



Maxwell Infrastructure
Environmental Monitoring Data
November 2018

1. Introduction

Maxwell Infrastructure is owned by Malabar Coal. This report has been compiled to present environmental monitoring data for Maxwell Infrastructure 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 are provided in Table 1.

Table 1. A summary of licence and report details

| | |
|---------------------------------------|---|
| Environment Protection Licence Number | 1323 |
| Licensee Details | Malabar Coal (Drayton Management) Pty Limited PMB 9 Muswellbrook NSW 2333 |
| Premises | Maxwell Infrastructure Thomas Mitchell Drive Muswellbrook NSW 2333 |
| Link to the EPA Register | http://app.epa.nsw.gov.au/prpoeoapp/ |
| Reporting Month | November 2018 |
| Date of Publication | 11 December 2018 |
| 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 2018

| Air Quality Monitoring | | | | | | | | | | | | |
|------------------------|----------------|----------------------------|-------------------------------|----------------------------|----------------------------|------------------|----------------------|---------------|------------|--------------|---------------|--------------|
| EPA identification no. | Sampling point | Sampling period start date | Sampling period finished date | Date final report obtained | Unit of measure | Averaging period | Monitoring frequency | Minimum value | Mean value | Median value | Maximum value | Observations |
| 8 | ES-01 | 01/11/2018 | 30/11/2018 | 01/12/2018 | micrograms per cubic metre | 5 minutes | Continuous | 0.00 | 17.87 | 11.00 | 1259.37 | |
| 9 | ES-02 | 01/11/2018 | 30/11/2018 | 01/12/2018 | micrograms per cubic metre | 5 minutes | Continuous | 0.00 | 11.96 | 8.89 | 125.44 | |
| 10 | ES-03 | 01/11/2018 | 30/11/2018 | 01/12/2018 | micrograms per cubic metre | 5 minutes | Continuous | 0.00 | 13.40 | 11.37 | 100.40 | |
| 11 | ES-04 | 01/11/2018 | 30/11/2018 | 01/12/2018 | micrograms per cubic metre | 5 minutes | Continuous | 0.00 | 20.34 | 15.68 | 143.07 | |

ES-03 had operational issues during 4 days of November 2018. The unit was replaced on 27 November 2018.

Table 3. Blast monitoring results for November 2018

| Blast Monitoring | | | | | | | | | | |
|------------------------|----------------|---|----------------------------|-----------------|------------------|----------------|----------------------|---------------------|---------------------|--------------|
| 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 |
| 5 | Sharman | No blasting occurred during the month of November 2018. | | | | | | | | |
| 6 | De Boer | | | | | | | | | |
| 7 | Antiene | | | | | | | | | |

Table 4. Noise monitoring results for November 2018

| Noise Monitoring | | | | | | | | | | | |
|------------------|---------|------------------------------------|----------------|---------------------|----------------|-------------------|----------------|--------------------------------|----------------|------------------------|--------------|
| Sampling point | Period | Noise Limits LA eq (15 minutes) | | | | | | Noise Limits LA1 (1 minute) | | Exceedance (yes/no) | Observations |
| | | Day Criteria | Noise Level | Evening Criteria | Noise Level | Night Criteria | Noise Level | Night Criteria | Noise Level | | |
| 12 | 15 mins | | | | | | | | | | |
| 13 | 15 mins | | | | | | | | | | |
| 14 | 15 mins | | | | | | | | | | |
| 16* | 15 mins | | | | | | | | | | |
| 17 | 15 mins | | | | | | | | | | |
| 18 | 15 mins | | | | | | | | | | |
| 19 | 15 mins | | | | | | | | | | |
| 20 | 15 mins | | | | | | | | | | |
| 21 | 15 mins | | | | | | | | | | |
| 22 | 15 mins | | | | | | | | | | |
| 23 | 15 mins | | | | | | | | | | |
| 25* | 15 mins | | | | | | | | | | |
| 26 | 15 mins | | | | | | | | | | |
| 27 | 15 mins | | | | | | | | | | |
| 28 | 15 mins | | | | | | | | | | |
| 29 | 15 mins | | | | | | | | | | |
| 31 | 15 mins | | | | | | | | | | |
| 32 | 15 mins | | | | | | | | | | |
| 33 | 15 mins | | | | | | | | | | |
| 34 | 15 mins | | | | | | | | | | |
| 35* | 15 mins | | | | | | | | | | |
| 37 | 15 mins | | | | | | | | | | |
| 42* | 15 mins | | | | | | | | | | |
| 61* | 15 mins | | | | | | | | | | |
| 69 | 15 mins | | | | | | | | | | |
| 70 | 15 mins | | | | | | | | | | |

Noise monitoring not required to be undertaken during the month of November 2018.
Noise Monitoring is conducted every 6 months in March and September.

| | | |
|------------------------------------|---------|--|
| 71 | 15 mins | |
| 72* | 15 mins | |
| 75* | 15 mins | |
| 76* | 15 mins | |
| 86 | 15 mins | |
| All Other Privately- Owned Land | 15 mins | |
| Additional Information | | |
| Date of Final Report | | |
| Date Sampled | | |
| Weather Conditions | | |
| Notes | | |

APPENDIX 1 – Maps of monitoring locations





