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# Johns River Quarry

## Environmental Monitoring Report

Blast Monitoring Data

March 2024



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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 4812 (EPL: 4812 – Boral Johns River Quarry)

<b>Johns River Quarry Information</b>	
Premise Details	Boral – Johns River Quarry
Address	Bulleys Road, Johns River NSW 2443
Licensee	Boral Resources (Country) Pty Ltd
EPL No	4812
EPL Location	<a href="#">ViewPOEOLicence.aspx (nsw.gov.au)</a>
Date of dataset update	26/03/2024

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

- Blasting



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## Blasting

Blast monitoring is conducted as per condition M8 of EPL 4812.

### **Qualifications related to blasting:**

#### **Extracted from EPL: 4812 – L5.1 to L5.5**

- Blasting operations at the premises only take place between 9:00am and 3:00 pm Monday to Friday and 9:00am and 1:30 pm Saturday. Where compelling safety reasons exist, the Environment Protection Authority May permit a blast to occur outside the abovementioned hours. Prior written notification of any such blast must be made to the Environment Protection Authority at [hunter.region@epa.nsw.gov.au](mailto:hunter.region@epa.nsw.gov.au).
- 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 percent of the total number of blasts over each reporting period, or one blast in each reporting period, whichever is the greater.
  - 120 dB (Lin Peak) at any time at any residence or noise sensitive location.
- 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.
  - 5mm/sec at any noise sensitive locations for more than five percent of the total number of blasts in the reporting period, or one blast in each reporting period, whichever is the greater.

\* NOTE: Where no data has been published for a particular date there has been no blasting activity undertaken for that date



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**TABLE 1: Johns River Quarry – Blast Monitoring Results**

EPA ID (Blast #)	Monitoring Frequency	Blast Date	Blast Results		Trigger Level (dB)	Trigger Level (mm/s)	Sampling Location	Compliant Blast (Y/N)	Comments
			Overpressure (dB)	Ground Vibration (mm/s)					
JRQ-2023-08	Per Blast	04/12/2023	102.6	1.48			Frost Residence	Y	
JRQ-2023-07	Per Blast	09/10/2023	105.0	1.85			Frost Residence	Y	
JRQ-2023-06	Per Blast	17/07/2023	105.0	0.19			Frost Residence	Y	
JRQ-2023-05	Per Blast	17/07/2023	107.5	2.90			Frost Residence	Y	
JRQ-2023-04	Per Blast	07/06/2023	109.2	2.93			Frost Residence	Y	
JRQ-2023-03	Per Blast	05/05/2023	109.5	2.81			Frost Residence	Y	
JRQ-2023-02	Per Blast	27/03/2023	104.2	3.11			Frost Residence	Y	
JRQ-2023-01	Per Blast	24/02/2023	109.2	3.97			Frost Residence	Y	
JRQ-2022-05	Per Blast	01/11/2022	97.17	2.9			Frost Residence	Y	
JRQ-2022-06	Per Blast	31/10/2022	103.5	3.5			Frost Residence	Y	
JRQ-2022-04	Per Blast	30/09/2022	101.6	3.9			Frost Residence	Y	
JRQ-2022-03	Per Blast	29/08/2022	100.9	4.13			Frost Residence	Y	
JRQ-2022-02	Per Blast	07/05/2022	No Trigger	No Trigger	100	0.5	Frost Residence	Y	
JRQ-2022-01	Per Blast	22/03/2022	104.9	10.2			Frost Residence	N	Reported to EPA
JRQ-2021-07	Per Blast	15/12/2021	103.1	1.163			Frost Residence	Y	
JRQ-2021-05/06	Per Blast	05/10/2021	104.1	0.985			Frost Residence	Y	
JRQ-2021-02	Per Blast	29/07/2021	100	0.284			Frost Residence	Y	
JRQ-2021-03/04	Per Blast	14/07/2021	119.4	1.396			Frost Residence	N	Reported to EPA
JRQ-2021-01	Per Blast	20/04/2021	107	0.2081			Frost Residence	Y	
JRQ-2020-06	Per Blast	22/01/2021	100.8	0.2393			Frost Residence	Y	



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EPA ID (Blast #)	Monitoring Frequency	Blast Date	Blast Results		Trigger Level (dB)	Trigger Level (mm/s)	Sampling Location	Compliant Blast (Y/N)	Comments
			Overpressure (dB)	Ground Vibration (mm/s)					
JRQ-2020-05	Per Blast	11/11//2020	112.1	0.8728			Frost Residence	Y	
JRQ-2020-04	Per Blast	5/08/2020	105.5	1.274			Frost Residence	Y	
JRQ-2020-03	Per Blast	5/08/2020	105.5	1.274			Frost Residence	Y	
JRQ-2020-02	Per Blast	3/06/2020	103.2	0.214			Frost Residence	Y	
JRQ-2020-01	Per Blast	14/02/2020	104.3	2.567			Frost Residence	Y	
JRQ-2019-04	Per Blast	14/10/2019	112.9	2.898			Frost Residence	Y	
JRQ-2019-03	Per Blast	12/06/2019	91.5	2.524			Frost Residence	Y	
JRQ-2019-02	Per Blast	30/06/2019	111	3.884			Frost Residence	Y	
JRQ-2019-01	Per Blast	4/02/2019	No Trigger	No Trigger	100	0.5	Frost Residence	Y	

**TABLE 2: Blast Monitoring Results – Corrections Log**

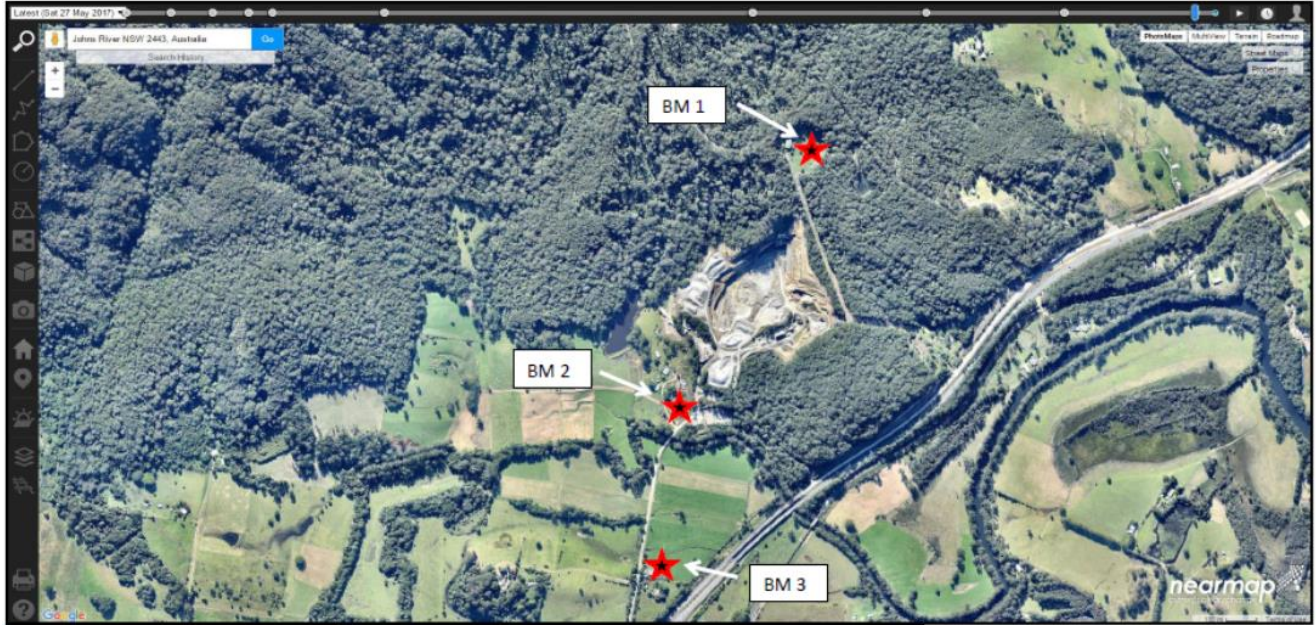
Date of Data (sample Date)	Old Published Data	Corrected Data	Reason for Update / Correction	Update Person	Date corrected Data Published	Comments

Note: The table above details the corrections made to published data due to incorrect reporting or misleading published data



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FIGURE 1 Johns River Quarry- Blast Monitoring Locations



NOTE: Blast Monitor 3 (**BM3**) is the Licensed Monitoring Location under EPL 4812.