95 | 98.5 | Y |  |
| Benny Residence | 26-Jun-19 | 26-Jun-19 | 12:02 | 1.54 | 98.6 | Y |  |
| Benny Residence | 19-Jun-19 | 19-Jun-19 | 12:51 | 1.01 | 102.9 | Y |  |
| Benny Residence | 05-Jun-19 | 05-Jun-19 | 13:26 | 2.14 | 102.9 | Y |  |
| Benny Residence | 29/05/2019 | 29/05/2019 | 9:21 | 2.54 | 104.6 | Y |  |
| Benny Residence | 15/05/2019 | 15/05/2019 | 12:18 | 0.3 | 97.1 | Y |  |
| Benny Residence | 17/04/2019 | 17/04/2019 | 13:26 | 1.37 | 103.9 | Y |  |
| Benny Residence | 3/04/2019 | 3/04/2019 | 13:04 | 2.6 | 99.1 | Y |  |
| Benny Residence | 13/03/2019 | 13/03/2019 | 14:44 | 2.9 | 101.6 | Y |  |
| Benny Residence | 4/03/2019 | 4/03/2019 | 12:26 | 3.8 | 98.4 | Y |  |
| Benny Residence | 20-Feb-19 | 20-Feb-19 | 10:56 | No Trigger | 101.0 | Y |  |
| Benny Residence | 13-Feb-19 | 13-Feb-19 | 12:13 | No Trigger | No Trigger | Y |  |
| Benny Residence | 06-Feb-19 | 06-Feb-19 | 13:45 | 0.30 | 94.0 | Y |  |
| Benny Residence | 31-Jan-19 | 31-Jan-10 | 12:20 | 4.20 | 101.0 | Y |  |
| Benny Residence | 23-Jan-19 | 23-Jan-19 | 13:05 | 2.70 | 101.0 | Y |  |
| Benny Residence | 16-Jan-19 | 16-Jan-19 | 12:20 | 3.10 | No Trigger | Y |  |
| Benny Residence | 12-Dec-18 | 12-Dec-18 | 12:34 | 2.30 | 101.3 | Y |  |
| Benny Residence | 06-Dec-18 | 06-Dec-18 | 14:28 | 2.00 | 101.3 | Y |  |
| Benny Residence | 22-Nov-18 | 22-Nov-18 | 12:34 | 2.80 | 101.9 | Y |  |
| Benny Residence | 01-Nov-18 | 01-Nov-18 | 15:06 | 1.70 | 100 | Y |  |
| Benny Residence | 17-Oct-18 | 17-Oct-18 | 14:04 | 1.90 | 104.9 | Y |  |
| Benny Residence | 10-Oct-18 | 10-Oct-18 | 12:38 | 1.14 | 112.3 | Y |  |
| Benny Residence | 20-Sept-18 | 20-Sept-18 | 9:20 | 1.78 | 100 | Y |  |
| Benny Residence | 29-Aug-18 | 29-Aug-18 | 12:51 | 3.56 | 100 | Y |  |
| Benny Residence | 23-Aug-18 | 23-Aug-18 | 12:16 | 1.14 | 101.9 | Y |  |
| Benny Residence | 8-Aug-18 | 8-Aug-18 | 13:05 | 1.14 | 97.5 | Y |  |
| Benny Residence | 25-Jul-18 | 25-Jul-18 | 15:13 | 1.52 | 106 | Y |  |
| Benny Residence | 11-Jul-18 | 11-Jul-18 | 14:38 | 1.52 | 97.5 | Y |  |
| Benny Residence | 4-Jul-18 | 4-Jul-18 | 14:31 | 1.02 | 94 | Y |  |
| Benny Residence | 20-Jun-18 | 20-Jun-18 | 14:03 | 1.4 | 100 | Y |  |
| Benny Residence | 14-Jun-18 | 14-Jun-18 | 9:30 | 1.4 | 104.2 | Y |  |
| Benny Residence | 8-Jun-18 | 8-Jun-18 | 9:16 | 1.65 | 103.5 | Y |  |
| Benny Residence | 31-May-18 | 31-May-18 | 9:31 | 1.016 | 95.9 | Y |  |
| Benny Residence | 17-May-18 | 17-May-18 | 9:45 | 1.14 | 101.9 | Y |  |
| Benny Residence | 9-May-18 | 9-May-18 | 13:31 | No Trigger | No Trigger | Y |  |
| Benny Residence | 2-May-18 | 2-May-18 | 13:49 | 0.76 | 101 | Y |  |
| Benny Residence | 27-Apr-18 | 27-Apr-18 | 11:11 | No Trigger | No Trigger | Y |  |
| Benny Residence | 18-Apr-18 | 18-Apr-18 | 13:23 | 1.02 | 100 | Y |  |
| Benny Residence | 11-Apr-18 | 11-Apr-18 | 13:08 | 2.03 | 106.5 | Y |  |
| Benny Residence | 4-Apr-18 | 4-Apr-18 | 9:08 | 0.762 | 97.5 | Y |  |
| Benny Residence | 26-Mar-18 | 26-Mar-18 | 13:29 | 2.29 | 95.9 | Y |  |
| Benny Residence | 14-Mar-18 | 14-Mar-18 | 14:05 | 4.83 | 97.5 | Y |  |
| Benny Residence | 7-Mar-18 | 7-Mar-18 | 15:01 | 1.9 | 97.5 | Y |  |
| Benny Residence | 28-Feb-18 | 28-Feb-18 | 12:22 | 4.32 | 95.9 | Y |  |
| Benny Residence | 27-Feb-18 | 27-Feb-18 | 14:13 | 5.59 | 98.8 | Y |  |
| Benny Residence | 21-Feb-18 | 21-Feb-18 | 13:45 | 3.15 | 110.9 | Y |  |
| McParland | 14-Feb-18 | 14-Feb-18 | 14:56 | 3.56 | 117.4 | Y |  |
| McParland | 7-Feb-18 | 7-Feb-18 | 12:25 | 2.29 | 105.5 | Y |  |
| McParland | 7-Feb-18 | 7-Feb-18 | 12:25 | 2.29 | 105.5 | Y |  |
| McParland | 2-Feb-18 | 2-Feb-18 | 12:14 | 3.43 | 106 | Y |  |
| McParland | 2-Feb-18 | 2-Feb-18 | 12:14 | 3.43 | 106 | Y |  |
| McParland | 29-Jan-18 | 29-Jan-18 | 14:50 | 4.83 | 112 | Y |  |
| McParland | 23-Jan-18 | 23-Jan-18 | 10:47 | 0.51 | 102.8 | Y |  |
| McParland | 17-Jan-18 | 17-Jan-18 | 13:27 | 2.16 | 110.6 | Y |  |
| McParland | 10-Jan-18 | 10-Jan-18 | 13:48 | 1.52 | 112.6 | Y |  |
| McParland | 20-Dec-17 | 20-Dec-17 | 13:15 | 1.65 | 107.5 | Y |  |
| McParland | 13-Dec-17 | 13-Dec-17 | 9:41 | 2.67 | 107.5 | Y |  |
| Further Historical monitoring data relating to blasting can be found in the associated Annual Reviews for each year. Location of the Dunmore Quarry Annual Reviews can be found at <https://www.boral.com.au/locations/boral-dunmore-operations> | | | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Blast Monitoring Results - Corrections Log  Details of corrections made to published data due to incorrect or misleading data3.7.7 | | | | | |
| Date of data (sample date) | Old published data | Correct updated data | Reason for Update/Correction | Update Person | Date corrected data published |
| 16/02/2020 | 5.37mm/s | Result correct. Comment added | Comments section updated to inform the regression analysis of the measured value at the Benny Residence. The Benny monitor is located 140m away from the residence. The seed wave from the site law was inputted into a regression analysis via a Monte Carlo model on SHOTPlus™, used the B value (attenuation) and P-wave established from the site law and calibrated the K value to predict the modelled reading of 4.25 mm/s with a standard deviation of 0.52mm/s. | BW | 28/08/2020 |

**Water Monitoring**

Water Quality Monitoring is conducted as per condition M2.3 of EPL 77. The water quality results for the reporting period are tabled below.

|  |  |  |
| --- | --- | --- |
| Sample Period: | February 2022 |  |
| Licensee: | Dunmore Quarry |  |
| Licensee Address: | Princes Hwy, Dunmore NSW 2529 | | | |
| EPL No: | 77 |  | |
|  |  |  |
| **Qualifications related to Water** | |  |
| \* Sampling only required at Monitoring points #6, #7, #10 during discharge from site. ND denotes no discharge. NV denotes not visible. | | | | |

| **Location** | **Date Received** | **Monitoring Frequency** | **Pollutant** | **Measurement** | **Unit** | **Comments** |
| --- | --- | --- | --- | --- | --- | --- |
| **February 2022** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm | No controlled discharge initiated |
| Daily during discharge | Flow | ND | KL/day |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 | 31/03/22 | Daily during discharge | Conductivity | 438 | µS/cm | Sampling undertaken on 28/02/2022 in response to uncontrolled discharge from Middle Dam and Lower Dam |
| Daily during discharge | Oil and Grease | <0.1 | mg/L |
| Daily during discharge | pH | 7.9 | pH |
| Daily during discharge | Total Suspended Solids | 195 | mg/L |
| Daily during discharge | Turbidity | 252 | NTU |
| Monitoring Point 9 | 31/03/22 | Daily during discharge | Conductivity | 222 | µS/cm | Sampling undertaken on 28/02/2022 in response to uncontrolled discharge from Middle Dam and Lower Dam |
| Daily during discharge | Oil and Grease | <0.1 | mg/L |
| Daily during discharge | pH | 6.9 | pH |
| Daily during discharge | Total Suspended Solids | 15 | mg/L |
| Daily during discharge | Turbidity | 10 | NTU |
| Monitoring Point 10 | 31/03/22 | Daily during discharge | Conductivity | 590 | µS/cm | Sampling undertaken on 28/02/2022 in response to uncontrolled discharge from Middle Dam and Lower Dam |
| Daily during discharge | Oil and Grease | <0.1 | mg/L |
| Daily during discharge | pH | 8.2 | pH |
| Daily during discharge | Total Suspended Solids | 23 | mg/L |
| Daily during discharge | Turbidity | 42 | NTU |
|  | | | | | | |
| Monitoring Point 6 | 31/03/22 | Daily during discharge | Conductivity | ND | µS/cm | No controlled discharge initiated |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 | 31/03/22 | Daily during discharge | Conductivity | 375 | µS/cm | Sampling undertaken on 27/02/2022 in response to uncontrolled discharge EPL8 sampled instead of EPL7 which was inaccessible. |
| Daily during discharge | Oil and Grease | <0.1 | mg/L |
| Daily during discharge | pH | 7.9 | pH |
| Daily during discharge | Total Suspended Solids | 103 | mg/L |
| Daily during discharge | Turbidity | 218 | NTU |
| Monitoring Point 9 | 31/03/22 | Daily during discharge | Conductivity | 222 | µS/cm | Sampling undertaken on 27/02/2022 in response to uncontrolled discharge from Middle Dam and Lower Dam |
| Daily during discharge | Oil and Grease | <0.1 | mg/L |
| Daily during discharge | pH | 6.9 | pH |
| Daily during discharge | Total Suspended Solids | 15 | mg/L |
| Daily during discharge | Turbidity | 10 | NTU |
| Monitoring Point 10 | 31/03/22 | Daily during discharge | Conductivity | 590 | µS/cm | Sampling undertaken on 27/02/2022 in response to uncontrolled discharge |
| Daily during discharge | Oil and Grease | <0.1 | mg/L |
| Daily during discharge | pH | 8.2 | pH |
| Daily during discharge | Total Suspended Solids | 11 | mg/L |
| Daily during discharge | Turbidity | 39 | NTU |
|  | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm | No controlled discharge initiated |
| Daily during discharge | Flow | ND | KL/day |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 | 31/03/22 | Daily during discharge | Conductivity | 218 | µS/cm | Monthly monitoring combined with uncontrolled discharge monitoring on 24/02/2022 after high rainfall event |
| Daily during discharge | Oil and Grease | <0.1 | mg/L |
| Daily during discharge | pH | 6.9 | pH |
| Daily during discharge | Total Suspended Solids | 32 | mg/L |
| Daily during discharge | Turbidity | 16 | NTU |
| Monitoring Point 8 | 31/03/22 | Monthly | Conductivity | 358 | µS/cm | Monthly monitoring combined with uncontrolled discharge monitoring on 24/02/2022 after high rainfall event |
| Monthly | Oil and Grease | <0.1 | mg/L |
| Monthly | pH | 8.0 | pH |
| Monthly | Total Suspended Solids | 67 | mg/L |
| Monthly | Turbidity | 370 | NTU |
| Monitoring Point 10 | 31/03/22 | Daily during discharge | Conductivity | 623 | µS/cm | Monthly monitoring combined with uncontrolled discharge monitoring on 24/02/2022 after high rainfall event |
| Daily during discharge | Oil and Grease | <0.1 | mg/L |
| Daily during discharge | pH | 8.3 | pH |
| Daily during discharge | Total Suspended Solids | 6 | mg/L |
| Daily during discharge | Turbidity | 2.6 | NTU |
| Between 22nd and 28th February 2022, 215.2 mm of rainfall was recorded by the site weather station, with 148.2mm being recorded between the 23rd and 25th February. There was regional flooding associated with this rainfall event. This rainfall was well in excess of the design capacity of the Lower Dam which can hold a 5 day 95th percentile of 90.7mm as referenced in Schedule 4 Condition 30. As a result, the Lower Dam overflowed at the constructed spillway at EPL 7 as uncontrolled discharge on 24th, 27th and 28th February 2022.  The immediate vicinity of the spillway had elevated measured total suspended solids (TSS). At the downstream water quality monitoring point GS-3/EPL9, TSS results were low and very similar to upstream values indicating that any impacts from the overflow was minimal. The lower dam spillway is surrounded by reeds and riparian zones which rapidly remove any suspended solids from floodwaters. | | | | | | |

**Historical Data**

| **Location** | **Date Received** | **Monitoring Frequency** | **Pollutant** | **Measurement** | **Unit** | **Comments** |
| --- | --- | --- | --- | --- | --- | --- |
| **January 2022** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Flow | ND | KL/day |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 | 08/03/22 | Monthly | Conductivity | 508 | µS/cm | Monthly monitoring 24/01/22 |
| Monthly | Oil and Grease | 0.7 | mg/L |
| Monthly | pH | 8.1 | pH |
| Monthly | Total Suspended Solids | 51 | mg/L |
| Monthly | Turbidity | 110 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| **December 2021** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Flow | ND | KL/day |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 | 17/01/22 | Monthly | Conductivity | 529 | µS/cm | Monthly monitoring 10/12/21 |
| Monthly | Oil and Grease | 0.4 | mg/L |
| Monthly | pH | 8.1 | pH |
| Monthly | Total Suspended Solids | 215 | mg/L |
| Monthly | Turbidity | 230 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| **November 2021** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Flow | ND | KL/day |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 | 23/12/21 | Monthly | Conductivity | 533 | µS/cm | Monthly monitoring 23/11/21 |
| Monthly | Oil and Grease | 0.2 | mg/L |
| Monthly | pH | 8.2 | pH |
| Monthly | Total Suspended Solids | 83 | mg/L |
| Monthly | Turbidity | 140 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| **October 2021** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Flow | ND | KL/day |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 | 2/12/21 | Monthly | Conductivity | 664 | µS/cm | Monthly monitoring 26/10/21 |
| Monthly | Oil and Grease | 0.2 | mg/L |
| Monthly | pH | 8.1 | pH |
| Monthly | Total Suspended Solids | 34 | mg/L |
| Monthly | Turbidity | 80 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| **September 2021** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Flow | ND | KL/day |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 | 21/10/21 | Monthly | Conductivity | 580 | µS/cm | Monthly Monitoring 22/09/21 |
| Monthly | Oil and Grease | 0.1 | mg/L |
| Monthly | pH | 8.1 | pH |
| Monthly | Total Suspended Solids | 40 | mg/L |
| Monthly | Turbidity | 36 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| **August 2021** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Flow | ND | KL/day |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 | 20/9/21 | Monthly | Conductivity | 257 | µS/cm | Monthly sampling 25/8/21 |
| Monthly | Oil and Grease | 0.3 | mg/L |
| Monthly | pH | 6.6 | pH |
| Monthly | Total Suspended Solids | 50 | mg/L |
| Monthly | Turbidity | 65 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| **July 2021** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 | 24/8/21 | Monthly | Conductivity | 645 | µS/cm | Monthly monitoring 30/7/21 |
|  | Monthly | Oil and Grease | 0.2 | mg/L |
|  | Monthly | pH | 8.1 | pH |
|  | Monthly | Total Suspended Solids | 20 | mg/L |
|  | Monthly | Turbidity | 30 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **June 2021** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Flow | ND | KL/day |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 | 13/7/21 | Monthly | Conductivity | 7.9 | µS/cm | Monthly monitoring 29/6/21 |
| Monthly | Oil and Grease | <0.1 | mg/L |
| Monthly | pH | 7.9 | pH |
| Monthly | Total Suspended Solids | 27 | mg/L |
| Monthly | Turbidity | 60 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| **May 2021** | | | | | | |
| Monitoring Point 6 | 14/5/21 | Daily during discharge | Conductivity | ND | µS/cm | No controlled discharge initiated |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 | 14/5/21 | Daily during discharge | Conductivity | 484 | µS/cm | Sampling undertaken 6/5/21 in response to uncontrolled discharge |
|  | Daily during discharge | Oil and Grease | <0.1 | mg/L |
|  | Daily during discharge | pH | 7.9 | pH |
|  | Daily during discharge | Total Suspended Solids | 192 | mg/L |
|  | Daily during discharge | Turbidity | 280 | NTU |
| Monitoring Point 9 | 14/5/21 | Daily during discharge | Conductivity | 422 | µS/cm | Sampling undertaken 6/5/21 Downstream water quality monitoring |
|  | Daily during discharge | Oil and Grease | <0.1 | mg/L |
|  | Daily during discharge | pH | 7.1 | pH |
|  | Daily during discharge | Total Suspended Solids | 22 | mg/L |
|  | Daily during discharge | Turbidity | 20 | NTU |
| Monitoring Point 10 | 14/5/21 | Daily during discharge | Conductivity | ND | µS/cm | No discharge from Middle Dam |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
|  | | | | | | |
| Monitoring Point 6 | 14/5/21 | Daily during discharge | Conductivity | ND | µS/cm | No controlled discharge initiated |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 | 14/5/21 | Daily during discharge | Conductivity | 423 | µS/cm | Sampling undertaken 7/5/21 in response to uncontrolled discharge |
|  | Daily during discharge | Oil and Grease | <0.1 | mg/L |
|  | Daily during discharge | pH | 7.7 | pH |
|  | Daily during discharge | Total Suspended Solids | 402 | mg/L |
|  | Daily during discharge | Turbidity | 550 | NTU |
| Monitoring Point 9 | 14/5/21 | Daily during discharge | Conductivity | 141 | µS/cm | Sampling undertaken 7/5/21 Downstream water quality monitoring |
|  | Daily during discharge | Oil and Grease | <0.1 | mg/L |
|  | Daily during discharge | pH | 6.6 | pH |
|  | Daily during discharge | Total Suspended Solids | 5.0 | mg/L |
|  | Daily during discharge | Turbidity | 18 | NTU |
| Monitoring Point 10 | 14/5/21 | Daily during discharge | Conductivity | ND | µS/cm | No discharge from Middle Dam |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
|  | | | | | | |
| Monitoring Point 6 | 15/4/21 | Daily during discharge | Conductivity | ND | µS/cm | No controlled discharge initiated |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 | 15/4/21 | Daily during discharge | Conductivity | 316 | µS/cm | Sampling undertaken 7/5/21 in response to uncontrolled discharge |
|  | Daily during discharge | Oil and Grease | <0.1 | mg/L |
|  | Daily during discharge | pH | 7.4 | pH |
|  | Daily during discharge | Total Suspended Solids | 125 | mg/L |
|  | Daily during discharge | Turbidity | 200 | NTU |
| Monitoring Point 9 | 15/4/21 | Daily during discharge | Conductivity | 184 | µS/cm | Sampling undertaken 7/5/21 Downstream water quality monitoring |
|  | Daily during discharge | Oil and Grease | <0.1 | mg/L |
|  | Daily during discharge | pH | 6.8 | pH |
|  | Daily during discharge | Total Suspended Solids | 3 | mg/L |
|  | Daily during discharge | Turbidity | 12 | NTU |
| Monitoring Point 10 | 15/4/21 | Daily during discharge | Conductivity | ND | µS/cm | No discharge from Middle Dam |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
|  | | | | | | |
| Monitoring Point 6 | 21/5/21 | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 | 21/5/21 | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 | 21/5/21 | Monthly | Conductivity | 596 | µS/cm | Monthly Monitoring undertaken 31/5/21 |
|  | Monthly | Oil and Grease | <0.1 | mg/L |
|  | Monthly | pH | 8.0 | pH |
|  | Monthly | Total Suspended Solids | 48 | mg/L |
|  | Monthly | Turbidity | 70 | NTU |
| Monitoring Point 10 | 21/5/21 | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Starting on 5 May 2021, 185.88 mm of rain fell within a 3 day period up until 7 May 2021 leading to wide ranging flooding throughout the region. This rainfall was well in excess of the design capacity of the Lower Dam which can hold a 5 day 95th percentile of 90.7mm as referenced in Schedule 4 Condition 30. As a result, the Lower Dam overflowed at the constructed spillway at EPL 7 as uncontrolled discharge on 5, 6 and 7 May 2021.  The immediate vicinity of the spillway and downstream edge of the mixing zone had elevated measured total suspended solids (TSS). At the downstream water quality monitoring point GS-3/EPL9, TSS results were very similar to upstream values indicating that any impacts from the overflow was minimal. The lower dam spillway is surrounded by reeds and riparian zones which rapidly remove any suspended solids from floodwaters.  These results confirm the observations that elevated TSS was isolated to the immediate vicinity Lower Dam and the immediate mixing zone of the floodwaters from Rocklow Creek. **No breach of consent condition occurred as the rainfall event was outside of the design capacity of the dam as denoted by S4.C30. No complaints were received and TSS levels were at or below upstream values at the downstream monitoring point.**  This information will be reported in the Dunmore Quarry Annual Review. | | | | | | |
| **April 2021** | | | | | | |
| Monitoring Point 6 | 21/5/21 | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 | 21/5/21 | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 | 21/5/21 | Monthly | Conductivity | 632 | µS/cm | Monthly monitoring 28/4/21 |
|  | Monthly | Oil and Grease | <0.1 | mg/L |
|  | Monthly | pH | 8.1 | pH |
|  | Monthly | Total Suspended Solids | 36 | mg/L |
|  | Monthly | Turbidity | 55 | NTU |
| Monitoring Point 10 | 21/5/21 | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **March 2021** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm | Monthly Sampling undertaken on 20/03/21 |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm | Monthly Sampling undertaken on 20/03/21 |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 | 15/4/21 | Monthly | Conductivity | 550 | µS/cm | Monthly Sampling undertaken on 20/03/21. Heavy Rain |
|  | Monthly | Oil and Grease | <0.1 | mg/L |
|  | Monthly | pH | 8.1 | pH |
|  | Monthly | Total Suspended Solids | 148 | mg/L |
|  | Monthly | Turbidity | 220 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm | Monthly Sampling undertaken on 20/03/21 |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
|  | | | | | | |
| Monitoring Point 6 | 15/4/21 | Daily during discharge | Conductivity | ND | µS/cm | No controlled discharge initiated |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 | 15/4/21 | Daily during discharge | Conductivity | 316 | µS/cm | Sampling undertaken 24/3/21 in response to uncontrolled discharge |
|  | Daily during discharge | Oil and Grease | <0.1 | mg/L |
|  | Daily during discharge | pH | 7.4 | pH |
|  | Daily during discharge | Total Suspended Solids | 125 | mg/L |
|  | Daily during discharge | Turbidity | 200 | NTU |
| Monitoring Point 9 | 15/4/21 | Daily during discharge | Conductivity | 184 | µS/cm | Sampling undertaken 24/3/21 Downstream water quality monitoring |
|  | Daily during discharge | Oil and Grease | <0.1 | mg/L |
|  | Daily during discharge | pH | 6.8 | pH |
|  | Daily during discharge | Total Suspended Solids | 3 | mg/L |
|  | Daily during discharge | Turbidity | 12 | NTU |
| Monitoring Point 10 | 15/4/21 | Daily during discharge | Conductivity | ND | µS/cm | No discharge from Middle Dam |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
|  | | | | | | |
| Monitoring Point 6 | 16/4/21 | Daily during discharge | Conductivity | ND | µS/cm | No controlled discharge initiated |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 | 16/4/21 | Daily during discharge | Conductivity | 420 | µS/cm | Sampling undertaken 25/3/21 in response to uncontrolled discharge |
|  | Daily during discharge | Oil and Grease | <0.1 | mg/L |
|  | Daily during discharge | pH | 7.6 | pH |
|  | Daily during discharge | Total Suspended Solids | 120 | mg/L |
|  | Daily during discharge | Turbidity | 170 | NTU |
| Monitoring Point 9 | 16/4/21 | Daily during discharge | Conductivity | 220 | µS/cm | Sampling undertaken 25/3/21 Downstream water quality monitoring |
|  | Daily during discharge | Oil and Grease | <0.1 | mg/L |
|  | Daily during discharge | pH | 6.7 | pH |
|  | Daily during discharge | Total Suspended Solids | 10 | mg/L |
|  | Daily during discharge | Turbidity | 7.2 | NTU |
| Monitoring Point 10 | 16/4/21 | Daily during discharge | Conductivity | ND | µS/cm | No discharge from Middle Dam |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Starting on 19 March 2021, 215.42 mm of rain fell within a 5 day period up until 23 March 2021. This led to site closure on 21, 22 and 23 March and wide ranging flooding throughout the region. This rainfall was well in excess of the design capacity of the Lower Dam which can hold a 5 day 95th percentile of 90.7mm as referenced in Schedule 4 Condition 30. As a result, the Lower Dam overflowed at the constructed spillway at EPL 7 as uncontrolled discharge.  The immediate vicinity of the spillway and downstream edge of the mixing zone had elevated measured total suspended solids (TSS). At the downstream water quality monitoring point GS-3/EPL9, TSS results were very similar to upstream values indicating that any impacts from the overflow was minimal. The lower dam spillway is surrounded by reeds and riparian zones which rapidly remove any suspended solids from floodwaters.  These results confirm the observations that elevated TSS was isolated to the immediate vicinity Lower Dam and the immediate mixing zone of the floodwaters from Rocklow Creek. **No breach of consent condition occurred as the rainfall event was outside of the design capacity of the dam as denoted by S4.C30. No complaints were received and TSS levels were at or below upstream values at the downstream monitoring point.**  The EPA were notified on 22 April 11am and were satisfied that the dam was operated as designed and there was no breach of licence conditions.  The DPIE were notified on 22 April 12pm and requested that the information was submitted to the portal for record keeping purposes. This information will be reported in the Dunmore Quarry Annual Review. | | | | | | |
| **February 2021** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Flow | ND | KL/day |  |
| Daily during discharge | Oil and Grease | ND | mg/L |  |
| Daily during discharge | pH | ND | pH |  |
| Daily during discharge | Total Suspended Solids | ND | mg/L |  |
| Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |  |
| Daily during discharge | pH | ND | pH |  |
| Daily during discharge | Total Suspended Solids | ND | mg/L |  |
| Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 8 |  | Monthly | Conductivity | 597 | µS/cm |  |
| Monthly | Oil and Grease | <0.1 | mg/L |  |
| Monthly | pH | 7.8 | pH |  |
| Monthly | Total Suspended Solids | 47 | mg/L |  |
| Monthly | Turbidity | 60 | NTU |  |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |  |
| Daily during discharge | pH | ND | pH |  |
| Daily during discharge | Total Suspended Solids | ND | mg/L |  |
| Daily during discharge | Turbidity | ND | NTU |  |
| **January 2021** | | | | | | |
| Monitoring Point 6 | 11/02/21 | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Flow | ND | KL/day |  |
| Daily during discharge | Oil and Grease | ND | mg/L |  |
| Daily during discharge | pH | ND | pH |  |
| Daily during discharge | Total Suspended Solids | ND | mg/L |  |
| Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 7 | 11/02/21 | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |  |
| Daily during discharge | pH | ND | pH |  |
| Daily during discharge | Total Suspended Solids | ND | mg/L |  |
| Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 8 | 11/02/21 | Monthly | Conductivity | 623 | µS/cm |  |
| Monthly | Oil and Grease | 0.5 | mg/L |  |
| Monthly | pH | 8.4 | pH |  |
| Monthly | Total Suspended Solids | 38 | mg/L |  |
| Monthly | Turbidity | 40 | NTU |  |
| Monitoring Point 10 | 11/02/21 | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |  |
| Daily during discharge | pH | ND | pH |  |
| Daily during discharge | Total Suspended Solids | ND | mg/L |  |
| Daily during discharge | Turbidity | ND | NTU |  |
| **December 2020** | | | | | | |
| Monitoring Point 6 | 12/01/21 | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Flow | ND | KL/day |  |
| Daily during discharge | Oil and Grease | ND | mg/L |  |
| Daily during discharge | pH | ND | pH |  |
| Daily during discharge | Total Suspended Solids | ND | mg/L |  |
| Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 7 | 12/01/21 | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |  |
| Daily during discharge | pH | ND | pH |  |
| Daily during discharge | Total Suspended Solids | ND | mg/L |  |
| Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 8 | 12/01/21 | Monthly | Conductivity | 623 | µS/cm |  |
| Monthly | Oil and Grease | 0.5 | mg/L |  |
| Monthly | pH | 8.4 | pH |  |
| Monthly | Total Suspended Solids | 38 | mg/L |  |
| Monthly | Turbidity | 40 | NTU |  |
| Monitoring Point 10 | 12/01/21 | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |  |
| Daily during discharge | pH | ND | pH |  |
| Daily during discharge | Total Suspended Solids | ND | mg/L |  |
| Daily during discharge | Turbidity | ND | NTU |  |
| **November 2020** | | | | | | |
| Monitoring Point 6 | 01/12/20 | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Flow | ND | KL/day |  |
| Daily during discharge | Oil and Grease | ND | mg/L |  |
| Daily during discharge | pH | ND | pH |  |
| Daily during discharge | Total Suspended Solids | ND | mg/L |  |
| Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 7 | 01/12/20 | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |  |
| Daily during discharge | pH | ND | pH |  |
| Daily during discharge | Total Suspended Solids | ND | mg/L |  |
| Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 8 | 01/12/20 | Monthly | Conductivity | 668 | µS/cm |  |
| Monthly | Oil and Grease | 0.1 | mg/L |  |
| Monthly | pH | 8.2 | pH |  |
| Monthly | Total Suspended Solids | 38 | mg/L |  |
| Monthly | Turbidity | 65 | NTU |  |
| Monitoring Point 10 | 01/12/20 | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |  |
| Daily during discharge | pH | ND | pH |  |
| Daily during discharge | Total Suspended Solids | ND | mg/L |  |
| Daily during discharge | Turbidity | ND | NTU |  |
| **October 2020** | | | | | | |
| Monitoring Point 6 | 03/11/20 | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Flow | ND | KL/day |  |
| Daily during discharge | Oil and Grease | ND | mg/L |  |
| Daily during discharge | pH | ND | pH |  |
| Daily during discharge | Total Suspended Solids | ND | mg/L |  |
| Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 7 | 03/11/20 | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |  |
| Daily during discharge | pH | ND | pH |  |
| Daily during discharge | Total Suspended Solids | ND | mg/L |  |
| Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 8 | 03/11/20 | Monthly | Conductivity | 729 | µS/cm |  |
| Monthly | Oil and Grease | 0.1 | mg/L |  |
| Monthly | pH | 8.1 | pH |  |
| Monthly | Total Suspended Solids | 20 | mg/L |  |
| Monthly | Turbidity | 19 | NTU |  |
| Monitoring Point 10 | 03/11/20 | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |  |
| Daily during discharge | pH | ND | pH |  |
| Daily during discharge | Total Suspended Solids | ND | mg/L |  |
| Daily during discharge | Turbidity | ND | NTU |  |
| **September 2020** | | | | | | |
| Monitoring Point 6 | 14/10/20 | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Flow | ND | KL/day |  |
| Daily during discharge | Oil and Grease | ND | mg/L |  |
| Daily during discharge | pH | ND | pH |  |
| Daily during discharge | Total Suspended Solids | ND | mg/L |  |
| Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 7 | 14/10/20 | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |  |
| Daily during discharge | pH | ND | pH |  |
| Daily during discharge | Total Suspended Solids | ND | mg/L |  |
| Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 8 | 14/10/20 | Monthly | Conductivity | 685 | µS/cm |  |
| Monthly | Oil and Grease | 0.5 | mg/L |  |
| Monthly | pH | 8 | pH |  |
| Monthly | Total Suspended Solids | 19 | mg/L |  |
| Monthly | Turbidity | 40 | NTU |  |
| Monitoring Point 10 | 14/10/20 | Daily during discharge | Conductivity | ND | µS/cm |  |
| Daily during discharge | Oil and Grease | ND | mg/L |  |
| Daily during discharge | pH | ND | pH |  |
| Daily during discharge | Total Suspended Solids | ND | mg/L |  |
| Daily during discharge | Turbidity | ND | NTU |  |
| **August 2020** | | | | | | |
| Monitoring Point 6 | 20/8/20 | Daily during discharge | Conductivity | 634 | µS/cm | Lower Dam was dewatered 5/8/20 in preparation of upcoming ECL. |
| Daily during discharge | Flow | 4666 | KL/day |
| Daily during discharge | Oil and Grease | NV | mg/L |
| Daily during discharge | pH | 8.0 | pH |
| Daily during discharge | Total Suspended Solids | 33 | mg/L |
| Daily during discharge | Turbidity | 70 | NTU |
| Monitoring Point 6 | 20/8/20 | Daily during discharge | Conductivity | 650 | µS/cm | Lower Dam was dewatered 6/8/20 in preparation of upcoming ECL. |
| Daily during discharge | Flow | 4666 | KL/day |
| Daily during discharge | Oil and Grease | NV | mg/L |
| Daily during discharge | pH | 8.0 | pH |
| Daily during discharge | Total Suspended Solids | 24 | mg/L |
| Daily during discharge | Turbidity | 60 | NTU |
| Monitoring Point 7 | 13/8/20 | Daily during discharge | Conductivity | 251 | µS/cm | Discharge monitoring on 11/8/20 after high rainfall event |
| Daily during discharge | Oil and Grease | NV | mg/L |
| Daily during discharge | pH | 7.44 | pH |
| Daily during discharge | Total Suspended Solids | 8 | mg/L |
| Daily during discharge | Turbidity | 20 | NTU |
| Monitoring Point 7 | 13/8/20 | Daily during discharge | Conductivity | 280 | µS/cm | Discharge monitoring on 12/8/20 after high rainfall event |
| Daily during discharge | Oil and Grease | NV | mg/L |
| Daily during discharge | pH | 7.49 | pH |
| Daily during discharge | Total Suspended Solids | 6 | mg/L |
| Daily during discharge | Turbidity | 18.1 | NTU |
| Monitoring Point 7 | 20/8/20 | Daily during discharge | Conductivity | 300 | µS/cm | Discharge monitoring on 13/8/20 after high rainfall event |
| Daily during discharge | Oil and Grease | NV | mg/L |
| Daily during discharge | pH | 7.23 | pH |
| Daily during discharge | Total Suspended Solids | 8 | mg/L |
| Daily during discharge | Turbidity | 13.7 | NTU |
| Monitoring Point 7 | 20/8/20 | Daily during discharge | Conductivity | 493 | µS/cm | Discharge monitoring on 14/8/20 after high rainfall event |
| Daily during discharge | Oil and Grease | NV | mg/L |
| Daily during discharge | pH | 7.92 | pH |
| Daily during discharge | Total Suspended Solids | 15 | mg/L |
| Daily during discharge | Turbidity | 41.1 | NTU |
| Monitoring Point 7 | 27/8/20 | Daily during discharge | Conductivity | 371 | µS/cm | Discharge monitoring on 15/8/20 after high rainfall event |
| Daily during discharge | Oil and Grease | NV | mg/L |
| Daily during discharge | pH | 7.0 | pH |
| Daily during discharge | Total Suspended Solids | 12 | mg/L |
| Daily during discharge | Turbidity | 10 | NTU |
| Monitoring Point 10 | 27/8/20 | Daily during discharge | Conductivity | 523 | µS/cm | Discharge monitoring on 21/8/20 |
| Daily during discharge | Oil and Grease | NV | mg/L |
| Daily during discharge | pH | 8.0 | pH |
| Daily during discharge | Total Suspended Solids | 10 | mg/L |
| Daily during discharge | Turbidity | 67.1 | NTU |
| Monitoring Point 8 | 10/9/20 | Monthly | Conductivity | 687 | µS/cm | Monthly monitoring on 31/8/20 |
| Monthly | Oil and Grease | 0.1 | mg/L |
| Monthly | pH | 7.9 | pH |
| Monthly | Total Suspended Solids | 20 | mg/L |
| Monthly | Turbidity | 26 | NTU |
| The site was unable to be accessed on the 9th and 10th of August 2020 due to safety concerns and flash flooding which caused site closure. As per note 2 within condition M2.3 the site notified the EPA that sampling would be delayed. DSS undertook sampling as soon as it was safe to do so on 11th of August, 2020. The rainfall associated with this event (180mm in 4 days) was outside the 5 day, 95th percentile holding capacity of the dam which is designed to hold 90.7mm of rainfall over 5 days. | | | | | | |
| **July 2020** | | | | | | |
| Monitoring Point 6 | 13/7/20 | Daily during discharge | Conductivity | 928 | µS/cm | Lower Dam was dewatered 10/7/20 in preparation of upcoming ECL. |
| Daily during discharge | Flow | 4666 | KL/day |
| Daily during discharge | Oil and Grease | <5 | mg/L |
| Daily during discharge | pH | 8.22 | pH |
| Daily during discharge | Total Suspended Solids | 24 | mg/L |
| Daily during discharge | Turbidity | 25.3 | NTU |
| Monitoring Point 6 | 20/7/20 | Daily during discharge | Conductivity | 1010 | µS/cm | Lower Dam was dewatered 11/7/20 in preparation of upcoming ECL. |
| Daily during discharge | Flow | 4666 | KL/day |
| Daily during discharge | Oil and Grease | <5 | mg/L |
| Daily during discharge | pH | 8.20 | pH |
| Daily during discharge | Total Suspended Solids | 24 | mg/L |
| Daily during discharge | Turbidity | 27.1 | NTU |
| Monitoring Point 6 | 20/7/20 | Daily during discharge | Conductivity | 971 | µS/cm | Lower Dam was dewatered 13/7/20 in preparation of upcoming ECL. |
| Daily during discharge | Flow | 4666 | KL/day |
| Daily during discharge | Oil and Grease | <5 | mg/L |
| Daily during discharge | pH | 8.20 | pH |
| Daily during discharge | Total Suspended Solids | 20 | mg/L |
| Daily during discharge | Turbidity | 28.4 | NTU |
| Monitoring Point 6 | 5/8/20 | Daily during discharge | Conductivity | ND | µS/cm | monthly monitoring undertaken 15/07/20 |
| Daily during discharge | Flow | ND | KL/day |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 | 5/8/20 | Daily during discharge | Conductivity | ND | µS/cm | monthly monitoring undertaken 15/07/20 |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 | 5/8/20 | Monthly | Conductivity | 881 | µS/cm | monthly monitoring undertaken 15/07/20 |
| Monthly | Oil and Grease | 0.2 | mg/L |
| Monthly | pH | 8.0 | pH |
| Monthly | Total Suspended Solids | 24 | mg/L |
| Monthly | Turbidity | 65 | NTU |
| Monitoring Point 10 | 5/8/20 | Daily during discharge | Conductivity | ND | µS/cm | monthly monitoring undertaken 15/07/20 |
| Daily during discharge | Oil and Grease | ND | mg/L |
| Daily during discharge | pH | ND | pH |
| Daily during discharge | Total Suspended Solids | ND | mg/L |
| Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 | 20/8/20 | Daily during discharge | Conductivity | 258 | µS/cm | Lower Dam Spillway Monitoring 29/7/20 after 220m rainfall in 4 days. |
| Daily during discharge | Oil and Grease | 0.5 | mg/L |
| Daily during discharge | pH | 7.1 | pH |
| Daily during discharge | Total Suspended Solids | 10 | mg/L |
| Daily during discharge | Turbidity | 39 | NTU |
| The monitoring points were unable to be accessed on the 27th and 28th of July, 2020 due to safety concerns and flash flooding. As per the note within condition M2.4 the site notified the EPA and undertook sampling as soon as it was safe to do so on 29th of July, 2020. The rainfall associated with this event was outside the 5 day, 95th percentile holding capacity of the dam which is designed to hold 90.7mm of rainfall over 5 days. | | | | | | |
| **June 2020** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 488 | µS/cm | Monthly monitoring undertaken 26/06/20 |
|  | Monthly | Oil and Grease | 0.2 | mg/L |
|  | Monthly | pH | 7.1 | pH |
|  | Monthly | Total Suspended Solids | 15 | mg/L |
|  | Monthly | Turbidity | 2.3 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **May 2020** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 8 |  | Monthly | Conductivity | 898 | µS/cm |  |
|  | Monthly | Oil and Grease | <0.1 | mg/L |  |
|  | Monthly | pH | 8.1 | pH |  |
|  | Monthly | Total Suspended Solids | 37 | mg/L |  |
|  | Monthly | Turbidity | 85 | NTU |  |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| **April 2020** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 8 |  | Monthly | Conductivity | 995 | µS/cm |  |
|  | Monthly | Oil and Grease | <0.1 | mg/L |  |
|  | Monthly | pH | 8.0 | pH |  |
|  | Monthly | Total Suspended Solids | 22 | mg/L |  |
|  | Monthly | Turbidity | 24 | NTU |  |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| **March 2020** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 8 |  | Monthly | Conductivity | 974 | µS/cm |  |
|  | Monthly | Oil and Grease | <0.1 | mg/L |  |
|  | Monthly | pH | 8.4 | pH |  |
|  | Monthly | Total Suspended Solids | 13 | mg/L |  |
|  | Monthly | Turbidity | 15 | NTU |  |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| **February 2020** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | 640 | µS/cm | 11/02/20. Discharge monitoring from spillway after flooding after 222mm rainfall over 4 days. |
|  | Daily during discharge | Oil and Grease | NV | mg/L |
|  | Daily during discharge | pH | 7.7 | pH |
|  | Daily during discharge | Total Suspended Solids | 31 | mg/L |
|  | Daily during discharge | Turbidity | 87.4 | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | 788 | µS/cm | 12/02/20. Discharge monitoring from spillway after flooding. |
|  | Daily during discharge | Oil and Grease | NV | mg/L |
|  | Daily during discharge | pH | 7.84 | pH |
|  | Daily during discharge | Total Suspended Solids | 18 | mg/L |
|  | Daily during discharge | Turbidity | 56.7 | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | 681 | µS/cm | 13/02/20. Discharge monitoring from spillway after flooding. |
|  | Daily during discharge | Oil and Grease | NV | mg/L |
|  | Daily during discharge | pH | 7.8 | pH |
|  | Daily during discharge | Total Suspended Solids | 30 | mg/L |
|  | Daily during discharge | Turbidity | 89.0 | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | 731 | µS/cm | 14/02/20. Discharge monitoring from spillway after flooding. |
|  | Daily during discharge | Oil and Grease | NV | mg/L |
|  | Daily during discharge | pH | 7.4 | pH |
|  | Daily during discharge | Total Suspended Solids | 25 | mg/L |
|  | Daily during discharge | Turbidity | 48.0 | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | 797 | µS/cm | 17/02/20. Discharge monitoring from spillway after flooding |
|  | Daily during discharge | Oil and Grease | NV | mg/L |
|  | Daily during discharge | pH | 7.5 | pH |
|  | Daily during discharge | Total Suspended Solids | 12 | mg/L |
|  | Daily during discharge | Turbidity | 15.4 | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 974 | µS/cm | 25/2/20. Monthly sampling monitoring |
|  | Monthly | Oil and Grease | 0.1 | mg/L |
|  | Monthly | pH | 8.4 | pH |
|  | Monthly | Total Suspended Solids | 13 | mg/L |
|  | Monthly | Turbidity | 15 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **January 2020** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 8 |  | Monthly | Conductivity | 3370 | µS/cm |  |
|  | Monthly | Oil and Grease | 0.1 | mg/L |  |
|  | Monthly | pH | 8.2 | pH |  |
|  | Monthly | Total Suspended Solids | 32 | mg/L |  |
|  | Monthly | Turbidity | 37 | NTU |  |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| **December 2019** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 8 |  | Monthly | Conductivity | 4530 | µS/cm |  |
|  | Monthly | Oil and Grease | 0.1 | mg/L |  |
|  | Monthly | pH | 8.3 | pH |  |
|  | Monthly | Total Suspended Solids | 12 | mg/L |  |
|  | Monthly | Turbidity | 14 | NTU |  |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| **November 2019** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 8 |  | Monthly | Conductivity | 1167 | µS/cm |  |
|  | Monthly | Oil and Grease | 0.1 | mg/L |  |
|  | Monthly | pH | 7.7 | pH |  |
|  | Monthly | Total Suspended Solids | 78 | mg/L |  |
|  | Monthly | Turbidity | 95 | NTU |  |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| **October 2019** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 8 |  | Monthly | Conductivity | 1090 | µS/cm |  |
|  | Monthly | Oil and Grease | 0.1 | mg/L |  |
|  | Monthly | pH | 8.1 | pH |  |
|  | Monthly | Total Suspended Solids | 14 | mg/L |  |
|  | Monthly | Turbidity | 21 | NTU |  |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| **September 2019** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 1255 | µS/cm |  |
|  | Monthly | Oil and Grease | 0.2 | mg/L |
|  | Monthly | pH | 8.2 | pH |
|  | Monthly | Total Suspended Solids | 26 | mg/L |
|  | Monthly | Turbidity | 65 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **August 2019** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 3160 | µS/cm |  |
|  | Monthly | Oil and Grease | <0.1 | mg/L |
|  | Monthly | pH | 8.4 | pH |
|  | Monthly | Total Suspended Solids | 33 | mg/L |
|  | Monthly | Turbidity | 37 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **July 2019** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity |  | µS/cm |  |
|  | Monthly | Oil and Grease | NV | mg/L |
|  | Monthly | pH | 8.2 | pH |
|  | Monthly | Total Suspended Solids | 50 | mg/L |
|  | Monthly | Turbidity | 70 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **June 2019** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | 675 | µS/cm | Discharge date 4/6/19 due to floodwater intrusion from Rocklow Creek |
|  | Daily during discharge | Oil and Grease | NV | mg/L |
|  | Daily during discharge | pH | 8.16 | pH |
|  | Daily during discharge | Total Suspended Solids | 141 | mg/L |
|  | Daily during discharge | Turbidity | 226 | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | 681 | µS/cm | Discharge Date 5/6/19 due to floodwater intrusion from Rocklow Creek |
|  | Daily during discharge | Oil and Grease | NV | mg/L |
|  | Daily during discharge | pH | 8.17 | pH |
|  | Daily during discharge | Total Suspended Solids | 98 | mg/L |
|  | Daily during discharge | Turbidity | 154 | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 724 | µS/cm |  |
|  | Monthly | Oil and Grease | NV | mg/L |
|  | Monthly | pH | 8.7 | pH |
|  | Monthly | Total Suspended Solids | 26 | mg/L |
|  | Monthly | Turbidity | 32.9 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **May 2019** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 695 | µS/cm |  |
|  | Monthly | Oil and Grease | NV | mg/L |
|  | Monthly | pH | 8.22 | pH |
|  | Monthly | Total Suspended Solids | 200 | mg/L |
|  | Monthly | Turbidity | 257 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **April 2019** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 690 | µS/cm |  |
|  | Monthly | Oil and Grease | NV | Visible |
|  | Monthly | pH | 8.15 | pH |
|  | Monthly | Total Suspended Solids | 23 | mg/L |
|  | Monthly | Turbidity | 24 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **March 2019** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 690 | µS/cm |  |
|  | Monthly | Oil and Grease | NV | mg/L |
|  | Monthly | pH | 8.0 | pH |
|  | Monthly | Total Suspended Solids | 24 | mg/L |
|  | Monthly | Turbidity | 31.4 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **February 2019** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 839 | µS/cm |  |
|  | Monthly | Oil and Grease | NV | mg/L |
|  | Monthly | pH | 8.1 | pH |
|  | Monthly | Total Suspended Solids | 46 | mg/L |
|  | Monthly | Turbidity | 54.8 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **January 2019** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | 540 | µS/cm | Discharge Date 6/1/19. Floodwaters from Rocklow Creek inundated Lower Dam causing the dam to overtop. |
|  | Daily during discharge | Oil and Grease | NV | mg/L |
|  | Daily during discharge | pH | 7.7 | pH |
|  | Daily during discharge | Total Suspended Solids | 101 | mg/L |
|  | Daily during discharge | Turbidity | 207 | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 653 | µS/cm |  |
|  | Monthly | Oil and Grease | NV | mg/L |
|  | Monthly | pH | 8.4 | pH |
|  | Monthly | Total Suspended Solids | 33 | mg/L |
|  | Monthly | Turbidity | 40 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **December 2018** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 704 | µS/cm |  |
|  | Monthly | Oil and Grease | NV | mg/L |
|  | Monthly | pH | 8.6 | pH |
|  | Monthly | Total Suspended Solids | 23 | mg/L |
|  | Monthly | Turbidity | 54.1 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **November 2018** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 718 | µS/cm |  |
|  | Monthly | Oil & Grease | >5 | mg/L |
|  | Monthly | pH | 8.4 | pH |
|  | Monthly | Total Suspended Solids | 49 | mg/L |
|  | Monthly | Turbidity | 83.8 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **October 2018** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 719 | µS/cm |  |
|  | Monthly | Oil & Grease | >5 | mg/L |
|  | Monthly | pH | 8.2 | pH |
|  | Monthly | Total Suspended Solids | 32 | mg/L |
|  | Monthly | Turbidity | 40.3 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **September 2018** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 708 | µS/cm |  |
|  | Monthly | Oil & Grease | >5 | mg/L |
|  | Monthly | pH | 8.0 | pH |
|  | Monthly | Total Suspended Solids | 15 | mg/L |
|  | Monthly | Turbidity | 29.6 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **August 2018** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 583 | µS/cm |  |
|  | Monthly | Oil & Grease | >5 | mg/L |
|  | Monthly | pH | 7.7 | pH |
|  | Monthly | Total Suspended Solids | 8 | mg/L |
|  | Monthly | Turbidity | 24.5 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **July 2018** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 647 | µS/cm |  |
|  | Monthly | Oil & Grease | >5 | mg/L |
|  | Monthly | pH | 8.7 | pH |
|  | Monthly | Total Suspended Solids | 32 | mg/L |
|  | Monthly | Turbidity | 58.4 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **June 2018** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 552 | µS/cm |  |
|  | Monthly | Oil & Grease | >5 | mg/L |
|  | Monthly | pH | 8.0 | pH |
|  | Monthly | Total Suspended Solids | 28 | mg/L |
|  | Monthly | Turbidity | 14.3 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **May 2018** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 582 | µS/cm |  |
|  | Monthly | Oil & Grease | >5 | mg/L |
|  | Monthly | pH | 8.0 | pH |
|  | Monthly | Total Suspended Solids | 34 | mg/L |
|  | Monthly | Turbidity | 105.0 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **April 2018** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |  |
|  | Daily during discharge | Oil & Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil & Grease | ND | mg/L |  |
|  | Daily during discharge | pH | ND | pH |  |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |  |
|  | Daily during discharge | Turbidity | ND | NTU |  |
| Monitoring Point 8 |  | Monthly | Conductivity | 708 | µS/cm |  |
|  | Monthly | Oil & Grease | >5 | mg/L |
|  | Monthly | pH | 8.3 | pH |
|  | Monthly | Total Suspended Solids | 49 | mg/L |
|  | Monthly | Turbidity |  | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **March 2018** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 596 | µS/cm |  |
|  | Monthly | Oil & Grease | <5 | mg/L |
|  | Monthly | pH | 8.2 | pH |
|  | Monthly | Total Suspended Solids | 46 | mg/L |
|  | Monthly | Turbidity | 51.9 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **February 2018** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 539 | µS/cm |  |
|  | Monthly | Flow | ND | KL/day |
|  | Monthly | Oil and Grease | >5 | mg/L |
|  | Monthly | pH | 8.30 | pH |
|  | Monthly | Total Suspended Solids | 36 | mg/L |
|  | Monthly | Turbidity | 72.2 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **January 2018** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 266 | µS/cm |  |
|  | Monthly | Flow | ND | KL/day |
|  | Monthly | Oil and Grease | NV | mg/L |
|  | Monthly | pH | 8.40 | pH |
|  | Monthly | Total Suspended Solids | 38 | mg/L |
|  | Monthly | Turbidity | 61 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil and Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| **December 2017** | | | | | | |
| Monitoring Point 6 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Flow | ND | KL/day |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 7 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Monitoring Point 8 |  | Monthly | Conductivity | 524 | µS/cm |  |
|  | Monthly | Oil & Grease | <5 | mg/L |
|  | Monthly | pH | 8.2 | pH |
|  | Monthly | Total Suspended Solids | 47 | mg/L |
|  | Monthly | Turbidity | 56.1 | NTU |
| Monitoring Point 10 |  | Daily during discharge | Conductivity | ND | µS/cm |  |
|  | Daily during discharge | Oil & Grease | ND | mg/L |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
|  | Daily during discharge | Oil & Grease | ND | Visible |
|  | Daily during discharge | pH | ND | pH |
|  | Daily during discharge | Total Suspended Solids | ND | mg/L |
|  | Daily during discharge | Turbidity | ND | NTU |
| Further Historical monitoring data relating to surface water can be found in the associated Annual Reviews for each year. Location of the Dunmore Quarry Annual Reviews can be found at <https://www.boral.com.au/locations/boral-dunmore-operations> | | | | | | |

**Dunmore Quarry Monitoring Locations.**

