



MAULES CREEK COAL MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 20221

EPA Website Link: [Hyperlink to Maules Creek Coal, Environment Protection Licence](#)

Licensee: Maules Creek Coal Mine Pty Ltd

Licensee Address: Maules Creek Coal Mine, Therribri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: March 2018

Obtained Date: 15 April 2018

Publication Date: 27 April 2018

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 7th March 2018 by the NSW Environment Protection Authority (EPA).

Monthly Monitoring Summary

Table 1 - Wet Weather Discharge - Surface Water Monitoring

| ID EPL (Site) | Parameter | Units | Frequency | Samples | Date | Laboratory Results Received | Min Value | Mean Value | Median Value | Max / Only Value |
|---------------|--------------|-------|----------------------------------|---------|------|-----------------------------|-----------|------------|--------------|------------------|
| 2 (SD2) | TSS | mg/L | Special Frequency Discharge only | 0 | | | | | | |
| | Conductivity | µs/cm | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| 3 (SD3) | TSS | mg/L | Special Frequency Discharge only | 0 | | | | | | |
| | Conductivity | µs/cm | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| 5 (SD5) | TSS | mg/L | Special Frequency Discharge only | 0 | | | | | | |
| | Conductivity | µs/cm | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| 7 (SD7) | TSS | mg/L | Special Frequency Discharge only | 0 | | | | | | |
| | Conductivity | µs/cm | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| 9 (SD9) | TSS | mg/L | Special Frequency Discharge only | 0 | | | | | | |
| | Conductivity | µs/cm | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |

No discharge at this location this month.

Table 2 - Surface Water Monitoring - Mine Void

| ID EPL (Site) | Parameter | Units | Frequency | Samples | Date | Laboratory Results Received | Min | Mean | Max / Only Value |
|----------------|--------------|-------|----------------|---------|------|-----------------------------|-----|------|------------------|
| 12 (Mine Void) | TSS | mg/L | Every 2 months | 0 | | | | | |
| | Conductivity | µs/cm | | 0 | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | |
| | pH | pH | | 0 | | | | | |

Next Sample April

Table 3 – Groundwater Quality Monitoring

| ID EPL (Bore) | Parameters | Units | Frequency | Samples | Date | Laboratory Results Received | Min | Mean | Max / Only Value |
|------------------|--------------|-------|-----------|---------|-----------------------------|-----------------------------------|-----|------|---------------------|
| 15 (BCM01) | pH | pH | Quarterly | 0 | Bore dry since installation | | | | |
| | Conductivity | µs/cm | | | | | | | |
| | TDS | mg/L | | | | | | | |
| 16 (BCM03) | pH | pH | Quarterly | 0 | Bore dry since installation | | | | |
| | Conductivity | µs/cm | | | | | | | |
| | TDS | mg/L | | | | | | | |
| 17 (REG10A) | pH | pH | Quarterly | 0 | Bore dry since installation | | | | |
| | Conductivity | µs/cm | | | | | | | |
| | TDS | mg/L | | | | | | | |
| 24 (RB05A) | pH | pH | Quarterly | 1 | 22/03/2018 | Yes | | | 7.74 |
| | Conductivity | µs/cm | | | | | | | 1860 |
| | TDS | mg/L | | | | | | | 973 |

Table 4 – Noise Monitoring (Attended – Measured)

| MCC ID | Date | Start Time | Wind Speed (m/s) | MCCP LAeq 15min dB | Limit LAeq 15min (dB) Operations Criteria | MCCP LAeq 1min dB | Limit LA1 (1 min) (dB) Operations Criteria | Weather Rain (mm) | Exceedance (Yes / No) |
|--------|------------|------------|------------------|--------------------|---|-------------------|--|-------------------|-----------------------|
| NM1 | 14/03/2018 | 22:28:00 | 0.4 | IA | 35 | IA | 45 | 0 | Nil |
| NM2 | 14/03/2018 | 23:17:00 | 0.5 | IA | 39 | IA | 45 | 0 | Nil |
| NM3 | 15/03/2018 | 0:09:00 | 2.6 | IA | 35 | IA | 45 | 0 | Nil |
| NM4 | 14/03/2018 | 22:53:00 | 0.4 | IA | 35 | IA | 45 | 0 | Nil |
| NM5 | 14/03/2018 | 22:00:00 | 0.5 | IA | 35 | IA | 45 | 0 | Nil |
| NM6 | 14/03/2018 | 23:43:00 | 1.4 | IA | 35 | IA | 45 | 0 | Nil |

MCC ID = Locations as per the EPL No.20221.

ND = No data due to high prevailing winds during the attended noise monitoring event.

Italicised text indicates wind speed exceeds the 3.0m/s maximum for noise monitoring.

NM = Not Measurable. If site noise is noted as NM, <20 dB or <30 dB, this means some noise was audible but could not be quantified.

IA = Site noise was inaudible at the monitoring location.

Table 5 - Noise Monitoring (Attended - Low Frequency Assessment)

Measured MCCP only levels were assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. None of measurements occurred during which operational activities from MCCP were directly measurable (not “inaudible”, “not measurable” or less than a maximum cut-off value of 30 dB), were within 5 dB of the relevant criterion and where meteorological conditions resulted in criteria applying (in accordance with the project approval). No further assessment has been undertaken.

Table 6 – Blast Monitoring (Blasts – Limits Apply)

| Location | Parameter | Units | Frequency | Number | Average | Max | 100% Limit | Exceedance (Yes / No) |
|-------------------|-----------|---------------|-----------|--------|---------|-------|------------|-----------------------|
| Operations Blasts | Noise | Db (Lin Peak) | All | 10 | 90.88 | 103.9 | 120 | No |
| | Vibration | mm/s | | 10 | 0.26 | 1.11 | 10 | No |

Note: As of March 2018, in accordance with the requirements of the approved variation of EPL 20221; M7.1 blast monitoring results are for four blast monitoring points 31 (BM1), 32 (BM2), 33 (BM3) and 34 (BM4).

Table 7 – Dust Monitoring (Limits Apply)

| ID EPL (Site) | Sample period | Unit | Parameter | Rolling Annual Average | NEPM Annual Criteria | Exceedance (Yes / No) |
|---------------|---------------|-------------------------|------------------|------------------------|----------------------|-----------------------|
| 18 (TEOM1) | Continuous | µg/m ³ month | PM ₁₀ | 9.7 | 30 | No |
| 19 (HVAS) | 6 days | µg/m ³ | PM ₁₀ | 15.7 | 30 | No |

| ID EPL (Site) | Sample period | Particulates Deposited Matter | Rolling Annual Average Insoluble Solids | Criteria | Exceedance (Yes / No) |
|---------------|---------------|-------------------------------|---|----------|-----------------------|
| 20 (DDG1/MC1) | Monthly | g/m ² month | 1.5 | 4 | No |
| 21 (DDG2/MC2) | Monthly | g/m ² month | 2.5 | 4 | No |
| 22 (DDG3/MC3) | Monthly | g/m ² month | 3.4 | 4 | No |
| 23 (DDG4/MC4) | Monthly | g/m ² month | 1.8 | 4 | No |

Figure 1 - EPL 20221 Monitoring Locations

