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Environmental Monitoring Report

Blast Monitoring

Shadforth Quarry

April 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 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	Millthorpe Road, Shadforth NSW 2250
Licensee	Boral Resources (Country) Pty Ltd
EPL No	4988
EPL Location	https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=157360&SYSUID=1&LICID=4988

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 L4 of EPL 4988. The blasting monitoring results are summarised below.

Monitoring Period: October 2015 – Present
Licensee: Shadforth Quarry
Licensee Address: Milthorpe Road, Shadforth NSW 2800
EPL No: 4988

Qualifications related to 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.

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.

The airblast overpressure level from blasting operations in or on the premises must not exceed:

- a) 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period; and
- b) 120 dB (Lin Peak) at any time.

The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed:

- a) 5mm/s for more than 5% of the total number of blasts carried out on the premises during each reporting period; and
- b) 10 mm/s at any time.

Airblast overpressure and ground vibration levels must be measured at most affected residence or noise sensitive location that is not owned by the licensee or subject to a private agreement between the owner of the residence or noise sensitive location and the licensee as to an alternative overpressure level.

There is one compliance monitor, located at the gate of the adjacent farmhouse.



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Results

Location	Blast Date	Results Received	Blast Time	Overpressure Result (dB)	GV Compliant	Ground Vibration Result (mm/s)	OP Compliant
Farm gate	16/01/17	17/01/17	13:15	No trigger	Yes	No trigger	Yes
Farm gate	03/05/17	04/05/17	13:00	No trigger	Yes	No trigger	Yes
Farm gate	04/07/17	05/07/17	10:58	No trigger	Yes	No trigger	Yes
Farm gate	16/10/17	17/10/17	12:55	No trigger	Yes	No trigger	Yes
Farm gate	22/01/18	23/01/18	12:16	No trigger	Yes	No trigger	Yes
Farm gate	27/04/18	28/04/18	13:32	114	Yes	0.803	Yes
Dust Monitor	27/04/18	28/04/18	13:32	105.5	Yes	4.55	Yes
Farm gate	10/08/18	11/08/18	12:35	No trigger	Yes	No trigger	Yes
Farm gate	04/02/19	05/02/19	14:42	No trigger	Yes	No trigger	Yes
Farm gate	25/07/19	26/07/19	12:53	No trigger	Yes	No trigger	Yes
Farm gate	01/10/19	02/10/19	12:20	114	Yes	0.684	Yes
Farm gate	13/01/20	14/01/20	11:52	No trigger	Yes	No trigger	Yes
Farm gate	12/02/20	12/02/20	12:33	No trigger	Yes	No trigger	Yes
Farm gate	05/06/20	05/06/20	13:17	No trigger	Yes	No trigger	Yes
Farm gate	10/08/20	10/08/20	14:36	114	Yes	0.773	Yes
Farm gate	26/10/20	26/10/20	12:16	112	Yes	0.684	Yes
Farm gate	14/12/20	14/12/20	12:52	No trigger	Yes	No trigger	Yes
Farm gate	16/04/21	16/04/21	13:07	105.5	Yes	0.89	Yes
Farm gate	05/07/21	05/07/21	13:07	98.7	Yes	0.66	Yes
Farm gate	22/06/22	05/04/23	14:00	105.5	Yes	0.58	Yes
Farm Gate	26/09/22	05/04/23	11:50	111.2	Yes	0.66	Yes
Farm gate	17/03/23	05/04/23	12:40	102.8	Yes	1.14	Yes
Farm gate	2/08/23	02/08/23	12:59	109.9	Yes	0.52	Yes
Farm gate	12/09/23	12/09/23	12:52	104.9	Yes	0.53	Yes
Farm gate	18/04/24	18/04/24	13:11	No trigger	Yes	No trigger	Yes
No blasts undertaken from the 19/4/2024 through to the 6/05/2024							

* 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

Blast data indicates compliance against the set criteria.



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Shadforth Quarry Blast Monitoring Location





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Blast Monitoring Results - Corrections Log

Details of corrections made to published data due to incorrect or misleading data^{3.7.7}

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