

# Maxwell Underground Coal Mine Project

## Environmental Monitoring Data November 2022

#### 1 INTRODUCTION

The Maxwell Underground Coal Mine Project is owned by Maxwell Ventures (Management) Pty Limited. This report has been compiled to present environmental monitoring data for the Maxwell Underground Coal Mine Project Environment Protection Licence 1323. This report complies with Section 66(6) of the *Protection of the Environment Operations Act 1997*.

A summary of the Licence details is provided in **Table 1**.

Table 1. A summary of licence and report details

Table 1. A Summary of licence an	u report details
Environment Protection Licence Number	1323
Licensee Details	Maxwell Ventures (Management) Pty Limited Private Mail Bag 9 Muswellbrook NSW 2333
Premises	Maxwell Underground Coal Mine Project Thomas Mitchell Drive Muswellbrook NSW 2333
Link to the EPA Register	http://app.epa.nsw.gov.au/prpoeoapp/
Reporting Month	November 2022
Date of Publication	7 December 2022
Version	1
Correction Log	-

#### 2 MONITORING RESULTS

Air quality monitoring results are provided in Table 2.

Blast monitoring results are provided in Table 3

Noise monitoring results are provided in Table 4.

Maps of monitoring locations are provided in **Appendix 1**.



Table 2. Air quality monitoring results for November 2022

EPA identification no.	Sampling point	Sampling period start date	Sampling period finished date	Unit of measure	Averaging period	Monitoring frequency	Minimum value	Mean value	Median value	Maximum value
8	ES-01	01/11/2022	30/11/2022	micrograms per cubic metre	5 minutes	Continuous	0	11	6	416
9	ES-02	01/11/2022	30/11/2022	micrograms per cubic metre	5 minutes	Continuous	0	10	8	80
10	ES-03	01/11/2022	30/11/2022	micrograms per cubic metre	5 minutes	Continuous	0	3573	3773	4289
11	ES-04	01/11/2022	30/11/2022	micrograms per cubic metre	5 minutes	Continuous	0	11	10	134

As stated in previous reports, a large range of values from the E-Sampler at site ES-03 have been recorded and are deemed spurious. Monthly scheduled calibrations note a 'Solenoid error' on the operating screen; all other checks passed (leak check, temperature, pressure, flow, battery etc). The same scheduled calibrations for ES-02 recorded a 'Detector error' however there is less effect on the data. Due to the ongoing issues with the E-Samplers and a lack of alternative hire equipment, Malabar conducted a review of alternatives, obtained a quotation for a replacement and in June 2022 submitted an application to the EPA to vary the EPL to permit an alternative to the E-Sampler. Malabar has continued to closely monitor the situation with this equipment and received an EPL amendment to enable the replacement of the faulty equipment. In September 2022 Malabar issued a purchase order to a supplier for the provision of two new PALAS AQ Smart devices; following receipt of funds, the supplier advised that Goods were ordered on 17 October 2022; the lead time is estimated as being 6–8 weeks plus delivery time. An update will be provided in subsequent reports.

Table 3. Blast monitoring results for November 2022

EPA identification no.	Sampling point	Time and Date of blast	Date data obtained	Monitored variable	Unit of measure	Averaging period	Measured value*	100 percentile limit for all blasts during each reporting period	95 percentile limit for all blasts during reporting period	Exceedance (yes/no)	Observations							
13	Monitoring location BM1 (Antiene)	29/11/22 16:17hrs	30/11/22	Airblast overpressure	dB (Lin Peak)	Instantaneous	109.0	120	115	No	Within background levels							
14	Monitoring location BM2 (Plashett)						117.6			No	Within background levels							
15	Monitoring location BM3 (Bowfield)										112.5			No	Within background levels			
13	Monitoring location BM1 (Antiene)			Ground vibration peak particle velocity	mm/second	Instantaneous	0.135	10	5	No	With background levels							
14	Monitoring location BM2 (Plashett)								0.062			No	Within background levels					
15	Monitoring location BM3 (Bowfield)																0.063	

<sup>\*</sup> The measured value presented is the maximum measured value 15 minutes prior to and 15 minutes after the blast. Whilst the blast monitor measures continuously, measured levels were either very low or did not exceed background levels, and hence no specific measurements can be attributed to the blast. The reporting period for the EPL is 1 May to 30 April each year.



Table 4. Noise monitoring results for 2 November 2022

EPA identification no.	Sampling point	Day (LA eq (15 minute))		Evening (LA eq (15 minute))		Night (LA eq (15 minute))		Night (LA1 (1 minute))		eo	ons	
		Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Exceedance (yes/no)	Observations	
16	NM1	45	71	41	64	41	60	52	81	No	Project inaudible	
17	NM2	44	53	40	39	40	41	52	60	No	Project inaudible	
18	NM3	40	55	35	55	35	49	52	70	No	Project inaudible	
-	NM4	40	67	35	67	35	64	52	90	No	Project inaudible	
Additional Informa	ation											
Date of Final Report	30 November 2022											
Weather Conditions	Wind speed 2.1 – 8.7 m/s. No rain during monitoring.											
Notes	Measured noise so all locations and tir		ed traffic, bird	ds, frogs, in	sects, wind,	and a dog. Ti	he Maxwell L	Inderground C	Coal Mine F	Project was	inaudible at	



Table 5. Noise monitoring results for 3 November 2022

EPA identification no.	Sampling point	Day (LA eq (15 minute))		Evening (L <sub>A eq (15</sub> minute))		Night (LA eq (15 minute))		Night (LA1 (1 minute))		eo	ons	
		Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Exceedance (yes/no)	Observations	
16	NM1	45	68	41	65	41	63	52	89	No	Project inaudible	
17	NM2	44	46	40	35	40	40	52	68	No	Project inaudible	
18	NM3	40	55	35	57	35	57	52	79	No	Project inaudible	
-	NM4	40	68	35	68	35	61	52	88	No	Project inaudible	
Additional Informa	ation				•				•			
Date of Final Report	30 November 2022											
Weather Conditions	Wind speed 0.7 – 9.5 m/s. No rain during monitoring.											
Notes	Measured noise so and times.	ources include	ed traffic, bird	ds, frogs, ar	nd insects.	he Maxwell L	Inderground	Coal Mine Pro	oject was ir	audible at	all locations	



Table 6. Noise monitoring results for 4 November 2022

EPA identification no.	Sampling point	Day (LA eq (15 minute))		Evening (L <sub>A eq (15</sub> minute))		Night (LA eq (15 minute))		Night (LA1 (1 minute))		eo	ons	
		Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Exceedance (yes/no)	Observations	
16	NM1	45	69	41	63	41	62	52	88	No	Project inaudible	
17	NM2	44	48	40	41	40	46	52	64	No	Project inaudible	
18	NM3	40	61	35	57	35	56	52	81	No	Project inaudible	
-	NM4	40	69	35	70	35	62	52	88	No	Project inaudible	
Additional Informa	ation											
Date of Final Report	30 November 2022											
Weather Conditions	Wind speed 2.9 – 8.2 m/s. No rain during monitoring.											
Notes	Measured noise so and times.	ources include	ed traffic, bird	ds, insects,	and frogs. ٦	he Maxwell U	Inderground	Coal Mine Pro	ject was ir	audible at	all locations	



### APPENDIX 1 – MAPS OF MONITORING LOCATIONS







