



# Maxwell Underground Coal Mine Project

## Environmental Monitoring Data

### July 2021

## 1 INTRODUCTION

Maxwell Underground Coal Mine Project is owned by Maxwell Ventures (Management) Pty Limited. This report has been compiled to present environmental monitoring data for 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	<a href="http://app.epa.nsw.gov.au/prpoeoapp/">http://app.epa.nsw.gov.au/prpoeoapp/</a>
Reporting Month	July 2021
Date of Publication	12 July 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 July 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	01/07/2021	31/07/2021	micrograms per cubic metre	5 minutes	Continuous	0	21	9	2127
9	ES-02	01/07/2021	31/07/2021	micrograms per cubic metre	5 minutes	Continuous	0	8	7	105
10	ES-03	01/07/2021	31/07/2021	micrograms per cubic metre	5 minutes	Continuous	0	34	7	4188
11	ES-04	01/07/2021	31/07/2021	micrograms per cubic metre	5 minutes	Continuous	0	12	10	70

ES03 exhibited zero concentrations from 20:05 hrs on 30/06/2021 to 20:30 hrs on 1/07/21; the unit then failed to record any data until 11:00 hrs on 13/07/2021. Regular checks by the monitoring contractors alerted Malabar to the issue on 9/7/21 and the site was inspected the same day; it was diagnosed that the solar panel was likely to be the issue; on 13/7 an electrician installed a new solar panel, inverter and new batteries. The issue was in part diagnosed as being due to the presence of the protective cattle fencing surrounding the unit, that in combination with the low angle of the sun during winter, was casting a shadow over the solar panel, causing part-damage to the solar panel plus low charging rates of the batteries. The fencing has been taken down, and the unit will continue to be monitored.

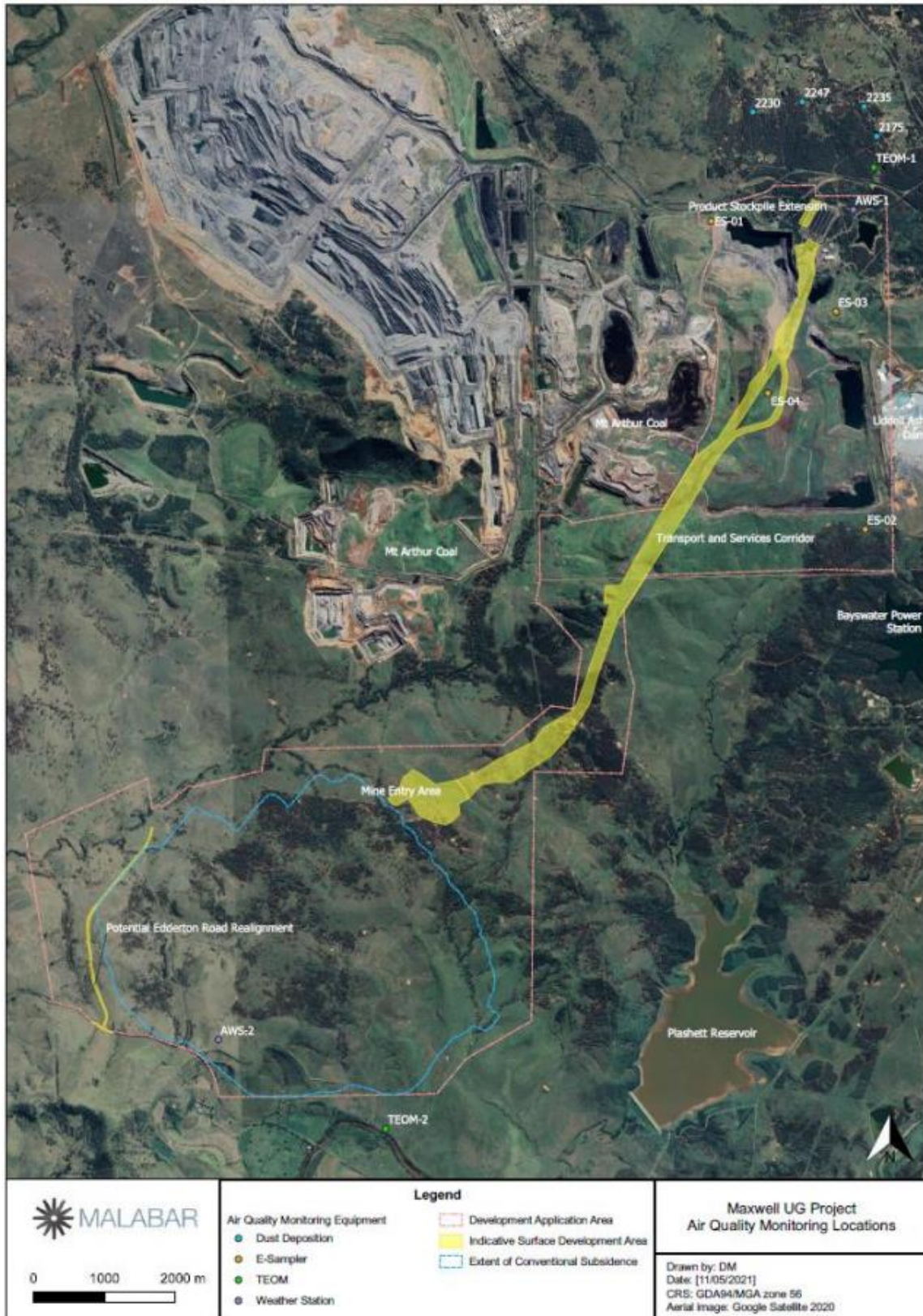
**Table 3. Blast monitoring results for July 2021**

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 Point 13	No blasting occurred during July 2021								
14	Monitoring Point 14									
15	Monitoring Point 15									

**Table 4. Noise monitoring results for July 2021**

EPA identification no.	Sampling point	Day (L <sub>A</sub> eq (15 minute))		Evening (L <sub>A</sub> eq (15 minute))		Night (L <sub>A</sub> eq (15 minute))		Night (L <sub>A1</sub> (1 minute))		Exceedance (yes/no)	Observations
		Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level		
16	NM1	Noise monitoring is not required to be undertaken during the month of July 2021. From the date of the licence amendment (30 July 2021), noise monitoring is required to be conducted every month. Prior to the licence amendment, noise monitoring was required each March and September.									
17	NM2										
18	NM3										
Additional Information											
Date of Final Report	-										
Dates Sampled	-										
Weather Conditions	-										
Notes											

# APPENDIX 1 – MAPS OF MONITORING LOCATIONS





	<p style="text-align: center;"><b>Legend</b></p> <ul style="list-style-type: none"> <li> EPL1323 Premises Boundary</li> <li> Extent of Underground Development</li> <li> Blast Monitoring Locations</li> </ul>	<p><b>Maxwell UG Project</b> <b>Blast Monitoring Locations</b></p>
		<p>Drawn by: DM Date: [21/05/2021] CRS: GDA94/MGA zone 56 Aerial image: Google Satellite 2020</p>





 <p>0 1000 2000 m</p> 	<p style="text-align: center;"><b>Legend</b></p> <ul style="list-style-type: none"> <li> EPL1323 Premises Boundary</li> <li> Extent of Underground Development</li> <li> Noise Monitoring Locations</li> </ul>	<p style="text-align: center;"><b>Maxwell UG Project Noise Monitoring Locations</b></p> <hr/> <p>Drawn by: DM  Date: [28/07/2021]  CRS: GDA94/MGA zone 56  Aerial image: Google Satellite 2020</p>
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