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# Teven Quarry

## Environmental Monitoring Report

### Blast Monitoring Data

June 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 2261 (EPL: 2261 – Boral Teven Quarry)

<b>Teven Quarry Information</b>	
Premise Details	Boral – Teven Quarry
Address	North Teven Road, Teven NSW 2478
Licensee	Boral Resources (Country) Pty Limited
EPL No	2261
EPL Location	<a href="#">ViewPOEOLicence.aspx (nsw.gov.au)</a>
Date of dataset update	18/06/2024

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

- Blasting



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## Blast Monitoring

Blast monitoring is conducted as per condition L5 of EPL 2261.

### Qualifications related to Blasting Activities

#### Extracted from EPL: 2261

- Blasting in or on the premises must only be carried out between 0900 hours and 1600 hours, Monday to Friday. Blasting in or on the premises must not take place on weekends or public holidays without the prior approval of the EPA.
- Blasting at the premises is limited to 1 blast on each day on which blasting is permitted.
- 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.
- To determine compliance:
  - a) Airblast pressure and ground vibration must be measured at any residence or noise sensitive location that is likely to be most affected and is not owned by the licensee or subject of a private agreement between the owner of the residence or noise sensitive site and the licensee as to an alternative blasting level - for all blasts carried out in or on the premises; and
  - b) Instrumentation used to measure the airblast overpressure and ground vibration must meet the requirements of Australian Standard AS2187.2-2006

\* 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: Teven Quarry – Blast Monitoring Results**

EPA ID (Blast #)	Monitoring Frequency	Blast Date	Blast Time	Blast Results				Trigger Level (dB)	Trigger Level (mm/s)	Comments
				660 Teven Road		54 Beacons Road				
				Overpressure (dB)	Ground Vibration (mm/s)	Overpressure (dB)	Ground Vibration (mm/s)			
				115	5	115	5			
				120	10	120	10	Max Limit		
BTQ-2402	Per Blast	20/05/2024	12:00	no trigger	no trigger	no trigger	no trigger	100	0.5	Compliant Blast
BTQ-2401	Per Blast	05/02/2024	13:15	98.8	0.44	108.4	0.65			Compliant Blast
BTQ-2309	Per Blast	01/12/2023	11:29	no trigger	no trigger	114.5	1.37	100	0.5	Compliant Blast
BTQ-2308	Per Blast	07/11/2023	09:07	no trigger	no trigger	112.9	0.83	100	0.5	Compliant Blast
BTQ-2307	Per Blast	31/08/2023	11:10	98.1	0.68	103.9	1.37			Compliant Blast
BTQ-2306	Per Blast	24/08/2023	13:21	108.8	0.55	111.3	1.13			Compliant Blast
BTQ-2305	Per Blast	19/07/2023	12:20	106.0	0.60	104.9	1.26			Compliant Blast
BTQ-2304	Per Blast	09/05/2023	12:46	115.9	1.22	97.5	0.41			Exceeded 115dB (allowable for 1 blast per annum – Condition L5.3 EPL 2261)
BTQ-2303	Per Blast	28/04/2023	15:32	106.0	1.98	109.9	4.78			Compliant Blast
BTQ-2302	Per Blast	27/02/2023	13:37	108.4	2.48	101.9	0.57			Compliant Blast
BTQ-2301	Per Blast	20/02/2023	15:47	101.9	0.69	110.7	1.94			Compliant Blast
BTQ-2209	Per Blast	10/01/2023	14:44	101.9	1.17	104.2	1.38			Compliant Blast
BTQ-2208	Per Blast	09/11/2022	12:10	101.9	0.92	104.9	0.59			Compliant Blast
BTQ-2207	Per Blast	03/11/2022	14:33	100.0	1.22	109.2	0.73			Compliant Blast
BTQ-2206	Per Blast	01/09/2022	12:55	106.5	1.18	101.9	0.33			Compliant Blast
BTQ-2203	Per Blast	27/07/2022	11:49	125.2	0.75	116.1	0.29	100	0.5	Blast was wind affected. Compliant Blast
BTQ-2205	Per Blast	17/06/2022	13:47	97.6	1.13	103.5	0.87			Compliant Blast
BTQ-2204	Per Blast	17/06/2022	11:35	101.0	0.97	103.5	0.37			Compliant Blast
BTQ-2202	Per Blast	18/02/2022	15:09	no trigger	no trigger	no trigger	no trigger	100	0.5	Compliant Blast



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				Overpressure (dB)	Ground Vibration (mm/s)	Overpressure (dB)	Ground Vibration (mm/s)			
				115	5	115	5			
				120	10	120	10	Max Limit		
BTQ-2201	Per Blast	18/02/2022	15:09	no trigger	no trigger	no trigger	no trigger	100	0.5	Compliant Blast
BTQ-2110	Per Blast	16/09/2021	09:00	104.0	1.16	102.0	0.15			Compliant Blast
BTQ-2109	Per Blast	16/09/2021	09:00	104.0	1.16	102.0	0.15			Compliant Blast
BTQ-2108	Per Blast	16/09/2021	09:00	104.0	1.16	102.0	0.15			Compliant Blast
BTQ-2107	Per Blast	04/08/2021	11:58	109.2	3.00	101.0	0.54			Compliant Blast
BTQ-2106	Per Blast	15/07/2021	12:25	100.3	1.14	100.0	0.10			Compliant Blast
BTQ-2105	Per Blast	16/07/2021	14:30	113.1	2.14	110.2	0.40			Compliant Blast
BTQ-2104	Per Blast	27/04/2021	12:00	100.0	0.10	113.8	1.16			Compliant Blast
BTQ-2103	Per Blast	28/05/2021	11:34	100.0	0.87	114.2	0.95			Compliant Blast
BTQ-2102	Per Blast	29/03/2021	13:17	100.0	0.29	109.2	1.70			Compliant Blast
BTQ-2101	Per Blast	05/02/2021	13:32	98.8	0.63	109.5	2.25			Compliant Blast
BTQ-2018	Per Blast	21/12/2020	15:09	112.6	3.00	101.0	0.43			Compliant Blast
BTQ-2017	Per Blast	16/11/2020	11:36	100.0	0.65	107.5	1.49			Compliant Blast
BTQ-2016	Per Blast	28/10/2020	12:54	no trigger	no trigger	114.6	1.14	100	0.5	Compliant Blast
BTQ-2013	Per Blast	16/09/2020	11:10	105.0	0.49	107.0	1.52			Compliant Blast
BTQ-2012	Per Blast	28/07/2020	11:59	no trigger	no trigger	115.9	1.52	100	0.5	Exceeded 115dB (allowable for 1 blast per annum – Condition L5.3 EPL 2261)
BTQ-2011	Per Blast	22/07/2020	12:00	98.8	0.56	108.4	2.43			Compliant Blast
BTQ-2010	Per Blast	03/07/2020	11:50	100.0	0.35	108.4	1.33			Compliant Blast
BTQ-2008	Per Blast	19/05/2020	12:59	104.2	0.32	112.0	1.03			Compliant Blast
BTQ-2009	Per Blast	11/05/2020	13:03	105.5	1.92	101.9	0.35			Compliant Blast



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				660 Teven Road		54 Beacons Road				
				Overpressure (dB)	Ground Vibration (mm/s)	Overpressure (dB)	Ground Vibration (mm/s)			
				115	5	115	5			
				120	10	120	10	Max Limit		
BTQ-2007	Per Blast	16/04/2020	14:21	104.2	0.54	109.5	1.79			Compliant Blast

**TABLE 2: Teven Quarry 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
28/05/2021	Blast ID 2104	Blast ID 2103	Blast ID was incorrectly identified. Blast ID was updated for Blast 2103 and 2104	Rod Johnson	22/06/2021

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



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