



## 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 2022

**Obtained Date:** 15<sup>th</sup> September 2022

**Publication Date:** 22<sup>th</sup> September 2022

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 EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value
15 (BCM01)	pH	pH	Quarterly	Next sample in September 2022					
	Conductivity	µs/cm							
	TDS	mg/L							
16 (BCM03)	pH	pH	Quarterly						
	Conductivity	µs/cm							
	TDS	mg/L							
17 (REG10A)	pH	pH	Quarterly						
	Conductivity	µs/cm							
	TDS	mg/L							
24 (RB05A)	pH	pH	Quarterly						
	Conductivity	µs/cm							
	TDS	mg/L							



## 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 (Mine Void)	TSS	mg/L	Every 2 months	Next sample in September 2022					
	Conductivity	µs/cm							
	Oil & Grease	mg/L							
	pH	pH							

**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 (SD3)	Conductivity	µs/cm	Special Frequency 1 - within 12 hours of discharge from EPL 3 or 36.	No discharge at these locations this month						
	Nitrate	mg/L								
	Nitrogen (total)	mg/L								
	Oil & Grease	mg/L								
	pH	pH								
	Phosphorous	mg/L								
	Reactive Phosphorous	mg/L								
TSS	mg/L									
36 (SD12)	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								
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 (Flow Meter Upstream)	Conductivity	µs/cm	Special Frequency 3 - within 12 hours of discharge from any discharge location.	1	16/08/2022	YES				215
	Nitrate	mg/L								3.73
	Nitrogen (total)	mg/L								6
	Oil & Grease	mg/L								<5
	pH	pH								7.55
	Phosphorous	mg/L								0.19
	Reactive Phosphorous	mg/L								0.02
	TSS	mg/L								13
39 (Flow Meter downstream)	Conductivity	µs/cm	Special Frequency 3 - within 12 hours of discharge from any discharge location.	1	16/08/2022	YES				213
	Nitrate	mg/L								2.98
	Nitrogen (total)	mg/L								5.1
	Oil & Grease	mg/L								<5
	pH	pH								7.67
	Phosphorous	mg/L								0.20
	Reactive Phosphorous	mg/L								0.03
	TSS	mg/L								12
40 (HWD8)	TSS	mg/L	Special Frequency 2 – prior to discharging from EPL 45 and/or 46 and again within 12 hours of discharge,							No discharge occurred from this monitoring location during August 2022
	Conductivity	µs/cm								
	Oil & Grease	mg/L								
	pH	pH								
41 (HWD9)	TSS	mg/L	Special Frequency 2 – prior to discharging							No discharge occurred from this monitoring location during August 2022
	Conductivity	µs/cm								



	Oil & Grease	mg/L	from EPL 45 and/or 46 and again within 12hours of discharge,								
	pH	pH									
42 (HWD10)	TSS	mg/L	Special Frequency 2 – prior to discharging from EPL 45 and/or 46 and again within 12hours of discharge,	No discharge occurred from this monitoring location during August 2022							
	Conductivity	µs/cm									
	Oil & Grease	mg/L									
	pH	pH									
43 (HWD11)	TSS	mg/L	Special Frequency 2 – prior to discharging from EPL 45 and/or 46 and again within 12hours of discharge,	No discharge occurred from this monitoring location during August 2022							
	Conductivity	µs/cm									
	Oil & Grease	mg/L									
	pH	pH									
44 (WCWD)	TSS	mg/L	Special Frequency 2 – prior to discharging from EPL 45 and/or 46 and again within 12hours of discharge.	1	15/08/2022	YES					24
	Conductivity	µs/cm									600
	Oil & Grease	mg/L									<5
	pH	pH									8.07
45 (ECWDP)	Oil & Grease	mg/L	discharge or dewatering occurs after	No discharge occurred from this monitoring location during August 2022							
	pH	pH									



	TSS	mg/L	38.4mL over a 5-day period.							
46 (WCWDP)	Oil & Grease	mg/L	discharge or dewatering occurs after 38.4mL over a 5-day period.	1	16/08/2022					<5
	pH	pH								8.01
	TSS	mg/L								40

## 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	22/08/2022	22:30	1.1	IA	35	IA	45	0.0	No
NM2	22/08/2022	23:30	0.6	IA	39	IA	45	0.0	No
NM3	22/08/2022	23:32	0.7	IA	35	IA	45	0.0	No
NM4	22/08/2022	23:00	0.6	IA	35	IA	45	0.0	No
NM5	22/08/2022	22:00	0.6	IA	35	IA	45	0.0	No
NM6	22/08/2022	23:56	0.3	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	9	89.5	105.1	120	No
	Vibration	mm/s		9	0.17	0.63	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)

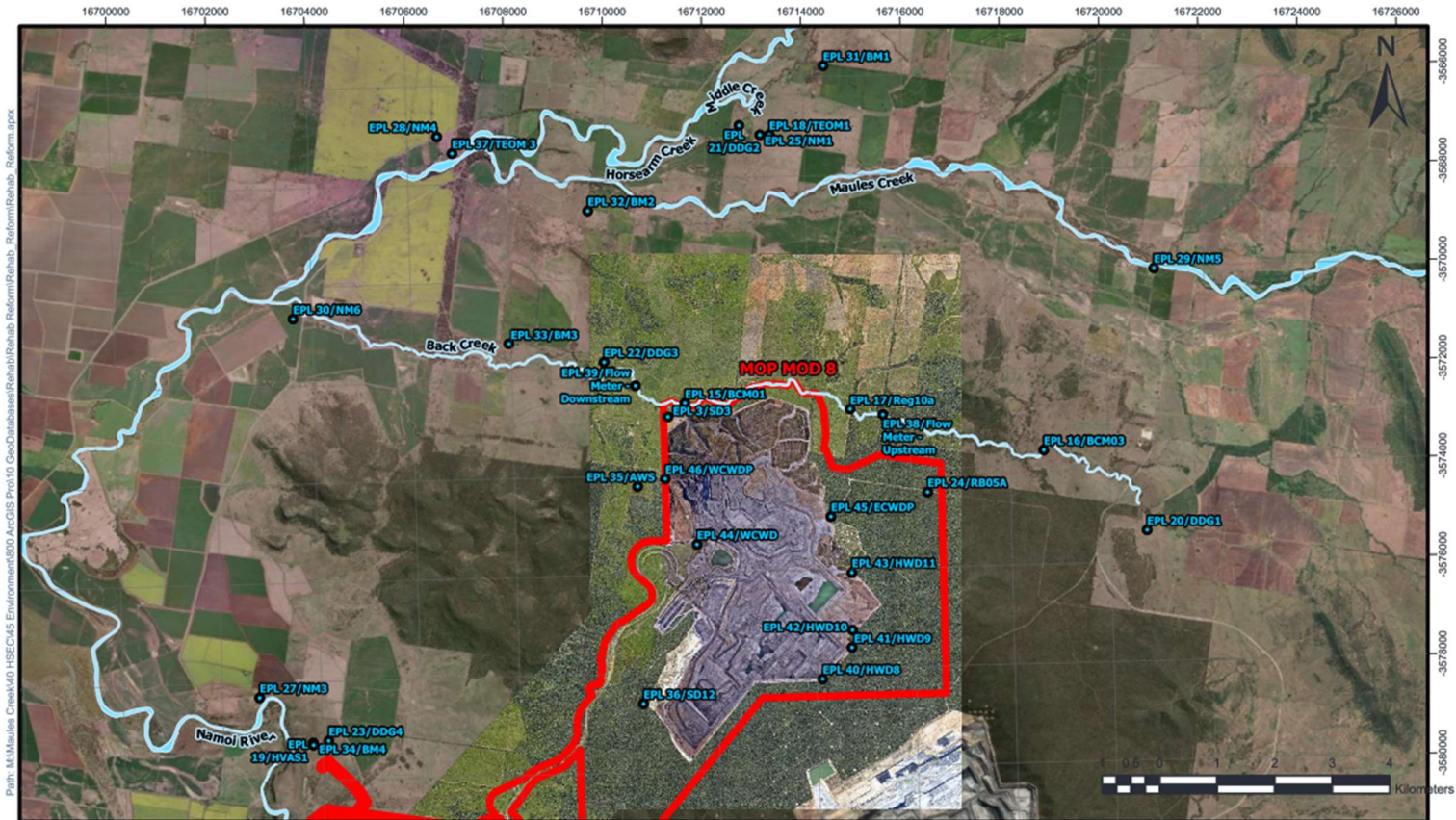
ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	µg/m <sup>3</sup> month	PM <sub>10</sub>	5.5	30	No
37 (TEOM3)	Continuous	µg/m <sup>3</sup> month	PM <sub>10</sub>	11.1	30	No
19 (HVAS)	5 days	µg/m <sup>3</sup>	PM <sub>10</sub>	8.1	30	No

Table 10 – Depositional Dust (Limits Apply)

ID EPL (Site)	Sample period	Particulates Deposited Matter	Rolling Annual Average Insoluble Solids	Criteria	Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m <sup>2</sup> month	1.4	4	No
21 (DDG2/MC2)	Monthly	g/m <sup>2</sup> month	1.0	4	No
22 (DDG3/MC3)	Monthly	g/m <sup>2</sup> month	1.9	4	No
23 (DDG4/MC4)	Monthly	g/m <sup>2</sup> month	1.0	4	No



Figure 1 - EPL 20221 Monitoring Locations



Path: M:\Maules Creek\M40\_HSEC045\_Environment\600\_AccGIS Pro10\_GeoDatabases\Rehab\Rehab\_Reform\Rehab\_Reform.aprx

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.