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Seaham 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 3956 (EPL: 3956 – Boral Seaham Quarry)

Seaham Quarry Information	
Premise Details	Boral – Seaham Quarry
Address	Italia Road, Seaham NSW 2324
Licensee	Boral Resources (NSW) Pty Ltd
EPL No	3956
EPL Location	ViewPOEOLicence.aspx (nsw.gov.au)
Date of dataset update	27/06/2024

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 M6 of EPL 3956.

Qualifications related to Blasting Activities

Extracted from EPL: 3956

L4 Blasting

- 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.

M6 Blasting

M6.1 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: Seaham 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)					
SQ24-09	Per Blast	14/06/2024	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ24-08	Per Blast	30/05/2024	93.2	0.61			Whitcombes	YES	
SQ24-07	Per Blast	13/05/2024	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ24-06	Per Blast	24/04/2024	93.0	0.50			Whitcombes	YES	
SQ24-05	Per Blast	12/04/2024	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ24-04	Per Blast	22/03/2024	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ24-03	Per Blast	06/03/2024	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ24-02	Per Blast	16/02/2024	82.0	0.48			Whitcombes	YES	
SQ24-01	Per Blast	02/02/2024	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ23-19	Per Blast	28/11/2023	97.7	0.44			Whitcombes	YES	
SQ23-18	Per Blast	15/11/2023	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ23-17	Per Blast	31/10/2023	94.4	0.59			Whitcombes	YES	
SQ23-16	Per Blast	11/09/2023	91.5	0.42			Whitcombes	YES	
SQ23-15	Per Blast	30/08/2023	99.2	0.12			Whitcombes	YES	
SQ23-14	Per Blast	18/08/2023	108.5	0.62			Whitcombes	YES	
SQ23-12	Per Blast	21/07/2023	101.5	0.20			Whitcombes	YES	
SQ23-13	Per Blast	10/07/2023	102.3	0.24			Whitcombes	YES	
SQ23-11	Per Blast	16/06/2023	No Trigger	No Trigger	100	0.5	Whitcombes	YES	



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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)					
SQ23-09	Per Blast	26/05/2023	101.7	0.52			Whitcombes	YES	
SQ23-08	Per Blast	12/05/2023	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ23-10	Per Blast	02/05/2023	103	0.21			Whitcombes	YES	
SQ23-07	Per Blast	14/04/2023	93.1	0.63			Whitcombes	YES	
SQ23-06	Per Blast	24/03/2023	94.3	0.7			Whitcombes	YES	
SQ23-05	Per Blast	17/03/2023	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ23-04	Per Blast	10/03/2023	91.3	0.5			Whitcombes	YES	
SQ23-03	Per Blast	22/02/2023	88.4	0.87			Whitcombes	YES	
SQ23-02	Per Blast	08/02/2023	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ23-01	Per Blast	20/01/2023	89.2	0.67			Whitcombes	YES	
SQ22-24	Per Blast	19/12/2022	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ22-23A	Per Blast	02/12/2022	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ22-22A	Per Blast	12/11/2022	91.5	0.51			Whitcombes	YES	
SQ22-21	Per Blast	11/11/2022	94.3	1.07			Whitcombes	YES	
SQ22-20	Per Blast	04/11/2022	94.4	0.9355			Whitcombes	YES	
SQ22-19	Per Blast	28/10/2022	103.1	0.57			Whitcombes	YES	
SQ22-18	Per Blast	24/10/2022	93.1	0.62			Whitcombes	YES	
SQ22-17	Per Blast	14/10/2022	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ22-16	Per Blast	21/09/2022	99.1	0.54			Whitcombes	YES	



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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)					
SQ22-14	Per Blast	05/09/2022	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ22-09	Per Blast	26/08/2022	101.8	0.1943			Whitcombes	YES	
SQ22-15	Per Blast	12/08/2022	101.8	0.5978			Whitcombes	YES	
SQ22-13	Per Blast	20/07/2022	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ22-12	Per Blast	01/07/2022	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ22-11	Per Blast	15/06/2022	101.6	0.4			Whitcombes	YES	
SQ22-10	Per Blast	03/06/2022	95.5	0.4			Whitcombes	YES	
SQ22-07	Per Blast	13/05/2022	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ22-08	Per Blast	26/04/2022	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ22-06	Per Blast	20/04/2022	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ22-05	Per Blast	28/03/2022	94.2	0.9			Whitcombes	YES	
SQ22-03	Per Blast	15/03/2022	87.3	0.7			Whitcombes	YES	
SQ22-04	Per Blast	09/03/2022	100.1	0.5			Whitcombes	YES	
SQ22-02	Per Blast	15/02/2022	95.8	1.2			Whitcombes	YES	
SQ22-01	Per Blast	31/01/2022	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ21-21	Per Blast	20/01/2022	87.3	1			Whitcombes	YES	
SQ21-20	Per Blast	13/12/2021	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ21-19	Per Blast	30/11/2021	102	0.1			Whitcombes	YES	
SQ21-18	Per Blast	24/11/2021	102.1	1.3			Whitcombes	YES	



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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)					
SQ21-17	Per Blast	17/11/2021	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ21-16	Per Blast	27/10/2021	99.1	0.1			Whitcombes	YES	
SQ21-15	Per Blast	13/10/2021	86.7	1.2			Whitcombes	YES	
SQ21-14	Per Blast	10/09/2021	101	0.1			Whitcombes	YES	
SQ21-13	Per Blast	02/09/2021	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ21-12	Per Blast	23/07/2021	103.9	1.948			Whitcombes	YES	
SQ21-11	Per Blast	07/07/2021	102.4	0.2089			Whitcombes	YES	
SQ21-10	Per Blast	23/06/2021	103.7	0.2207			Whitcombes	YES	
SQ21-06	Per Blast	07/06/2021	103.4	0.1912			Whitcombes	YES	
SQ21-07	Per Blast	13/05/2021	No Trigger	No Trigger	100	0.05	Whitcombes	YES	
SQ21-05	Per Blast	21/04/2021	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ21-03	Per Blast	17/03/2021	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ21-02	Per Blast	05/03/2021	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ21-01	Per Blast	12/02/2021	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ20-16	Per Blast	13/01/2021	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ20-14	Per Blast	8/12/2020	107.8	0.22			Whitcombes	YES	
SQ20-13	Per Blast	30/10/2020	101.3	0.26			Whitcombes	YES	
SQ20-12	Per Blast	9/10/2020	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ20-11	Per Blast	23/09/2020	110.3	0.23			Whitcombes	YES	



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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)					
SQ20-10	Per Blast	25/08/2020	102.8	0.16			Whitcombes	YES	
SQ20-09	Per Blast	29/07/2020	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ20-08	Per Blast	6/07/2020	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ20-07	Per Blast	6/07/2020	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ20-06	Per Blast	28/05/2020	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	12/03/2020	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	26/02/2020	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	3/02/2020	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	21/01/2019	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	13/12/2019	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	20/11/2019	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	25/10/2019	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	9/10/2019	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	28/08/2019	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	5/08/2019	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	25/07/2019	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	11/07/2019	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	10/05/2019	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	9/04/2019	No Trigger	No Trigger	100	0.5	Whitcombes	YES	



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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)					
	Per Blast	25/03/2019	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	27/02/2019	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	25/01/2019	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	3/12/2018	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	26/10/2018	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	11/09/2018	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	6/08/2018	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	26/06/2018	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	28/05/2018	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	16/05/2018	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	11/04/2018	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	5/04/2018	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	26/03/2018	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	15/03/2018	No Trigger	No trigger	100	0.5	Whitcombes	YES	
	Per Blast	6/03/2018	No trigger	No trigger	100	0.5	Whitcombes	YES	
	Per Blast	23/01/2018	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	13/12/2017	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	14/11/2017	No trigger	No Trigger	100	0.5	Whitcombes	YES	



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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 date



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