



Maxwell Underground Coal Mine Project

Environmental Monitoring Data

October 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	October 2021
Date of Publication	29 November 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 October 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	01/10/2021	31/10/2021	micrograms per cubic metre	5 minutes	Continuous	0	19	9	5101
9	ES-02	01/10/2021	31/10/2021	micrograms per cubic metre	5 minutes	Continuous	0	9	8	59
10	ES-03	01/10/2021	31/10/2021	micrograms per cubic metre	5 minutes	Continuous	0	31	8	4068
11	ES-04	01/10/2021	31/10/2021	micrograms per cubic metre	5 minutes	Continuous	0	14	13	69

Table 3. Blast monitoring results for October 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 October 2021								
14	Monitoring location BM2									
15	Monitoring location BM3									

Table 4. Noise monitoring results for 19 October 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	64	41	43	41	43	52	66	No	Project inaudible
17	NM2	44	56	40	44	40	36	52	42	No	Project inaudible
18	NM3	40	57	35	57	35	54	52	79	No	Project inaudible
-	NM4	40	57	35	60	35	37	52	45	No	Project inaudible
Additional Information											
Date of Final Report	29 November 2021										
Weather Conditions	Wind speed 2.5–5.4 m/s. No rain during monitoring.										
Notes	Measured noise sources included traffic, birds, plane, cows, frogs, a nearby mine & insects. The Maxwell Underground Coal Mine Project was inaudible at all locations and times.										

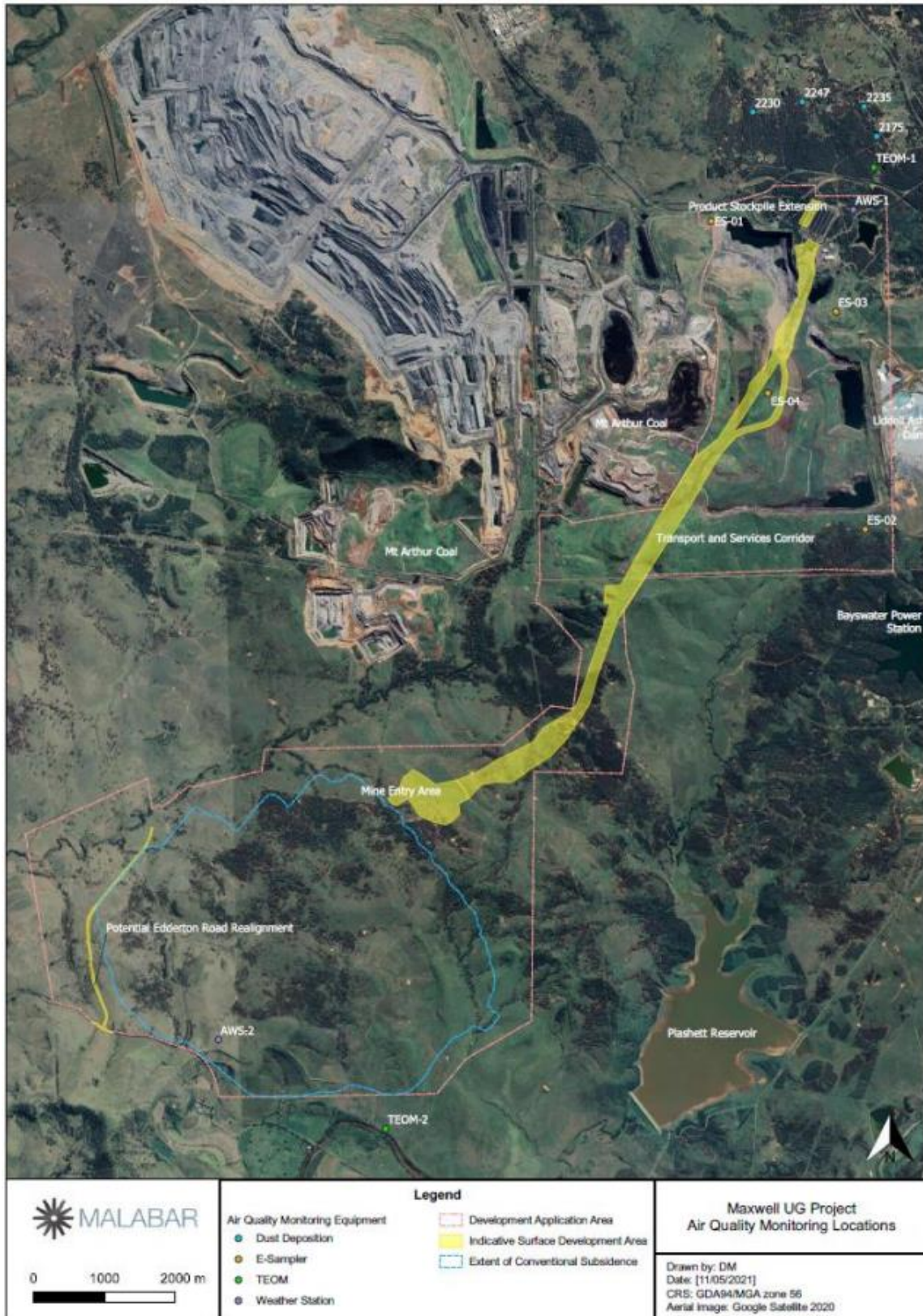
Table 5. Noise monitoring results for 20 October 2021

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	57	41	49	41	53	52	72	No	Project inaudible
17	NM2	44	36	40	41	40	44	52	49	No	Project inaudible
18	NM3	40	51	35	55	35	55	52	70	No	Project inaudible
-	NM4	40	54	35	54	35	43	52	85	No	Project inaudible
Additional Information											
Date of Final Report	29 November 2021										
Weather Conditions	Wind speed 1.4–4.4 m/s. No rain during monitoring.										
Notes	Measured noise sources included traffic, birds, trains, frogs & a nearby mine. The Maxwell Underground Coal Mine Project was inaudible at all locations and times.										

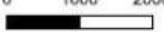
Table 6. Noise monitoring results for 21 October 2021

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	59	41	47	41	46	52	53	No	Project inaudible
17	NM2	44	47	40	41	40	36	52	41	No	Project inaudible
18	NM3	40	51	35	59	35	48	52	55	No	Project inaudible
-	NM4	40	52	35	52	35	58	52	73	No	Project inaudible
Additional Information											
Date of Final Report	29 November 2021										
Weather Conditions	Wind speed 2.2–4.7 m/s. No rain during monitoring.										
Notes	Measured noise sources included traffic, birds, frogs & a nearby mine. 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	