



## 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:** January 2024

**Obtained Date:** 15<sup>th</sup> February 2024

**Publication Date:** 16<sup>th</sup> February 2024

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2<sup>nd</sup> August 2022 by the NSW Environment Protection Authority (EPA).



## Monthly Monitoring Summary

### Ground Water Monitoring

**Table 1 - Groundwater Quality Monitoring**

| ID<br>EPL (Bore) | Parameters   | Units | Frequency | Samples | Date | Laboratory Results<br>Received | Min | Mean | Max / Only<br>Value |
|------------------|--------------|-------|-----------|---------|------|--------------------------------|-----|------|---------------------|
| 15<br>(BCM01)    | pH           | pH    | Quarterly |         |      |                                |     |      |                     |
|                  | Conductivity | µs/cm |           |         |      |                                |     |      |                     |
|                  | TDS          | mg/L  |           |         |      |                                |     |      |                     |
| 16<br>(BCM03)    | pH           | pH    | Quarterly |         |      |                                |     |      |                     |
|                  | Conductivity | µs/cm |           |         |      |                                |     |      |                     |
|                  | TDS          | mg/L  |           |         |      |                                |     |      |                     |
| 17<br>(REG10A)   | pH           | pH    | Quarterly |         |      |                                |     |      |                     |
|                  | Conductivity | µs/cm |           |         |      |                                |     |      |                     |
|                  | TDS          | mg/L  |           |         |      |                                |     |      |                     |
| 24<br>(RB05A)    | pH           | pH    | Quarterly |         |      |                                |     |      |                     |
|                  | Conductivity | µs/cm |           |         |      |                                |     |      |                     |
|                  | TDS          | mg/L  |           |         |      |                                |     |      |                     |

Next sample in March 2024



## Surface Water Monitoring

**Table 2 – Surface Water Monitoring – Mine Void**

| ID<br>EPL (Site)  | Parameter    | Units | Frequency         | Samples | Date       | Laboratory Results<br>Received | Min | Mean | Max / Only<br>Value |
|-------------------|--------------|-------|-------------------|---------|------------|--------------------------------|-----|------|---------------------|
| 12<br>(Mine Void) | TSS          | mg/L  | Every 2<br>months | 1       | 15/01/2024 |                                |     |      | <5                  |
|                   | Conductivity | µs/cm |                   | 1       | 15/01/2024 |                                |     |      | 1250                |
|                   | Oil & Grease | mg/L  |                   | 1       | 15/01/2024 |                                |     |      | <5                  |
|                   | pH           | pH    |                   | 1       | 15/01/2024 |                                |     |      | 8.17                |

**Table 3 – Wet Weather Discharge - Surface Water Monitoring**

| ID<br>EPL (Site) | Parameter               | Units | Frequency   | Samples | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only Value |
|------------------|-------------------------|-------|---|---------|------|-----------------------------------|--------------|---------------|-----------------|------------------|
| 3<br>(SD3)       | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36. |         |      |                                   |              |               |                 |                  |
|                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                  |
|                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | TSS                     | mg/L  |   |         |      |                                   |              |               |                 |                  |
| 36<br>(SD12)     | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36. |         |      |                                   |              |               |                 |                  |
|                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                  |
|                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | TSS                     | mg/L  |   |         |      |                                   |              |               |                 |                  |
| Conductivity     | µs/cm                   |       |   |         |      |                                   |              |               |                 |                  |

No discharge occurred at these locations in January 2024


**Table 4 – Clean Water Discharge - Surface Water Monitoring**

| ID EPL (Site)                 | Parameter            | Units | Frequency   | Samples | Date | Laboratory Results Received | Min Value | Mean Value | Median Value | Max / Only Value |
|-------------------------------|----------------------|-------|---|---------|------|-----------------------------|-----------|------------|--------------|------------------|
| 38<br>(Flow Meter Upstream)   | Conductivity         | µs/cm | Special Frequency 3 - within 12 hours of discharge from any discharge location. |         |      |                             |           |            |              |                  |
|                               | Nitrate              | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Nitrogen (total)     | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | pH                   | pH    |   |         |      |                             |           |            |              |                  |
|                               | Phosphorous          | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Reactive Phosphorous | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | TSS                  | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Conductivity         | µs/cm |   |         |      |                             |           |            |              |                  |
|                               | Nitrate              | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Nitrogen (total)     | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | pH                   | pH    |   |         |      |                             |           |            |              |                  |
|                               | Phosphorous          | mg/L  |   |         |      |                             |           |            |              |                  |
| Reactive Phosphorous          | mg/L                 |       |   |         |      |                             |           |            |              |                  |
| TSS                           | mg/L                 |       |   |         |      |                             |           |            |              |                  |
| 39<br>(Flow Meter downstream) | Conductivity         | µs/cm | Special Frequency 3 - within 12 hours of discharge from any discharge location. |         |      |                             |           |            |              |                  |
|                               | Nitrate              | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Nitrogen (total)     | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | pH                   | pH    |   |         |      |                             |           |            |              |                  |
|                               | Phosphorous          | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Reactive Phosphorous | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | TSS                  | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Conductivity         | µs/cm |   |         |      |                             |           |            |              |                  |
|                               | Nitrate              | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Nitrogen (total)     | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | pH                   | pH    |   |         |      |                             |           |            |              |                  |
|                               | Phosphorous          | mg/L  |   |         |      |                             |           |            |              |                  |
| Reactive Phosphorous          | mg/L                 |       |   |         |      |                             |           |            |              |                  |

No discharge occurred at these locations in January 2024



|               | TSS          | mg/L  |   |
|---------------|--------------|-------|---|
| 40<br>(HWD8)  | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period |
|               | Conductivity | µs/cm |   |
|               | Oil & Grease | mg/L  |   |
|               | pH           | pH    |   |
| 41<br>(HWD9)  | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period |
|               | Conductivity | µs/cm |   |
|               | Oil & Grease | mg/L  |   |
|               | pH           | pH    |   |
|               | TSS          | mg/L  |   |
|               | Conductivity | µs/cm |   |
|               | Oil & Grease | mg/L  |   |
|               | pH           | pH    |   |
| 42<br>(HWD10) | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or  |
|               | Conductivity | µs/cm |   |
|               | Oil & Grease | mg/L  |   |

No discharge occurred at these locations in January 2024



|               |              |       |  |  |
|---------------|--------------|-------|--|--|
|               | pH           | pH    | within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period   |  |
| 43<br>(HWD11) | TSS          | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period | No discharge occurred at these locations in January 2024 |
|               | Conductivity | µs/cm |  |  |
|               | Oil & Grease | mg/L  |  |  |
|               | pH           | pH    |  |  |
|               | TSS          | mg/L  |  |  |
|               | Conductivity | µs/cm |  |  |
|               | Oil & Grease | mg/L  |  |  |
|               | pH           | pH    |  |  |
| 44<br>(WCWD)  | TSS          | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day                    | No discharge occurred at these locations in January 2024 |
|               | Conductivity | µs/cm |  |  |
|               | Oil & Grease | mg/L  |  |  |
|               | pH           | pH    |  |  |
|               | TSS          | mg/L  |  |  |
|               | Conductivity | µs/cm |  |  |



|  |              |      |                       |  |
|--|--------------|------|-----------------------|--|
|  | Oil & Grease | mg/L | consecutive<br>period |  |
|  | pH           | pH   |                       |  |
|  | pH           | pH   |                       |  |
|  | TSS          | mg/L |                       |  |
|  | Oil & Grease | mg/L |                       |  |
|  | pH           | mg/L |                       |  |
|  | TSS          | pH   |                       |  |



## Noise Monitoring

Table 6 – 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    | 16/01/2024 | 22:30      | 2.9              | IA                 | 35  | IA                | 45   | 0.0               | No                    |
| NM2    | 16/01/2024 | 23:30      | 4.0              | IA                 | 39  | IA                | 45   | 0.0               | No                    |
| NM3    | 16/01/2024 | 23:30      | 4.0              | IA                 | 35  | IA                | 45   | 0.0               | No                    |
| NM4    | 16/01/2024 | 23:00      | 3.3              | IA                 | 35  | IA                | 45   | 0.0               | No                    |
| NM5    | 16/01/2024 | 22:00      | 3.8              | IA                 | 35  | IA                | 45   | 0.0               | No                    |
| NM6    | 16/01/2024 | 23:55      | 3.0              | IA                 | 35  | IA                | 45   | 0.0               | No                    |

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.

N/A in exceedance column means criterion was not applicable due to atmospheric conditions outside those specified in the project approval.

## Table 7 - Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.



## Blast Monitoring

Table 8 – Blast Monitoring (Blasts – Limits Apply)

| Location             | Parameter    | Units         | Frequency | Number | Average | Max   | 100% Limit | Exceedance<br>(Yes / No) |
|----------------------|--------------|---------------|-----------|--------|---------|-------|------------|--------------------------|
| Operations<br>Blasts | Overpressure | Db (Lin Peak) | All       | 12     | 93.7    | 109.1 | 120        | No                       |
|                      | Vibration    | mm/s          |           | 12     | 0.09    | 0.25  | 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).*



## Air Quality Monitoring

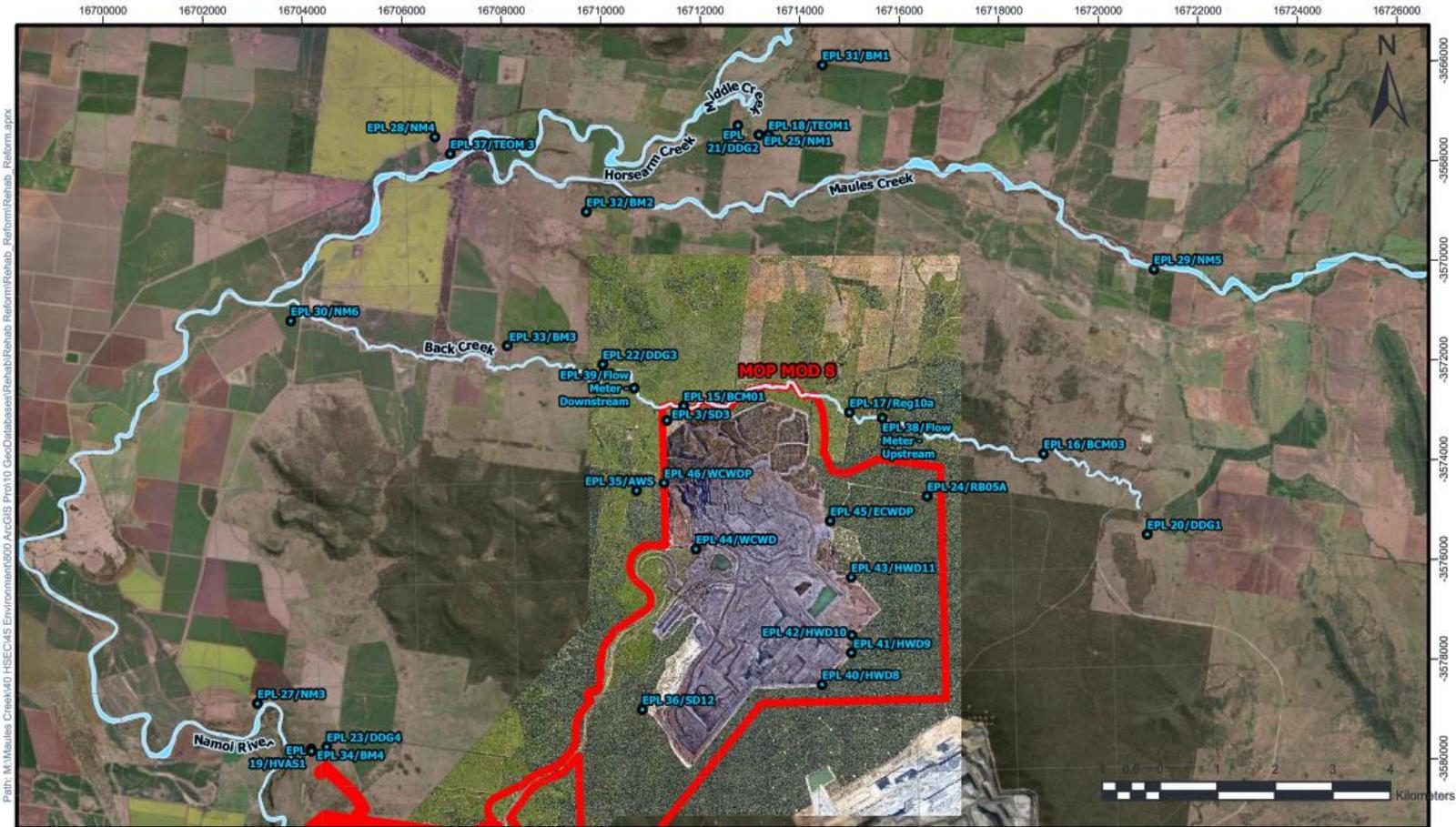
Table 9 – PM<sub>10</sub> (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Unit                    | Parameter        | Rolling<br>Annual<br>Average | NEPM<br>Annual<br>Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------|------------------|------------------------------|----------------------------|--------------------------|
| 18<br>(TEOM1)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 11.8                         | 30                         | No                       |
| 37<br>(TEOM3)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 14.1                         | 30                         | No                       |
| 19<br>(HVAS)     | 6 days           | µg/m <sup>3</sup>       | PM <sub>10</sub> | 15.6                         | 30                         | No                       |

Table 10 – Depositional Dust (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Particulates<br>Deposited<br>Matter | Rolling<br>Annual<br>Average<br>Insoluble<br>Solids | Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------------------|---|----------|--------------------------|
| 20<br>(DDG1/MC1) | Monthly          | g/m <sup>2</sup> month              | 2.2   | 4        | No                       |
| 21<br>(DDG2/MC2) | Monthly          | g/m <sup>2</sup> month              | 1.8   | 4        | No                       |
| 22<br>(DDG3/MC3) | Monthly          | g/m <sup>2</sup> month              | 1.9   | 4        | No                       |
| 23<br>(DDG4/MC4) | Monthly          | g/m <sup>2</sup> month              | 1.2   | 4        | No                       |

Figure 1 – EPL 20221 Monitoring Locations



**EPL20221 Monitoring Locations - 2/08/2022**

- Legend
- EPL Monitoring locations
  - 05 Project Boundary\_Boundaries
  - MCCM Project Boundary (Mod 8)

Scale: 1:88,442  
 Author: shenanewman  
 Date Exported: 16/09/2022 11:51 AM  
 Spatial Reference Name: GDA2020 MGA Zone 56

Maules Creek Coal



Disclaimer: Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within. MCC shall have no liability for any decisions made or actions taken based upon this map.



## MAULES CREEK COAL MINE – MONTHLY MONITORING SUMMARY

### Site Information

**EPL No:** 20221

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**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:** February 2024

**Obtained Date:** 15<sup>th</sup> March 2024

**Publication Date:** 16<sup>th</sup> March 2024

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2<sup>nd</sup> August 2022 by the NSW Environment Protection Authority (EPA).



## Monthly Monitoring Summary

### Ground Water Monitoring

**Table 1 – Groundwater Quality Monitoring**

| ID<br>EPL (Bore) | Parameters   | Units | Frequency | Samples | Date | Laboratory Results<br>Received | Min | Mean | Max / Only<br>Value |
|------------------|--------------|-------|-----------|---------|------|--------------------------------|-----|------|---------------------|
| 15<br>(BCM01)    | pH           | pH    | Quarterly |         |      |                                |     |      |                     |
|                  | Conductivity | µs/cm |           |         |      |                                |     |      |                     |
|                  | TDS          | mg/L  |           |         |      |                                |     |      |                     |
| 16<br>(BCM03)    | pH           | pH    | Quarterly |         |      |                                |     |      |                     |
|                  | Conductivity | µs/cm |           |         |      |                                |     |      |                     |
|                  | TDS          | mg/L  |           |         |      |                                |     |      |                     |
| 17<br>(REG10A)   | pH           | pH    | Quarterly |         |      |                                |     |      |                     |
|                  | Conductivity | µs/cm |           |         |      |                                |     |      |                     |
|                  | TDS          | mg/L  |           |         |      |                                |     |      |                     |
| 24<br>(RB05A)    | pH           | pH    | Quarterly |         |      |                                |     |      |                     |
|                  | Conductivity | µs/cm |           |         |      |                                |     |      |                     |
|                  | TDS          | mg/L  |           |         |      |                                |     |      |                     |

Next sample in March 2024

## Surface Water Monitoring

### Table 2 – Surface Water Monitoring – Mine Void

| ID EPL (Site)     | Parameter    | Units | Frequency      | Samples | Date       | Laboratory Results Received | Min | Mean | Max / Only Value |
|-------------------|--------------|-------|----------------|---------|------------|-----------------------------|-----|------|------------------|
| 12<br>(Mine Void) | TSS          | mg/L  | Every 2 months | 1       | 13/02/2024 |                             |     |      | <5               |
|                   | Conductivity | µs/cm |                |         |            |                             |     |      | 1180             |
|                   | Oil & Grease | mg/L  |                |         |            |                             |     |      | <5               |
|                   | pH           | pH    |                |         |            |                             |     |      | 8.28             |

\*report amended on 17/04/2024 to include mine void monitoring results

### Table 3 – 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 |
|---------------|----------------------|-------|--|---------|------|-----------------------------|-----------|------------|--------------|------------------|
| 3<br>(SD3)    | Conductivity         | µs/cm | Special Frequency 1 - within 12 hours of discharge from EPL 3 or 36. |         |      |                             |           |            |              |                  |
|               | Nitrate              | mg/L  |  |         |      |                             |           |            |              |                  |
|               | Nitrogen (total)     | mg/L  |  |         |      |                             |           |            |              |                  |
|               | Oil & Grease         | mg/L  |  |         |      |                             |           |            |              |                  |
|               | pH                   | pH    |  |         |      |                             |           |            |              |                  |
|               | Phosphorous          | mg/L  |  |         |      |                             |           |            |              |                  |
|               | Reactive Phosphorous | mg/L  |  |         |      |                             |           |            |              |                  |
| 36<br>(SD12)  | TSS                  | mg/L  | Special Frequency 1 - within 12 hours of discharge from EPL 3 or 36  |         |      |                             |           |            |              |                  |
|               | Conductivity         | µs/cm |  |         |      |                             |           |            |              |                  |
|               | Nitrate              | mg/L  |  |         |      |                             |           |            |              |                  |
|               | Nitrogen (total)     | mg/L  |  |         |      |                             |           |            |              |                  |
|               | Oil & Grease         | mg/L  |  |         |      |                             |           |            |              |                  |
|               | pH                   | pH    |  |         |      |                             |           |            |              |                  |
|               | Phosphorous          | mg/L  |  |         |      |                             |           |            |              |                  |
|               | Reactive Phosphorous | mg/L  |  |         |      |                             |           |            |              |                  |
| TSS           | mg/L                 |       |  |         |      |                             |           |            |              |                  |
| Conductivity  | µs/cm                |       |  |         |      |                             |           |            |              |                  |

No discharge occurred at these locations in February 2024



**Table 4 – Clean Water Discharge - Surface Water Monitoring**

| ID EPL (Site)                 | Parameter            | Units | Frequency   | Samples | Date | Laboratory Results Received | Min Value | Mean Value | Median Value | Max / Only Value |
|-------------------------------|----------------------|-------|---|---------|------|-----------------------------|-----------|------------|--------------|------------------|
| 38<br>(Flow Meter Upstream)   | Conductivity         | µs/cm | Special Frequency 3 - within 12 hours of discharge from any discharge location. |         |      |                             |           |            |              |                  |
|                               | Nitrate              | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Nitrogen (total)     | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | pH                   | pH    |   |         |      |                             |           |            |              |                  |
|                               | Phosphorous          | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Reactive Phosphorous | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | TSS                  | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Conductivity         | µs/cm |   |         |      |                             |           |            |              |                  |
|                               | Nitrate              | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Nitrogen (total)     | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | pH                   | pH    |   |         |      |                             |           |            |              |                  |
|                               | Phosphorous          | mg/L  |   |         |      |                             |           |            |              |                  |
| Reactive Phosphorous          | mg/L                 |       |   |         |      |                             |           |            |              |                  |
| TSS                           | mg/L                 |       |   |         |      |                             |           |            |              |                  |
| 39<br>(Flow Meter downstream) | Conductivity         | µs/cm | Special Frequency 3 - within 12 hours of discharge from any discharge location. |         |      |                             |           |            |              |                  |
|                               | Nitrate              | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Nitrogen (total)     | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | pH                   | pH    |   |         |      |                             |           |            |              |                  |
|                               | Phosphorous          | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Reactive Phosphorous | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | TSS                  | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Conductivity         | µs/cm |   |         |      |                             |           |            |              |                  |
|                               | Nitrate              | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Nitrogen (total)     | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | pH                   | pH    |   |         |      |                             |           |            |              |                  |
|                               | Phosphorous          | mg/L  |   |         |      |                             |           |            |              |                  |
| Reactive Phosphorous          | mg/L                 |       |   |         |      |                             |           |            |              |                  |

No discharge occurred at these locations in February 2024



|               | TSS          | mg/L  |   |
|---------------|--------------|-------|---|
| 40<br>(HWD8)  | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period |
|               | Conductivity | µs/cm |   |
|               | Oil & Grease | mg/L  |   |
|               | pH           | pH    |   |
| 41<br>(HWD9)  | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period |
|               | Conductivity | µs/cm |   |
|               | Oil & Grease | mg/L  |   |
|               | pH           | pH    |   |
|               | TSS          | mg/L  |   |
|               | Conductivity | µs/cm |   |
|               | Oil & Grease | mg/L  |   |
|               | pH           | pH    |   |
| 42<br>(HWD10) | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or  |
|               | Conductivity | µs/cm |   |
|               | Oil & Grease | mg/L  |   |

No discharge occurred at these locations in February 2024



|               |              |       |   |   |
|---------------|--------------|-------|---|---|
|               | pH           | pH    | within 12 hours of discharge caused by 38.4mm in a 5 Day consecutive period   |   |
| 43<br>(HWD11) | TSS          | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12 hours of discharge caused by 38.4mm in a 5 Day consecutive period | No discharge occurred at these locations in February 2024 |
|               | Conductivity | µs/cm |   |   |
|               | Oil & Grease | mg/L  |   |   |
|               | pH           | pH    |   |   |
|               | TSS          | mg/L  |   |   |
|               | Conductivity | µs/cm |   |   |
|               | Oil & Grease | mg/L  |   |   |
|               | pH           | pH    |   |   |
| 44<br>(WCWD)  | TSS          | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12 hours of discharge caused by 38.4mm in a 5 Day                    | No discharge occurred at these locations in February 2024 |
|               | Conductivity | µs/cm |   |   |
|               | Oil & Grease | mg/L  |   |   |
|               | pH           | pH    |   |   |
|               | TSS          | mg/L  |   |   |
|               | Conductivity | µs/cm |   |   |



|  | Oil & Grease | mg/L | consecutive<br>period |  |
|--|--------------|------|-----------------------|--|
|  | pH           | pH   |                       |  |
|  | pH           | pH   |                       |  |
|  | TSS          | mg/L |                       |  |
|  | Oil & Grease | mg/L |                       |  |
|  | pH           | mg/L |                       |  |
|  | TSS          | pH   |                       |  |

## Noise Monitoring

Table 6 – 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    | 27/02/2024 | 22:30      | 4.3              | IA                 | 35  | IA                | 45   | 0.0               | No                    |
| NM2    | 27/02/2024 | 23:38      | 4.2              | IA                 | 39  | IA                | 45   | 0.0               | No                    |
| NM3    | 27/02/2024 | 23:21      | 3.8              | IA                 | 35  | IA                | 45   | 0.0               | No                    |
| NM4    | 27/02/2024 | 23:00      | 4.3              | IA                 | 35  | IA                | 45   | 0.0               | No                    |
| NM5    | 27/02/2024 | 22:00      | 3.1              | IA                 | 35  | IA                | 45   | 0.0               | No                    |
| NM6    | 28/02/2024 | 00:04      | 3.7              | IA                 | 35  | IA                | 45   | 0.0               | No                    |

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.

N/A in exceedance column means criterion was not applicable due to atmospheric conditions outside those specified in the project approval.

## Table 7 - Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.

## Blast Monitoring

Table 8 – Blast Monitoring (Blasts – Limits Apply)

| Location          | Parameter    | Units         | Frequency | Number | Average | Max    | 100% Limit | Exceedance (Yes / No) |
|-------------------|--------------|---------------|-----------|--------|---------|--------|------------|-----------------------|
| Operations Blasts | Overpressure | Db (Lin Peak) | All       | 7      | 96.43   | 112.70 | 120        | No                    |
|                   | Vibration    | mm/s          |           | 7      | 0.11    | 0.36   | 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).

## Air Quality Monitoring

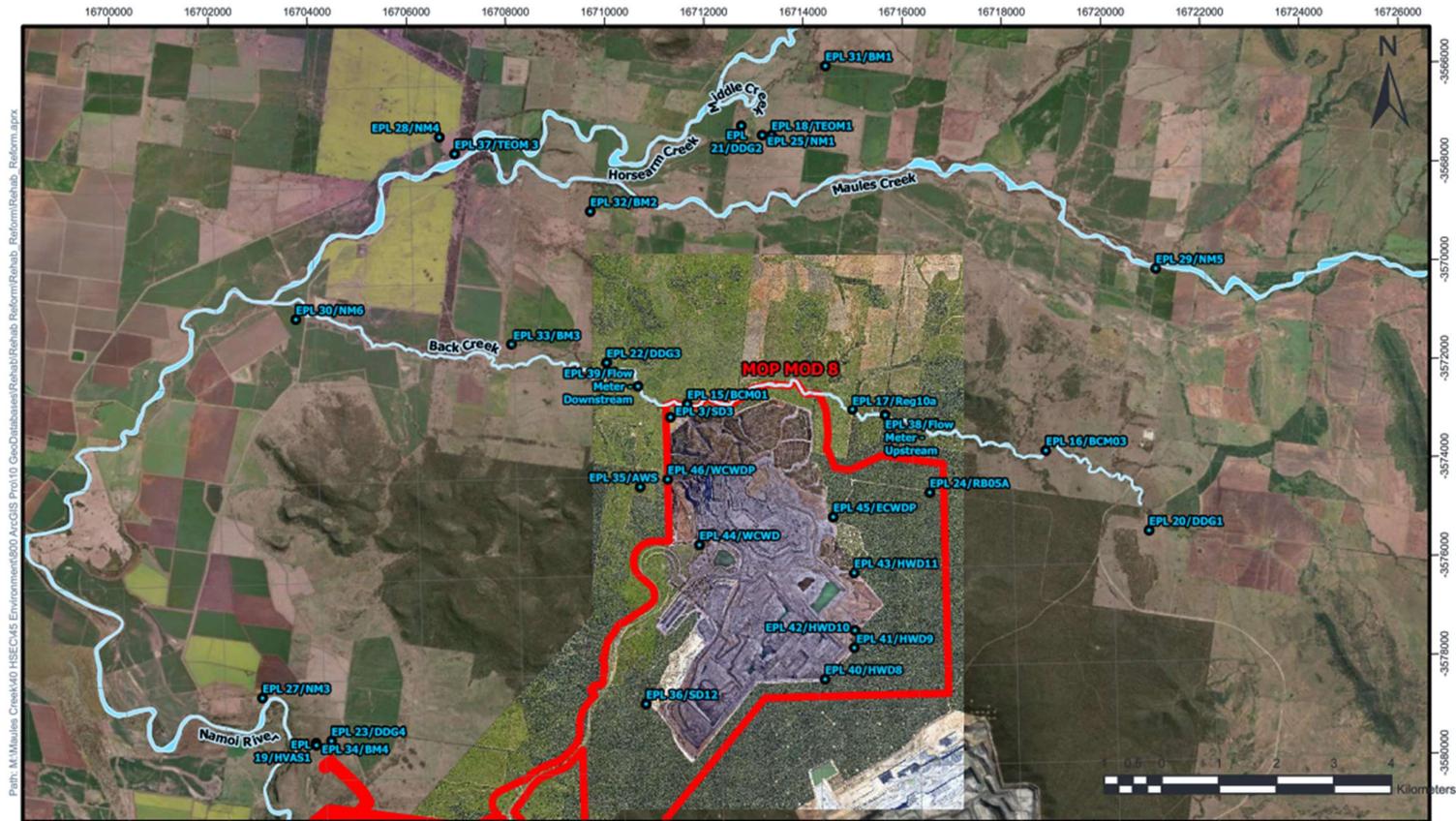
Table 9 – PM<sub>10</sub> (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Unit                    | Parameter        | Rolling<br>Annual<br>Average | NEPM<br>Annual<br>Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------|------------------|------------------------------|----------------------------|--------------------------|
| 18<br>(TEOM1)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 11.7                         | 30                         | No                       |
| 37<br>(TEOM3)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 14.3                         | 30                         | No                       |
| 19<br>(HVAS)     | 6 days           | µg/m <sup>3</sup>       | PM <sub>10</sub> | 15.3                         | 30                         | No                       |

Table 10 – Depositional Dust (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Particulates<br>Deposited<br>Matter | Rolling<br>Annual<br>Average<br>Insoluble<br>Solids | Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------------------|---|----------|--------------------------|
| 20<br>(DDG1/MC1) | Monthly          | g/m <sup>2</sup> month              | 2.2   | 4        | No                       |
| 21<br>(DDG2/MC2) | Monthly          | g/m <sup>2</sup> month              | 2.1   | 4        | No                       |
| 22<br>(DDG3/MC3) | Monthly          | g/m <sup>2</sup> month              | 2.0   | 4        | No                       |
| 23<br>(DDG4/MC4) | Monthly          | g/m <sup>2</sup> month              | 1.2   | 4        | No                       |

Figure 1 – EPL 20221 Monitoring Locations



**EPL20221 Monitoring Locations - 2/08/2022**

Legend

- EPL Monitoring locations
- 05 Project Boundary\_Boundaries
- MCCM Project Boundary (Mod 8)

Maules Creek Coal

Scale: 1:88,442  
 Author: shenanewman  
 Date Exported: 18/09/2022 11:51 AM  
 Spatial Reference  
 Name: GDA2020 MGA Zone 56



Disclaimer: Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within. MCC shall have no liability for any decisions made or actions taken based upon this map.



## 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 2024

**Obtained Date:** 16<sup>th</sup> April 2024

**Publication Date:** 17<sup>th</sup> April 2024

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2<sup>nd</sup> August 2022 by the NSW Environment Protection Authority (EPA).



## Monthly Monitoring Summary

### Ground Water Monitoring

**Table 1 – Groundwater Quality Monitoring**

| ID<br>EPL (Bore) | Parameters   | Units | Frequency | Samples | Date       | Laboratory<br>Results Received | Min | Mean | Max / Only<br>Value            |
|------------------|--------------|-------|-----------|---------|------------|--------------------------------|-----|------|--------------------------------|
| 15<br>(BCM01)    | pH           | pH    | Quarterly | 0       |            |                                |     |      | Dry – Next sample in June 2024 |
|                  | Conductivity | µs/cm |           |         |            |                                |     |      |                                |
|                  | TDS          | mg/L  |           |         |            |                                |     |      |                                |
| 16<br>(BCM03)    | pH           | pH    | Quarterly | 0       |            |                                |     |      | Dry – Next sample in June 2024 |
|                  | Conductivity | µs/cm |           |         |            |                                |     |      |                                |
|                  | TDS          | mg/L  |           |         |            |                                |     |      |                                |
| 17<br>(REG10A)   | pH           | pH    | Quarterly | 0       |            |                                |     |      | Dry – Next sample in June 2024 |
|                  | Conductivity | µs/cm |           |         |            |                                |     |      |                                |
|                  | TDS          | mg/L  |           |         |            |                                |     |      |                                |
| 24<br>(RB05A)    | pH           | pH    | Quarterly | 1       | 01/03/2024 | Yes                            |     |      | 7.54                           |
|                  | Conductivity | µs/cm |           |         |            |                                |     |      | 1970                           |
|                  | TDS          | mg/L  |           |         |            |                                |     |      | 1450                           |



## Surface Water Monitoring

Table 2 – Surface Water Monitoring – Mine Void

| ID<br>EPL (Site)  | Parameter    | Units | Frequency         | Samples                | Date | Laboratory Results<br>Received | Min | Mean | Max / Only<br>Value |  |
|-------------------|--------------|-------|-------------------|------------------------|------|--------------------------------|-----|------|---------------------|--|
| 12<br>(Mine Void) | TSS          | mg/L  | Every 2<br>months | Next Sample April 2024 |      |                                |     |      |                     |  |
|                   | Conductivity | µs/cm |                   |                        |      |                                |     |      |                     |  |
|                   | Oil & Grease | mg/L  |                   |                        |      |                                |     |      |                     |  |
|                   | pH           | pH    |                   |                        |      |                                |     |      |                     |  |

Table 3 – Wet Weather Discharge - Surface Water Monitoring

| ID<br>EPL (Site) | Parameter               | Units | Frequency   | Samples   | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only<br>Value |  |
|------------------|-------------------------|-------|---|---|------|-----------------------------------|--------------|---------------|-----------------|---------------------|--|
| 3<br>(SD3)       | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36. | No discharge occurred from this monitoring location during March 2024 |      |                                   |              |               |                 |                     |  |
|                  | Nitrate                 | mg/L  |   |   |      |                                   |              |               |                 |                     |  |
|                  | Nitrogen (total)        | mg/L  |   |   |      |                                   |              |               |                 |                     |  |
|                  | Oil & Grease            | mg/L  |   |   |      |                                   |              |               |                 |                     |  |
|                  | pH                      | pH    |   |   |      |                                   |              |               |                 |                     |  |
|                  | Phosphorous             | mg/L  |   |   |      |                                   |              |               |                 |                     |  |
|                  | Reactive<br>Phosphorous | mg/L  |   |   |      |                                   |              |               |                 |                     |  |
|                  | TSS                     | mg/L  |   |   |      |                                   |              |               |                 |                     |  |
| 36<br>(SD12)     | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36  | No discharge occurred from this monitoring location during March 2024 |      |                                   |              |               |                 |                     |  |
|                  | Nitrate                 | mg/L  |   |   |      |                                   |              |               |                 |                     |  |
|                  | Nitrogen (total)        | mg/L  |   |   |      |                                   |              |               |                 |                     |  |
|                  | Oil & Grease            | mg/L  |   |   |      |                                   |              |               |                 |                     |  |
|                  | pH                      | pH    |   |   |      |                                   |              |               |                 |                     |  |
|                  | Phosphorous             | mg/L  |   |   |      |                                   |              |               |                 |                     |  |
|                  | Reactive<br>Phosphorous | mg/L  |   |   |      |                                   |              |               |                 |                     |  |
|                  | TSS                     | mg/L  |   |   |      |                                   |              |               |                 |                     |  |
| Conductivity     | µs/cm                   |       |   |   |      |                                   |              |               |                 |                     |  |

Table 4 – Clean Water Discharge - Surface Water Monitoring

| ID EPL (Site)                 | Parameter            | Units | Frequency   | Samples | Date | Laboratory Results Received | Min Value | Mean Value | Median Value | Max / Only Value |
|-------------------------------|----------------------|-------|---|---------|------|-----------------------------|-----------|------------|--------------|------------------|
| 38<br>(Flow Meter Upstream)   | Conductivity         | µs/cm | Special Frequency 3 - within 12 hours of discharge from any discharge location. |         |      |                             |           |            |              |                  |
|                               | Nitrate              | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Nitrogen (total)     | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | pH                   | pH    |   |         |      |                             |           |            |              |                  |
|                               | Phosphorous          | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Reactive Phosphorous | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | TSS                  | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Conductivity         | µs/cm |   |         |      |                             |           |            |              |                  |
|                               | Nitrate              | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Nitrogen (total)     | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | pH                   | pH    |   |         |      |                             |           |            |              |                  |
|                               | Phosphorous          | mg/L  |   |         |      |                             |           |            |              |                  |
| Reactive Phosphorous          | mg/L                 |       |   |         |      |                             |           |            |              |                  |
| TSS                           | mg/L                 |       |   |         |      |                             |           |            |              |                  |
| 39<br>(Flow Meter downstream) | Conductivity         | µs/cm | Special Frequency 3 - within 12 hours of discharge from any discharge location. |         |      |                             |           |            |              |                  |
|                               | Nitrate              | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Nitrogen (total)     | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | pH                   | pH    |   |         |      |                             |           |            |              |                  |
|                               | Phosphorous          | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Reactive Phosphorous | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | TSS                  | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Conductivity         | µs/cm |   |         |      |                             |           |            |              |                  |
|                               | Nitrate              | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Nitrogen (total)     | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |   |         |      |                             |           |            |              |                  |
|                               | pH                   | pH    |   |         |      |                             |           |            |              |                  |
|                               | Phosphorous          | mg/L  |   |         |      |                             |           |            |              |                  |
| Reactive Phosphorous          | mg/L                 |       |   |         |      |                             |           |            |              |                  |

No flow was recorded at these sites.



|               | TSS          | mg/L  |   |
|---------------|--------------|-------|---|
| 40<br>(HWD8)  | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period |
|               | Conductivity | µs/cm |   |
|               | Oil & Grease | mg/L  |   |
|               | pH           | pH    |   |
| 41<br>(HWD9)  | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period |
|               | Conductivity | µs/cm |   |
|               | Oil & Grease | mg/L  |   |
|               | pH           | pH    |   |
|               | TSS          | mg/L  |   |
|               | Conductivity | µs/cm |   |
|               | Oil & Grease | mg/L  |   |
|               | pH           | pH    |   |
| 42<br>(HWD10) | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or  |
|               | Conductivity | µs/cm |   |
|               | Oil & Grease | mg/L  |   |



|               |              |       |  |  |
|---------------|--------------|-------|--|--|
|               | pH           | pH    | within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period   |  |
| 43<br>(HWD11) | TSS          | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period |  |
|               | Conductivity | µs/cm |  |  |
|               | Oil & Grease | mg/L  |  |  |
|               | pH           | pH    |  |  |
|               | TSS          | mg/L  |  |  |
|               | Conductivity | µs/cm |  |  |
|               | Oil & Grease | mg/L  |  |  |
|               | pH           | pH    |  |  |
| 44<br>(WCWD)  | TSS          | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day                    |  |
|               | Conductivity | µs/cm |  |  |
|               | Oil & Grease | mg/L  |  |  |
|               | pH           | pH    |  |  |
|               | TSS          | mg/L  |  |  |
|               | Conductivity | µs/cm |  |  |



|               |              |      |  |  |
|---------------|--------------|------|--|--|
|               | Oil & Grease | mg/L | consecutive period                               |  |
|               | pH           | pH   |  |  |
| 45<br>(ECWDP) | Oil & Grease | mg/L | not more than 12 hours after discharge commences |  |
|               | pH           | pH   |  |  |
|               | TSS          | mg/L |  |  |
|               | Oil & Grease | mg/L |  |  |
|               | pH           | pH   |  |  |
|               | TSS          | mg/L |  |  |
| 46<br>(WCWDP) | Oil & Grease | mg/L | not more than 12 hours after discharge commences |  |
|               | pH           | pH   |  |  |
|               | TSS          | mg/L |  |  |
|               | Oil & Grease | mg/L |  |  |
|               | pH           | mg/L |  |  |
|               | TSS          | pH   |  |  |

## Noise Monitoring

Table 5 – 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    | 18/03/2024 | 22:30      | 2.3              | IA                 | 35  | IA                | 45   | 0.0               | NA                    |
| NM2    | 18/03/2024 | 23:30      | 0.6              | <20                | 39  | 25                | 45   | 0.0               | NA                    |
| NM3    | 19/03/2024 | 00:22      | 1.0              | <20                | 35  | <25               | 45   | 0.0               | NA                    |
| NM4    | 18/03/2024 | 23:00      | 2.0              | IA                 | 35  | IA                | 45   | 0.0               | NA                    |
| NM5    | 18/03/2024 | 22:00      | 3.0              | IA                 | 35  | IA                | 45   | 0.0               | NA                    |
| NM6    | 18/03/2024 | 23:55      | 1.2              | IA                 | 35  | IA                | 45   | 0.0               | NA                    |

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.

N/A in exceedance column means criterion was not applicable due to atmospheric conditions outside those specified in the project approval.

Table 6 - Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.

## Blast Monitoring

Table 7 – Blast Monitoring (Blasts – Limits Apply)

| Location             | Parameter    | Units         | Frequency | Number | Average | Max    | 100% Limit | Exceedance<br>(Yes / No) |
|----------------------|--------------|---------------|-----------|--------|---------|--------|------------|--------------------------|
| Operations<br>Blasts | Overpressure | Db (Lin Peak) | All       | 11     | 93.43   | 108.80 | 120        | No                       |
|                      | Vibration    | mm/s          |           | 11     | 0.09    | 0.37   | 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).*

## Air Quality Monitoring

Table 8 – PM<sub>10</sub> (Limits Apply)

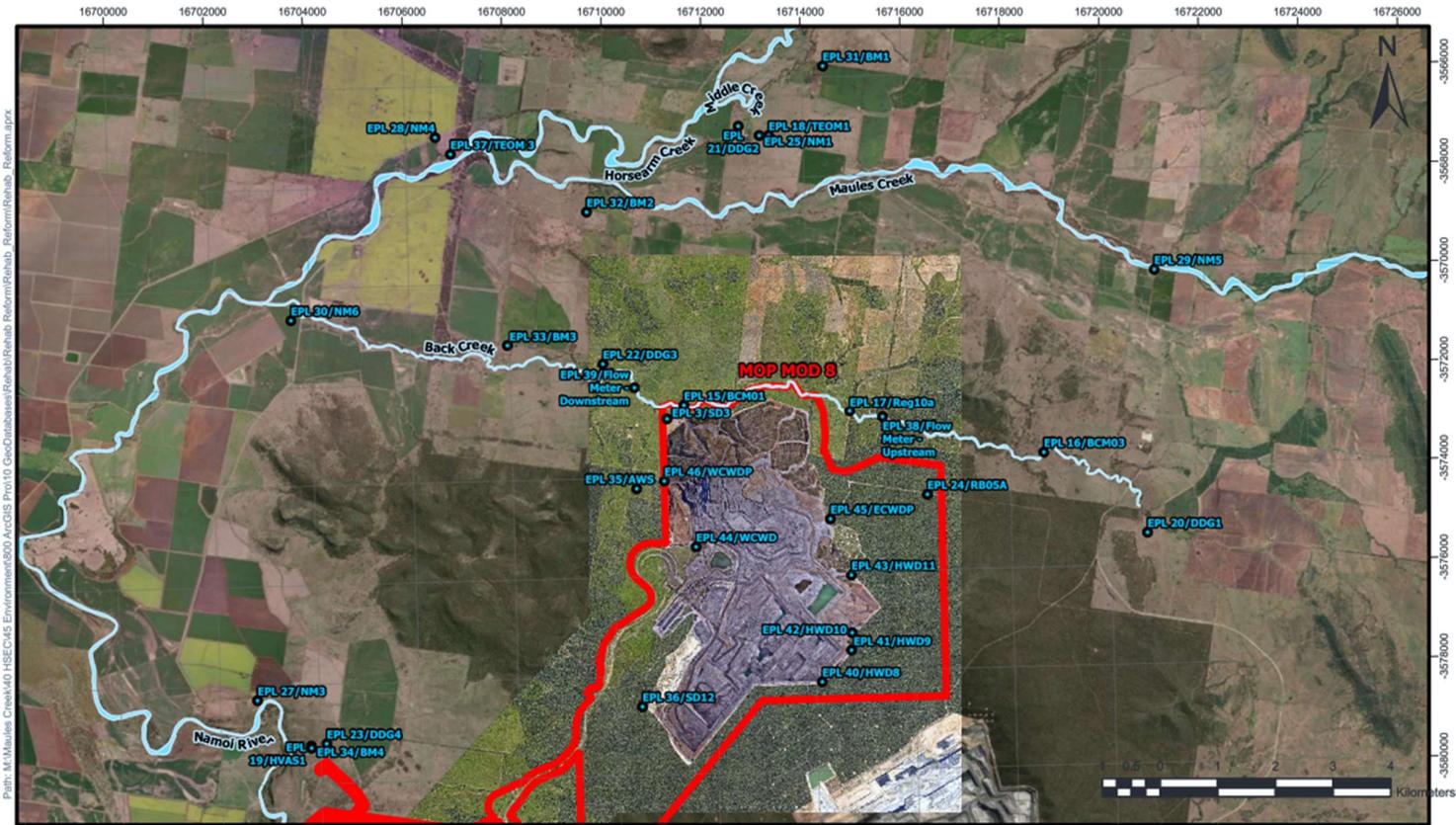
| ID<br>EPL (Site) | Sample<br>period | Unit                    | Parameter        | Rolling<br>Annual<br>Average | NEPM<br>Annual<br>Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------|------------------|------------------------------|----------------------------|--------------------------|
| 18<br>(TEOM1)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 11.4                         | 30                         | No                       |
| 37<br>(TEOM3)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 14.1                         | 30                         | No                       |
| 19<br>(HVAS)     | 6 days           | µg/m <sup>3</sup>       | PM <sub>10</sub> | 15.3                         | 30                         | No                       |

Table 9 – Depositional Dust (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Particulates<br>Deposited<br>Matter | Rolling<br>Annual<br>Average<br>Insoluble<br>Solids | Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------------------|---|----------|--------------------------|
| 20<br>(DDG1/MC1) | Monthly          | g/m <sup>2</sup> month              | 2.2   | 4        | No                       |
| 21<br>(DDG2/MC2) | Monthly          | g/m <sup>2</sup> month              | 2.1   | 4        | No                       |
| 22<br>(DDG3/MC3) | Monthly          | g/m <sup>2</sup> month              | 2.1   | 4        | No                       |
| 23<br>(DDG4/MC4) | Monthly          | g/m <sup>2</sup> month              | 1.1   | 4        | No                       |



Figure 1 – EPL 20221 Monitoring Locations



EPL20221 Monitoring Locations - 2/08/2022

Maules Creek Coal

Legend

- EPL Monitoring locations
- 05 Project Boundary\_Boundaries
- ▭ MCCM Project Boundary (Mod 8)

Scale: 1:88,442  
 Author: shenanewman  
 Date Exported: 16/09/2022 11:51 AM  
 Spatial Reference Name: GDA2020 MGA Zone 56



Disclaimer: Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within. MCC shall have no liability for any decisions made or actions taken based upon this map.



## 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:** April 2024

**Obtained Date:** 15<sup>th</sup> May 2024

**Publication Date:** 16<sup>th</sup> May 2024

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2<sup>nd</sup> August 2022 by the NSW Environment Protection Authority (EPA).



## Monthly Monitoring Summary

### Ground Water Monitoring

**Table 1 - Groundwater Quality Monitoring**

| ID<br>EPL (Bore) | Parameters   | Units | Frequency | Samples | Date | Laboratory<br>Results Received | Min | Mean | Max / Only<br>Value      |
|------------------|--------------|-------|-----------|---------|------|--------------------------------|-----|------|--------------------------|
| 15<br>(BCM01)    | pH           | pH    | Quarterly |         |      |                                |     |      | Next sample in June 2024 |
|                  | Conductivity | µs/cm |           |         |      |                                |     |      |                          |
|                  | TDS          | mg/L  |           |         |      |                                |     |      |                          |
| 16<br>(BCM03)    | pH           | pH    | Quarterly |         |      |                                |     |      | Next sample in June 2024 |
|                  | Conductivity | µs/cm |           |         |      |                                |     |      |                          |
|                  | TDS          | mg/L  |           |         |      |                                |     |      |                          |
| 17<br>(REG10A)   | pH           | pH    | Quarterly |         |      |                                |     |      | Next sample in June 2024 |
|                  | Conductivity | µs/cm |           |         |      |                                |     |      |                          |
|                  | TDS          | mg/L  |           |         |      |                                |     |      |                          |
| 24<br>(RB05A)    | pH           | pH    | Quarterly |         |      |                                |     |      | Next sample in June 2024 |
|                  | Conductivity | µs/cm |           |         |      |                                |     |      |                          |
|                  | TDS          | mg/L  |           |         |      |                                |     |      |                          |



## Surface Water Monitoring

**Table 2 – Surface Water Monitoring – Mine Void**

| ID<br>EPL (Site)  | Parameter    | Units | Frequency         | Samples | Date       | Laboratory Results<br>Received | Min | Mean | Max / Only<br>Value |
|-------------------|--------------|-------|-------------------|---------|------------|--------------------------------|-----|------|---------------------|
| 12<br>(Mine Void) | TSS          | mg/L  | Every 2<br>months | 1       | 11/04/2024 |                                |     |      | <5                  |
|                   | Conductivity | µs/cm |                   |         |            |                                |     |      | 1240                |
|                   | Oil & Grease | mg/L  |                   |         |            |                                |     |      | <5                  |
|                   | pH           | pH    |                   |         |            |                                |     |      | 8.02                |

**Table 3 – Wet Weather Discharge - Surface Water Monitoring**

| ID<br>EPL (Site) | Parameter               | Units | Frequency   | Samples | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only<br>Value |
|------------------|-------------------------|-------|---|---------|------|-----------------------------------|--------------|---------------|-----------------|---------------------|
| 3<br>(SD3)       | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36. |         |      |                                   |              |               |                 |                     |
|                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                     |
|                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                     |
|                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                     |
|                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                     |
|                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                     |
|                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                     |
| TSS              | mg/L                    |       |   |         |      |                                   |              |               |                 |                     |
| 36<br>(SD12)     | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36  |         |      |                                   |              |               |                 |                     |
|                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                     |
|                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                     |
|                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                     |
|                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                     |
|                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                     |
|                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                     |
|                  | TSS                     | mg/L  |   |         |      |                                   |              |               |                 |                     |
| Conductivity     | µs/cm                   |       |   |         |      |                                   |              |               |                 |                     |

No discharge occurred from these monitoring locations


**Table 4 – Clean Water Discharge - Surface Water Monitoring**

| D EPL (Site)                  | Parameter            | Units | Frequency   | Samples                              | Date | Laboratory Results Received | Min Value | Mean Value | Median Value | Max / Only Value |                                      |  |  |  |  |  |  |
|-------------------------------|----------------------|-------|---|--------------------------------------|------|-----------------------------|-----------|------------|--------------|------------------|--------------------------------------|--|--|--|--|--|--|
| 38<br>(Flow Meter Upstream)   | Conductivity         | µs/cm | Special Frequency 3 - within 12 hours of discharge from any discharge location. | No flow was recorded at these sites. |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | Nitrate              | mg/L  |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | Nitrogen (total)     | mg/L  |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | Oil & Grease         | mg/L  |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | pH                   | pH    |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | Phosphorous          | mg/L  |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | Reactive Phosphorous | mg/L  |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | TSS                  | mg/L  |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | Conductivity         | µs/cm |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | Nitrate              | mg/L  |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | Nitrogen (total)     | mg/L  |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | Oil & Grease         | mg/L  |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | pH                   | pH    |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | Phosphorous          | mg/L  |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
| Reactive Phosphorous          | mg/L                 |       |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
| TSS                           | mg/L                 |       |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
| 39<br>(Flow Meter downstream) | Conductivity         | µs/cm | Special Frequency 3 - within 12 hours of discharge from any discharge location. |                                      |      |                             |           |            |              |                  | No flow was recorded at these sites. |  |  |  |  |  |  |
|                               | Nitrate              | mg/L  |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | Nitrogen (total)     | mg/L  |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | Oil & Grease         | mg/L  |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | pH                   | pH    |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | Phosphorous          | mg/L  |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | Reactive Phosphorous | mg/L  |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | TSS                  | mg/L  |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | Conductivity         | µs/cm |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | Nitrate              | mg/L  |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | Nitrogen (total)     | mg/L  |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | Oil & Grease         | mg/L  |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | pH                   | pH    |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
|                               | Phosphorous          | mg/L  |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |
| Reactive Phosphorous          | mg/L                 |       |   |                                      |      |                             |           |            |              |                  |                                      |  |  |  |  |  |  |



|               |              |       |   |
|---------------|--------------|-------|---|
| 40<br>(HWD8)  | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period |
|               | TSS          | mg/L  |   |
|               | Conductivity | µs/cm |   |
|               | Oil & Grease | mg/L  |   |
| 41<br>(HWD9)  | pH           | pH    | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period |
|               | TSS          | mg/L  |   |
|               | Conductivity | µs/cm |   |
|               | Oil & Grease | mg/L  |   |
| 42<br>(HWD10) | pH           | pH    | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day                          |
|               | TSS          | mg/L  |   |
|               | Conductivity | µs/cm |   |
|               | Oil & Grease | mg/L  |   |



|               |              |       | consecutive period   |
|---------------|--------------|-------|--|
| 43<br>(HWD11) | TSS          | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period |
|               | Conductivity | µs/cm |  |
|               | Oil & Grease | mg/L  |  |
|               | pH           | pH    |  |
| 44<br>(WCWD)  | TSS          | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period |
|               | Conductivity | µs/cm |  |
|               | Oil & Grease | mg/L  |  |



|               |              |       |  |  |
|---------------|--------------|-------|--|--|
|               | pH           | pH    |  |  |
| 45<br>(ECWDP) | TSS          | mg/L  | not more than 12 hours after discharge commences |  |
|               | Conductivity | µs/cm |  |  |
|               | Oil & Grease | mg/L  |  |  |
|               | pH           | pH    |  |  |
| 46<br>(WCWDP) | TSS          | mg/L  | not more than 12 hours after discharge commences |  |
|               | Conductivity | µs/cm |  |  |
|               | Oil & Grease | mg/L  |  |  |
|               | pH           | pH    |  |  |

## Noise Monitoring

Table 5 – Noise Monitoring (Attended – Measured)

| Location | Start date and Time | Wind      |                        | Stability class | Very enhancing? <sup>1</sup> | Limits, dB <sup>1</sup>   |                   | Site levels, dB <sup>2</sup> |                   | Exceedances, dB           |                   |
|----------|---------------------|-----------|------------------------|-----------------|------------------------------|---------------------------|-------------------|------------------------------|-------------------|---------------------------|-------------------|
|          |                     | Speed m/s | Direction <sup>3</sup> |                 |                              | L <sub>Aeq,15minute</sub> | L <sub>Amax</sub> | L <sub>Aeq,15minute</sub>    | L <sub>Amax</sub> | L <sub>Aeq,15minute</sub> | L <sub>Amax</sub> |
| NM1      | 1/04/2024 22:30     | 0.5       | 216                    | F               | No                           | 35                        | 45                | IA                           | IA                | Nil                       | Nil               |
| NM2      | 1/04/2024 23:30     | 0.3       | 0                      | F               | No                           | 39                        | 45                | IA                           | IA                | Nil                       | Nil               |
| NM3      | 2/04/2024 0:20      | 0.5       | 186                    | F               | No                           | 35                        | 45                | IA                           | IA                | Nil                       | Nil               |
| NM4      | 1/04/2024 23:00     | 0.5       | 140                    | F               | No                           | 35                        | 45                | IA                           | IA                | Nil                       | Nil               |
| NM5      | 1/04/2024 22:00     | 1.1       | 209                    | F               | No                           | 35                        | 45                | <25                          | 30                | Nil                       | Nil               |
| NM6      | 1/04/2024 23:55     | 0.3       | 0                      | F               | No                           | 35                        | 45                | IA                           | IA                | Nil                       | Nil               |

Table 6 - Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.



## Blast Monitoring

Table 7 – Blast Monitoring (Blasts – Limits Apply)

| Location             | Parameter    | Units         | Frequency | Number | Average | Max   | 100% Limit | Exceedance (Yes / No) |
|----------------------|--------------|---------------|-----------|--------|---------|-------|------------|-----------------------|
| Operations<br>Blasts | Overpressure | Db (Lin Peak) | All       | 7      | 94.3    | 109.9 | 120        | No                    |
|                      | Vibration    | mm/s          |           | 7      | 0.1     | 0.26  | 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).



## Air Quality Monitoring

Table 8 – PM<sub>10</sub> (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Unit                    | Parameter        | Rolling<br>Annual<br>Average | NEPM<br>Annual<br>Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------|------------------|------------------------------|----------------------------|--------------------------|
| 18<br>(TEOM1)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 11.4                         | 30                         | No                       |
| 37<br>(TEOM3)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 14.3                         | 30                         | No                       |
| 19<br>(HVAS)     | 6 days           | µg/m <sup>3</sup>       | PM <sub>10</sub> | 15.7                         | 30                         | No                       |

Table 9 – Depositional Dust (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Particulates<br>Deposited<br>Matter | Rolling<br>Annual<br>Average<br>Insoluble<br>Solids | Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------------------|---|----------|--------------------------|
| 20<br>(DDG1/MC1) | Monthly          | g/m <sup>2</sup> month              | 2.2   | 4        | No                       |
| 21<br>(DDG2/MC2) | Monthly          | g/m <sup>2</sup> month              | 2.2   | 4        | No                       |
| 22<br>(DDG3/MC3) | Monthly          | g/m <sup>2</sup> month              | 2.0   | 4        | No                       |
| 23<br>(DDG4/MC4) | Monthly          | g/m <sup>2</sup> month              | 1.1   | 4        | No                       |



Figure 1 – EPL 20221 Monitoring Locations



EPL 20221 Monitoring Locations - 16/05/2024

- EPL Monitoring Locations
- MCM Project Boundary MOD 9

Scale: 1:33,944,857,333

Author: EGibson

Date Printed: 26/03/2021

Spatial Reference  
Name: WGS 1984 Web Mercator Auxiliary  
Sphere

Maules Creek Coal



Disclaimer: Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within. MCC shall have no liability for any decisions made or actions taken based upon this map.



## 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:** May 2024

**Obtained Date:** 14<sup>th</sup> June 2024

**Publication Date:** 17<sup>th</sup> June 2024

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2<sup>nd</sup> August 2022 by the NSW Environment Protection Authority (EPA).



## Monthly Monitoring Summary

### Ground Water Monitoring

**Table 1 - Groundwater Quality Monitoring**

| ID<br>EPL (Bore) | Parameters   | Units | Frequency | Samples | Date | Laboratory<br>Results Received | Min | Mean | Max / Only<br>Value      |
|------------------|--------------|-------|-----------|---------|------|--------------------------------|-----|------|--------------------------|
| 15<br>(BCM01)    | pH           | pH    | Quarterly |         |      |                                |     |      | Next sample in June 2024 |
|                  | Conductivity | µs/cm |           |         |      |                                |     |      |                          |
|                  | TDS          | mg/L  |           |         |      |                                |     |      |                          |
| 16<br>(BCM03)    | pH           | pH    | Quarterly |         |      |                                |     |      | Next sample in June 2024 |
|                  | Conductivity | µs/cm |           |         |      |                                |     |      |                          |
|                  | TDS          | mg/L  |           |         |      |                                |     |      |                          |
| 17<br>(REG10A)   | pH           | pH    | Quarterly |         |      |                                |     |      | Next sample in June 2024 |
|                  | Conductivity | µs/cm |           |         |      |                                |     |      |                          |
|                  | TDS          | mg/L  |           |         |      |                                |     |      |                          |
| 24<br>(RB05A)    | pH           | pH    | Quarterly |         |      |                                |     |      | Next sample in June 2024 |
|                  | Conductivity | µs/cm |           |         |      |                                |     |      |                          |
|                  | TDS          | mg/L  |           |         |      |                                |     |      |                          |



## Surface Water Monitoring

**Table 2 – Surface Water Monitoring – Mine Void**

| ID<br>EPL (Site)  | Parameter    | Units | Frequency         | Samples | Date       | Laboratory Results<br>Received | Min | Mean | Max / Only Value |
|-------------------|--------------|-------|-------------------|---------|------------|--------------------------------|-----|------|------------------|
| 12<br>(Mine Void) | TSS          | mg/L  | Every 2<br>months | 1       | 13/05/2024 | 14/06/2024                     | NA  | NA   | 14               |
|                   | Conductivity | µs/cm |                   |         |            |                                |     |      | 1270             |
|                   | Oil & Grease | mg/L  |                   |         |            |                                |     |      | <5               |
|                   | pH           | pH    |                   |         |            |                                |     |      | 8.26             |

**Table 3 – Wet Weather Discharge - Surface Water Monitoring**

| ID<br>EPL (Site) | Parameter               | Units | Frequency   | Samples | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only Value |
|------------------|-------------------------|-------|---|---------|------|-----------------------------------|--------------|---------------|-----------------|------------------|
| 3<br>(SD3)       | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36. |         |      |                                   |              |               |                 |                  |
|                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                  |
|                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | TSS                     | mg/L  |   |         |      |                                   |              |               |                 |                  |
| 36<br>(SD12)     | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36. |         |      |                                   |              |               |                 |                  |
|                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                  |
|                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | TSS                     | mg/L  |   |         |      |                                   |              |               |                 |                  |
| Conductivity     | µs/cm                   |       |   |         |      |                                   |              |               |                 |                  |

No discharge occurred from this monitoring location


**Table 4 – Clean Water Discharge - Surface Water Monitoring**

| ID EPL (Site)                 | Parameter            | Units | Frequency  | Samples   | Date | Laboratory Results Received | Min Value | Mean Value | Median Value | Max / Only Value |
|-------------------------------|----------------------|-------|--|---|------|-----------------------------|-----------|------------|--------------|------------------|
| 38<br>(Flow Meter Upstream)   | Conductivity         | µs/cm | Special Frequency 3 - within 12 hours of discharge from any discharge location.  | No flow was recorded at these sites.                  |      |                             |           |            |              |                  |
|                               | Nitrate              | mg/L  |  |   |      |                             |           |            |              |                  |
|                               | Nitrogen (total)     | mg/L  |  |   |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |  |   |      |                             |           |            |              |                  |
|                               | pH                   | pH    |  |   |      |                             |           |            |              |                  |
|                               | Phosphorous          | mg/L  |  |   |      |                             |           |            |              |                  |
|                               | Reactive Phosphorous | mg/L  |  |   |      |                             |           |            |              |                  |
| TSS                           | mg/L                 |       |  |   |      |                             |           |            |              |                  |
| 39<br>(Flow Meter downstream) | Conductivity         | µs/cm | Special Frequency 3 - within 12 hours of discharge from any discharge location.  |   |      |                             |           |            |              |                  |
|                               | Nitrate              | mg/L  |  |   |      |                             |           |            |              |                  |
|                               | Nitrogen (total)     | mg/L  |  |   |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |  |   |      |                             |           |            |              |                  |
|                               | pH                   | pH    |  |   |      |                             |           |            |              |                  |
|                               | Phosphorous          | mg/L  |  |   |      |                             |           |            |              |                  |
|                               | Reactive Phosphorous | mg/L  |  |   |      |                             |           |            |              |                  |
| TSS                           | mg/L                 |       |  |   |      |                             |           |            |              |                  |
| 40<br>(HWD8)                  | TSS                  | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period | No discharge occurred from these monitoring locations |      |                             |           |            |              |                  |
|                               | Conductivity         | µs/cm |  |   |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |  |   |      |                             |           |            |              |                  |
|                               | pH                   | pH    |  |   |      |                             |           |            |              |                  |



| ID<br>EPL (Site) | Parameter    | Units | Frequency   | Samples   | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only<br>Value |
|------------------|--------------|-------|---|---|------|-----------------------------------|--------------|---------------|-----------------|---------------------|
| 41<br>(HWD9)     | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | Conductivity | µs/cm |   |   |      |                                   |              |               |                 |                     |
|                  | Oil & Grease | mg/L  |   |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |   |   |      |                                   |              |               |                 |                     |
| 42<br>(HWD10)    | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period |   |      |                                   |              |               |                 |                     |
|                  | Conductivity | µs/cm |   |   |      |                                   |              |               |                 |                     |
|                  | Oil & Grease | mg/L  |   |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |   |   |      |                                   |              |               |                 |                     |
| 43<br>(HWD11)    | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within  |   |      |                                   |              |               |                 |                     |
|                  | Conductivity | µs/cm |   |   |      |                                   |              |               |                 |                     |



| ID<br>EPL (Site) | Parameter    | Units | Frequency  | Samples   | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only<br>Value |
|------------------|--------------|-------|--|---|------|-----------------------------------|--------------|---------------|-----------------|---------------------|
|                  | Oil & Grease | mg/L  | 12hours of discharge caused by 38.4mm in a 5 Day consecutive period  |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
| 44<br>(WCWD)     | TSS          | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | Conductivity | µs/cm |  |   |      |                                   |              |               |                 |                     |
|                  | Oil & Grease | mg/L  |  |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
| 45<br>(ECWDP)    | Oil & Grease | mg/L  | Not more than 12 hours after discharge commences   | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
|                  | TSS          | mg/L  |  |   |      |                                   |              |               |                 |                     |
| 46<br>(WCWDP)    | Oil & Grease | mg/L  | Not more than 12 hours after discharge commences   | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
|                  | TSS          | mg/L  |  |   |      |                                   |              |               |                 |                     |

## Noise Monitoring

Table 5 – 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    | 1/05/2024 | 22:30      | 3.3              | IA                 | 40  | IA                | 50   | 0.0               | NA                    |
| NM2    | 1/05/2024 | 23:30      | 2.3              | <30                | 39  | <30               | 45   | 0.0               | NA                    |
| NM3    | 2/05/2024 | 0:21       | 1.0              | 33                 | 35  | 36                | 45   | 0.0               | NA                    |
| NM4    | 1/05/2024 | 23:00      | 2.8              | IA                 | 35  | IA                | 45   | 0.0               | NA                    |
| NM5    | 1/05/2024 | 22:00      | 3.2              | IA                 | 40  | IA                | 50   | 0.0               | NA                    |
| NM6    | 1/05/2024 | 23:55      | 1.6              | IA                 | 35  | IA                | 45   | 0.0               | NA                    |

Table 6 - Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.



## Blast Monitoring

Table 6 – Blast Monitoring (Blasts – Limits Apply)

| Location             | Parameter    | Units         | Frequency | Number | Average | Max   | 100% Limit | Exceedance (Yes / No) |
|----------------------|--------------|---------------|-----------|--------|---------|-------|------------|-----------------------|
| Operations<br>Blasts | Overpressure | Db (Lin Peak) | All       | 9      | 93.39   | 103.3 | 120        | No                    |
|                      | Vibration    | mm/s          |           | 9      | 0.11    | 0.25  | 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).



## Air Quality Monitoring

Table 7 – PM<sub>10</sub> (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Unit                    | Parameter        | Rolling<br>Annual<br>Average | NEPM<br>Annual<br>Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------|------------------|------------------------------|----------------------------|--------------------------|
| 18<br>(TEOM1)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 11.2                         | 30                         | No                       |
| 37<br>(TEOM3)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 13.8                         | 30                         | No                       |
| 19<br>(HVAS)     | 6 days           | µg/m <sup>3</sup>       | PM <sub>10</sub> | 14.4                         | 30                         | No                       |

Table 8 – Depositional Dust (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Particulates<br>Deposited<br>Matter | Rolling<br>Annual<br>Average<br>Insoluble<br>Solids | Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------------------|---|----------|--------------------------|
| 20<br>(DDG1/MC1) | Monthly          | g/m <sup>2</sup> month              | 2.2   | 4        | No                       |
| 21<br>(DDG2/MC2) | Monthly          | g/m <sup>2</sup> month              | 1.8   | 4        | No                       |
| 22<br>(DDG3/MC3) | Monthly          | g/m <sup>2</sup> month              | 1.8   | 4        | No                       |
| 23<br>(DDG4/MC4) | Monthly          | g/m <sup>2</sup> month              | 1.1   | 4        | No                       |

Figure 1 – EPL 20221 Monitoring Locations



**EPL 20221 Monitoring Locations - 16/05/2024**

- EPL Monitoring Locations
- MCCM Project Boundary MOD 9

Scale: 1:33,944,857,333

Author: EGibson

Date Printed: 26/03/2021

Spatial Reference  
Name: WGS 1984 Web Mercator Auxiliary  
Sphere



## 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:** June 2024

**Obtained Date:** 15<sup>th</sup> July 2024

**Publication Date:** 16<sup>th</sup> July 2024

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2<sup>nd</sup> August 2022 by the NSW Environment Protection Authority (EPA).



## Monthly Monitoring Summary

### Ground Water Monitoring

**Table 1 - Groundwater Quality Monitoring**

| ID<br>EPL (Bore) | Parameters   | Units | Frequency | Samples | Date       | Laboratory<br>Results Received | Min | Mean | Max / Only<br>Value |
|------------------|--------------|-------|-----------|---------|------------|--------------------------------|-----|------|---------------------|
| 15<br>(BCM01)    | pH           | pH    | Quarterly | 0       | Dry        |                                |     |      |                     |
|                  | Conductivity | µs/cm |           |         |            |                                |     |      |                     |
|                  | TDS          | mg/L  |           |         |            |                                |     |      |                     |
| 16<br>(BCM03)    | pH           | pH    | Quarterly | 0       | Dry        |                                |     |      |                     |
|                  | Conductivity | µs/cm |           |         |            |                                |     |      |                     |
|                  | TDS          | mg/L  |           |         |            |                                |     |      |                     |
| 17<br>(REG10A)   | pH           | pH    | Quarterly | 0       | Dry        |                                |     |      |                     |
|                  | Conductivity | µs/cm |           |         |            |                                |     |      |                     |
|                  | TDS          | mg/L  |           |         |            |                                |     |      |                     |
| 24<br>(RB05A)    | pH           | pH    | Quarterly | 1       | 05/06/2024 | 15/07/2024                     |     |      | 7.54                |
|                  | Conductivity | µs/cm |           |         |            |                                |     |      | 1950                |
|                  | TDS          | mg/L  |           |         |            |                                |     |      | 1140                |



## Surface Water Monitoring

**Table 2 – Surface Water Monitoring – Mine Void**

| ID<br>EPL (Site)  | Parameter    | Units | Frequency         | Samples | Date       | Laboratory Results<br>Received | Min | Mean | Max / Only Value |
|-------------------|--------------|-------|-------------------|---------|------------|--------------------------------|-----|------|------------------|
| 12<br>(Mine Void) | TSS          | mg/L  | Every 2<br>months | 1       | 06/06/2024 | 15/07/2024                     | NA  | NA   | 5                |
|                   | Conductivity | µs/cm |                   |         |            |                                |     |      | 1340             |
|                   | Oil & Grease | mg/L  |                   |         |            |                                |     |      | <5               |
|                   | pH           | pH    |                   |         |            |                                |     |      | 8.35             |

**Table 3 – Wet Weather Discharge - Surface Water Monitoring**

| ID<br>EPL (Site) | Parameter               | Units | Frequency   | Samples | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only Value |
|------------------|-------------------------|-------|---|---------|------|-----------------------------------|--------------|---------------|-----------------|------------------|
| 3<br>(SD3)       | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36. |         |      |                                   |              |               |                 |                  |
|                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                  |
|                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | TSS                     | mg/L  |   |         |      |                                   |              |               |                 |                  |
| 36<br>(SD12)     | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36. |         |      |                                   |              |               |                 |                  |
|                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                  |
|                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | TSS                     | mg/L  |   |         |      |                                   |              |               |                 |                  |
| Conductivity     | µs/cm                   |       |   |         |      |                                   |              |               |                 |                  |

No discharge occurred from this monitoring location


**Table 4 – Clean Water Discharge - Surface Water Monitoring**

| ID EPL (Site)                 | Parameter            | Units | Frequency  | Samples | Date | Laboratory Results Received | Min Value | Mean Value | Median Value | Max / Only Value |
|-------------------------------|----------------------|-------|--|---------|------|-----------------------------|-----------|------------|--------------|------------------|
| 38<br>(Flow Meter Upstream)   | Conductivity         | µs/cm | Special Frequency 3 - within 12 hours of discharge from any discharge location.  |         |      |                             |           |            |              |                  |
|                               | Nitrate              | mg/L  |  |         |      |                             |           |            |              |                  |
|                               | Nitrogen (total)     | mg/L  |  |         |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |  |         |      |                             |           |            |              |                  |
|                               | pH                   | pH    |  |         |      |                             |           |            |              |                  |
|                               | Phosphorous          | mg/L  |  |         |      |                             |           |            |              |                  |
|                               | Reactive Phosphorous | mg/L  |  |         |      |                             |           |            |              |                  |
|                               | TSS                  | mg/L  |  |         |      |                             |           |            |              |                  |
| 39<br>(Flow Meter downstream) | Conductivity         | µs/cm | Special Frequency 3 - within 12 hours of discharge from any discharge location.  |         |      |                             |           |            |              |                  |
|                               | Nitrate              | mg/L  |  |         |      |                             |           |            |              |                  |
|                               | Nitrogen (total)     | mg/L  |  |         |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |  |         |      |                             |           |            |              |                  |
|                               | pH                   | pH    |  |         |      |                             |           |            |              |                  |
|                               | Phosphorous          | mg/L  |  |         |      |                             |           |            |              |                  |
|                               | Reactive Phosphorous | mg/L  |  |         |      |                             |           |            |              |                  |
|                               | TSS                  | mg/L  |  |         |      |                             |           |            |              |                  |
| 40<br>(HWD8)                  | TSS                  | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period |         |      |                             |           |            |              |                  |
|                               | Conductivity         | µs/cm |  |         |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |  |         |      |                             |           |            |              |                  |
|                               | pH                   | pH    |  |         |      |                             |           |            |              |                  |

No discharge occurred during the reporting month

No discharge occurred from these monitoring locations



| ID<br>EPL (Site) | Parameter    | Units | Frequency   | Samples | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only<br>Value |   |  |  |  |  |  |  |
|------------------|--------------|-------|---|---------|------|-----------------------------------|--------------|---------------|-----------------|---------------------|---|--|--|--|--|--|--|
| 41<br>(HWD9)     | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
|                  | Conductivity | µs/cm |   |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
|                  | Oil & Grease | mg/L  |   |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
|                  | pH           | pH    |   |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
| 42<br>(HWD10)    | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
|                  | Conductivity | µs/cm |   |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
|                  | Oil & Grease | mg/L  |   |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
|                  | pH           | pH    |   |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
| 43<br>(HWD11)    | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within  |         |      |                                   |              |               |                 |                     | No discharge occurred from this monitoring location |  |  |  |  |  |  |
|                  | Conductivity | µs/cm |   |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |



| ID<br>EPL (Site) | Parameter    | Units | Frequency  | Samples   | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only<br>Value |
|------------------|--------------|-------|--|---|------|-----------------------------------|--------------|---------------|-----------------|---------------------|
|                  | Oil & Grease | mg/L  | 12hours of discharge caused by 38.4mm in a 5 Day consecutive period  |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
| 44<br>(WCWD)     | TSS          | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | Conductivity | µs/cm |  |   |      |                                   |              |               |                 |                     |
|                  | Oil & Grease | mg/L  |  |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
| 45<br>(ECWDP)    | Oil & Grease | mg/L  | Not more than 12 hours after discharge commences   | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
|                  | TSS          | mg/L  |  |   |      |                                   |              |               |                 |                     |
| 46<br>(WCWDP)    | Oil & Grease | mg/L  | Not more than 12 hours after discharge commences   | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
|                  | TSS          | mg/L  |  |   |      |                                   |              |               |                 |                     |

## Noise Monitoring

Table 5 – 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    | 10/06/2024 | 22:30      | 0.6              | <25                | 35  | <25               | 45   | 0.0               | NA                    |
| NM2    | 10/06/2024 | 23:30      | 1.1              | 34                 | 39  | 36                | 45   | 0.0               | NA                    |
| NM3    | 11/06/2024 | 00:20      | 0.5              | 24                 | 35  | 29                | 45   | 0.0               | NA                    |
| NM4    | 10/06/2024 | 23:00      | 0.3              | <25                | 35  | <25               | 45   | 0.0               | NA                    |
| NM5    | 10/06/2024 | 22:00      | 0.5              | 30                 | 35  | 33                | 45   | 0.0               | NA                    |
| NM6    | 10/06/2024 | 23:55      | 0.3              | <20                | 35  | 23                | 45   | 0.0               | NA                    |

### Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.



## Blast Monitoring

Table 6 – Blast Monitoring (Blasts – Limits Apply)

| Location             | Parameter    | Units         | Frequency | Number | Average | Max    | 100% Limit | Exceedance (Yes / No) |
|----------------------|--------------|---------------|-----------|--------|---------|--------|------------|-----------------------|
| Operations<br>Blasts | Overpressure | Db (Lin Peak) | All       | 9      | 89.94   | 107.60 | 120        | No                    |
|                      | Vibration    | mm/s          |           | 9      | 0.08    | 0.17   | 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).



## Air Quality Monitoring

Table 7 – PM<sub>10</sub> (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Unit                    | Parameter        | Rolling<br>Annual<br>Average | NEPM<br>Annual<br>Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------|------------------|------------------------------|----------------------------|--------------------------|
| 18<br>(TEOM1)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 10.9                         | 30                         | No                       |
| 37<br>(TEOM3)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 13.6                         | 30                         | No                       |
| 19<br>(HVAS)     | 6 days           | µg/m <sup>3</sup>       | PM <sub>10</sub> | 14.2                         | 30                         | No                       |

Table 8 – Depositional Dust (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Particulates<br>Deposited<br>Matter | Rolling<br>Annual<br>Average<br>Insoluble<br>Solids | Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------------------|---|----------|--------------------------|
| 20<br>(DDG1/MC1) | Monthly          | g/m <sup>2</sup> month              | 2.0   | 4        | No                       |
| 21<br>(DDG2/MC2) | Monthly          | g/m <sup>2</sup> month              | 1.8   | 4        | No                       |
| 22<br>(DDG3/MC3) | Monthly          | g/m <sup>2</sup> month              | 1.7   | 4        | No                       |
| 23<br>(DDG4/MC4) | Monthly          | g/m <sup>2</sup> month              | 1.0   | 4        | No                       |



Figure 1 – EPL 20221 Monitoring Locations



**EPL 20221 Monitoring Locations - 16/05/2024**

- EPL Monitoring Locations
- MCCM Project Boundary MOD 9

Scale: 1:33,944,857,333  
 Author: EGibson  
 Date Printed: 29/03/2021

Maules Creek Coal



Disclaimer: Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within. MCC shall have no liability for any decisions made or actions taken based upon this map.



## 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:** July 2024

**Obtained Date:** 15<sup>th</sup> July 2024

**Publication Date:** 19<sup>th</sup> August 2024

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2<sup>nd</sup> August 2022 by the NSW Environment Protection Authority (EPA).



## Monthly Monitoring Summary

### Ground Water Monitoring

**Table 1 – Groundwater Quality Monitoring**

| ID<br>EPL (Bore) | Parameters   | Units | Frequency | Samples | Date                       | Laboratory<br>Results Received | Min | Mean | Max / Only<br>Value |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |
|------------------|--------------|-------|-----------|---------|----------------------------|--------------------------------|-----|------|---------------------|----------------------------|--|--|--|--|----------------------------|--|--|--|--|----------------------------|--|--|--|--|
| 15<br>(BCM01)    | pH           | pH    | Quarterly | 0       | Next Sample September 2024 |                                |     |      |                     |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |
|                  | Conductivity | µs/cm |           |         |                            |                                |     |      |                     |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |
|                  | TDS          | mg/L  |           |         |                            |                                |     |      |                     |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |
| 16<br>(BCM03)    | pH           | pH    | Quarterly | 0       |                            |                                |     |      |                     | Next Sample September 2024 |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |
|                  | Conductivity | µs/cm |           |         |                            |                                |     |      |                     |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |
|                  | TDS          | mg/L  |           |         |                            |                                |     |      |                     |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |
| 17<br>(REG10A)   | pH           | pH    | Quarterly | 0       |                            |                                |     |      |                     |                            |  |  |  |  | Next Sample September 2024 |  |  |  |  |                            |  |  |  |  |
|                  | Conductivity | µs/cm |           |         |                            |                                |     |      |                     |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |
|                  | TDS          | mg/L  |           |         |                            |                                |     |      |                     |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |
| 24<br>(RB05A)    | pH           | pH    | Quarterly | 0       |                            |                                |     |      |                     |                            |  |  |  |  |                            |  |  |  |  | Next Sample September 2024 |  |  |  |  |
|                  | Conductivity | µs/cm |           |         |                            |                                |     |      |                     |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |
|                  | TDS          | mg/L  |           |         |                            |                                |     |      |                     |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |



## Surface Water Monitoring

**Table 2 – Surface Water Monitoring – Mine Void**

| ID<br>EPL (Site)  | Parameter    | Units | Frequency         | Samples | Date       | Laboratory Results<br>Received | Min | Mean | Max / Only Value |
|-------------------|--------------|-------|-------------------|---------|------------|--------------------------------|-----|------|------------------|
| 12<br>(Mine Void) | TSS          | mg/L  | Every 2<br>months | 1       | 11/07/2024 | 15/08/2024                     | NA  | NA   | <5               |
|                   | Conductivity | µs/cm |                   |         |            |                                |     |      | 1410             |
|                   | Oil & Grease | mg/L  |                   |         |            |                                |     |      | <5               |
|                   | pH           | pH    |                   |         |            |                                |     |      | 8.4              |

**Table 3 – Wet Weather Discharge - Surface Water Monitoring**

| ID<br>EPL (Site) | Parameter               | Units | Frequency   | Samples | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only Value |
|------------------|-------------------------|-------|---|---------|------|-----------------------------------|--------------|---------------|-----------------|------------------|
| 3<br>(SD3)       | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36. |         |      |                                   |              |               |                 |                  |
|                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                  |
|                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | TSS                     | mg/L  |   |         |      |                                   |              |               |                 |                  |
| 36<br>(SD12)     | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36. |         |      |                                   |              |               |                 |                  |
|                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                  |
|                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | TSS                     | mg/L  |   |         |      |                                   |              |               |                 |                  |
| Conductivity     | µs/cm                   |       |   |         |      |                                   |              |               |                 |                  |

No discharge occurred from this monitoring location



**Table 4 – Clean Water Discharge - Surface Water Monitoring**

| ID<br>EPL (Site)                 | Parameter               | Units | Frequency   | Samples | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only<br>Value |
|----------------------------------|-------------------------|-------|---|---------|------|-----------------------------------|--------------|---------------|-----------------|---------------------|
| 38<br>(Flow Meter<br>Upstream)   | Conductivity            | µs/cm | Special<br>Frequency 3 -<br>within 12<br>hours of<br>discharge<br>from any<br>discharge<br>location.  |         |      |                                   |              |               |                 |                     |
|                                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                     |
|                                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                     |
|                                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                     |
|                                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                     |
|                                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                     |
|                                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                     |
| TSS                              | mg/L                    |       |   |         |      |                                   |              |               |                 |                     |
| 39<br>(Flow Meter<br>downstream) | Conductivity            | µs/cm | Special<br>Frequency 3 -<br>within 12<br>hours of<br>discharge<br>from any<br>discharge<br>location.  |         |      |                                   |              |               |                 |                     |
|                                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                     |
|                                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                     |
|                                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                     |
|                                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                     |
|                                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                     |
|                                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                     |
| TSS                              | mg/L                    |       |   |         |      |                                   |              |               |                 |                     |
| 40<br>(HWD8)                     | TSS                     | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period |         |      |                                   |              |               |                 |                     |
|                                  | Conductivity            | µs/cm |   |         |      |                                   |              |               |                 |                     |
|                                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                     |
|                                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                     |



| ID<br>EPL (Site) | Parameter    | Units | Frequency   | Samples | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only<br>Value |   |  |  |  |  |  |  |
|------------------|--------------|-------|---|---------|------|-----------------------------------|--------------|---------------|-----------------|---------------------|---|--|--|--|--|--|--|
| 41<br>(HWD9)     | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
|                  | Conductivity | µs/cm |   |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
|                  | Oil & Grease | mg/L  |   |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
|                  | pH           | pH    |   |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
| 42<br>(HWD10)    | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
|                  | Conductivity | µs/cm |   |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
|                  | Oil & Grease | mg/L  |   |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
|                  | pH           | pH    |   |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
| 43<br>(HWD11)    | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within  |         |      |                                   |              |               |                 |                     | No discharge occurred from this monitoring location |  |  |  |  |  |  |
|                  | Conductivity | µs/cm |   |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |



| ID<br>EPL (Site) | Parameter    | Units | Frequency  | Samples   | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only<br>Value |
|------------------|--------------|-------|--|---|------|-----------------------------------|--------------|---------------|-----------------|---------------------|
|                  | Oil & Grease | mg/L  | 12hours of discharge caused by 38.4mm in a 5 Day consecutive period  |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
| 44<br>(WCWD)     | TSS          | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | Conductivity | µs/cm |  |   |      |                                   |              |               |                 |                     |
|                  | Oil & Grease | mg/L  |  |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
| 45<br>(ECWDP)    | Oil & Grease | mg/L  | Not more than 12 hours after discharge commences   | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
|                  | TSS          | mg/L  |  |   |      |                                   |              |               |                 |                     |
| 46<br>(WCWDP)    | Oil & Grease | mg/L  | Not more than 12 hours after discharge commences   | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
|                  | TSS          | mg/L  |  |   |      |                                   |              |               |                 |                     |

## Noise Monitoring

Table 5 – 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    | 24/07/2024 | 22:30      | 0.3              | <20                | 35  | 25                | 45   | 0.0               | No                    |
| NM2    | 24/07/2024 | 23:30      | 0.3              | <20                | 39  | <20               | 45   | 0.0               | No                    |
| NM3    | 25/07/2024 | 00:21      | 0.5              | IA                 | 35  | IA                | 45   | 0.0               | No                    |
| NM4    | 24/07/2024 | 23:00      | 0.1              | IA                 | 35  | IA                | 45   | 0.0               | No                    |
| NM5    | 24/07/2024 | 22:01      | 0.5              | 25                 | 35  | 30                | 45   | 0.0               | No                    |
| NM6    | 24/07/2024 | 23:56      | 0.4              | IA                 | 35  | IA                | 45   | 0.0               | No                    |

### Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.

## Blast Monitoring

Table 6 – Blast Monitoring (Blasts – Limits Apply)

| Location             | Parameter    | Units         | Frequency | Number | Average | Max   | 100% Limit | Exceedance<br>(Yes / No) |
|----------------------|--------------|---------------|-----------|--------|---------|-------|------------|--------------------------|
| Operations<br>Blasts | Overpressure | Db (Lin Peak) | All       | 9      | 94.29   | 109.4 | 120        | No                       |
|                      | Vibration    | mm/s          |           | 9      | 0.10    | 0.19  | 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).*

## Air Quality Monitoring

Table 7 – PM<sub>10</sub> (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Unit                    | Parameter        | Rolling<br>Annual<br>Average | NEPM<br>Annual<br>Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------|------------------|------------------------------|----------------------------|--------------------------|
| 18<br>(TEOM1)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 10.5                         | 30                         | No                       |
| 37<br>(TEOM3)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 13.3                         | 30                         | No                       |
| 19<br>(HVAS)     | 6 days           | µg/m <sup>3</sup>       | PM <sub>10</sub> | 14.1                         | 30                         | No                       |

Table 8 – Depositional Dust (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Particulates<br>Deposited<br>Matter | Rolling<br>Annual<br>Average<br>Insoluble<br>Solids | Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------------------|---|----------|--------------------------|
| 20<br>(DDG1/MC1) | Monthly          | g/m <sup>2</sup> month              | 2.0   | 4        | No                       |
| 21<br>(DDG2/MC2) | Monthly          | g/m <sup>2</sup> month              | 1.8   | 4        | No                       |
| 22<br>(DDG3/MC3) | Monthly          | g/m <sup>2</sup> month              | 1.8   | 4        | No                       |
| 23<br>(DDG4/MC4) | Monthly          | g/m <sup>2</sup> month              | 0.8   | 4        | No                       |

Figure 1 – EPL 20221 Monitoring Locations



**EPL 20221 Monitoring Locations - 16/05/2024**

- EPL Monitoring Locations
- MCCM Project Boundary MOD 9

Scale: 1:33,944,857,333  
 Author: EGibson  
 Date Printed: 26/03/2021  
 Spatial Reference  
 Name: WGS 1984 Web Mercator Auxiliary  
 Sphere

Maules Creek Coal



Disclaimer: Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within. MCC shall have no liability for any decisions made or actions taken based upon this map.



## 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:** August 2024

**Obtained Date:** 13<sup>th</sup> September 2024

**Publication Date:** 16<sup>th</sup> September 2024

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2<sup>nd</sup> August 2022 by the NSW Environment Protection Authority (EPA).



## Monthly Monitoring Summary

### Ground Water Monitoring

**Table 1 – Groundwater Quality Monitoring**

| ID<br>EPL (Bore) | Parameters   | Units | Frequency | Samples | Date                       | Laboratory<br>Results Received | Min | Mean | Max / Only<br>Value |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |
|------------------|--------------|-------|-----------|---------|----------------------------|--------------------------------|-----|------|---------------------|----------------------------|--|--|--|--|----------------------------|--|--|--|--|----------------------------|--|--|--|--|
| 15<br>(BCM01)    | pH           | pH    | Quarterly | 0       | Next Sample September 2024 |                                |     |      |                     |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |
|                  | Conductivity | µs/cm |           |         |                            |                                |     |      |                     |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |
|                  | TDS          | mg/L  |           |         |                            |                                |     |      |                     |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |
| 16<br>(BCM03)    | pH           | pH    | Quarterly | 0       |                            |                                |     |      |                     | Next Sample September 2024 |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |
|                  | Conductivity | µs/cm |           |         |                            |                                |     |      |                     |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |
|                  | TDS          | mg/L  |           |         |                            |                                |     |      |                     |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |
| 17<br>(REG10A)   | pH           | pH    | Quarterly | 0       |                            |                                |     |      |                     |                            |  |  |  |  | Next Sample September 2024 |  |  |  |  |                            |  |  |  |  |
|                  | Conductivity | µs/cm |           |         |                            |                                |     |      |                     |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |
|                  | TDS          | mg/L  |           |         |                            |                                |     |      |                     |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |
| 24<br>(RB05A)    | pH           | pH    | Quarterly | 0       |                            |                                |     |      |                     |                            |  |  |  |  |                            |  |  |  |  | Next Sample September 2024 |  |  |  |  |
|                  | Conductivity | µs/cm |           |         |                            |                                |     |      |                     |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |
|                  | TDS          | mg/L  |           |         |                            |                                |     |      |                     |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |



## Surface Water Monitoring

**Table 2 – Surface Water Monitoring – Mine Void**

| ID<br>EPL (Site)  | Parameter    | Units | Frequency         | Samples | Date       | Laboratory Results<br>Received | Min | Mean | Max / Only Value |
|-------------------|--------------|-------|-------------------|---------|------------|--------------------------------|-----|------|------------------|
| 12<br>(Mine Void) | TSS          | mg/L  | Every 2<br>months | 1       | 14/08/2024 | 13/09/2024                     | NA  | NA   | <5               |
|                   | Conductivity | µs/cm |                   |         |            |                                |     |      | 1310             |
|                   | Oil & Grease | mg/L  |                   |         |            |                                |     |      | <5               |
|                   | pH           | pH    |                   |         |            |                                |     |      | 8.37             |

**Table 3 – Wet Weather Discharge - Surface Water Monitoring**

| ID<br>EPL (Site) | Parameter               | Units | Frequency   | Samples | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only Value |
|------------------|-------------------------|-------|---|---------|------|-----------------------------------|--------------|---------------|-----------------|------------------|
| 3<br>(SD3)       | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36. |         |      |                                   |              |               |                 |                  |
|                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                  |
|                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | TSS                     | mg/L  |   |         |      |                                   |              |               |                 |                  |
| 36<br>(SD12)     | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36. |         |      |                                   |              |               |                 |                  |
|                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                  |
|                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | TSS                     | mg/L  |   |         |      |                                   |              |               |                 |                  |
| Conductivity     | µs/cm                   |       |   |         |      |                                   |              |               |                 |                  |

No discharge occurred from this monitoring location

**Table 4 – Clean Water Discharge - Surface Water Monitoring**

| ID EPL (Site)                 | Parameter            | Units | Frequency  | Samples | Date | Laboratory Results Received | Min Value | Mean Value | Median Value | Max / Only Value |
|-------------------------------|----------------------|-------|--|---------|------|-----------------------------|-----------|------------|--------------|------------------|
| 38<br>(Flow Meter Upstream)   | Conductivity         | µs/cm | Special Frequency 3 - within 12 hours of discharge from any discharge location.  |         |      |                             |           |            |              |                  |
|                               | Nitrate              | mg/L  |  |         |      |                             |           |            |              |                  |
|                               | Nitrogen (total)     | mg/L  |  |         |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |  |         |      |                             |           |            |              |                  |
|                               | pH                   | pH    |  |         |      |                             |           |            |              |                  |
|                               | Phosphorous          | mg/L  |  |         |      |                             |           |            |              |                  |
|                               | Reactive Phosphorous | mg/L  |  |         |      |                             |           |            |              |                  |
| TSS                           | mg/L                 |       |  |         |      |                             |           |            |              |                  |
| 39<br>(Flow Meter downstream) | Conductivity         | µs/cm | Special Frequency 3 - within 12 hours of discharge from any discharge location.  |         |      |                             |           |            |              |                  |
|                               | Nitrate              | mg/L  |  |         |      |                             |           |            |              |                  |
|                               | Nitrogen (total)     | mg/L  |  |         |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |  |         |      |                             |           |            |              |                  |
|                               | pH                   | pH    |  |         |      |                             |           |            |              |                  |
|                               | Phosphorous          | mg/L  |  |         |      |                             |           |            |              |                  |
|                               | Reactive Phosphorous | mg/L  |  |         |      |                             |           |            |              |                  |
| TSS                           | mg/L                 |       |  |         |      |                             |           |            |              |                  |
| 40<br>(HWD8)                  | TSS                  | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period |         |      |                             |           |            |              |                  |
|                               | Conductivity         | µs/cm |  |         |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |  |         |      |                             |           |            |              |                  |
|                               | pH                   | pH    |  |         |      |                             |           |            |              |                  |



| ID<br>EPL (Site) | Parameter    | Units | Frequency  | Samples | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only<br>Value |   |  |  |  |  |  |  |
|------------------|--------------|-------|--|---------|------|-----------------------------------|--------------|---------------|-----------------|---------------------|---|--|--|--|--|--|--|
| 41<br>(HWD9)     | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46<br>or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
|                  | Conductivity | µs/cm |  |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
|                  | Oil & Grease | mg/L  |  |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
|                  | pH           | pH    |  |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
| 42<br>(HWD10)    | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period    |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
|                  | Conductivity | µs/cm |  |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
|                  | Oil & Grease | mg/L  |  |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
|                  | pH           | pH    |  |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |
| 43<br>(HWD11)    | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within   |         |      |                                   |              |               |                 |                     | No discharge occurred from this monitoring location |  |  |  |  |  |  |
|                  | Conductivity | µs/cm |  |         |      |                                   |              |               |                 |                     |   |  |  |  |  |  |  |



| ID<br>EPL (Site) | Parameter    | Units | Frequency  | Samples | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only<br>Value                                 |
|------------------|--------------|-------|--|---------|------|-----------------------------------|--------------|---------------|-----------------|---|
|                  | Oil & Grease | mg/L  | 12hours of discharge caused by 38.4mm in a 5 Day consecutive period  |         |      |                                   |              |               |                 |   |
|                  | pH           | pH    |  |         |      |                                   |              |               |                 |   |
| 44<br>(WCWD)     | TSS          | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period |         |      |                                   |              |               |                 | No discharge occurred from this monitoring location |
|                  | Conductivity | µs/cm |  |         |      |                                   |              |               |                 |   |
|                  | Oil & Grease | mg/L  |  |         |      |                                   |              |               |                 |   |
|                  | pH           | pH    |  |         |      |                                   |              |               |                 |   |
| 45<br>(ECWDP)    | Oil & Grease | mg/L  | Not more than 12 hours after discharge commences   |         |      |                                   |              |               |                 | No discharge occurred from this monitoring location |
|                  | pH           | pH    |  |         |      |                                   |              |               |                 |   |
|                  | TSS          | mg/L  |  |         |      |                                   |              |               |                 |   |
| 46<br>(WCWDP)    | Oil & Grease | mg/L  | Not more than 12 hours after discharge commences   |         |      |                                   |              |               |                 | No discharge occurred from this monitoring location |
|                  | pH           | pH    |  |         |      |                                   |              |               |                 |   |
|                  | TSS          | mg/L  |  |         |      |                                   |              |               |                 |   |

## Noise Monitoring

Table 5 – 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    | 21/08/2024 | 22:30      | 0.3              | <30                | 35  | 32                | 45   | 0.0               | No                    |
| NM2    | 21/08/2024 | 23:00      | 0.6              | <25                | 39  | <25               | 45   | 0.0               | No                    |
| NM3    | 21/08/2024 | 23:20      | 0.7              | IA                 | 35  | IA                | 45   | 0.0               | No                    |
| NM4    | 21/08/2024 | 23:47      | 0.6              | IA                 | 35  | IA                | 45   | 0.0               | No                    |
| NM5    | 21/08/2024 | 22:00      | 0.3              | <25                | 35  | 37                | 45   | 0.0               | No                    |
| NM6    | 21/08/2024 | 23:25      | 0.7              | IA                 | 35  | IA                | 45   | 0.0               | No                    |

### Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.



## Blast Monitoring

Table 6 – Blast Monitoring (Blasts – Limits Apply)

| Location          | Parameter    | Units         | Frequency | Number | Average | Max   | 100% Limit | Exceedance (Yes / No) |
|-------------------|--------------|---------------|-----------|--------|---------|-------|------------|-----------------------|
| Operations Blasts | Overpressure | Db (Lin Peak) | All       | 7      | 95.03   | 113.3 | 120        | No                    |
|                   | Vibration    | mm/s          |           | 7      | 0.25    | 1.86  | 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).*

## Air Quality Monitoring

Table 7 – PM<sub>10</sub> (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Unit                    | Parameter        | Rolling<br>Annual<br>Average | NEPM<br>Annual<br>Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------|------------------|------------------------------|----------------------------|--------------------------|
| 18<br>(TEOM1)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 10.5                         | 30                         | No                       |
| 37<br>(TEOM3)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 13.4                         | 30                         | No                       |
| 19<br>(HVAS)     | 6 days           | µg/m <sup>3</sup>       | PM <sub>10</sub> | 14.2                         | 30                         | No                       |

Table 8 – Depositional Dust (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Particulates<br>Deposited<br>Matter | Rolling<br>Annual<br>Average<br>Insoluble<br>Solids | Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------------------|---|----------|--------------------------|
| 20<br>(DDG1/MC1) | Monthly          | g/m <sup>2</sup> month              | 2.0   | 4        | No                       |
| 21<br>(DDG2/MC2) | Monthly          | g/m <sup>2</sup> month              | 2.0   | 4        | No                       |
| 22<br>(DDG3/MC3) | Monthly          | g/m <sup>2</sup> month              | 1.8   | 4        | No                       |
| 23<br>(DDG4/MC4) | Monthly          | g/m <sup>2</sup> month              | 1.0   | 4        | No                       |

Figure 1 – EPL 20221 Monitoring Locations



**EPL 20221 Monitoring Locations - 16/05/2024**

- EPL Monitoring Locations
- ▭ MCCM Project Boundary MOD 9

Scale: 1:33,944,857,333  
Author: EGibson  
Date Printed: 26/03/2021  
Spatial Reference  
Name: WGS 1984 Web Mercator Auxiliary  
Sphere

Maules Creek Coal



Disclaimer: Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within. MCC shall have no liability for any decisions made or actions taken based upon this map.



## 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:** September 2024

**Obtained Date:** 16<sup>th</sup> October 2024

**Publication Date:** 16<sup>th</sup> October 2024

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2<sup>nd</sup> August 2022 by the NSW Environment Protection Authority (EPA).



## Monthly Monitoring Summary

### Ground Water Monitoring

**Table 1 - Groundwater Quality Monitoring**

| ID<br>EPL (Bore) | Parameters   | Units | Frequency | Samples | Date       | Laboratory<br>Results Received | Min | Mean | Max / Only<br>Value |
|------------------|--------------|-------|-----------|---------|------------|--------------------------------|-----|------|---------------------|
| 15<br>(BCM01)    | pH           | pH    | Quarterly | 0       | Dry        |                                |     |      |                     |
|                  | Conductivity | µs/cm |           |         |            |                                |     |      |                     |
|                  | TDS          | mg/L  |           |         |            |                                |     |      |                     |
| 16<br>(BCM03)    | pH           | pH    | Quarterly | 0       | Dry        |                                |     |      |                     |
|                  | Conductivity | µs/cm |           |         |            |                                |     |      |                     |
|                  | TDS          | mg/L  |           |         |            |                                |     |      |                     |
| 17<br>(REG10A)   | pH           | pH    | Quarterly | 0       | Dry        |                                |     |      |                     |
|                  | Conductivity | µs/cm |           |         |            |                                |     |      |                     |
|                  | TDS          | mg/L  |           |         |            |                                |     |      |                     |
| 24<br>(RB05A)    | pH           | pH    | Quarterly | 1       | 13/09/2024 | 16/10/2024                     |     |      | 7.61                |
|                  | Conductivity | µs/cm |           |         |            |                                |     |      | 1860                |
|                  | TDS          | mg/L  |           |         |            |                                |     |      | 1160                |



## Surface Water Monitoring

**Table 2 – Surface Water Monitoring – Mine Void**

| ID<br>EPL (Site)  | Parameter    | Units | Frequency         | Samples | Date       | Laboratory Results<br>Received | Min | Mean | Max / Only Value |
|-------------------|--------------|-------|-------------------|---------|------------|--------------------------------|-----|------|------------------|
| 12<br>(Mine Void) | TSS          | mg/L  | Every 2<br>months | 1       | 11/09/2024 | 16/10/2024                     | NA  | NA   | <5               |
|                   | Conductivity | µs/cm |                   |         |            |                                |     |      | 1290             |
|                   | Oil & Grease | mg/L  |                   |         |            |                                |     |      | <5               |
|                   | pH           | pH    |                   |         |            |                                |     |      | 8.41             |

**Table 3 – Wet Weather Discharge - Surface Water Monitoring**

| ID<br>EPL (Site) | Parameter               | Units | Frequency   | Samples | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only Value |
|------------------|-------------------------|-------|---|---------|------|-----------------------------------|--------------|---------------|-----------------|------------------|
| 3<br>(SD3)       | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36. |         |      |                                   |              |               |                 |                  |
|                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                  |
|                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | TSS                     | mg/L  |   |         |      |                                   |              |               |                 |                  |
| 36<br>(SD12)     | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36. |         |      |                                   |              |               |                 |                  |
|                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                  |
|                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | TSS                     | mg/L  |   |         |      |                                   |              |               |                 |                  |
| Conductivity     | µs/cm                   |       |   |         |      |                                   |              |               |                 |                  |

No discharge occurred from this monitoring location


**Table 4 – Clean Water Discharge - Surface Water Monitoring**

| ID EPL (Site)                 | Parameter            | Units | Frequency  | Samples   | Date | Laboratory Results Received | Min Value | Mean Value | Median Value | Max / Only Value |
|-------------------------------|----------------------|-------|--|---|------|-----------------------------|-----------|------------|--------------|------------------|
| 38<br>(Flow Meter Upstream)   | Conductivity         | µs/cm | Special Frequency 3 - within 12 hours of discharge from any discharge location.  | No discharge occurred during the reporting month      |      |                             |           |            |              |                  |
|                               | Nitrate              | mg/L  |  |   |      |                             |           |            |              |                  |
|                               | Nitrogen (total)     | mg/L  |  |   |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |  |   |      |                             |           |            |              |                  |
|                               | pH                   | pH    |  |   |      |                             |           |            |              |                  |
|                               | Phosphorous          | mg/L  |  |   |      |                             |           |            |              |                  |
|                               | Reactive Phosphorous | mg/L  |  |   |      |                             |           |            |              |                  |
| TSS                           | mg/L                 |       |  |   |      |                             |           |            |              |                  |
| 39<br>(Flow Meter downstream) | Conductivity         | µs/cm | Special Frequency 3 - within 12 hours of discharge from any discharge location.  |   |      |                             |           |            |              |                  |
|                               | Nitrate              | mg/L  |  |   |      |                             |           |            |              |                  |
|                               | Nitrogen (total)     | mg/L  |  |   |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |  |   |      |                             |           |            |              |                  |
|                               | pH                   | pH    |  |   |      |                             |           |            |              |                  |
|                               | Phosphorous          | mg/L  |  |   |      |                             |           |            |              |                  |
|                               | Reactive Phosphorous | mg/L  |  |   |      |                             |           |            |              |                  |
| TSS                           | mg/L                 |       |  |   |      |                             |           |            |              |                  |
| 40<br>(HWD8)                  | TSS                  | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period | No discharge occurred from these monitoring locations |      |                             |           |            |              |                  |
|                               | Conductivity         | µs/cm |  |   |      |                             |           |            |              |                  |
|                               | Oil & Grease         | mg/L  |  |   |      |                             |           |            |              |                  |
|                               | pH                   | pH    |  |   |      |                             |           |            |              |                  |



| ID<br>EPL (Site) | Parameter    | Units | Frequency   | Samples   | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only<br>Value |
|------------------|--------------|-------|---|---|------|-----------------------------------|--------------|---------------|-----------------|---------------------|
| 41<br>(HWD9)     | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | Conductivity | µs/cm |   |   |      |                                   |              |               |                 |                     |
|                  | Oil & Grease | mg/L  |   |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |   |   |      |                                   |              |               |                 |                     |
| 42<br>(HWD10)    | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period |   |      |                                   |              |               |                 |                     |
|                  | Conductivity | µs/cm |   |   |      |                                   |              |               |                 |                     |
|                  | Oil & Grease | mg/L  |   |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |   |   |      |                                   |              |               |                 |                     |
| 43<br>(HWD11)    | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within  |   |      |                                   |              |               |                 |                     |
|                  | Conductivity | µs/cm |   |   |      |                                   |              |               |                 |                     |



| ID<br>EPL (Site) | Parameter    | Units | Frequency  | Samples   | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only<br>Value |
|------------------|--------------|-------|--|---|------|-----------------------------------|--------------|---------------|-----------------|---------------------|
|                  | Oil & Grease | mg/L  | 12hours of discharge caused by 38.4mm in a 5 Day consecutive period  |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
| 44<br>(WCWD)     | TSS          | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | Conductivity | µs/cm |  |   |      |                                   |              |               |                 |                     |
|                  | Oil & Grease | mg/L  |  |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
| 45<br>(ECWDP)    | Oil & Grease | mg/L  | Not more than 12 hours after discharge commences   | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
|                  | TSS          | mg/L  |  |   |      |                                   |              |               |                 |                     |
| 46<br>(WCWDP)    | Oil & Grease | mg/L  | Not more than 12 hours after discharge commences   | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
|                  | TSS          | mg/L  |  |   |      |                                   |              |               |                 |                     |

## Noise Monitoring

Table 5 – 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    | 23/09/2024 | 22:30      | 0.3              | <20                | 35  | <20               | 45   | 0.0               | No                    |
| NM2    | 23/09/2024 | 23:30      | 0.3              | <20                | 39  | <20               | 45   | 0.0               | No                    |
| NM3    | 23/09/2024 | 23:45      | 0.3              | IA                 | 35  | IA                | 45   | 0.0               | No                    |
| NM4    | 23/09/2024 | 23:00      | 0.5              | IA                 | 35  | IA                | 45   | 0.0               | No                    |
| NM5    | 23/09/2024 | 22:00      | 0.2              | <20                | 35  | <20               | 45   | 0.0               | No                    |
| NM6    | 23/09/2024 | 23:57      | 0.3              | IA                 | 35  | IA                | 45   | 0.0               | No                    |

### Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.

## Blast Monitoring

Table 6 – Blast Monitoring (Blasts – Limits Apply)

| Location             | Parameter    | Units         | Frequency | Number | Average | Max   | 100% Limit | Exceedance (Yes / No) |
|----------------------|--------------|---------------|-----------|--------|---------|-------|------------|-----------------------|
| Operations<br>Blasts | Overpressure | Db (Lin Peak) | All       | 9      | 96.20   | 110.2 | 120        | No                    |
|                      | Vibration    | mm/s          |           | 9      | 0.10    | 0.52  | 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).



## Air Quality Monitoring

Table 7 – PM<sub>10</sub> (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Unit                    | Parameter        | Rolling<br>Annual<br>Average | NEPM<br>Annual<br>Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------|------------------|------------------------------|----------------------------|--------------------------|
| 18<br>(TEOM1)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 10.0                         | 30                         | No                       |
| 37<br>(TEOM3)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 13.8                         | 30                         | No                       |
| 19<br>(HVAS)     | 6 days           | µg/m <sup>3</sup>       | PM <sub>10</sub> | 12.5                         | 30                         | No                       |

Table 8 – Depositional Dust (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Particulates<br>Deposited<br>Matter | Rolling<br>Annual<br>Average<br>Insoluble<br>Solids | Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------------------|---|----------|--------------------------|
| 20<br>(DDG1/MC1) | Monthly          | g/m <sup>2</sup> month              | 1.7   | 4        | No                       |
| 21<br>(DDG2/MC2) | Monthly          | g/m <sup>2</sup> month              | 2.1   | 4        | No                       |
| 22<br>(DDG3/MC3) | Monthly          | g/m <sup>2</sup> month              | 1.9   | 4        | No                       |
| 23<br>(DDG4/MC4) | Monthly          | g/m <sup>2</sup> month              | 1.0   | 4        | No                       |



Figure 1 – EPL 20221 Monitoring Locations



**EPL 20221 Monitoring Locations - 16/05/2024**

- EPL Monitoring Locations
- MCCM Project Boundary MOD 9

Scale: 1:33,944,857,333

Author: EGleeson

Date Printed: 26/03/2021

Spatial Reference  
Name: WGS 1984 Web Mercator Auxiliary  
Sphere

Maules Creek Coal



Disclaimer: Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within. MCC shall have no liability for any decisions made or actions taken based upon this map.



## 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:** October 2024

**Obtained Date:** 15<sup>th</sup> November 2024

**Publication Date:** 18<sup>th</sup> November 2024

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2<sup>nd</sup> August 2022 by the NSW Environment Protection Authority (EPA).



## Monthly Monitoring Summary

### Ground Water Monitoring

**Table 1 - Groundwater Quality Monitoring**

| ID<br>EPL (Bore) | Parameters   | Units | Frequency | Samples | Date                      | Laboratory<br>Results Received | Min | Mean | Max / Only<br>Value |                           |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |
|------------------|--------------|-------|-----------|---------|---------------------------|--------------------------------|-----|------|---------------------|---------------------------|--|--|--|--|---------------------------|--|--|--|--|---------------------------|--|--|--|--|
| 15<br>(BCM01)    | pH           | pH    | Quarterly | 0       | Next sample December 2024 |                                |     |      |                     |                           |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |
|                  | Conductivity | µs/cm |           |         |                           |                                |     |      |                     |                           |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |
|                  | TDS          | mg/L  |           |         |                           |                                |     |      |                     |                           |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |
| 16<br>(BCM03)    | pH           | pH    | Quarterly | 0       |                           |                                |     |      |                     | Next sample December 2024 |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |
|                  | Conductivity | µs/cm |           |         |                           |                                |     |      |                     |                           |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |
|                  | TDS          | mg/L  |           |         |                           |                                |     |      |                     |                           |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |
| 17<br>(REG10A)   | pH           | pH    | Quarterly | 0       |                           |                                |     |      |                     |                           |  |  |  |  | Next sample December 2024 |  |  |  |  |                           |  |  |  |  |
|                  | Conductivity | µs/cm |           |         |                           |                                |     |      |                     |                           |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |
|                  | TDS          | mg/L  |           |         |                           |                                |     |      |                     |                           |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |
| 24<br>(RB05A)    | pH           | pH    | Quarterly | 0       |                           |                                |     |      |                     |                           |  |  |  |  |                           |  |  |  |  | Next sample December 2024 |  |  |  |  |
|                  | Conductivity | µs/cm |           |         |                           |                                |     |      |                     |                           |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |
|                  | TDS          | mg/L  |           |         |                           |                                |     |      |                     |                           |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |



## Surface Water Monitoring

**Table 2 – Surface Water Monitoring – Mine Void**

| ID<br>EPL (Site)  | Parameter    | Units | Frequency         | Samples | Date       | Laboratory Results<br>Received | Min | Mean | Max / Only Value |
|-------------------|--------------|-------|-------------------|---------|------------|--------------------------------|-----|------|------------------|
| 12<br>(Mine Void) | TSS          | mg/L  | Every 2<br>months | 1       | 11/10/2024 | 15/11/2024                     | NA  | NA   | 21               |
|                   | Conductivity | µs/cm |                   |         |            |                                |     |      | 1330             |
|                   | Oil & Grease | mg/L  |                   |         |            |                                |     |      | <5               |
|                   | pH           | pH    |                   |         |            |                                |     |      | 8.3              |

**Table 3 – Wet Weather Discharge - Surface Water Monitoring**

| ID<br>EPL (Site) | Parameter               | Units | Frequency   | Samples | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only Value |
|------------------|-------------------------|-------|---|---------|------|-----------------------------------|--------------|---------------|-----------------|------------------|
| 3<br>(SD3)       | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36. |         |      |                                   |              |               |                 |                  |
|                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                  |
|                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | TSS                     | mg/L  |   |         |      |                                   |              |               |                 |                  |
| 36<br>(SD12)     | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36. |         |      |                                   |              |               |                 |                  |
|                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                  |
|                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | TSS                     | mg/L  |   |         |      |                                   |              |               |                 |                  |
| Conductivity     | µs/cm                   |       |   |         |      |                                   |              |               |                 |                  |

No discharge occurred from this monitoring location


**Table 4 – Clean Water Discharge - Surface Water Monitoring**

| ID EPL (Site)                 | Parameter            | Units | Frequency  | Samples   | Date | Laboratory Results Received | Min Value | Mean Value | Median Value | Max / Only Value |  |  |  |  |  |  |  |
|-------------------------------|----------------------|-------|--|---|------|-----------------------------|-----------|------------|--------------|------------------|--|--|--|--|--|--|--|
| 38<br>(Flow Meter Upstream)   | Conductivity         | µs/cm | Special Frequency 3 - within 12 hours of discharge from any discharge location.  | No discharge occurred during the reporting month      |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Nitrate              | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Nitrogen (total)     | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Oil & Grease         | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | pH                   | pH    |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Phosphorous          | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Reactive Phosphorous | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
| TSS                           | mg/L                 |       |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
| 39<br>(Flow Meter downstream) | Conductivity         | µs/cm | Special Frequency 3 - within 12 hours of discharge from any discharge location.  |   |      |                             |           |            |              |                  | No discharge occurred during the reporting month |  |  |  |  |  |  |
|                               | Nitrate              | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Nitrogen (total)     | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Oil & Grease         | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | pH                   | pH    |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Phosphorous          | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Reactive Phosphorous | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
| TSS                           | mg/L                 |       |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
| 40<br>(HWD8)                  | TSS                  | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period | No discharge occurred from these monitoring locations |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Conductivity         | µs/cm |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Oil & Grease         | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | pH                   | pH    |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |



| ID<br>EPL (Site) | Parameter    | Units | Frequency  | Samples   | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only<br>Value |
|------------------|--------------|-------|--|---|------|-----------------------------------|--------------|---------------|-----------------|---------------------|
| 41<br>(HWD9)     | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46<br>or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | Conductivity | µs/cm |  |   |      |                                   |              |               |                 |                     |
|                  | Oil & Grease | mg/L  |  |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
| 42<br>(HWD10)    | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period    |   |      |                                   |              |               |                 |                     |
|                  | Conductivity | µs/cm |  |   |      |                                   |              |               |                 |                     |
|                  | Oil & Grease | mg/L  |  |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
| 43<br>(HWD11)    | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within   |   |      |                                   |              |               |                 |                     |
|                  | Conductivity | µs/cm |  |   |      |                                   |              |               |                 |                     |



| ID<br>EPL (Site) | Parameter    | Units | Frequency  | Samples   | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only<br>Value |
|------------------|--------------|-------|--|---|------|-----------------------------------|--------------|---------------|-----------------|---------------------|
|                  | Oil & Grease | mg/L  | 12hours of discharge caused by 38.4mm in a 5 Day consecutive period  |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
| 44<br>(WCWD)     | TSS          | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | Conductivity | µs/cm |  |   |      |                                   |              |               |                 |                     |
|                  | Oil & Grease | mg/L  |  |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
| 45<br>(ECWDP)    | Oil & Grease | mg/L  | Not more than 12 hours after discharge commences   | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
|                  | TSS          | mg/L  |  |   |      |                                   |              |               |                 |                     |
| 46<br>(WCWDP)    | Oil & Grease | mg/L  | Not more than 12 hours after discharge commences   | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
|                  | TSS          | mg/L  |  |   |      |                                   |              |               |                 |                     |

## Noise Monitoring

Table 5 – 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    | 22/10/2024 | 22:30      | 0.3              | <25                | 35  | 25                | 45   | 0.0               | No                    |
| NM2    | 22/10/2024 | 23:30      | 0.4              | 28                 | 39  | <30               | 45   | 0.0               | No                    |
| NM3    | 22/10/2024 | 23:29      | 0.4              | <20                | 35  | <20               | 45   | 0.0               | No                    |
| NM4    | 22/10/2024 | 23:00      | 0.5              | <20                | 35  | <20               | 45   | 0.0               | No                    |
| NM5    | 22/10/2024 | 22:00      | 0.2              | <25                | 35  | 29                | 45   | 0.0               | No                    |
| NM6    | 23/10/2024 | 00:02      | 0.4              | <25                | 35  | <25               | 45   | 0.0               | No                    |

### Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.



## Blast Monitoring

Table 6 – Blast Monitoring (Blasts – Limits Apply)

| Location             | Parameter    | Units         | Frequency | Number | Average | Max   | 100% Limit | Exceedance (Yes / No) |
|----------------------|--------------|---------------|-----------|--------|---------|-------|------------|-----------------------|
| Operations<br>Blasts | Overpressure | Db (Lin Peak) | All       | 8      | 95.14   | 106.8 | 120        | No                    |
|                      | Vibration    | mm/s          |           | 8      | 0.09    | 0.36  | 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).



## Air Quality Monitoring

Table 7 – PM<sub>10</sub> (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Unit                    | Parameter        | Rolling<br>Annual<br>Average | NEPM<br>Annual<br>Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------|------------------|------------------------------|----------------------------|--------------------------|
| 18<br>(TEOM1)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 9.8                          | 30                         | No                       |
| 37<br>(TEOM3)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 12.3                         | 30                         | No                       |
| 19<br>(HVAS)     | 6 days           | µg/m <sup>3</sup>       | PM <sub>10</sub> | 12.8                         | 30                         | No                       |

Table 8 – Depositional Dust (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Particulates<br>Deposited<br>Matter | Rolling<br>Annual<br>Average<br>Insoluble<br>Solids | Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------------------|---|----------|--------------------------|
| 20<br>(DDG1/MC1) | Monthly          | g/m <sup>2</sup> month              | 2.0   | 4        | No                       |
| 21<br>(DDG2/MC2) | Monthly          | g/m <sup>2</sup> month              | 2.2   | 4        | No                       |
| 22<br>(DDG3/MC3) | Monthly          | g/m <sup>2</sup> month              | 1.8   | 4        | No                       |
| 23<br>(DDG4/MC4) | Monthly          | g/m <sup>2</sup> month              | 1.0   | 4        | No                       |



Figure 1 – EPL 20221 Monitoring Locations



**EPL 20221 Monitoring Locations - 16/05/2024**

- EPL Monitoring Locations
- MCCM Project Boundary MOD 9

Scale: 1:33,944,857,333

Author: EGibson

Date Printed: 29/03/2021

Spatial Reference  
Name: WGS 1984 Web Mercator Auxiliary  
Sphere

Maules Creek Coal



Disclaimer: Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within. MCC shall have no liability for any decisions made or actions taken based upon this map.



## 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:** November 2024

**Obtained Date:** 12<sup>th</sup> December 2024

**Publication Date:** 16<sup>th</sup> December 2024

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2<sup>nd</sup> August 2022 by the NSW Environment Protection Authority (EPA).



## Monthly Monitoring Summary

### Ground Water Monitoring

**Table 1 - Groundwater Quality Monitoring**

| ID<br>EPL (Bore) | Parameters   | Units | Frequency | Samples | Date                      | Laboratory<br>Results Received | Min | Mean | Max / Only<br>Value |                           |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |
|------------------|--------------|-------|-----------|---------|---------------------------|--------------------------------|-----|------|---------------------|---------------------------|--|--|--|--|---------------------------|--|--|--|--|---------------------------|--|--|--|--|
| 15<br>(BCM01)    | pH           | pH    | Quarterly | 0       | Next sample December 2024 |                                |     |      |                     |                           |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |
|                  | Conductivity | µs/cm |           |         |                           |                                |     |      |                     |                           |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |
|                  | TDS          | mg/L  |           |         |                           |                                |     |      |                     |                           |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |
| 16<br>(BCM03)    | pH           | pH    | Quarterly | 0       |                           |                                |     |      |                     | Next sample December 2024 |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |
|                  | Conductivity | µs/cm |           |         |                           |                                |     |      |                     |                           |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |
|                  | TDS          | mg/L  |           |         |                           |                                |     |      |                     |                           |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |
| 17<br>(REG10A)   | pH           | pH    | Quarterly | 0       |                           |                                |     |      |                     |                           |  |  |  |  | Next sample December 2024 |  |  |  |  |                           |  |  |  |  |
|                  | Conductivity | µs/cm |           |         |                           |                                |     |      |                     |                           |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |
|                  | TDS          | mg/L  |           |         |                           |                                |     |      |                     |                           |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |
| 24<br>(RB05A)    | pH           | pH    | Quarterly | 0       |                           |                                |     |      |                     |                           |  |  |  |  |                           |  |  |  |  | Next sample December 2024 |  |  |  |  |
|                  | Conductivity | µs/cm |           |         |                           |                                |     |      |                     |                           |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |
|                  | TDS          | mg/L  |           |         |                           |                                |     |      |                     |                           |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |



## Surface Water Monitoring

**Table 2 – Surface Water Monitoring – Mine Void**

| ID<br>EPL (Site)  | Parameter    | Units | Frequency         | Samples | Date       | Laboratory Results<br>Received | Min | Mean | Max / Only Value |
|-------------------|--------------|-------|-------------------|---------|------------|--------------------------------|-----|------|------------------|
| 12<br>(Mine Void) | TSS          | mg/L  | Every 2<br>months | 1       | 11/11/2024 | 12/12/2024                     | NA  | NA   | <5               |
|                   | Conductivity | µs/cm |                   |         |            |                                |     |      | 1320             |
|                   | Oil & Grease | mg/L  |                   |         |            |                                |     |      | <5               |
|                   | pH           | pH    |                   |         |            |                                |     |      | 8.16             |

**Table 3 – Wet Weather Discharge - Surface Water Monitoring**

| ID<br>EPL (Site) | Parameter               | Units | Frequency   | Samples | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only Value |
|------------------|-------------------------|-------|---|---------|------|-----------------------------------|--------------|---------------|-----------------|------------------|
| 3<br>(SD3)       | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36. |         |      |                                   |              |               |                 |                  |
|                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                  |
|                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | TSS                     | mg/L  |   |         |      |                                   |              |               |                 |                  |
| 36<br>(SD12)     | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36. |         |      |                                   |              |               |                 |                  |
|                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                  |
|                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | TSS                     | mg/L  |   |         |      |                                   |              |               |                 |                  |
| Conductivity     | µs/cm                   |       |   |         |      |                                   |              |               |                 |                  |

No discharge occurred from this monitoring location


**Table 4 – Clean Water Discharge - Surface Water Monitoring**

| ID EPL (Site)                 | Parameter            | Units | Frequency  | Samples   | Date | Laboratory Results Received | Min Value | Mean Value | Median Value | Max / Only Value |  |  |  |  |  |  |  |
|-------------------------------|----------------------|-------|--|---|------|-----------------------------|-----------|------------|--------------|------------------|--|--|--|--|--|--|--|
| 38<br>(Flow Meter Upstream)   | Conductivity         | µs/cm | Special Frequency 3 - within 12 hours of discharge from any discharge location.  | No discharge occurred during the reporting month      |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Nitrate              | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Nitrogen (total)     | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Oil & Grease         | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | pH                   | pH    |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Phosphorous          | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Reactive Phosphorous | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
| TSS                           | mg/L                 |       |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
| 39<br>(Flow Meter downstream) | Conductivity         | µs/cm | Special Frequency 3 - within 12 hours of discharge from any discharge location.  |   |      |                             |           |            |              |                  | No discharge occurred during the reporting month |  |  |  |  |  |  |
|                               | Nitrate              | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Nitrogen (total)     | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Oil & Grease         | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | pH                   | pH    |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Phosphorous          | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Reactive Phosphorous | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
| TSS                           | mg/L                 |       |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
| 40<br>(HWD8)                  | TSS                  | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period | No discharge occurred from these monitoring locations |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Conductivity         | µs/cm |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | Oil & Grease         | mg/L  |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |
|                               | pH                   | pH    |  |   |      |                             |           |            |              |                  |  |  |  |  |  |  |  |



| ID<br>EPL (Site) | Parameter    | Units | Frequency  | Samples   | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only<br>Value |
|------------------|--------------|-------|--|---|------|-----------------------------------|--------------|---------------|-----------------|---------------------|
| 41<br>(HWD9)     | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46<br>or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | Conductivity | µs/cm |  |   |      |                                   |              |               |                 |                     |
|                  | Oil & Grease | mg/L  |  |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
| 42<br>(HWD10)    | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period    |   |      |                                   |              |               |                 |                     |
|                  | Conductivity | µs/cm |  |   |      |                                   |              |               |                 |                     |
|                  | Oil & Grease | mg/L  |  |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
| 43<br>(HWD11)    | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within   |   |      |                                   |              |               |                 |                     |
|                  | Conductivity | µs/cm |  |   |      |                                   |              |               |                 |                     |



| ID<br>EPL (Site) | Parameter    | Units | Frequency  | Samples   | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only<br>Value |
|------------------|--------------|-------|--|---|------|-----------------------------------|--------------|---------------|-----------------|---------------------|
|                  | Oil & Grease | mg/L  | 12hours of discharge caused by 38.4mm in a 5 Day consecutive period  |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
| 44<br>(WCWD)     | TSS          | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | Conductivity | µs/cm |  |   |      |                                   |              |               |                 |                     |
|                  | Oil & Grease | mg/L  |  |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
| 45<br>(ECWDP)    | Oil & Grease | mg/L  | Not more than 12 hours after discharge commences   | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
|                  | TSS          | mg/L  |  |   |      |                                   |              |               |                 |                     |
| 46<br>(WCWDP)    | Oil & Grease | mg/L  | Not more than 12 hours after discharge commences   | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
|                  | TSS          | mg/L  |  |   |      |                                   |              |               |                 |                     |

## Noise Monitoring

Table 5 – 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    | 05/11/2024 | 22:30      | 2.6              | IA                 | 35  | IA                | 45   | 0.0               | No                    |
| NM2    | 05/11/2024 | 23:30      | 2.8              | <20                | 39  | <25               | 45   | 0.0               | No                    |
| NM3    | 05/11/2024 | 23:17      | 2.2              | IA                 | 35  | IA                | 45   | 0.0               | No                    |
| NM4    | 05/11/2024 | 23:00      | 2.3              | IA                 | 35  | IA                | 45   | 0.0               | No                    |
| NM5    | 05/11/2024 | 22:00      | 2.9              | <20                | 35  | <20               | 45   | 0.0               | No                    |
| NM6    | 06/11/2024 | 00:00      | 2.2              | IA                 | 35  | IA                | 45   | 0.0               | No                    |

### Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.



## Blast Monitoring

Table 6 – Blast Monitoring (Blasts – Limits Apply)

| Location             | Parameter    | Units         | Frequency | Number | Average | Max   | 100% Limit | Exceedance (Yes / No) |
|----------------------|--------------|---------------|-----------|--------|---------|-------|------------|-----------------------|
| Operations<br>Blasts | Overpressure | Db (Lin Peak) | All       | 8      | 94.9    | 109.2 | 120        | No                    |
|                      | Vibration    | mm/s          |           | 8      | 0.11    | 0.43  | 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).



## Air Quality Monitoring

Table 7 – PM<sub>10</sub> (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Unit                    | Parameter        | Rolling<br>Annual<br>Average | NEPM<br>Annual<br>Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------|------------------|------------------------------|----------------------------|--------------------------|
| 18<br>(TEOM1)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 9.9                          | 30                         | No                       |
| 37<br>(TEOM3)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 13.5                         | 30                         | No                       |
| 19<br>(HVAS)     | 6 days           | µg/m <sup>3</sup>       | PM <sub>10</sub> | 12.9                         | 30                         | No                       |

Table 8 – Depositional Dust (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Particulates<br>Deposited<br>Matter | Rolling<br>Annual<br>Average<br>Insoluble<br>Solids | Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------------------|---|----------|--------------------------|
| 20<br>(DDG1/MC1) | Monthly          | g/m <sup>2</sup> month              | 2.0   | 4        | No                       |
| 21<br>(DDG2/MC2) | Monthly          | g/m <sup>2</sup> month              | 2.2   | 4        | No                       |
| 22<br>(DDG3/MC3) | Monthly          | g/m <sup>2</sup> month              | 1.9   | 4        | No                       |
| 23<br>(DDG4/MC4) | Monthly          | g/m <sup>2</sup> month              | 1.0   | 4        | No                       |



Figure 1 – EPL 20221 Monitoring Locations



**EPL 20221 Monitoring Locations - 16/05/2024**

- EPL Monitoring Locations
- MCCM Project Boundary MOD 9

Scale: 1:33,944,857,333  
 Author: EGibson  
 Date Printed: 29/03/2021

Maules Creek Coal



Disclaimer: Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within. MCC shall have no liability for any decisions made or actions taken based upon this map.



## 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:** November 2024

**Obtained Date:** 17<sup>th</sup> January 2025

**Publication Date:** 20<sup>th</sup> January 2025

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2<sup>nd</sup> August 2022 by the NSW Environment Protection Authority (EPA).



## Monthly Monitoring Summary

### Ground Water Monitoring

**Table 1 – Groundwater Quality Monitoring**

| ID<br>EPL (Bore) | Parameters   | Units | Frequency | Samples | Date                         | Laboratory<br>Results Received | Min | Mean | Max / Only<br>Value |
|------------------|--------------|-------|-----------|---------|------------------------------|--------------------------------|-----|------|---------------------|
| 15<br>(BCM01)    | pH           | pH    | Quarterly | 0       | Dry – Next Sample March 2025 |                                |     |      |                     |
|                  | Conductivity | µs/cm |           |         |                              |                                |     |      |                     |
|                  | TDS          | mg/L  |           |         |                              |                                |     |      |                     |
| 16<br>(BCM03)    | pH           | pH    | Quarterly | 0       | Dry – Next Sample March 2025 |                                |     |      |                     |
|                  | Conductivity | µs/cm |           |         |                              |                                |     |      |                     |
|                  | TDS          | mg/L  |           |         |                              |                                |     |      |                     |
| 17<br>(REG10A)   | pH           | pH    | Quarterly | 0       | Dry - Next Sample March 2025 |                                |     |      |                     |
|                  | Conductivity | µs/cm |           |         |                              |                                |     |      |                     |
|                  | TDS          | mg/L  |           |         |                              |                                |     |      |                     |
| 24<br>(RB05A)    | pH           | pH    | Quarterly | 1       | 10/12/2024                   | 17/01/2025                     | NA  | NA   | 7.5                 |
|                  | Conductivity | µs/cm |           |         |                              |                                |     |      | 1890                |
|                  | TDS          | mg/L  |           |         |                              |                                |     |      | 1050                |



## Surface Water Monitoring

**Table 2 – Surface Water Monitoring – Mine Void**

| ID<br>EPL (Site)  | Parameter    | Units | Frequency         | Samples | Date       | Laboratory Results<br>Received | Min | Mean | Max / Only Value |
|-------------------|--------------|-------|-------------------|---------|------------|--------------------------------|-----|------|------------------|
| 12<br>(Mine Void) | TSS          | mg/L  | Every 2<br>months | 1       | 09/12/2024 | 17/01/2025                     | NA  | NA   | <5               |
|                   | Conductivity | µs/cm |                   |         |            |                                |     |      | 1360             |
|                   | Oil & Grease | mg/L  |                   |         |            |                                |     |      | <5               |
|                   | pH           | pH    |                   |         |            |                                |     |      | 8.16             |

**Table 3 – Wet Weather Discharge - Surface Water Monitoring**

| ID<br>EPL (Site) | Parameter               | Units | Frequency   | Samples | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only Value |
|------------------|-------------------------|-------|---|---------|------|-----------------------------------|--------------|---------------|-----------------|------------------|
| 3<br>(SD3)       | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36. |         |      |                                   |              |               |                 |                  |
|                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                  |
|                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | TSS                     | mg/L  |   |         |      |                                   |              |               |                 |                  |
| 36<br>(SD12)     | Conductivity            | µs/cm | Special<br>Frequency 1 -<br>within 12<br>hours of<br>discharge from<br>EPL 3 or 36. |         |      |                                   |              |               |                 |                  |
|                  | Nitrate                 | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Nitrogen (total)        | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Oil & Grease            | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | pH                      | pH    |   |         |      |                                   |              |               |                 |                  |
|                  | Phosphorous             | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | Reactive<br>Phosphorous | mg/L  |   |         |      |                                   |              |               |                 |                  |
|                  | TSS                     | mg/L  |   |         |      |                                   |              |               |                 |                  |
| Conductivity     | µs/cm                   |       |   |         |      |                                   |              |               |                 |                  |

No discharge occurred from this monitoring location


**Table 4 – Clean Water Discharge - Surface Water Monitoring**

| ID<br>EPL (Site)                 | Parameter               | Units | Frequency   | Samples   | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only<br>Value |  |  |  |  |  |  |  |
|----------------------------------|-------------------------|-------|---|---|------|-----------------------------------|--------------|---------------|-----------------|---------------------|--|--|--|--|--|--|--|
| 38<br>(Flow Meter<br>Upstream)   | Conductivity            | µs/cm | Special<br>Frequency 3 -<br>within 12<br>hours of<br>discharge<br>from any<br>discharge<br>location.  | No discharge occurred during the reporting month      |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |
|                                  | Nitrate                 | mg/L  |   |   |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |
|                                  | Nitrogen (total)        | mg/L  |   |   |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |
|                                  | Oil & Grease            | mg/L  |   |   |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |
|                                  | pH                      | pH    |   |   |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |
|                                  | Phosphorous             | mg/L  |   |   |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |
|                                  | Reactive<br>Phosphorous | mg/L  |   |   |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |
| TSS                              | mg/L                    |       |   |   |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |
| 39<br>(Flow Meter<br>downstream) | Conductivity            | µs/cm | Special<br>Frequency 3 -<br>within 12<br>hours of<br>discharge<br>from any<br>discharge<br>location.  |   |      |                                   |              |               |                 |                     | No discharge occurred during the reporting month |  |  |  |  |  |  |
|                                  | Nitrate                 | mg/L  |   |   |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |
|                                  | Nitrogen (total)        | mg/L  |   |   |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |
|                                  | Oil & Grease            | mg/L  |   |   |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |
|                                  | pH                      | pH    |   |   |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |
|                                  | Phosphorous             | mg/L  |   |   |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |
|                                  | Reactive<br>Phosphorous | mg/L  |   |   |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |
| TSS                              | mg/L                    |       |   |   |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |
| 40<br>(HWD8)                     | TSS                     | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period | No discharge occurred from these monitoring locations |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |
|                                  | Conductivity            | µs/cm |   |   |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |
|                                  | Oil & Grease            | mg/L  |   |   |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |
|                                  | pH                      | pH    |   |   |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |



| ID<br>EPL (Site) | Parameter    | Units | Frequency   | Samples | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only<br>Value |  |  |  |  |  |  |  |   |  |  |  |  |  |  |
|------------------|--------------|-------|---|---------|------|-----------------------------------|--------------|---------------|-----------------|---------------------|--|--|--|--|--|--|--|---|--|--|--|--|--|--|
| 41<br>(HWD9)     | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period |         |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |   |  |  |  |  |  |  |
|                  | Conductivity | µs/cm |   |         |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |   |  |  |  |  |  |  |
|                  | Oil & Grease | mg/L  |   |         |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |   |  |  |  |  |  |  |
|                  | pH           | pH    |   |         |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |   |  |  |  |  |  |  |
| 42<br>(HWD10)    | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within<br>12hours of<br>discharge<br>caused by<br>38.4mm in a<br>5 Day<br>consecutive<br>period |         |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |   |  |  |  |  |  |  |
|                  | Conductivity | µs/cm |   |         |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |   |  |  |  |  |  |  |
|                  | Oil & Grease | mg/L  |   |         |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |   |  |  |  |  |  |  |
|                  | pH           | pH    |   |         |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |   |  |  |  |  |  |  |
| 43<br>(HWD11)    | TSS          | mg/L  | Special<br>Frequency 2<br>– prior to<br>discharging<br>from EPL 45<br>and/or 46 or<br>within  |         |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  | No discharge occurred from this monitoring location |  |  |  |  |  |  |
|                  | Conductivity | µs/cm |   |         |      |                                   |              |               |                 |                     |  |  |  |  |  |  |  |   |  |  |  |  |  |  |



| ID<br>EPL (Site) | Parameter    | Units | Frequency  | Samples   | Date | Laboratory<br>Results<br>Received | Min<br>Value | Mean<br>Value | Median<br>Value | Max / Only<br>Value |
|------------------|--------------|-------|--|---|------|-----------------------------------|--------------|---------------|-----------------|---------------------|
|                  | Oil & Grease | mg/L  | 12hours of discharge caused by 38.4mm in a 5 Day consecutive period  |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
| 44<br>(WCWD)     | TSS          | mg/L  | Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | Conductivity | µs/cm |  |   |      |                                   |              |               |                 |                     |
|                  | Oil & Grease | mg/L  |  |   |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
| 45<br>(ECWDP)    | Oil & Grease | mg/L  | Not more than 12 hours after discharge commences   | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
|                  | TSS          | mg/L  |  |   |      |                                   |              |               |                 |                     |
| 46<br>(WCWDP)    | Oil & Grease | mg/L  | Not more than 12 hours after discharge commences   | No discharge occurred from this monitoring location |      |                                   |              |               |                 |                     |
|                  | pH           | pH    |  |   |      |                                   |              |               |                 |                     |
|                  | TSS          | mg/L  |  |   |      |                                   |              |               |                 |                     |

## Noise Monitoring

Table 5 – 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    | 19/12/2024 | 22:32      | 3.5              | <25                | 40  | <25               | 50   | 0.0               | No                    |
| NM2    | 19/12/2024 | 23:30      | 4.6              | <25                | 44  | 27                | 50   | 0.0               | No                    |
| NM3    | 19/12/2024 | 23:19      | 4.4              | <25                | 40  | 30                | 50   | 0.0               | No                    |
| NM4    | 19/12/2024 | 23:00      | 2.9              | <25                | 35  | <25               | 45   | 0.0               | No                    |
| NM5    | 19/12/2024 | 22:00      | 3.4              | IA                 | 40  | IA                | 50   | 0.0               | No                    |
| NM6    | 19/12/2024 | 23:50      | 4.2              | <25                | 40  | <25               | 50   | 0.0               | No                    |

Note: Noise limits are adjusted by +5 dB during 'very enhancing meteorological conditions' in accordance with the NPfl.

### Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.

## Blast Monitoring

Table 6 – Blast Monitoring (Blasts – Limits Apply)

| Location             | Parameter    | Units         | Frequency | Number | Average | Max   | 100% Limit | Exceedance (Yes / No) |
|----------------------|--------------|---------------|-----------|--------|---------|-------|------------|-----------------------|
| Operations<br>Blasts | Overpressure | Db (Lin Peak) | All       | 10     | 94.2    | 111.5 | 120        | No                    |
|                      | Vibration    | mm/s          |           | 10     | 0.10    | 0.24  | 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).



## Air Quality Monitoring

Table 7 – PM<sub>10</sub> (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Unit                    | Parameter        | Rolling<br>Annual<br>Average | NEPM<br>Annual<br>Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------|------------------|------------------------------|----------------------------|--------------------------|
| 18<br>(TEOM1)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 9.3                          | 30                         | No                       |
| 37<br>(TEOM3)    | Continuous       | µg/m <sup>3</sup> month | PM <sub>10</sub> | 12.5                         | 30                         | No                       |
| 19<br>(HVAS)     | 6 days           | µg/m <sup>3</sup>       | PM <sub>10</sub> | 12.6                         | 30                         | No                       |

Table 8 – Depositional Dust (Limits Apply)

| ID<br>EPL (Site) | Sample<br>period | Particulates<br>Deposited<br>Matter | Rolling<br>Annual<br>Average<br>Insoluble<br>Solids | Criteria | Exceedance<br>(Yes / No) |
|------------------|------------------|-------------------------------------|---|----------|--------------------------|
| 20<br>(DDG1/MC1) | Monthly          | g/m <sup>2</sup> month              | 1.8   | 4        | No                       |
| 21<br>(DDG2/MC2) | Monthly          | g/m <sup>2</sup> month              | 2.5   | 4        | No                       |
| 22<br>(DDG3/MC3) | Monthly          | g/m <sup>2</sup> month              | 2.0   | 4        | No                       |
| 23<br>(DDG4/MC4) | Monthly          | g/m <sup>2</sup> month              | 1.1   | 4        | No                       |



Figure 1 – EPL 20221 Monitoring Locations



**EPL 20221 Monitoring Locations - 16/05/2024**

- EPL Monitoring Locations
- MCCM Project Boundary MOD 9

Scale: 1:33,944,857,333

Author: EGleeson

Date Printed: 26/03/2021

Spatial Reference  
Name: WGS 1984 Web Mercator Auxiliary  
Sphere

Maules Creek Coal





| <b>Month of EPL Report:</b> | <b>Date of original Publishing</b> | <b>Date of Correction</b> | <b>Date of Republishing</b> | <b>Correction/s made</b>                              |
|-----------------------------|------------------------------------|---------------------------|-----------------------------|---|
| January 2024                | 16/02/2024                         | 24/03/2026                | 24/03/2026                  | Table 9 amended to reflect sample period in EPL 20221 |
| February 2024               | 16/03/2024                         | 24/03/2026                | 24/03/2026                  | Table 9 amended to reflect sample period in EPL 20221 |
| March 2024                  | 17/04/2024                         | 24/03/2026                | 24/03/2026                  | Table 9 amended to reflect sample period in EPL 20221 |
| April 2024                  | 16/05/2024                         | 24/03/2026                | 24/03/2026                  | Table 9 amended to reflect sample period in EPL 20221 |
| May 2024                    | 17/06/2024                         | 24/03/2026                | 24/03/2026                  | Table 9 amended to reflect sample period in EPL 20221 |
| June 2024                   | 16/07/2024                         | 24/03/2026                | 24/03/2026                  | Table 9 amended to reflect sample period in EPL 20221 |
| July 2024                   | 19/08/2024                         | 24/03/2026                | 24/03/2026                  | Table 9 amended to reflect sample period in EPL 20221 |
| August 2024                 | 16/09/2024                         | 24/03/2026                | 24/03/2026                  | Table 9 amended to reflect sample period in EPL 20221 |
| September 2024              | 16/10/2024                         | 24/03/2026                | 24/03/2026                  | Table 9 amended to reflect sample period in EPL 20221 |
| October 2024                | 18/11/2024                         | 24/03/2026                | 24/03/2026                  | Table 9 amended to reflect sample period in EPL 20221 |
| November 2024               | 16/12/2024                         | 24/03/2026                | 24/03/2026                  | Table 9 amended to reflect sample period in EPL 20221 |
| December 2024               | 20/01/2025                         | 24/03/2026                | 24/03/2026                  | Table 9 amended to reflect sample period in EPL 20221 |