

# Environmental Monitoring Report – Blast Monitoring Data

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## Shadforth Quarry

July 2022

Date Published: 26 July 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 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 4988 (EPL 4988 – Boral Shadforth Quarry Quarry)

This report provides environmental monitoring data for Shadforth Quarry for the period October 2015 to present day. This report is reviewed monthly during each reporting period and updated if required.

Shadforth Quarry Information	
Premise Details	Boral – Shadforth Quarry
Address	Bushells Road, Shadforth NSW 2250
Licensee	Boral Resources (Country) Pty Ltd
EPL No	4988
EPL Location	<a href="https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=157360&amp;SYSUID=1&amp;LICID=4988">https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=157360&amp;SYSUID=1&amp;LICID=4988</a>
Date of dataset update	26/07/2022

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

- Blasting

# Blasting

Blast monitoring is conducted as per condition L4 of EPL 4988

**Qualifications related to blasting:  
Extracted from EPL: 4988**

L4.1 Hours of operation (blasting): blasting activities at the premises are restricted to the following hours:

- a) Monday to Friday: 9 am to 3 pm; and
- b) at no time on Saturdays, Sundays or Public Holidays.

L4.2 The frequency of blasting activities at the premises is restricted to the following:

- a) maximum of 2 blasts a day; and
- b) maximum of 5 blasts a week, averaged over a calendar year.

L4.3 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.

L4.4 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.

L4.5 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.

L4.6 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.

\* NOTE: Where no data has been published for a particular date there has been no blasting activity undertaken for that date<sup>3.7.8</sup>

Blast Monitoring Results												
EPA ID (Shot Number)	Monitoring Frequency	Date Sampled	Date Results Obtained	Date Results Published	Time of Blast	Blast Results		Trigger Level (dB)	Trigger Level (mm/s)	Most affected residence	Sample Compliant ? (YES/NO)	Comments
						Over Pressure (dB)	Peak Vibration (mm/s)	Over Pressure (dB)	Peak Vibration (mm/s)			
						115	5					
						120	10					
SQ-16-04	Per Blast	16/01/17	17/01/17		13:15	No trigger	No trigger	115	5	37 Beaumar Rd, Shadforth	YES	
SQ-17-01	Per Blast	03/05/17	04/05/17		13:00	No trigger	No trigger	115	5	37 Beaumar Rd, Shadforth	YES	
SQ-17-02	Per Blast	04/07/17	05/07/17		10:58	No trigger	No trigger	115	5	37 Beaumar Rd, Shadforth	YES	
SQ-17-03	Per Blast	16/10/17	17/10/17		12:55	No trigger	No trigger	115	5	37 Beaumar Rd, Shadforth	YES	
SQ-18-01	Per Blast	22/01/18	23/01/18		12:16	No trigger	No trigger	115	5	37 Beaumar Rd, Shadforth	YES	
SQ-18-02	Per Blast	27/04/18	28/04/18		13:32	114	0.803	115	5	37 Beaumar Rd, Shadforth	YES	
SQ-18-03	Per Blast	10/08/18	11/08/18		12:35	No trigger	No trigger	115	5	37 Beaumar Rd, Shadforth	YES	
SQ-18-04	Per Blast	04/02/19	05/02/19		14:42	No trigger	No trigger	115	5	37 Beaumar Rd, Shadforth	YES	
SQ-19-01	Per Blast	25/07/19	26/07/19		12:53	No trigger	No trigger	115	5	37 Beaumar Rd, Shadforth	YES	
SQ-19-02	Per Blast	01/10/19	02/10/19		12:20	114	0.684	115	5	37 Beaumar Rd, Shadforth	YES	
SQ-19-03	Per Blast	13/01/20	14/01/20		11:52	No trigger	No trigger	115	5	37 Beaumar Rd, Shadforth	YES	
SQ-20-01	Per Blast	12/02/20	12/02/20		12:33	No trigger	No trigger	115	5	37 Beaumar Rd, Shadforth	YES	
SQ-20-02	Per Blast	05/06/20	05/06/20		13:17	No trigger	No trigger	115	5	37 Beaumar Rd, Shadforth	YES	
SQ-20-03	Per Blast	10/08/20	10/08/20		14:36	114	0.773	115	5	37 Beaumar Rd, Shadforth	YES	
SQ-20-04	Per Blast	26/10/20	26/10/20		12:16	112	0.684	115	5	37 Beaumar Rd, Shadforth	YES	
SQ-20-05	Per Blast	14/12/20	14/12/20		12:52	No trigger	No trigger	115	5	37 Beaumar Rd, Shadforth	YES	
SQ-21-01	Per Blast	16/04/21	16/04/21		13:07	105.5	0.89	115	5	37 Beaumar Rd, Shadforth	YES	
SQ-21-02	Per Blast	05/07/21	05/07/21		13:07	98.7	0.66	115	5	37 Beaumar Rd, Shadforth	YES	
SQ-21-03	Per Blast	06/09/21	09/09/21	15/9/2021	12:25	104.9	0.741	115	5	37 Beaumar Rd, Shadforth	YES	
SQ-21-04	Per Blast	17/01/22	17/01/22	26/07/22	13:53	104.9	0.92	115	5	37 Beaumar Rd, Shadforth	YES	
SQ-22-01	Per Blast	01/04/22	01/04/22	26/07/22	11:56	110.2 (1)	0.58	115	5	37 Beaumar Rd, Shadforth	YES	

\* Less than 5% of the total number of blasts carried out on the premises during respective reporting period.

Note: "No Trigger" refer to the blast monitors not being triggered due to Trigger levels set on the Blast Monitor for Airblast were 100 dBL and Ground Vibration 0.51 mm/s.

(1) – this result is impacted by high winds on the day and is not considered representative of the blast

## Shadforth Quarry- Blast Monitoring Location



### Blast Monitoring Results - Corrections Log

Details of corrections made to published data due to incorrect or misleading data<sup>3.7.7</sup>

Date of data (sample date)	Old published data	Correct updated data	Reason for Update/Correction	Update Person	Date corrected data published	Comments