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# Environmental Monitoring Report Blast Monitoring

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## Hall Quarry

January 2024

Date Published: 15<sup>th</sup> January 2024

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 4082 (EPL 4082 – Boral Hall Quarry)

This report provides environmental monitoring data for Hall Quarry for the period November 2017 to January 2024.

Hall Quarry Information	
Premise Details	Boral – Hall Quarry
Address	Kaveney's Rd, Murrumbateman NSW 2582
Licensee	Boral Resources (Country) Pty Ltd
EPL No	4082
EPL Location	<a href="https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=183732&amp;SYSUID=1&amp;LICID=4082">https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=183732&amp;SYSUID=1&amp;LICID=4082</a>
Date of dataset update	6/11/2023

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

- Blasting

# Blasting

Blast monitoring is conducted as per condition L6.3 of EPL 4082. The blasting monitoring results are summarised below.

## Qualifications related to blasting:

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.

## Results

Location	Blast Date	Results Received	Blast Time	Ground Vibration Result** (mm/s)	GV Compliant	Overpressure Result** (dBL)	OP Compliant
Quarry Hill	11/01/24	11/01/24	16:04	2.03	Yes	101.9	Yes
Silverwattle	11/01/24	11/01/24	16:04	0.51	Yes	104.9	Yes
Quarry Hill	23/10/23	23/10/23	13:46	1.39	Yes	100	Yes
Silverwattle	23/10/23	23/10/23	13:46	0.65	Yes	100	Yes
Quarry Hill	24/08/23	24/08/23	13:13	0.8	Yes	111.2	Yes
Silverwattle	24/08/23	24/08/23	13:13	0.58	Yes	97.5	Yes
Quarry Hill	13/06/23	13/06/23	13:15	1.47	Yes	107.5	Yes
Silverwattle	13/06/23	13/06/23	13:15	0.64	Yes	101	Yes
Quarry Hill	27/04/23	27/04/23	13:25	1.80	Yes	104.9	Yes
Silverwattle	27/04/23	27/04/23	13:25	0.57	Yes	97.5	Yes
Quarry Hill	24/04/23	24/04/23	12:14	1.96	Yes	101	Yes
Silverwattle	24/04/23	24/04/23	12:14	0.58	Yes	100	Yes
Quarry Hill	15/02/23	15/02/23	12:48	0.84	Yes	104.2	Yes
Silverwattle	15/02/23	15/02/23	12:48	No trigger	Yes	No trigger	Yes
Quarry Hill	16/01/23	16/01/23	14:11	2.9	Yes	101	Yes
Silverwattle	16/01/23	16/01/23	14:11	0.98	Yes	104.2	Yes

## HISTORIC RESULTS

Location	Blast Date	Results Received	Blast Time	Ground Vibration Result** (mm/s)	GV Compliant	Overpressure Result** (dBL)	OP Compliant
Quarry Hill	25/11/22	25/11/22	14:06	No trigger	Yes	No trigger	Yes
Silverwattle	25/11/22	25/11/22	14:06	0.88	Yes	97.5	Yes
Quarry Hill	26/10/22	26/10/22	13:25	1.2	Yes	101	Yes
Silverwattle	26/10/22	26/10/22	13:25	No trigger	Yes	No trigger	Yes
Quarry Hill	7/10/22	7/10/22	15:02	No trigger	Yes	No trigger	Yes
Silverwattle	7/10/22	7/10/22	15:02	1.7	Yes	106.5	Yes
Quarry Hill	6/7/22	6/7/22	13:27	1	Yes	104.2	Yes
Silverwattle	6/7/22	6/7/22	13:27	0.5	Yes	100	Yes
Quarry Hill	29/6/22	29/6/22	13:34	No trigger	Yes	No trigger	Yes
Silverwattle	29/6/2022	29/6/22	13:34	No trigger	Yes	No trigger	Yes
Quarry Hill	19/5/22	19/5/22	14:02	No trigger	Yes	No trigger	Yes
Silverwattle	19/5/22	19/5/22	14:02	(1)		(1)	Yes
Quarry Hill	4/3/22	4/3/22	13;18	2	Yes	98.8	Yes
Silverwattle	4/3/22	4/3/22	13:18	0.5	Yes	102.8	Yes
Quarry Hill	24/1/22	24/1/22	13:17	0.5	Yes	106	Yes
Silverwattle	24/1/22	24/1/22	13:17	0.5	Yes	102.8	Yes
Quarry Hill	6/12/21	6/12/21	13:25	1.9	Yes	101.9	Yes
Silverwattle	6/12/21	6/12/21	13:25	0.5	Yes	106.5	Yes
Quarry Hill	1/11/21	1/11/21	13:21	1.4	Yes	100	Yes
Silverwattle	1/11/21	1/11/21	13:21	0.5	Yes	103.5	Yes
Quarry Hill	6/9/21	6/9/21	13:24	1.5	Yes	104.2	Yes
Silverwattle	6/9/21	6/9/21	13:24	0.5	Yes	107	Yes
Quarry Hill	30/8/21	30/8/21	13:26	4.6	Yes	101	Yes
Silverwattle	30/8/21	30/8/21	13:26	0.6	Yes	102.8	Yes
Quarry Hill	19/7/21	19/7/21	14:25	2	Yes	No data	Yes
Silverwattle	19/7/21	19/7/21	14:25	1	Yes	104.2	Yes
Quarry Hill	21/6/21	21/6/21	14:08	No trigger	Yes	no trigger	Yes
Silverwattle	21/6/21	21/6/21	14:08	No trigger	Yes	No trigger	Yes
Quarry Hill	7/5/21	7/5/21	13:59	0.6	Yes	110.6	Yes
Silverwattle	7/5/21	7/5/21	13:59	0.5	Yes	98.8	Yes
Quarry Hill	22/2/21	22/2/21	14:58	1.4	Yes	100	Yes
Silverwattle	22/2/21	22/2/21	14:58	0.5	Yes	98.8	Yes
Quarry Hill	14/12/20	14/12/20	15:22	No Trigger	Yes	No Trigger	Yes
Silverwattle	14/12/20	14/12/20	15:22	0.52 mm/s	Yes	No Trigger	Yes
Quarry Hill	09/11/20	09/11/20	13:06	1.257 mm/s	Yes	97.5 dBL	Yes
Silverwattle	09/11/20	09/11/20	13:06	No trigger	Yes	No Trigger	Yes
Quarry Hill	19/10/20	19/10/20	12:52	1.397 mm/s	Yes	102.8 dBL	Yes
Silverwattle	19/10/20	19/10/20	12:52	0.51 mm/s	Yes	100 dBL	Yes
Quarry Hill	29/07/20	29/07/20	12:16	1.78 mm/s	Yes	102.8 dBL	Yes
Silverwattle	29/07/20	29/07/20	12:16	0.51 mm/s	Yes	100 dBL	Yes
Quarry Hill	10/06/20	10/06/20	14:03	1.651 mm/s	Yes	102.8 dBL	Yes
Silverwattle	10/06/20	10/06/20	14:03	0.51 mm/s	Yes	100 dBL	Yes

Location	Blast Date	Results Received	Blast Time	Ground Vibration Result** (mm/s)	GV Compliant	Overpressure Result** (dBL)	OP Compliant
Quarry Hill	19/05/20	19/05/20	13:13	1.524 mm/s	Yes	107 dBL	Yes
Silverwattle	19/05/20	19/05/20	13:13	0.51 mm/s	Yes	100 dBL	Yes
Quarry Hill	01/04/20	01/04/20	14:40	1.470 mm/s	Yes	103.5 dBL	Yes
Silverwattle	01/04/20	01/04/20	14:40	0.51 mm/s	Yes	100 dBL	Yes
Quarry Hill	11/03/20	11/03/20	12:56	0.823 mm/s	Yes	108.4 dBL	Yes
Silverwattle	11/03/20	11/03/20	12:56	0.51 mm/s	Yes	100 dBL	Yes
Quarry Hill	17/02/20	17/02/20	13:00	1.37 mm/s	Yes	107 dBL	Yes
Silverwattle	17/02/20	17/02/20	13:00	0.684 mm/s	Yes	100 dBL	Yes
Quarry Hill	26/11/19	26/11/19	15:02	0.51 mm/s	Yes	124.4 dBL	Yes
Silverwattle	26/11/19	26/11/19	15:02	No trigger	Yes	No trigger	Yes
Quarry Hill	27/9/19	27/9/19	13:08	1.055 mm/s	Yes	111.5 dBL	Yes
Silverwattle	27/9/19	27/9/19	13:08	0.51mm/s	Yes	100 dBL	Yes
Quarry Hill	17/6/19	17/6/19	14:23	0.51mm/s	Yes	102.8 dBL	Yes
Silverwattle	17/6/19	17/6/19	14:23	0.51mm/s	Yes	103.5 dBL	Yes
Quarry Hill	6/5/19	6/5/19	13:49	0.51mm/s	Yes	94 dBL	Yes
Silverwattle	6/5/19	6/5/19	13:49	0.51mm/s	Yes	100 dBL	Yes
Quarry Hill	29/4/19	29/4/19	12:21	0.51mm/s	Yes	103.5 dBL	Yes
Silverwattle	29/4/19	29/4/19	12:21	0.51mm/s	Yes	100 dBL	Yes
Quarry Hill	29/1/19	29/1/19	13:05	0.51mm/s	Yes	100 dBL	Yes
Silverwattle	29/1/19	29/1/19	13:05	0.51mm/s	Yes	100 dBL	Yes
Quarry Hill	18/1/19	18/1/19	12:44	0.51mm/s	Yes	101.9 dBL	Yes
Silverwattle	18/1/19	18/1/19	12:44	0.51mm/s	Yes	100 dBL	Yes
Quarry Hill	5/12/18	5/12/18	13:13	0.51mm/s	Yes	100 dBL	Yes
Silverwattle	5/12/18	5/12/18	13:13	0.51mm/s	Yes	100 dBL	Yes
Quarry Hill	27/11/2018	27/11/2018	13:13	0.51mm/s	Yes	100 dBL	Yes
Silverwattle	27/11/2018	27/11/2018	13:13	0.51mm/s	Yes	100 dBL	Yes
Quarry Hill	30/10/2018	30/10/2018	13:21	0.51mm/s	Yes	106 dBL	Yes
Silverwattle	30/10/2018	30/10/2018	13:21	0.51mm/s	Yes	105.5 dBL	Yes
Quarry Hill	22/10/2018	22/10/2018	11:45	0.51mm/s	Yes	100 dBL	Yes
Silverwattle	22/10/2018	22/10/2018	11:45	0.51mm/s	Yes	100 dBL	Yes
Quarry Hill	24/9/2018	25/9/2018	13:33	0.51mm/s	Yes	104.2	Yes
Silverwattle	24/9/2018	25/9/2018	13:33	0.51mm/s	Yes	100 dBL	Yes
Quarry Hill	27/7/2018	27/7/2018	13:21	0.51 mm/s	Yes	103.5 dBL	Yes
Silverwattle	27/7/2018	27/7/2018	13:21	0.51 mm/s	Yes	100 dBL	Yes
Quarry Hill	5/6/2018	5/6/2018	13:29	0.51 mm/s	Yes	106.5 dBL	Yes
Silverwattle	5/6/2018	5/6/2018	13:29	0.38 mm/s	Yes	106.5 dBL	Yes
Quarry Hill	25/5/2018	25/5/2018	13:11	0.51 mm/s	Yes	105.5 dBL	Yes
Silverwattle	25/5/2018	25/5/2018	13:11	0.51mm/s	Yes	100 dBL	Yes
Quarry Hill	20/4/18	27/4/18	13:00	0.51 mm/s	Yes	105.5 dBL	Yes
Silverwattle	20/4/18	27/4/18	13:00	0.51 mm/s	Yes	108 dBL	Yes
Quarry Hill	5/2/18	12/2/18	11:13	0.51 mm/s	Yes	100 dBL	Yes
Silverwattle	5/2/18	12/2/18	11:13	0.51 mm/s	Yes	100 dBL	Yes
Quarry Hill	5/12/17	12/12/18	13:22	0.51 mm/s	Yes	109.5 dBL	Yes
Silverwattle	5/12/17	12/12/17	13:22	0.51 mm/s	Yes	100 dBL	Yes

\*\*Trigger levels set on the blast monitor for airblast were 100 dBL and ground vibration 0.51 mm/s.

- (1) Data was deleted from the monitor before it was accessed



# Hall Quarry Monitoring Locations

## Blast Monitoring Location

