



## 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 2019

**Obtained Date:** 15 December 2019

**Publication Date:** 20 December 2019

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 7<sup>th</sup> 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 Value	Mean Value	Median Value	Max / Only Value
2 (SD2)	TSS	mg/L	Special Frequency Discharge only	0	No discharge at this location this month.					
	Conductivity	µs/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
3 (SD3)	TSS	mg/L	Special Frequency Discharge only	0						
	Conductivity	µs/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
5 (SD5)	TSS	mg/L	Special Frequency Discharge only	0						
	Conductivity	µs/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
7 (SD7)	TSS	mg/L	Special Frequency Discharge only	0						
	Conductivity	µs/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
9 (SD9)	TSS	mg/L	Special Frequency Discharge only	0						
	Conductivity	µs/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		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	1	15/11/2019	Yes			<5
	Conductivity	µs/cm		1	15/11/2019	Yes			1110
	Oil & Grease	mg/L		1	15/11/2019	Yes			<5
	pH	pH		1	15/11/2019	Yes			8.65

**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	0					Next sample to be taken in December
	Conductivity	µs/cm							
	TDS	mg/L							

**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	14/11/2019	22:30	0.2	25	35	33	45	0	Nil
NM2	14/11/2019	23:30	0.2	<25	39	35	45	0	Nil
NM3	14/11/2019	23:45	0.6	IA	35	IA	45	0	Nil
NM4	14/11/2019	23:00	0.3	<25	35	29	45	0	Nil
NM5	14/11/2019	22:00	0.6	<25	35	28	45	0	Nil
NM6	14/11/2019	23:56	0.2	IA	35	IA	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.

**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	7	93.9	100.2	120	No
	Vibration	mm/s		7	0.16	0.35	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 <sup>3</sup> month	PM <sub>10</sub>	25.5	30	No
19 (HVAS)	6 days	µg/m <sup>3</sup>	PM <sub>10</sub>	34.1	30	Yes

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	2.1	4	No
21 (DDG2/MC2)	Monthly	g/m <sup>2</sup> month	2.4	4	No
22 (DDG3/MC3)	Monthly	g/m <sup>2</sup> month	2.8	4	No
23 (DDG4/MC4)	Monthly	g/m <sup>2</sup> month	6.6	4	Yes

**Figure 1 - EPL 20221 Monitoring Locations**

