



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: February 2018

Obtained Date: 15 March 2018

Publication Date: 29 March 2018

Context: This Monthly Monitoring Summary aligns with the applicable Environment Protection Licence (EPL) – Maules Creek Coal Mine issued 21st September 2015 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						
4 (SD4)	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						
6 (SD6)	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						
8 (SD8)	TSS	mg/L	Special Frequency Discharge only	0						
	Conductivity	µs/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						

EPL ID	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value												
9 (SD9)	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																		
10 (SD10)	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																		
11 (SD11)	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																		

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	19/02/2018	Yes			26
	Conductivity	µs/cm		1	19/02/2018	Yes			1840
	Oil & Grease	mg/L		1	19/02/2018	Yes			<5
	pH	pH		1	19/02/2018	Yes			7.58

Table 3 – Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value
13 (RB01a)	pH	pH	Quarterly	0					Removed*
	Conductivity	µs/cm							
	TDS	mg/L							
14 (RB02a)	pH	pH	Quarterly	0					Removed*
	Conductivity	µs/cm							
	TDS	mg/L							
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							

* Removed by progress of mining.

Table 4 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	Measured Levels – dB(A) L _{Aeq} 15min Evening	Measured Levels – dB(A) L _{Aeq} 15min Night	Limit L _{Aeq} 15min (dB) Operations Criteria	Measured Levels – dB(A) L _{A1} (1 min) Night	Limit L _{A1} (1 min) (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	14/02/2018	20:15:00	1.4	22		35			0	Nil
NM1	14/02/2018	20:30:00	0.9	21		35			0	Nil
NM1	13/02/2018	22:45:00	0.4		31	35	36	45	0	Nil
NM1	13/02/2018	23:00:00	0.7		27	35	35	45	0	Nil
NM2	13/02/2018	20:45:00	3.3	<20		39			0	NA
NM2	13/02/2018	21:00:00	3.2	IA		39			0	NA
NM2	14/02/2018	22:15:00	1.9		21	39	25	45	0	Nil
NM2	14/02/2018	22:30:00	1		23	39	27	45	0	Nil
NM3	13/02/2018	19:15:00	4.2	IA		35			0	NA
NM3	13/02/2018	19:30:00	2.6	IA		35			0	Nil
NM3	14/02/2018	23:45:00	0.5		IA	35	IA	45	0	Nil
NM3	15/02/2018	0:00:00	0.6		IA	35	IA	45	0	Nil
NM4	14/02/2018	21:00:00	1.5	21		NA			0	NA
NM4	14/02/2018	21:15:00	1.6	23		NA			0	NA
NM4	13/02/2018	22:00:00	2.3		22	NA	28	NA	0	NA
NM4	13/02/2018	22:15:00	0.6		22	NA	27	NA	0	NA
NM5	14/02/2018	19:30:00	2.7	24		35			0	Nil
NM5	14/02/2018	19:45:00	2.3	21		35			0	Nil
NM5	13/02/2018	23:30:00	0.6		23	35	27	45	0	Nil
NM5	13/02/2018	23:45:00	0.7		25	35	31	45	0	Nil
NM6	13/02/2018	20:00:00	3.5	IA		35			0	NA
NM6	13/02/2018	20:15:00	3	IA		35			0	Nil
NM6	14/02/2018	23:00:00	1.3		NM	35	NM	45	0	Nil
NM6	14/02/2018	23:15:00	0.9		NM	35	NM	45	0	Nil

IA & NM = Inaudible & Not Measurable.

MCC ID = Locations as per the approved Noise Management Plan & EPL 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.

NA = NM4 is at mine owned land and results have been provided for informational purposes.

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.

Table 5 - Noise Monitoring (Attended - Low Frequency Assessment)

One measurement was within 5 dB of the relevant criterion where meteorological conditions resulted in criteria applying (in accordance with the project approval). The measurement was assessed against the low frequency modification factors in accordance with the EPA's Noise Policy for Industry, and was determined to have remained compliant.

Table 6 - Blast Monitoring (Blasts - Limits Apply)

Location	Parameter	Units	Frequency	Number	Average	Max	100% Limit	Exceedance (Yes / No)
Operations Blasts	Noise	Db (Lin Peak)	All	7	91.19	98.10	120	No
	Vibration	mm/s		7	0.20	0.38	10	No

Note: In accordance with the requirements of EPL 20221 M7.4 blast monitoring results are for monitoring points BM2 and BM3.

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	9.1	30	No
19 (HVAS)	6 days	µg/m ³	PM ₁₀	14.6	30	No

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	1.5	4	No
21 (DDG2/MC2)	Monthly	g/m ² month	2.3	4	No
22 (DDG3/MC3)	Monthly	g/m ² month	3.5	4	No
23 (DDG4/MC4)	Monthly	g/m ² month	1.8	4	No

Figure

Figure 1 – EPL 20221 Monitoring Locations

