



Beryl Quarry

Environmental Monitoring Report

May 2021

Published: June 2021



Beryl Quarry Environmental Monitoring Report

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 obtaining 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 3630 (EPL 3630 – Boral Beryl Quarry)

This report provides environmental monitoring data for the Beryl Quarry for the period January 2016 to May 2021.

| Beryl Quarry Information | |
|--------------------------|---|
| Premise Details | Boral – Beryl Quarry |
| Address | Springridge Road, Beryl, NSW 2852 |
| Licensee | Boral Resources (Country) Pty Ltd |
| EPL No | 3630 |
| EPL Location | http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31229&SYSUID=1&LICID=3630 |

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

- Blasting

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Blasting

Blast monitoring is conducted as per condition M4.1 of EPL 3630. The blasting monitoring results are summarised below.

| | |
|--------------------|-----------------------------------|
| Monitoring Period: | May 2021 |
| Licensee: | Beryl Quarry |
| Licensee Address: | Springridge Road, Beryl, NSW 2852 |
| EPL No: | 3630 |

Qualifications related to blasting:

L3.1 The airblast overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.

L3.2 The airblast overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.

L3.3 Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5mm/sec at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.

L3.4 Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 10mm/sec at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.

L3.5 Blasting in or on the premises must only be carried out between 0900 hours and 1500 hours, Monday to Saturday. Blasting in or on the premises must not take place on Sundays or Public Holidays without the prior approval of the EPA.

M4.1 To determine compliance with condition(s) L3.1 to L3.4:

- (a) Airblast overpressure and ground vibration levels must be measured at any point that is at least 3.5 metres but not more than 30 metres from any affected residence or other noise sensitive site that is not owned by the licensee, or subject to a private agreement between the owner and the licensee as to alternative levels for all blasts carried out in or on the premises; and
- (b) Instrumentation used to measure the airblast overpressure and ground vibration levels must meet the requirements of Australian Standard AS 2187.2-2006.

Blast Monitoring Results May 2021

| Results | | | | | | |
|-------------------|-------------------------|-------------------|--------------------------------|-----------------------------------|----------------------------|--------------------------------|
| Blast Date | Results Received | Blast Time | Ground Vibration Result | Ground Vibration Compliant | Overpressure Result | Over-pressure Compliant |
| 01/03/2021 1 | 1/3/2021 | 15:15 | No trigger | Yes | No trigger | Yes |

The above blast **did not trigger** the blast monitor so actual results for air blast and ground vibration cannot be supplied. Trigger levels set on the blast monitor for air blast were 100 dBL and ground vibration 0.5 mm/s.

Historical Reporting Period Results

| Blast Date | Results Received | Blast Time | Ground Vibration Result | Ground Vibration Compliant | Overpressure Result | Over-pressure Compliant |
|-------------------|-------------------------|-------------------|--------------------------------|-----------------------------------|----------------------------|--------------------------------|
| 01/03/2021 | 1/3/2021 | 15:15 | No trigger | Yes | No trigger | Yes |
| 26/2/2019 | 26/2/2019 | 09:36 | 0.99 mm/s | Yes | 110 dBL | Yes |
| 23/07/2018 | 23/07/2018 | 13:51 | No trigger | Yes | No trigger | Yes |
| 19/09/2017 | 19/09/2017 | 09:31 | No trigger | Yes | No trigger | Yes |
| 7/7/2017 | 10/07/2017 | 12:05 | 1.86mm/s | Yes | 113.1dBL | Yes |
| 30/01/2017 | 03/02/2017 | 14:40 | No trigger | Yes | No trigger | Yes |
| 18/08/2016 | Yes | 14:14 | No trigger* | Yes | No trigger* | Yes |
| 16/02/2016 | 1/3/2016 | 10:59 | No trigger | Yes | No trigger | Yes |

Actual results for air blast and ground vibration cannot be supplied for the above blasts where the blast did not trigger the blast monitor. The trigger levels set on the blast monitors for air blast were 100dbl and ground vibration 0.5 mm/s.

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Beryl Quarry Blast Monitoring Location

Blast Monitoring Location 

