



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: December 2020

Obtained Date: 15 January 2021

Publication Date: 20 January 2021

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

Monthly Monitoring Summary

Table 1 – Wet Weather Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Median Value	Max / Only Value
3 (SD3)	TSS	mg/L	Special	1	04/12/2020	10/12/2020				440
	Conductivity	µs/cm	Frequency	1	04/12/2020	10/12/2020				520
	Oil & Grease	mg/L	Discharge	1	04/12/2020	10/12/2020				<10
	pH	pH	only	1	04/12/2020	10/12/2020				7.3
7 (SD7)	TSS	mg/L	Special	0						
	Conductivity	µs/cm	Frequency	0						
	Oil & Grease	mg/L	Discharge	0						
	pH	pH	only	0						
9 (SD9)	TSS	mg/L	Special	0						
	Conductivity	µs/cm	Frequency	0						
	Oil & Grease	mg/L	Discharge	0						
	pH	pH	only	0						
36 (SD12)	TSS	mg/L	Special	0						
	Conductivity	µs/cm	Frequency	0						
	Oil & Grease	mg/L	Discharge	0						
	pH	pH	only	0						

Table 2 – Surface Water Monitoring - Mine Void

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

Table 3 – Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value
15 (BCM01)	pH	pH	Quarterly	0	Bore dry since installation				
	Conductivity	µs/cm							
	TDS	mg/L							
16 (BCM03)	pH	pH	Quarterly	0	Bore dry since installation				
	Conductivity	µs/cm							
	TDS	mg/L							
17 (REG10A)	pH	pH	Quarterly	0	Bore dry since installation				
	Conductivity	µs/cm							
	TDS	mg/L							
24 (RB05A)	pH	pH	Quarterly	1	8/12/2020	Yes	-	-	7.63
	Conductivity	µs/cm					-	-	1840
	TDS	mg/L					-	-	1120

Table 4 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq 15min dB	Limit LAeq 15min (dB) Operations Criteria	MCCP LA1(1min) dB	Limit LA1 (1 min) (dB) Operations Criteria	Rain (mm)	Exceedance (Yes / No)
NM1	08/12/2020	22:30	2.2	23	35	28	45	0	Nil
NM2	08/12/2020	23:30	0.9	31	39	35	45	0	Nil
NM3	08/12/2020	23:31	0.9	IA	35	IA	45	0	Nil
NM4	08/12/2020	23:00	1.9	24	35	28	45	0	Nil
NM5	08/12/2020	22:00	2.3	IA	35	IA	45	0	Nil
NM6	08/12/2020	23:55	1.0	<20	35	<20	45	0	Nil

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

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

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

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

IA = Site noise was inaudible at the monitoring location.

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

Table 5 - 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.

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	9	96.51	112.7	120	No
	Vibration	mm/s		9	0.24	0.93	10	No

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

Table 7 – Dust Monitoring (Limits Apply)

ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	µg/m ³ month	PM ₁₀	12.5	30	No
19 (HVAS)	6 days	µg/m ³	PM ₁₀	15.3	30	No

Table 8 –

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	2.0	4	No
21 (DDG2/MC2)	Monthly	g/m ² month	2.2	4	No
22 (DDG3/MC3)	Monthly	g/m ² month	2.1	4	No
23 (DDG4/MC4)	Monthly	g/m ² month	2.8	4	No

Figure 1 - EPL 20221 Monitoring Locations

