



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 2022

Obtained Date: 15th October 2022

Publication Date: 25th October 2022

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2nd 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	0			Dry		
	Conductivity	µs/cm							
	TDS	mg/L							
16 (BCM03)	pH	pH	Quarterly	0			Dry		
	Conductivity	µs/cm							
	TDS	mg/L							
17 (REG10A)	pH	pH	Quarterly	0			Dry		
	Conductivity	µs/cm							
	TDS	mg/L							
24 (RB05A)	pH	pH	Quarterly	1	5/09/2022	YES	N/A	N/A	7.59
	Conductivity	µs/cm							1920
	TDS	mg/L							1030

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	1	12/09/2022	15/10/2022	NA	NA	<5
	Conductivity	µs/cm							1110
	Oil & Grease	mg/L							<5
	pH	pH							8.38

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.							
	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									

No discharge at these locations this month

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	16/09/2022	YES	NA	NA	NA	105	
	Nitrate	mg/L								0.17	
	Nitrogen (total)	mg/L								2.1	
	Oil & Grease	mg/L								<5	
	pH	pH								7.16	
	Phosphorous	mg/L								0.27	
	Reactive Phosphorous	mg/L								0.04	
	TSS	mg/L								152	
	Conductivity	µs/cm		1	19/09/2022	YES	NA	NA	NA	NA	160
	Nitrate	mg/L									0.05
	Nitrogen (total)	mg/L									0.5
	Oil & Grease	mg/L									<10
	pH	pH									7.38
	Phosphorous	mg/L									0.1
	Reactive Phosphorous	mg/L									0.03
	TSS	mg/L									27
	Conductivity	µs/cm		1	28/09/2022	YES	NA	NA	NA	NA	181
	Nitrate	mg/L									<0.01
	Nitrogen (total)	mg/L									1.0
	Oil & Grease	mg/L									<5
	pH	pH									7.5
Phosphorous	mg/L	0.1									
Reactive Phosphorous	mg/L	0.02									
TSS	mg/L	14									
39	Conductivity	µs/cm	Special Frequency 3 -	1	16/09/2022	YES	NA	NA	NA	117	
	Nitrate	mg/L								0.29	



(Flow Meter downstream)	Nitrogen (total)	mg/L	within 12 hours of discharge from any discharge location.					1.9
	Oil & Grease	mg/L						<5
	pH	pH						7.43
	Phosphorous	mg/L						0.3
	Reactive Phosphorous	mg/L						0.08
	TSS	mg/L						104
	Conductivity	µs/cm		190				
	Nitrate	mg/L		0.32				
	Nitrogen (total)	mg/L		0.7				
	Oil & Grease	mg/L		<10				
	pH	pH		7.54				
	Phosphorous	mg/L		0.2				
	Reactive Phosphorous	mg/L		0.051				
	TSS	mg/L		89				
	Conductivity	µs/cm		211				
	Nitrate	mg/L		0.23				
	Nitrogen (total)	mg/L		1.3				
	Oil & Grease	mg/L		<5				
	pH	pH		7.41				
	Phosphorous	mg/L		0.11				
Reactive Phosphorous	mg/L	0.08						
TSS	mg/L	11						
40 (HWD8)	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 September 2022				
	Conductivity	µs/cm						
	Oil & Grease	mg/L						
	pH	pH						



41 (HWD9)	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 September 2022				
	Conductivity	µs/cm						
	Oil & Grease	mg/L						
	pH	pH						
42 (HWD10)	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	1	16/09/2022	YES	NA	140
	Conductivity	µs/cm						124
	Oil & Grease	mg/L						<5
	pH	pH						7.04
	TSS	mg/L		1	19/09/2022	YES	NA	22
	Conductivity	µs/cm						150
	Oil & Grease	mg/L						<10
	pH	pH						6.74
	TSS	mg/L		1	28/09/2022	YES	NA	27
	Conductivity	µs/cm						116
	Oil & Grease	mg/L						<5
	pH	pH						6.89
43 (HWD11)	TSS	mg/L	Special Frequency 2	1	16/09/2022	YES	NA	102



	Conductivity	µs/cm	– prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period	1	19/09/2022	YES	NA	282
	Oil & Grease	mg/L						<5
	pH	pH						7.12
	TSS	mg/L						21
	Conductivity	µs/cm						180
	Oil & Grease	mg/L						<10
	pH	pH						6.82
	TSS	mg/L						8
	Conductivity	µs/cm						156
	Oil & Grease	mg/L						<5
44 (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	1	16/09/2022	YES	NA	374
	Conductivity	µs/cm						308
	Oil & Grease	mg/L						<5
	pH	pH						7.67
45	Oil & Grease	mg/L		1	16/09/2022		NA	<5



(ECWDP)	pH	pH	discharge or dewatering occurs after 38.4mL over a 5-day period.					7.07	
	TSS	mg/L							71
	Oil & Grease	mg/L							<10
	pH	pH			19/09/2022			NA	6.97
	TSS	mg/L							45
	Oil & Grease	mg/L							<5
	pH	pH			1			NA	6.91
	TSS	mg/L							11
46 (WCWDP)	Oil & Grease	mg/L	discharge or dewatering occurs after 38.4mL over a 5-day period.	1	16/09/2022			NA	
	pH	pH						7.71	
	TSS	mg/L						322	

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	13/09/2022	22:30	0.5	IA	35	IA	45	0.0	No
NM2	13/09/2022	23:30	0.3	25	39	28	45	0.0	No
NM3	13/09/2022	23:27	0.5	26	35	30	45	0.0	No
NM4	13/09/2022	23:00	0.3	IA	35	IA	45	0.0	No
NM5	13/09/2022	22:00	0.8	IA	35	IA	45	0.0	No
NM6	13/09/2022	23:56	0.4	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	91.9	106.8	120	No
	Vibration	mm/s		7	0.15	0.38	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 – PM₁₀ (Limits Apply)

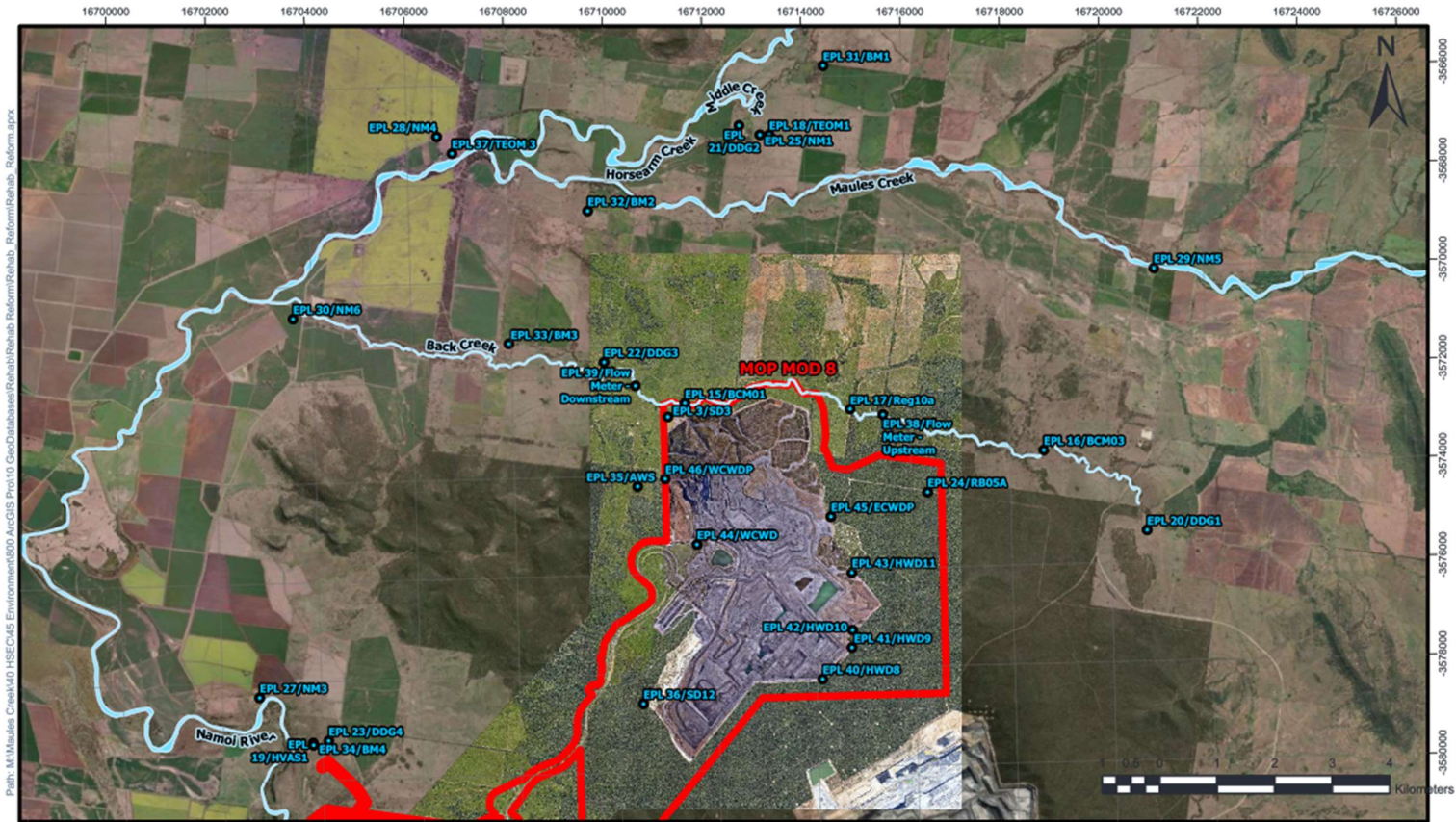
ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	µg/m ³ month	PM ₁₀	5.4	30	No
37 (TEOM3)	Continuous	µg/m ³ month	PM ₁₀	11.8	30	No
19 (HVAS)	5 days	µg/m ³	PM ₁₀	8.0	30	No

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 ² month	2.3	4	No
21 (DDG2/MC2)	Monthly	g/m ² month	0.9	4	No
22 (DDG3/MC3)	Monthly	g/m ² month	2.0	4	No
23 (DDG4/MC4)	Monthly	g/m ² month	1.1	4	No



Figure 1 - EPL 20221 Monitoring Locations



Path: M:\Maules Creek\M0_HSEC045_Environment\600_AccGIS Pro10_GeoDatabase\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.