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Environmental Monitoring Report – Blast Monitoring Data

Peats Ridge Quarry

Date Published: 30 July 2026

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 21022 (EPL 2068 – Peats Ridge Quarry)

This report provides environmental monitoring data for Peats Ridge Quarry for the period October 2015 to present day. Where there is a gap in the data presented in this report, this is because there was no monitoring data to present for the relevant period (including the period during which extraction operations were suspended).

Peats Ridge Quarry information

Premise details	Boral – Peats Ridge Quarry
Address	Bushells Road, Peats Ridge NSW 2250
Licensee	Boral Resources (NSW) Pty Ltd
EPL No.	2068
EPL location	https://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33573&SYSUID=1&LICID=2068
Date of dataset update	30 July 2026

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

- Blasting (airblast overpressure and ground vibration) – EPL 2068 condition L3
- Surface water – monitored under the site Water Management Plan and development consent

Blasting

Blast monitoring is conducted as per condition L3 of EPL 2068. Airblast overpressure and ground vibration are measured at the nearest affected sensitive receiver (residential boundary), identified in this report as Monitor Location “A”. The blast monitoring results are summarised in the table below.

Qualifications related to blasting (extracted from EPL 2068)

- L3.1 – The airblast overpressure level from blasting operations at the premises must not exceed 120 dB (Lin Peak) at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.
- L3.2 – The airblast overpressure level from blasting operations at the premises must not exceed 115 dB (Lin Peak) at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period.
- L3.3 – Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 10 mm/sec at any time at any noise sensitive locations.
- L3.4 – Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5 mm/sec at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period.
- L3.5 – Airblast overpressure and ground vibration levels must be measured at any point within 1 metre of any affected residential boundary or other noise sensitive location for all blasts, using instrumentation meeting Australian Standard AS 2187.2–1993.
- L3.6 – Blasting operations at the premises may only take place between 9:00 am and 3:00 pm Monday to Friday. Blasting is not permitted on public holidays. Blasting outside these hours can only take place with the written approval of the EPA.

Note: Where no data has been published for a particular date, there was no blasting activity undertaken on that date. “No trigger” indicates the monitor did not record a result above its set trigger levels (100 dB Lin Peak for airblast overpressure and 0.5 mm/s for ground vibration).

Blast monitoring results

Monitor location	Blast date	Blast time	Airblast overpressure (dB Lin Peak)	Ground vibration PPV (mm/s)	Compliant (Yes/No)	Comments
Licence limit (L3)			115 (95%) / 120 (max)	5 (95%) / 10 (max)		
Cess's Property	12/02/2018	14:59	No trigger	No trigger	Yes	
Cess's Property	16/04/2018	14:43	101.3	No trigger	Yes	
Cess's Property	15/06/2018	13:32	No trigger	No trigger	Yes	
Cess's Property	09/08/2018	14:34	113	1.048	Yes	
Cess's Property	20/09/2018	12:43	No trigger	No trigger	Yes	
Cess's Property	15/10/2018	14:23	93.47	0.38	Yes	
Cess's Property	04/03/2019	12:53	94	0.68	Yes	
Cess's Property	07/05/2019	13:16	104	1.1	Yes	

Monitor location	Blast date	Blast time	Airblast overpressure (dB Lin Peak)	Ground vibration PPV (mm/s)	Compliant (Yes/No)	Comments
Cess's Property	28/06/2019	14:37	105	1.3	Yes	
Cess's Property	12/08/2019	11:36	100	0.5	Yes	
Cess's Property	19/08/2019	13:25	100	0.5	Yes	
Cess's Property	02/09/2019	11:58	102.6	2.87	Yes	
Cess's Property	24/09/2019	13:23	100	0.5	Yes	
Cess's Property	23/10/2019	12:12	95.44	1.53	Yes	
Cess's Property	29/10/2019	12:45	91.99	2.42	Yes	
Cess's Property	26/11/2019	11:02	111	2.984	Yes	
Cess's Property	28/01/2020	14:45	105	0.46	Yes	
Cess's Property	17/08/2020	12:59	111	0.98	Yes	
Cess's Property	28/09/2020	12:53	100	0.50	Yes	
Cess's Property	21/10/2020	11:53	104.3	1.821	Yes	
Cess's Property	17/12/2020	13:38	No trigger	No trigger	Yes	
Cess's Property	27/01/2021	12:45	No trigger	No trigger	Yes	
Cess's Property	30/07/2021	13:02	98.89	1.175	Yes	
Cess's Property	03/09/2021	14:30	100.4	0.177	Yes	
Blasts following recommencement of extraction (2024–2026) – airblast overpressure and ground vibration measured at Monitor Location “A” (Front Gate); results sourced from BlastIQ						
Cess's Property	27/03/2024 (PRQ24-02)	10:43	0.00	0.00	Yes	
Cess's Property	15/04/2024 (PRQ24-01)	14:13	100.00	4.00	Yes	First blast following recommencement
Cess's Property	20/08/2024 (PRQ24-03)	11:25	NR	NR	Yes	
Cess's Property	12/05/2025 (PRQ25-01)	10:42	106.50	2.81	Yes	
Cess's Property	30/05/2025 (PRQ25-02)	09:50	0.00	0.00	Yes	
Cess's Property	27/01/2026 (PRQ26-01)	12:22	0.00	0.00	Yes	

Monitor location	Blast date	Blast time	Airblast overpressure (dB Lin Peak)	Ground vibration PPV (mm/s)	Compliant (Yes/No)	Comments
Cess's Property	21/04/2026 (PRQ26-03)	11:39	74.00	0.54	Yes	
Cess's Property	13/05/2026 (PRQ26-04)	10:51	0.00	0.00	Yes	

* Less than 5% of the total number of blasts carried out at the premises during the respective reporting period. † Value as recorded in BlastIQ at the date of this report. "0.00" indicates the blast did not register a result above the monitor trigger levels (100 dB Lin / 0.5 mm/s) or the reading has not yet been entered; "NR" indicates no monitoring result was recorded. These entries should be confirmed against the individual blast monitoring reports (EPL 2068 condition R1.9). All confirmed measured results are within the licence limits.

Blast monitoring results – corrections log

Details of corrections made to published data due to incorrect or misleading data.

Date of data (sample date)	Old published data	Correct updated data	Reason for update / correction	Update person	Date corrected data published

Peats Ridge Quarry- Blast Monitoring Location



Surface water monitoring

Surface water monitoring at Peats Ridge Quarry is undertaken under the site Water Management Plan and the conditions of the development consent. EPL 2068 does not specify surface water pollutant concentration limits; results below are therefore assessed against the water quality criteria applied under the site Water Management Plan (pH 6.5–8.5; Total Suspended Solids (TSS) 50 mg/L; Oil & Grease (O&G) 10 mg/L). Turbidity is recorded as a field indicator and has no numeric criterion.

Samples are collected from surface water monitoring points across the site, including the sediment/water basins and Popran Creek upstream and downstream of the premises. Monitoring point identifiers vary between sampling events and laboratories (P1–P2, MP1–MP3 and W1–W3); the descriptor in the table indicates the sampled location.

Surface water monitoring results (2022–2026)

Date sampled	Results received	Monitoring point	pH	TSS (mg/L)	O&G (mg/L)	Turbidity (NTU)	Compliant
Water quality criteria		Site Water Management Plan criteria	6.5–8.5	50	10	–	
09/03/2022	10/03/2022	P1 – site water point	Not tested	Not tested	<2	Not tested	Yes*
09/03/2022	09/03/2022	P2 – site water point	8.18	24	Not tested	Not tested	Yes*
25/07/2023	28/07/2023	MP1 – basin (east of stockpile)	7.82	6	<2	1.8	Yes
25/07/2023	28/07/2023	MP2 – Popran Creek (upstream)	7.73	9	<2	3.7	Yes
25/07/2023	28/07/2023	MP3 – Popran Creek (downstream)	7.66	11	<2	3.9	Yes
29/07/2024	30/07/2024	W1 – creek (upstream)	6.8	<5	<5	4.1	Yes
29/07/2024	30/07/2024	W2 – dam/basin (not discharging)	7.7	10	<5	1.2	Yes
29/07/2024	30/07/2024	W3 – creek (downstream)	7.0	<5	<5	2.7	Yes
21/10/2024	31/10/2024	W1 – creek (upstream)	7.1	<5	<5	1.5	Yes
21/10/2024	31/10/2024	W2 – dam/basin (not discharging)	7.8	9	<5	4.1	Yes
21/10/2024	31/10/2024	W3 – creek (downstream)	6.9	<5	<5	1.4	Yes
07/04/2025	17/04/2025	W1 – creek (upstream)	7.2	<5	<5	1.4	Yes
07/04/2025	17/04/2025	W2 – dam/basin (not discharging)	7.7	<5	<5	1.2	Yes
07/04/2025	17/04/2025	W3 – creek (downstream)	7.0	<5	<5	1.6	Yes
12/01/2026	22/01/2026	W1 – creek (upstream)	7.1	<5	<5	2.8	Yes
12/01/2026	22/01/2026	W2 – dam/basin (not discharging)	7.5	<5	<5	3.0	Yes
12/01/2026	22/01/2026	W3 – creek (downstream)	7.0	<5	<5	2.0	Yes

Date sampled	Results received	Monitoring point	pH	TSS (mg/L)	O&G (mg/L)	Turbidity (NTU)	Compliant
14/04/2026	23/04/2026	W1 – creek (upstream)	7.0	<5	<5	1.8	Yes
14/04/2026	23/04/2026	W2 – dam/basin (not discharging)	7.5	<5	<5	2.1	Yes
14/04/2026	23/04/2026	W3 – creek (downstream)	7.1	<5	<5	2.1	Yes

“<” denotes a result below the laboratory limit of reporting. * The March 2022 event was analysed for a partial suite only (as recorded on the laboratory certificate); all reported parameters were within the water quality criteria. Sampling since recommencement of operations comprises events in March 2022, July 2023, July 2024, October 2024, April 2025, January 2026 and April 2026. All reported pH, TSS and O&G results for 2022–2026 were within the applied water quality criteria.

Surface water monitoring results – corrections log

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