



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: 15th May 2024

Publication Date: 16th May 2024

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						Next sample in June 2024
	Conductivity	µs/cm							
	TDS	mg/L							
16 (BCM03)	pH	pH	Quarterly						Next sample in June 2024
	Conductivity	µs/cm							
	TDS	mg/L							
17 (REG10A)	pH	pH	Quarterly						Next sample in June 2024
	Conductivity	µs/cm							
	TDS	mg/L							
24 (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 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	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 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 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 (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 (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 (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
	TSS	mg/L	
	Conductivity	µs/cm	
	Oil & Grease	mg/L	
41 (HWD9)	pH	pH	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
	TSS	mg/L	
	Conductivity	µs/cm	
	Oil & Grease	mg/L	
42 (HWD10)	pH	pH	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
	TSS	mg/L	
	Conductivity	µs/cm	
	Oil & Grease	mg/L	



			consecutive period
43 (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 (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 (ECWDP)	TSS	mg/L	not more than 12 hours after discharge commences	
	Conductivity	µs/cm		
	Oil & Grease	mg/L		
	pH	pH		
46 (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? ¹	Limits, dB ¹		Site levels, dB ²		Exceedances, dB	
		Speed m/s	Direction ³			L _{Aeq,15minute}	L _{Amax}	L _{Aeq,15minute}	L _{Amax}	L _{Aeq,15minute}	L _{Amax}
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 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 – 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	11.4	30	No
37 (TEOM3)	Continuous	µg/m ³ month	PM ₁₀	14.3	30	No
19 (HVAS)	5 days	µg/m ³	PM ₁₀	15.7	30	No

Table 9 – 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	2.2	4	No
21 (DDG2/MC2)	Monthly	g/m ² month	2.2	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



EPL 20221 Monitoring Locations - 16/05/2024

- EPL Monitoring Locations
- MCM Project Boundary MOD 9

Scale: 1:33,944,857,333

Author: EGibson

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Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary
Sphere