



Maxwell Underground Coal Mine Project

Environmental Monitoring Data

November 2021

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

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 2021
Date of Publication	21 December 2021
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 2021

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	01/11/2021	30/11/2021	micrograms per cubic metre	5 minutes	Continuous	0	21	11	2364
9	ES-02	01/11/2021	30/11/2021	micrograms per cubic metre	5 minutes	Continuous	0	9	8	48
10	ES-03	01/11/2021	30/11/2021	micrograms per cubic metre	5 minutes	Continuous	0	15	8	4073
11	ES-04	01/11/2021	30/11/2021	micrograms per cubic metre	5 minutes	Continuous	0	14	13	60

Table 3. Blast monitoring results for November 2021

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	No blasting occurred during November 2021								
14	Monitoring location BM2									
15	Monitoring location BM3									

Table 4. Noise monitoring results for 23 November 2021

EPA identification no.	Sampling point	Day (L _A eq (15 minute))		Evening (L _A eq (15 minute))		Night (L _A eq (15 minute))		Night (L _{A1} (1 minute))		Exceedance (yes/no)	Observations
		Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level		
16	NM1	45	62	41	60	41	60	52	60	No	Project inaudible
17	NM2	44	44	40	56	40	55	52	55	No	Project inaudible
18	NM3	40	52	35	54	35	57	52	86	No	Project inaudible
-	NM4	40	67	35	68	35	51	52	72	No	Project inaudible
Additional Information											
Date of Final Report	9 December 2021										
Weather Conditions	Wind speed 2.9–4.9 m/s. No rain during monitoring.										
Notes	Measured noise sources included traffic, birds, frogs & insects. The Maxwell Underground Coal Mine Project was inaudible at all locations and times.										

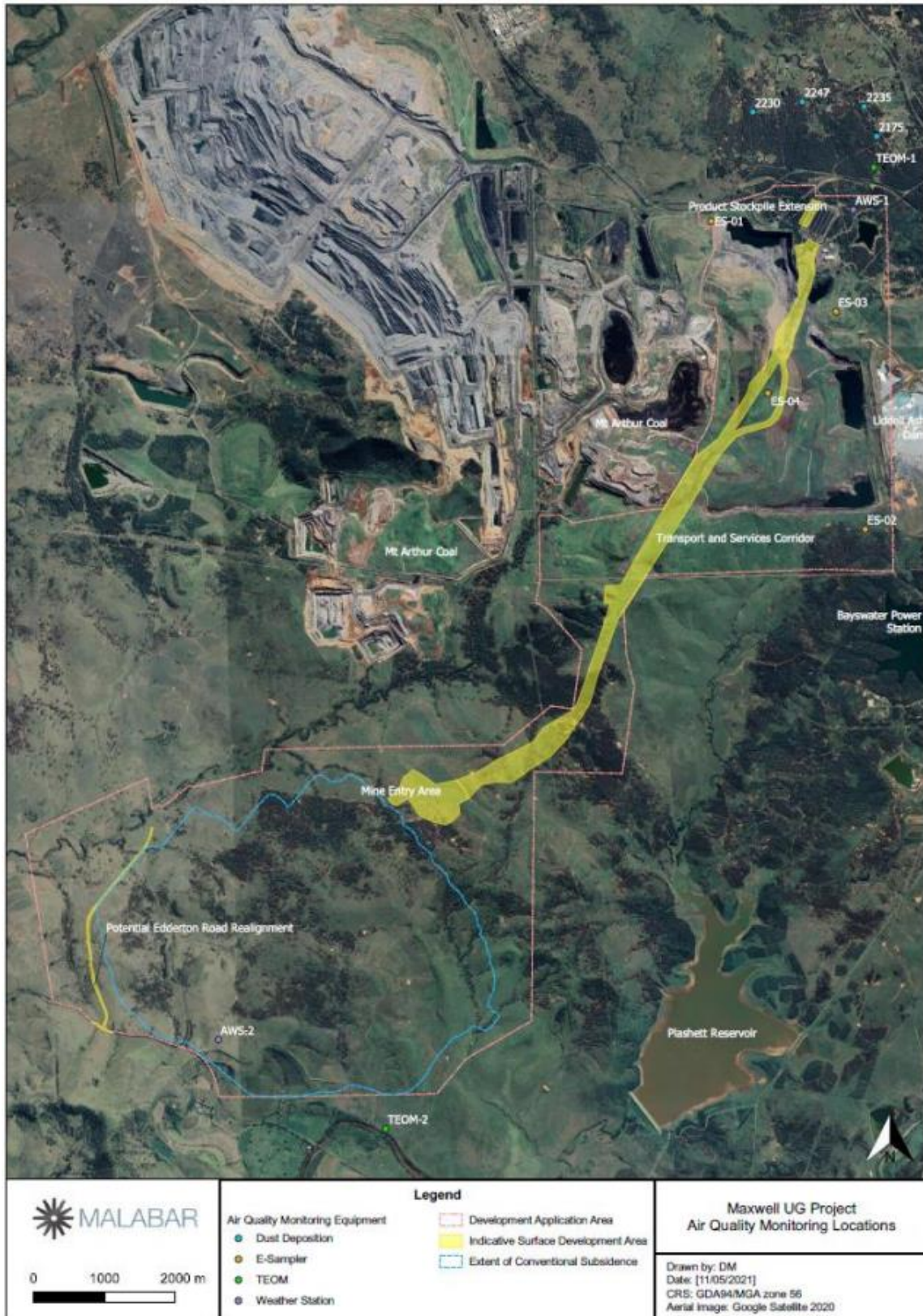
Table 5. Noise monitoring results for 24 November 2021

EPA identification no.	Sampling point	Day (L _A eq (15 minute))		Evening (L _A eq (15 minute))		Night (L _A eq (15 minute))		Night (L _{A1} (1 minute))		Exceedance (yes/no)	Observations
		Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level		
16	NM1	45	67	41	62	41	59	52	63	No	Project inaudible
17	NM2	44	54	40	49	40	38	52	56	No	Project inaudible
18	NM3	40	69	35	70	35	71	52	82	No	Project inaudible
-	NM4	40	51	35	49	35	62	52	75	No	Project inaudible
Additional Information											
Date of Final Report	9 December 2021										
Weather Conditions	Wind speed 0.9–3.5 m/s. No rain during monitoring.										
Notes	Measured noise sources included traffic, insects, birds & frogs. The Maxwell Underground Coal Mine Project was inaudible at all locations and times.										

Table 6. Noise monitoring results for 25 November 2021

EPA identification no.	Sampling point	Day (L _A eq (15 minute))		Evening (L _A eq (15 minute))		Night (L _A eq (15 minute))		Night (L _{A1} (1 minute))		Exceedance (yes/no)	Observations
		Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level		
16	NM1	45	68	41	59	41	48	52	71	No	Project inaudible
17	NM2	44	51	40	52	40	41	52	62	No	Project inaudible
18	NM3	40	73	35	73	35	44	52	59	No	Project inaudible
-	NM4	40	54	35	56	35	63	52	82	No	Project inaudible
Additional Information											
Date of Final Report	9 December 2021										
Weather Conditions	Wind speed 1.0–2.6 m/s. No rain during monitoring.										
Notes	Measured noise sources included traffic, insects, birds & frogs. The Maxwell Underground Coal Mine Project was inaudible at all locations and times.										

APPENDIX 1 – MAPS OF MONITORING LOCATIONS





 0 1000 2000 m 	Legend		Maxwell UG Project Noise and Blast Monitoring Locations
	Development Application Area Indicative Surface Development Area Extent of Conventional Subsidence	Monitoring Locations Attended Noise Monitoring Real-time Noise Monitor Blast Monitor Weather Station	