Bengalla Mining Company Pty Limited
Bengalla Road (Locked Mailbag 5)
Muswellbrook NSW 2333 Australia

ABN 32 053 909 470

T: +61 2 6542 9500
F: +61 2 6542 9599

bengalla.com.au

Bengalla Mine

Environment Protection Licence 6538
Monthly Monitoring Data Summary

November 2025

Bengalla Mining Company Pty Limited
Bengalla Road (Locked Mailbag 5)
Muswellbrook NSW 2333 Australia
ABN 32 053 909 470
T: +61 2 6542 9500
F: +61 2 6542 9599
bengalla.com.au

Contents

1. INTRODUCTION 3
2. AIR QUALITY 4
3. SURFACE WATER 5
4. NOISE 7
5. BLASTING 8

Tables

Table 1. PM10 Monitoring Summary 4
Table 2: Noise – Bengalla Only[1] LAeq (15 minute) Monitoring Summary 7
Table 3: Blast Overpressure Monitoring Summary 9
Table 4: Blast Vibration Monitoring Summary 9

Bengalla Mining Company Pty Limited
Bengalla Road (Locked Mailbag 5)
Muswellbrook NSW 2333 Australia

ABN 32 053 909 470

T: +61 2 6542 9500
F: +61 2 6542 9599

bengalla.com.au

1. INTRODUCTION

Environmental Protection Licence (EPL) holders are required under the *Protection of the Environment Operations Act 1997* to make publicly available their monitoring results for those parameters specified in the EPL. This document has been prepared to satisfy this requirement.

Bengalla Mining Company Pty Limited's (BMC) operations are conducted in accordance with EPL 6538. The licence details are as follows:

License Holder:	Bengalla Mining Company Pty Limited
Licence Number:	6538
Premises:	Bengalla Mine Bengalla Road via Muswellbrook NSW 2333
Access to Licence:	http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=6538&id=6538&option=licence&searchrange=licence&range=POEO licence&prp=no&status=Issued
Monitoring Locations:	See main text and **Appendix A and B**

This document provides a summary of environmental monitoring data sampled as prescribed by EPL 6538 for November 2025 (Reporting Period). Monitoring data provided is as follows:

- Air quality, particulate matter less than 10 microns (PM_{10});
- Surface water, including discharge mine water and effluent water;
- Noise; and
- Blast vibration and overpressure.

Bengalla Mining Company Pty Limited
Bengalla Road (Locked Mailbag 5)
Muswellbrook NSW 2333 Australia
ABN 32 053 909 470
T: +61 2 6542 9500
F: +61 2 6542 9599
bengalla.com.au

2. AIR QUALITY

Under EPL 6538 BMC is required to continuously record the average PM_{10} concentration at EPA Monitoring Points 22 and 24 at intervals of 10 minutes. As per Condition M2.2, BMC commenced monitoring at these EPA Monitoring Points on 31 August 2017.

PM_{10} data for the Reporting Period is provided in **Table 1**.

2.1 Particulate Matter less than 10 Microns

Pollutant: PM_{10}

Unit of measure: Micrograms per cubic metre (µg/m3)

Monitoring location: See **Table 1** and **Appendix A**

Monitoring frequency required by licence: 10-minute intervals

Sampled: 01/11/2025 – 30/11/2025

Table 1. PM10 Monitoring Summary

Sampling point		No. of samples required by licence	No. of samples collected and analysed	Minimum sample value	Maximum sample value	Monthly mean of sample
EPA22	Lumeah Dairy, Bengalla Road, Muswellbrook	4320	4318	0	128.27	12.36
EPA24	Wybong Road (West), Muswellbrook	4320	4317	0	130.33	11.51

(Table 1 represents total impact (ie incremental increase in concentration due to the development plus background concentrations due to other sources))

Bengalla Mining Company Pty Limited
Bengalla Road (Locked Mailbag 5)
Muswellbrook NSW 2333 Australia
ABN 32 053 909 470
T: +61 2 6542 9500
F: +61 2 6542 9599
bengalla.com.au

3. SURFACE WATER

3.1 Discharge Monitoring

BMC participates in the Hunter River Salinity Trading Scheme (**HRSTS**). In accordance with EPL 6538, BMC maintains two monitoring locations to measure concentration, volume and mass of mine water discharges (see **Appendix B**).

3.1.1 Volume

Pollutant:	Mine water
Unit of measure:	Mega litres per day (**ML/day**)
Monitoring location:	EPA26 – Outlet pipe from 700 ML HRSTS storage dam.
Monitoring frequency required by licence:	Continuous during all discharge events.
Volume/mass limit:	200 ML/day
Sampled:	Not applicable. During the Reporting Period, Bengalla did not discharge any mine water under the HRSTS

3.1.2 Conductivity

Pollutant:	Conductivity
Unit of measure:	Microsiemens per centimetre (**µS/cm**)
Monitoring location:	EPA26 – Outlet pipe from 700 ML HRSTS storage dam.
Monitoring frequency required by licence:	Continuous during all discharge events (EPA26)
Sampled:	Not applicable. During the Reporting Period, Bengalla did not discharge any mine water under the HRSTS

Bengalla Mining Company Pty Limited
Bengalla Road (Locked Mailbag 5)
Muswellbrook NSW 2333 Australia
ABN 32 053 909 470
T: +61 2 6542 9500
F: +61 2 6542 9599
bengalla.com.au

3.1.3 Total suspended solids and pH

Pollutants:	pH and Total Suspended Solids (**TSS**)
Unit of measure:	pH and Milligrams per litre (**mg/L**)
Monitoring location:	EPA26 – Outlet pipe from 700 ML HRSTS storage dam.
Monitoring frequency required by licence:	Daily during all discharge events
pH limit:	6.5 – 9.5 (100th percentile)
TSS limit:	120 (100th percentile)
Sampled:	Not applicable. During the Reporting Period, Bengalla did not discharge any mine water under the HRSTS

3.2 Effluent Quality Monitoring

Under EPL 6538 BMC is required to take quarterly grab samples from effluent quality monitoring point EPA25.

Pollutants:	Faecal Coliforms and pH
Unit of measure:	Colony Forming Units (CFU) per 100 millilitres (**CFU/100mL**) and pH
Monitoring location:	EPA25 – See Appendix B.
Monitoring frequency required by licence:	Quarterly

Sampled:

Sample Date	Faecal Coliforms^ (CFU/100mL)	pH
25/11/2025	~240	8.9

Bengalla Mining Company Pty Limited
Bengalla Road (Locked Mailbag 5)
Muswellbrook NSW 2333 Australia
ABN 32 053 909 470
T: +61 2 6542 9500
F: +61 2 6542 9599
bengalla.com.au

4. NOISE

In accordance with EPL 6538, BMC undertakes compliance attended noise monitoring for 15 minutes once per calendar month during the night period (10 pm to 7 am) at three locations representative of the nearest private receivers.

Noise monitoring data for the Reporting Period is provided in **Table 2**.

Pollutant:	Noise – Bengalla Only
Unit of measure:	LAeq (15 minute)
Monitoring locations:	See **Table 2** and **Appendix C**
Monitoring frequency required by licence:	Monthly
EPA7/AN01 limit:	35 dB(A)
EPA9/AN04 limit:	35 dB(A)
EPA8/AN03 limit:	40 dB(A)
Sampled:	26 - 27 November 2025

Table 2: Noise – Bengalla Only[1] LAeq (15 minute) Monitoring Summary

Sampling point	No. of samples required by licence	No. of samples taken and analysed	Sample Date	Sample Time	Measured value (dB(A))
EPA07/AN01	1	1	26/11/2025	11:38 – 11:53	NA
EPA08/AN03	1	1	27/11/2025	00:10 – 00:25	NA
EPA09/AN04	1	1	27/11/2025	00:39 – 00:54	38*

Note:

1. LAeq,15minute operational noise levels for Bengalla in the absence of all other noise sources.
2. * - Invalid weather conditions.

Bengalla Mining Company Pty Limited
Bengalla Road (Locked Mailbag 5)
Muswellbrook NSW 2333 Australia

ABN 32 053 909 470

T: +61 2 6542 9500
F: +61 2 6542 9599

bengalla.com.au

5. BLASTING

In accordance with EPL 6538, BMC maintains three blast monitors on private (non-mine owned) land to measure air-blast overpressure and ground vibration for all blast events undertaken at Bengalla.

The blast overpressure and ground vibration data for the Reporting Period is provided in **Tables 3 and 4**.

Pollutant:	Air blast overpressure & ground vibration peak particle velocity
Unit of measure:	dB (Lin Peak) and millimetres per second (mm/s)
Monitoring locations:	See **Table 3**, **Table 4** and **Appendix C**
Monitoring frequency required by licence:	All blasts
Overpressure limits:	a) 115 linear decibels (dB(L)) for more than 5% of the total number of blasts carried out on the premises within the 12 months annual reporting period; and b) 120 dB(L) at any time
Ground vibration limits:	a) exceed 5 millimetres/second (mm/s) for more than 5% of the total number of blasts carried out on the premises within the 12 months annual reporting period; and b) 10mm/s at any time
Sampled:	01/11/2025 – 30/11/2025

Bengalla Mining Company Pty Limited
Bengalla Road (Locked Mailbag 5)
Muswellbrook NSW 2333 Australia
ABN 32 053 909 470
T: +61 2 6542 9500
F: +61 2 6542 9599
bengalla.com.au

Table 3: Blast Overpressure Monitoring Summary

Sampling point	Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Minimum value	Maximum value	Mean of samples
MRE (EPA12)	Overpressure	dB(L)	All blast events	14	97.30	112	103.51

Table 4: Blast Vibration Monitoring Summary

Sampling point	Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Minimum value	Maximum value	Mean of samples
MRE (EPA12)	Ground vibration	mm/s	All blast events	14	0.25	7.95	2.15

Appendix A

EPL 6538 Particulate Matter Monitoring Locations

Legend

- Bengalla Mine Project Boundary
- PM10 Monitoring Locations

N

EPL 6538 PM10 Monitoring Locations

Date: 30/03/2023

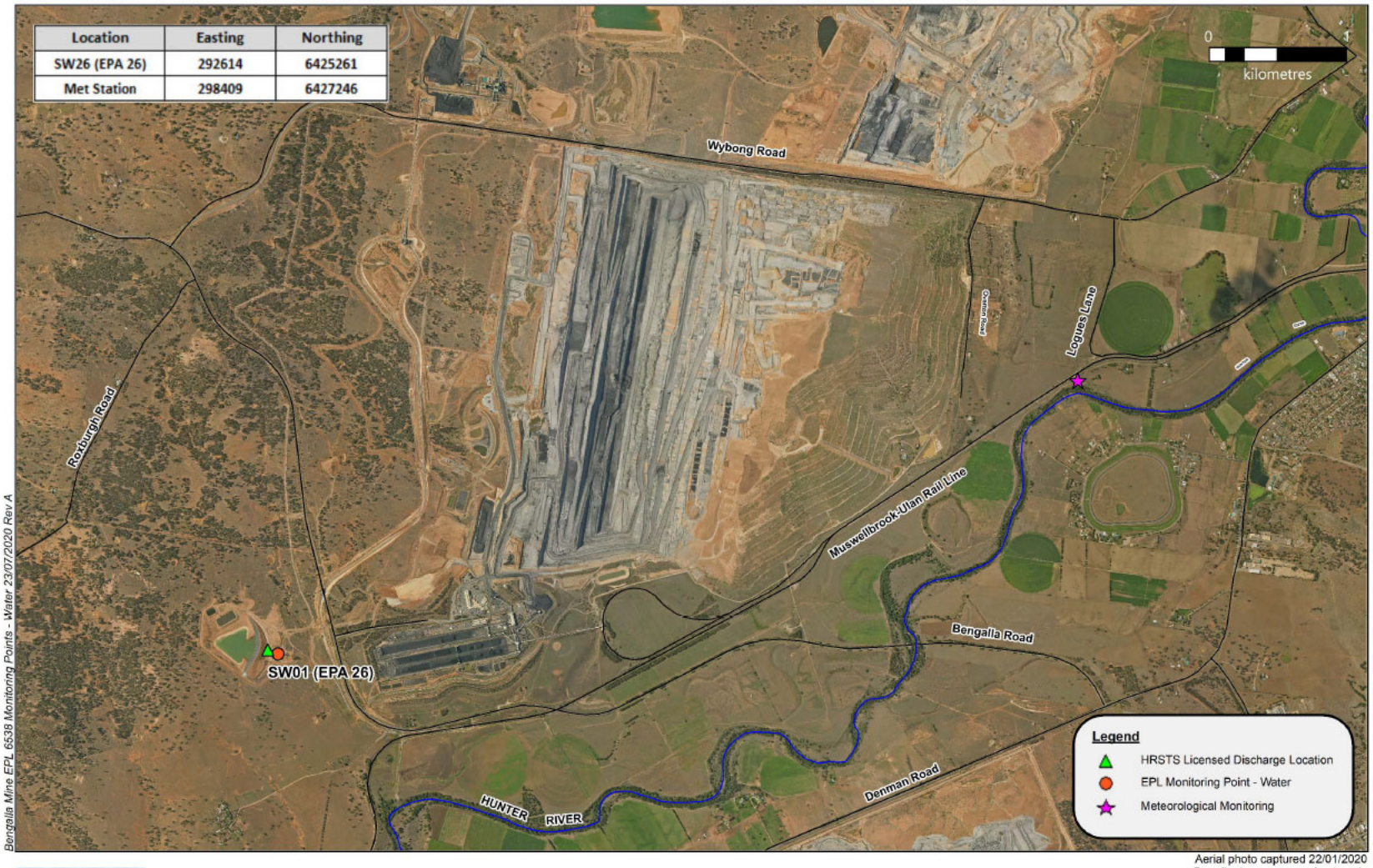
Aerial Image: 15/10/2022

Projection: MGA2020 Zone 56

BENGALLA

Appendix B

EPL 6538 Surface Water Monitoring Locations



Bengalla Mine EPL 6538 Monitoring Points - Water 23/07/2020 Rev A

Aerial photo captured 22/01/2020
Coordinates are approximate only
Coordinate system MGA zone 56 GDA 94

Bengalla Mine

EPL 6538 Monitoring Points - Water

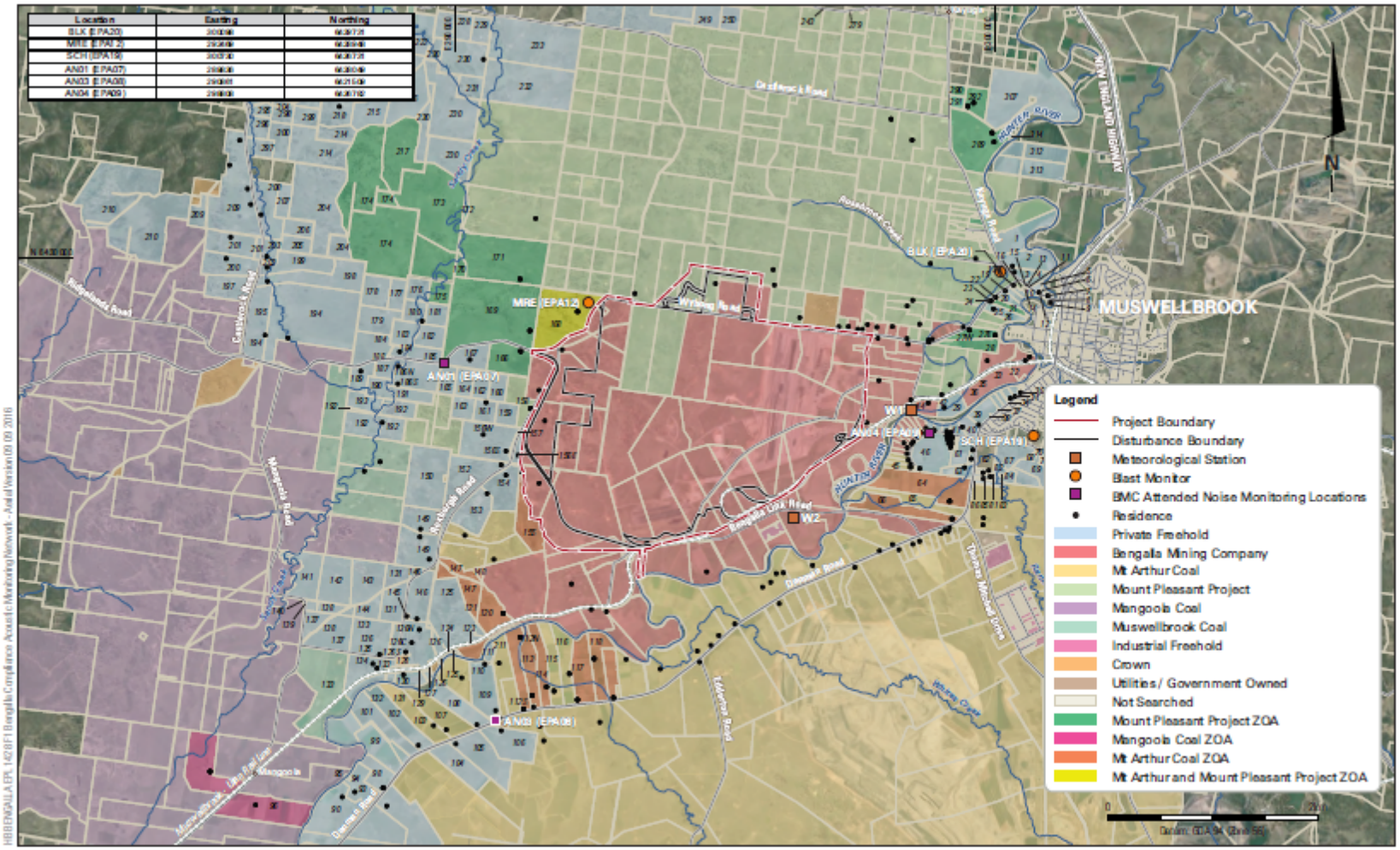
BENGALLA

BENGALLA MINE

EPL 6538 Effluent Quality Monitoring Location

Appendix C

EPL 6538 Noise and Blast Monitoring Locations



H:\BENGALLA EPL 1428\F1 Bengalla Compliance Acoustic Monitoring Network - Aerial Version (09 09 2016)

BENGALLA MINE

EPL 6538 Noise & Blast Monitoring Locations