



SEAHAM QUARRY

Blast Monitoring Data



| | |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Licensee | Boral Resources (NSW) Pty Ltd |
| Facility Address | Italia Road, Seaham NSW, 2324 |
| Premises Details | Boral - Seaham Quarry |
| EPL No | 3956 |
| Link to Public Register | https://epa.nsw.gov.au/epo/epoapp/viewEPL/epoapp.aspx?DOCID=168184&YSUID=18141012261 |
| Date of dataset update | 12/09/2023 |

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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)

Qualifications Related to Blasting

L4.1: The overpressure level from blasting operations carried out in or on the premises must not:
a) exceed 115 dB(L) for more than 5% of the total number of blasts carried out on the premises within the 12 months annual reporting period; or
b) exceed 120 dB(L) at any time
at the monitor recording blasts at any residence or noise sensitive location (such as a school or hospital) that is not owned by the licensee or subject of a private agreement between the owner of the residence or noise sensitive location and the licensee as to an alternative overpressure level.

L4.3: The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not:
a) exceed 5mm/second for more than 5% of the total number of blasts carried out on the premises within the 12 months annual reporting period; or
b) exceed 10mm/second at any time
at the monitor recording blasts at any residence or noise sensitive location (such as a school or hospital) that is not owned by the licensee or subject of a private agreement between the owner of the residence or noise sensitive location and the licensee as to an alternative ground vibration level

NOTE: Where no data has been published for a particular date there has been no blasting activity undertaken for that date¹³⁴
Trigger levels set on the monitor for air blast are 100 dB(L) for Overpressure and 0.5 mm/s for Ground Vibration. If results is "No Trigger" results are less than these trigger levels set on monitor.

| Seaham Quarry: EPL 3956 - Blast Monitoring Results | | | | | | | | | | | |
|----------------------------------------------------|---------------------|----------------------|--------------|-----------------------|------------------------|--------------------|-----------------------|------------------|--------------------|---------------------------|----------|
| Shot Number | Monitoring Location | Monitoring Frequency | Date Sampled | Date Results Obtained | Date Results Published | Blast Results | | Trigger Level dB | Trigger Level mm/s | Sample Compliant (YES/NO) | Comments |
| | | | | | | Over pressure (dB) | Peak Vibration (mm/s) | | | | |
| | | | | | | 115 | 5 | | | | |
| | | | | | | 120 | 10 | | | | |
| SQ2023-14 | Whitcombes | Per Blast | 30/08/2023 | 31/08/2023 | 12/09/2023 | 99.2 | 0.17 | | | YES | |
| SQ2023-14 | Whitcombes | Per Blast | 18/08/2023 | 21/08/2023 | 22/08/2023 | 108.5 | 0.62 | | | YES | |
| SQ2023-12 | Whitcombes | Per Blast | 21/07/2023 | 21/07/2023 | 1/08/2023 | 101.5 | 0.2 | | | YES | |
| SQ2023-13 | Whitcombes | Per Blast | 10/07/2023 | 12/07/2023 | 1/08/2023 | 102.3 | 0.24 | | | YES | |
| SQ2023-11 | Whitcombes | Per Blast | 16/06/2023 | 20/06/2023 | 1/08/2023 | No Trigger | No Trigger | 100 | 0.5 | YES | |
| SQ2023-09 | Whitcombes | Per Blast | 26/05/2023 | 26/05/2023 | 1/08/2023 | 101.7 | 0.52 | | | YES | |
| SQ2023-08 | Whitcombes | Per Blast | 12/05/2023 | 22/05/2023 | 1/08/2023 | No Trigger | No Trigger | 100 | 0.5 | YES | |
| SQ2023-10 | Whitcombes | Per Blast | 02/05/2023 | 10/05/2023 | 19/05/2023 | 103 | 0.21 | | | YES | |
| SQ2023-07 | Whitcombes | Per Blast | 14/04/2023 | 17/04/2023 | 19/05/2023 | 93.1 | 0.63 | | | YES | |
| SQ2023-06 | Whitcombes | Per Blast | 24/03/2023 | 28/03/2023 | 19/05/2023 | 94.3 | 0.7 | | | YES | |
| SQ2023-05 | Whitcombes | Per Blast | 17/03/2023 | 20/03/2023 | 19/05/2023 | No Trigger | No Trigger | 100 | 0.5 | YES | |
| SQ2023-04 | Whitcombes | Per Blast | 10/03/2023 | 10/03/2023 | 19/05/2023 | 91.3 | 0.5 | | | YES | |
| SQ2023-03 | Whitcombes | Per Blast | 22/02/2023 | 23/02/2023 | 19/05/2023 | 88.4 | 0.87 | | | YES | |
| SQ2023-02 | Whitcombes | Per Blast | 08/02/2023 | 8/02/2023 | 19/05/2023 | No Trigger | No Trigger | 100 | 0.5 | YES | |
| SQ2023-01 | Whitcombes | Per Blast | 20/01/2023 | 24/01/2023 | 19/05/2023 | 89.2 | 0.67 | | | YES | |
| SQ2022-24 | Whitcombes | Per Blast | 19/12/2022 | 19/12/2022 | 19/05/2023 | No Trigger | No Trigger | 100 | 0.5 | YES | |
| SQ2022-23A | Whitcombes | Per Blast | 02/12/2022 | 2/12/2022 | 19/05/2023 | No Trigger | No Trigger | 100 | 0.5 | YES | |
| SQ2022-22A | Whitcombes | Per Blast | 12/11/2022 | 23/11/2022 | 19/05/2023 | 91.5 | 0.51 | | | YES | |
| SQ2022-21 | Whitcombes | Per Blast | 11/11/2022 | 16/11/2022 | 19/05/2023 | 94.3 | 1.07 | | | YES | |
| SQ2022-20 | Whitcombes | Per Blast | 04/11/2022 | 8/11/2022 | 19/05/2023 | 94.4 | 0.9355 | | | YES | |
| SQ2022-19 | Whitcombes | Per Blast | 28/10/2022 | 2/11/2022 | 19/05/2023 | 103.1 | 0.57 | | | YES | |
| SQ2022-18 | Whitcombes | Per Blast | 24/10/2022 | 25/10/2022 | 19/05/2023 | 93.1 | 0.62 | | | YES | |
| SQ2022-17 | Whitcombes | Per Blast | 14/10/2022 | 17/10/2022 | 19/05/2023 | No Trigger | No Trigger | 100 | 0.5 | YES | |
| SQ2022-16 | Whitcombes | Per Blast | 21/09/2022 | 23/09/2022 | 19/05/2023 | 99.1 | 0.54 | | | YES | |
| SQ2022-14 | Whitcombes | Per Blast | 05/09/2022 | 5/09/2022 | 19/05/2023 | No Trigger | No Trigger | 100 | 0.5 | YES | |
| SQ2022-09 | Whitcombes | Per Blast | 26/08/2022 | 29/08/2022 | 19/05/2023 | 101.8 | 0.1943 | | | YES | |
| SQ2022-15 | Whitcombes | Per Blast | 12/08/2022 | 12/08/2022 | 19/05/2023 | 101.8 | 0.5978 | | | YES | |
| SQ2022-13 | Whitcombes | Per Blast | 20/07/2022 | 20/07/2022 | 25/08/2022 | No Trigger | No Trigger | 100 | 0.5 | YES | |
| SQ2022-12 | Whitcombes | Per Blast | 01/07/2022 | 4/07/2022 | 8/07/2022 | No Trigger | No Trigger | 100 | 0.5 | YES | |

| | | | | | | | | | | | |
|-----------|------------|-----------|------------|------------|------------|------------|------------|-----|------|--|-----|
| SQ2022-11 | Whitcombes | Per Blast | 15/06/2022 | 16/06/2022 | 8/07/2022 | 101.6 | 0.4 | | | | YES |
| SQ2022-10 | Whitcombes | Per Blast | 03/06/2022 | 6/06/2022 | 10/06/2022 | 95.5 | 0.4 | | | | YES |
| SQ2022-07 | Whitcombes | Per Blast | 13/05/2022 | 16/05/2022 | 24/05/2022 | No Trigger | No Trigger | 100 | 0.5 | | YES |
| SQ2022-08 | Whitcombes | Per Blast | 26/04/2022 | 28/04/2022 | 3/05/2022 | No Trigger | No Trigger | 100 | 0.5 | | YES |
| SQ2022-06 | Whitcombes | Per Blast | 20/04/2022 | 21/04/2022 | 3/05/2022 | No Trigger | No Trigger | 100 | 0.5 | | YES |
| SQ2022-05 | Whitcombes | Per Blast | 28/03/2022 | 30/03/2022 | 5/04/2022 | 94.2 | 0.9 | | | | YES |
| SQ2022-03 | Whitcombes | Per Blast | 15/03/2022 | 16/03/2022 | 24/03/2022 | 87.3 | 0.7 | | | | YES |
| SQ2022-04 | Whitcombes | Per Blast | 09/03/2022 | 10/03/2022 | 14/03/2022 | 100.1 | 0.5 | | | | YES |
| SQ2022-02 | Whitcombes | Per Blast | 15/02/2022 | 16/02/2022 | 23/02/2022 | 95.8 | 1.2 | | | | YES |
| SQ2022-01 | Whitcombes | Per Blast | 31/01/2022 | 2/02/2022 | 9/02/2022 | No Trigger | No Trigger | 100 | 0.5 | | YES |
| SQ2021-21 | Whitcombes | Per Blast | 20/01/2022 | 21/01/2022 | 28/01/2022 | 87.3 | 1 | | | | YES |
| SQ2021-20 | Whitcombes | Per Blast | 13/12/2021 | 14/12/2021 | 16/12/2021 | No Trigger | No Trigger | 100 | 0.5 | | YES |
| SQ2021-19 | Whitcombes | Per Blast | 30/11/2021 | 1/12/2021 | 7/12/2021 | 102 | 0.1 | | | | YES |
| SQ2021-18 | Whitcombes | Per Blast | 24/11/2021 | 25/11/2021 | 2/12/2021 | 102.1 | 1.3 | | | | YES |
| SQ2021-17 | Whitcombes | Per Blast | 17/11/2021 | 18/11/2021 | 2/12/2021 | No Trigger | No Trigger | 100 | 0.5 | | YES |
| SQ2021-16 | Whitcombes | Per Blast | 27/10/2021 | 28/10/2021 | 9/11/2021 | 99.1 | 0.1 | | | | YES |
| SQ2021-15 | Whitcombes | Per Blast | 13/10/2021 | 14/10/2021 | 9/11/2021 | 86.7 | 1.2 | | | | YES |
| SQ2021-14 | Whitcombes | Per Blast | 10/09/2021 | 13/09/2021 | 16/09/2021 | 101 | 0.1 | | | | YES |
| SQ2021-13 | Whitcombes | Per Blast | 02/09/2021 | 6/09/2021 | 16/09/2021 | No Trigger | No Trigger | 100 | 0.5 | | YES |
| SQ2021-12 | Whitcombes | Per Blast | 23/07/2021 | 26/07/2021 | 30/07/2021 | 103.9 | 1.948 | | | | YES |
| SQ2021-11 | Whitcombes | Per Blast | 07/07/2021 | 8/07/2021 | 14/07/2021 | 102.4 | 0.2089 | | | | YES |
| SQ2021-10 | Whitcombes | Per Blast | 23/06/2021 | 25/06/2021 | 25/06/2021 | 103.7 | 0.2207 | | | | YES |
| SQ2021-06 | Whitcombes | Per Blast | 07/06/2021 | 8/06/2021 | 15/06/2021 | 103.4 | 0.1912 | | | | YES |
| SQ2021-07 | Whitcombes | Per Blast | 13/05/2021 | 14/05/2021 | 20/05/2021 | No Trigger | No Trigger | 100 | 0.05 | | YES |
| SQ2021-05 | Whitcombes | Per Blast | 21/04/2021 | 22/04/2021 | 10/05/2021 | No Trigger | No Trigger | 100 | 0.5 | | YES |
| SQ2021-03 | Whitcombes | Per Blast | 17/03/2021 | 17/03/2021 | 15/04/2021 | No Trigger | No Trigger | 100 | 0.5 | | YES |
| SQ2021-02 | Whitcombes | Per Blast | 05/03/2021 | 5/03/2021 | 16/03/2021 | No Trigger | No Trigger | 100 | 0.5 | | YES |
| SQ2021-01 | Whitcombes | Per Blast | 12/02/2021 | 12/02/2021 | 25/02/2021 | No Trigger | No Trigger | 100 | 0.5 | | YES |
| SQ2020-16 | Whitcombes | Per Blast | 13/01/2021 | 13/01/2021 | 22/01/2021 | No Trigger | No Trigger | 100 | 0.5 | | YES |
| SQ2020-14 | Whitcombes | Per Blast | 8/12/2020 | 8/12/2020 | 15/12/2020 | 107.8 | 0.22 | | | | YES |
| SQ2020-13 | Whitcombes | Per Blast | 30/10/2020 | 30/10/2020 | 15/11/2020 | 101.3 | 0.26 | | | | YES |
| SQ2020-12 | Whitcombes | Per Blast | 9/10/2020 | 9/10/2020 | 15/10/2020 | No Trigger | No Trigger | 100 | 0.5 | | YES |
| SQ2020-11 | Whitcombes | Per Blast | 23/09/2020 | 23/09/2020 | 15/10/2020 | 110.3 | 0.23 | | | | YES |
| SQ2020-10 | Whitcombes | Per Blast | 25/08/2020 | 25/08/2020 | 13/09/2020 | 102.8 | 0.16 | | | | YES |
| SQ2020-09 | Whitcombes | Per Blast | 29/07/2020 | 29/07/2020 | 4/08/2020 | No Trigger | No Trigger | 100 | 0.5 | | YES |
| SQ2020-08 | Whitcombes | Per Blast | 6/07/2020 | 6/07/2020 | 4/08/2020 | No Trigger | No Trigger | 100 | 0.5 | | YES |
| SQ2020-07 | Whitcombes | Per Blast | 6/07/2020 | 6/07/2020 | 4/08/2020 | No Trigger | No Trigger | 100 | 0.5 | | YES |
| SQ2020-06 | Whitcombes | Per Blast | 28/05/2020 | 28/05/2020 | 15/06/2020 | No Trigger | No Trigger | 100 | 0.5 | | YES |
| | Whitcombes | Per Blast | 12/03/2020 | 12/03/2020 | 17/03/2020 | No Trigger | No Trigger | 100 | 0.5 | | YES |
| | Whitcombes | Per Blast | 26/02/2020 | 26/02/2020 | 17/03/2020 | No Trigger | No Trigger | 100 | 0.5 | | YES |
| | Whitcombes | Per Blast | 3/02/2020 | 3/02/2020 | 14/02/2020 | No Trigger | No Trigger | 100 | 0.5 | | YES |
| | Whitcombes | Per Blast | 21/01/2019 | 21/01/2019 | | No Trigger | No Trigger | 100 | 0.5 | | YES |
| | Whitcombes | Per Blast | 13/12/2019 | 13/12/2019 | | No Trigger | No Trigger | | | | YES |
| | Whitcombes | Per Blast | 20/11/2019 | 20/11/2019 | | No Trigger | No Trigger | | | | YES |
| | Whitcombes | Per Blast | 25/10/2019 | 25/10/2019 | | No Trigger | No Trigger | | | | YES |
| | Whitcombes | Per Blast | 9/10/2019 | 9/10/2019 | | No Trigger | No Trigger | | | | YES |
| | Whitcombes | Per Blast | 28/08/2019 | 28/08/2019 | | No Trigger | No Trigger | | | | YES |
| | Whitcombes | Per Blast | 5/08/2019 | 5/08/2019 | | No Trigger | No Trigger | | | | YES |
| | Whitcombes | Per Blast | 25/07/2019 | 25/07/2019 | | No Trigger | No Trigger | | | | YES |
| | Whitcombes | Per Blast | 11/07/2019 | 11/07/2019 | | No Trigger | No Trigger | | | | YES |
| | Whitcombes | Per Blast | 10/05/2019 | 10/05/2019 | | No Trigger | No Trigger | | | | YES |
| | Whitcombes | Per Blast | 9/04/2019 | 9/04/2019 | | No Trigger | No Trigger | | | | YES |
| | Whitcombes | Per Blast | 25/03/2019 | 25/03/2019 | | No Trigger | No Trigger | | | | YES |
| | Whitcombes | Per Blast | 27/02/2019 | 27/02/2019 | | No Trigger | No Trigger | | | | YES |
| | Whitcombes | Per Blast | 25/01/2019 | 25/01/2019 | | No Trigger | No Trigger | | | | YES |
| | Whitcombes | Per Blast | 3/12/2018 | 3/12/2018 | | No Trigger | No Trigger | | | | YES |
| | Whitcombes | Per Blast | 26/10/2018 | 26/10/2018 | | No Trigger | No Trigger | | | | YES |
| | Whitcombes | Per Blast | 11/09/2018 | 11/09/2018 | | No Trigger | No Trigger | | | | YES |
| | Whitcombes | Per Blast | 6/08/2018 | 6/08/2018 | | No Trigger | No Trigger | | | | YES |

