

Maxwell Underground Coal Mine Project

Environmental Monitoring Data August 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

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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	August 2022							
Date of Publication	27 September 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 August 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	01/08/2022	31/08/2022	micrograms per cubic metre	5 minutes	Continuous	0	33	6	5650
9	ES-02	01/08/2022	31/08/2022	micrograms per cubic metre	5 minutes	Continuous	0	7	6	52
10	ES-03	01/08/2022	31/08/2022	micrograms per cubic metre	5 minutes	Continuous	0	3549	3879	4173
11	ES-04	01/08/2022	31/08/2022	micrograms per cubic metre	5 minutes	Continuous	0	9	9	37

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 these 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; 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 August 2022

Tuble of Blace	line intering re	Suits for Augi								
EPA identification no.	Sampling point	Time and Date of blast	Date final report obtained	Unit of measure	Averaging period	Measured value	100 percentile limit	95 percentile limit	Exceedance (yes/no)	Observations
13	Monitoring location BM1									
14	Monitoring location BM2				No blasting o	ccurred during	August 2022			
15	Monitoring location BM3									



Table 4. Noise monitoring results for 22 August 2022

EPA identification no.	Sampling point	Day (LA eq (15 minute))		Evening (L _{A eq (15} minute))		Night (LA eq (15 minute))		Night (LA1 (1 minute))		ice	ions
		Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Exceedance (yes/no)	Observations
16	NM1	45	69	41	67	41	59	52	82	No	Project inaudible
17	NM2	44	54	40	42	40	40	52	62	No	Project inaudible
18	NM3	40	53	35	55	35	46	52	66	No	Project inaudible
-	NM4	40	71	35	67	35	57	52	81	No	Project inaudible
Additional Informa	ation										
Date of Final Report	15 September 2022										
Weather Conditions	Wind speed 1.5–4.6 m/s. No rain during monitoring.										
Notes	Measured noise so at all locations and		ed traffic, a fr	eight train,	birds, frogs	, and insects.	The Maxwell	Underground	Coal Mine	Project wa	as inaudible



Table 5. Noise monitoring results for 23&30 August 2022

EPA identification no.		Day (LA eq (15 minute))		Evening (L _{A eq (} 15 _{minute)})		Night (LA eq (15 minute))		Night (LA1 (1 minute))		eo	ons
	Sampling point	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Exceedance (yes/no)	Observations
16	NM1	45	72	41	68	41	68	52	89	No	Project inaudible
17	NM2	44	55	40	47	40	41	52	63	No	Project inaudible
18	NM3	40	53	35	52	35	64	52	82	No	Project inaudible
-	NM4	40	71	35	68	35	76	52	91	No	Project inaudible
Additional Informa	ation										
Date of Final Report	15 September 2022										
Weather Conditions	Wind speed 1.1–4.9 m/s. No rain during monitoring.										
Notes	Measured noise so locations and times conducted on 30 th	s. Results for	NM2 in the	evening per	iod and all r						



Table 6. Noise monitoring results for 24 August 2022

EPA identification no.		Day (LA eq (15 minute))		Evening (L _{A eq (15} minute))		Night (LA eq (15 minute))		Night (LA1 (1 minute))		eo	ons
	Sampling point	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Exceedance (yes/no)	Observations
16	NM1	45	69	41	68	41	64	52	88	No	Project inaudible
17	NM2	44	42	40	38	40	36	52	55	No	Project inaudible
18	NM3	40	51	35	52	35	51	52	72	No	Project inaudible
-	NM4	40	70	35	70	35	65	52	90	No	Project inaudible
Additional Informa	ation										
Date of Final Report	15 September 2022										
Weather Conditions	Wind speed 2.1–3.3 m/s. No rain during monitoring.										
Notes	Measured noise so times.	ources include	ed traffic, bird	ds, and frog	s. The Max	well Undergro	und Coal Mir	ne Project was	inaudible	at all locati	ons and



APPENDIX 1 – MAPS OF MONITORING LOCATIONS







