

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: January 2022 **Obtained Date:** 15 February 2022 **Publication Date:** 21 February 2022

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).

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
	TSS Conductivity	mg/L μs/cm	Special							
3 (SD3)	Oil & Grease	mg/L	Frequency Discharge							
	рН	рН	only					No discha	arge at these	e locations this month.
	TSS	mg/L								
7	Conductivity	μs/cm	Special Frequency							
(SD7)	Oil & Grease	mg/L	Discharge							
	рН	рН	only							
	TSS	mg/L	Choolel							
9	Conductivity	μs/cm	Special Frequency							
(SD9)	Oil & Grease	mg/L	Discharge							
	рН	рН	only							
	TSS	mg/L								
	Conductivity	μs/cm	Special							
36 (SD12)	Oil & Grease	mg/L	Frequency Discharge							
	рН	рН	only							

Table 2 – Surface Water Monitoring – Mine Void

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value
	TSS	mg/L							10
12	Conductivity	μs/cm	Every 2	1 1	14/01/2022	YES			1100
(Mine Void)	Oil & Grease	mg/L	months			TLS			<5
	рН	рН							8.15

Table 3 – Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value		
15	рН	рН									
(BCM01)	Conductivity	μs/cm	Quarterly	0							
(BCIVIOI)	TDS	mg/L									
16	рН	рН	Quarterly								
16 - '	Conductivity	μs/cm		0		Next sample March 2022					
(BCIVIUS)	TDS	mg/L									
17	рН	рН									
(REG10A)	Conductivity	μs/cm	Quarterly	0							
(REGIOA)	TDS	mg/L									
24	рН	pН									
24 (RB05A)	Conductivity	μs/cm	Quarterly	0							
(NBUSA)	TDS	mg/L									

Table 4 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	10/01/22	22:30	2.7	<20	35	<20	45	0.0	No
NM2	10/01/22	23:30	3.9	<20	39	<20	45	0.0	No
NM3	10/01/22	23:40	4.0	IA	35	IA	45	0.0	No
NM4	10/01/22	23:00	2.8	<20	35	20	45	0.0	No
NM5	10/01/22	22:00	2.1	IA	35	IA	45	0.0	No
NM6	10/01/22	23:56	3.8	IA	35	IA	45	0.0	No

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)

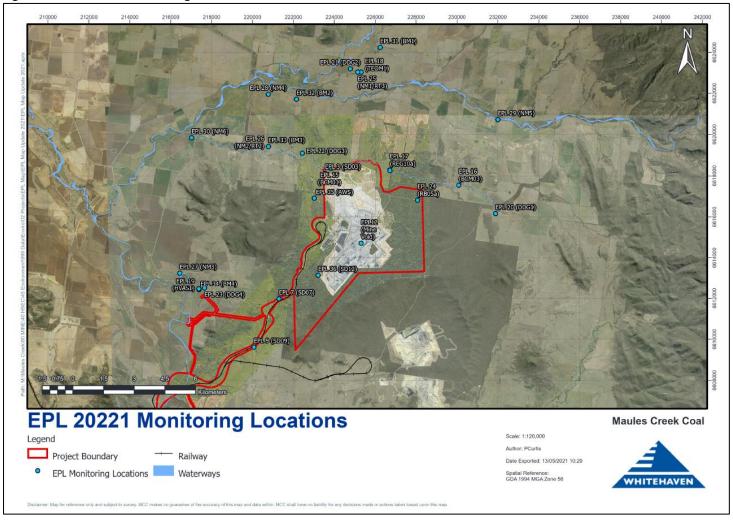
Location	Parameter	Units	Frequency	Number	Average	Мах	100% Limit	Exceedance (Yes / No)
Operations	Overpressure	Db (Lin Peak)	A II	12	92.5	105.1	120	No
Blasts	Vibration	mm/s	All	12	0.25	1.75	10	No

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/m³ month	PM ₁₀	6.2	30	No
19 (HVAS)	6 days	μg/m³	PM ₁₀	9.3	30	No

ID EPL (Site)	Sample period	Particulates Deposited Matter	Rolling Annual Average Insoluble Solids	Criteria	Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m² month	1.5	4	No
21 (DDG2/MC2)	Monthly	g/m² month	2.0	4	No
22 (DDG3/MC3)	Monthly	g/m² month	1.6	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.4	4	No

Figure 1 – EPL 20221 Monitoring Location





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Site Information

EPL No: 20221

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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 2022 Obtained Date: 17 March 2022 Publication Date: 21 March 2022

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).

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				
	TSS	mg/L	Special											
3	Conductivity	μs/cm	Frequency											
(SD3)	Oil & Grease	mg/L	Discharge only											
	рН	рН	Discharge Only	No discharge at these locations this month.										
	TSS	mg/L	Special Frequency Discharge only											
7	Conductivity	μs/cm												
(SD7)	Oil & Grease	mg/L												
	рН	рН												
	TSS	mg/L	Constal							129				
9	Conductivity	μs/cm	Special		25 /02 /2022	7/02/2022				1220				
(SD9)	Oil & Grease	mg/L	Frequency	1	25/02/2022	7/03/2022	NA	NA	NA	<5				
	рН	рН	Discharge only							8.02				
	TSS	mg/L	6		•	•								
36	Conductivity	μs/cm	Special Frequency Discharge only			No diselesses								
-	Oil & Grease	mg/L		No discharge at these locations this month.										

Table 2 – Surface Water Monitoring – Mine Void

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value		
	TSS	mg/L									
12	Conductivity	μs/cm	Every 2	0	Reporting due during March 2022 reporting period.						
(Mine Void)	Oil & Grease	mg/L	months	U							
	pН	рН									

Table 3 – Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value
15	рН	рН							
(BCM01)	Conductivity	μs/cm	Quarterly	0					
(BCIVIOT)	TDS	mg/L							
16	рН	рН	Quarterly						
16 - '	Conductivity	μs/cm		0					
(BCIVIUS)	TDS	mg/L				1	Next sample March	2022	
17	рН	рН							
	Conductivity	μs/cm	Quarterly	0					
(REG10A)	TDS	mg/L							
24	рН	рН							
24 (DDOEA)	Conductivity	μs/cm	Quarterly	0					
(RB05A)	TDS	mg/L							

Table 4 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	8/02/2022	22:45	0.3	<25	35	<25	45	0.0	No
NM2	8/02/2022	23:15	0.5	<25	39	<25	45	0.0	No
NM3	9/02/2022	00:05	0.6	IA	35	IA	45	0.0	No
NM4	8/02/2022	23:45	0.1	<20	35	<20	45	0.0	No
NM5	8/02/2022	22:00	0.5	25	35	28	45	0.0	No
NM6	8/02/2022	00:09	0.8	<20	35	<20	45	0.0	No

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)

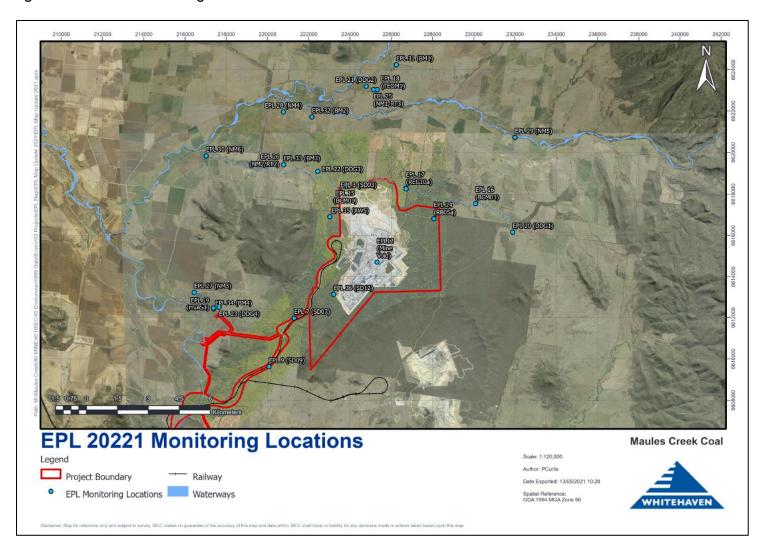
Location	Parameter	Units	Frequency	Number	Average	Max	100% Limit	Exceedance (Yes / No)
Operations	Overpressure	Db (Lin Peak)	A II	10	96.6	113.2	120	No
Blasts	Vibration	mm/s	All	10	0.19	0.58	10	No

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/m³ month	PM ₁₀	6.0	30	No
19 (HVAS)	6 days	μg/m³	PM ₁₀	9.5	30	No

ID EPL (Site)	Sample period	Particulates Deposited Matter	Rolling Annual Average Insoluble Solids	Criteria	Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m² month	1.5	4	No
21 (DDG2/MC2)	Monthly	g/m² month	1.7	4	No
22 (DDG3/MC3)	Monthly	g/m² month	1.5	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.3	4	No

Figure 1 – EPL 20221 Monitoring Locations





MAULES CREEK COAL MINE - MONTHLY MONITORING SUMMARY

Site Information

EPL No: 20221

EPA Website Link: <u>Hyperlink to Maules Creek Coal, Environment Protection Licence</u>

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: March 2022 Obtained Date: 14th April 2022 Publication Date: 21st April 2022

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).

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	
	TSS	mg/L	Special								
3	Conductivity	μs/cm									
(SD3)	Oil & Grease	mg/L	Frequency Discharge only								
	pН	рН	Discharge only	nly							
	TSS	mg/L	Consist			No discharg	ge at these locati	ons this month			
36	Conductivity	μs/cm	Special								
(SD12)	Oil & Grease	mg/L	Frequency Discharge only								
	рН	рН	Discharge only								

Table 2 – Surface Water Monitoring – Mine Void

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value
	TSS	mg/L							25
12	Conductivity	μs/cm	Every 2	1	15 /02 /2022	Vac			1110
(Mine Void)	Oil & Grease	mg/L	months	1	15/03/2022	Yes			<5
	рН	рН							8.26

Table 3 – Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value		
15	рН	рН									
(BCM01)	Conductivity	μs/cm	Quarterly	0	Dry – Next sample in June 2022						
(BCIVIOT)	TDS	mg/L									
16	рН	рН									
(BCM03)	Conductivity	μs/cm	Quarterly	0	Dry – Next sample in June 2022						
(BCIVIUS)	TDS	mg/L									
17	рН	рН									
	Conductivity	μs/cm	Quarterly	0		Dr	y – Next sample in Jun	e 2022			
(REG10A)	TDS	mg/L									
24	рН	рН	Quarterly						7.51		
	Conductivity	μs/cm		1	18/03/22	Yes			1810		
(RB05A)	TDS	mg/L							1070		

Table 4 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	7/03/2022	22:30	0.3	20	35	25	45	0.0	No
NM2	7/03/2022	23:30	0.6	25	39	40	45	0.0	No
NM3	7/03/2022	23:33	0.7	IA	35	IA	45	0.0	No
NM4	7/03/2022	23:00	0.6	<20	35	<20	45	0.0	No
NM5	7/03/2022	22:00	1.0	IA	35	IA	45	0.0	No
NM6	7/03/2022	23:56	0.3	<20	35	<20	45	0.0	No

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)

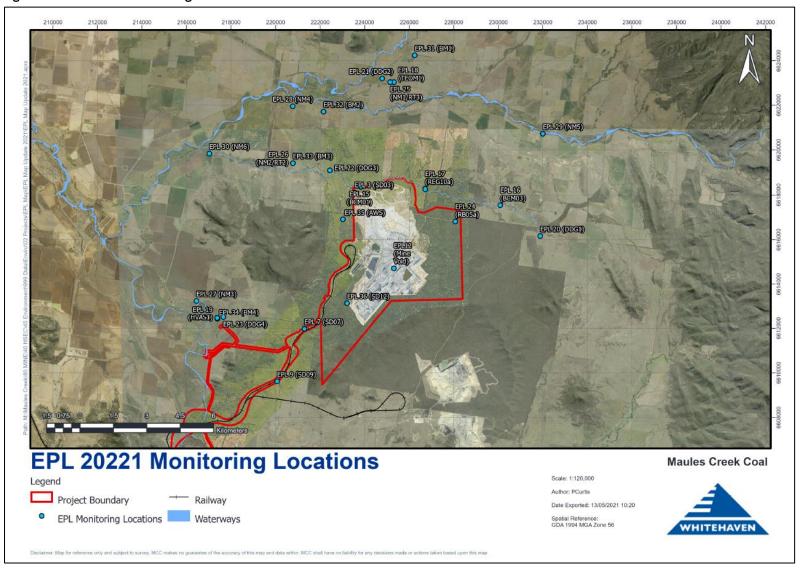
Location	Parameter	Units	Frequency	Number	Average	Max	100% Limit	Exceedance (Yes / No)
Operations	Overpressure	Db (Lin Peak)	All	8	94.3	110.6	120	No
Blasts	Vibration	mm/s	All	8	0.15	0.35	10	No

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/m³ month	PM ₁₀	5.9	30	No
19 (HVAS)	5 days	μg/m³	PM ₁₀	9.4	30	No

ID EPL (Site)	Sample period	Particulates Deposited Matter	Rolling Annual Average Insoluble Solids	Criteria	Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m² month	1.5	4	No
21 (DDG2/MC2)	Monthly	g/m² month	1.6	4	No
22 (DDG3/MC3)	Monthly	g/m² month	1.5	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.2	4	No

Figure 1 – EPL 20221 Monitoring Locations





MAULES CREEK COAL MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 20221

EPA Website Link: <u>Hyperlink to Maules Creek Coal, Environment Protection Licence</u>

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 2022 **Obtained Date:** 13th May 2022 **Publication Date:** 16th May 2022

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).

Table 1 – Wet Weather Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value		
	TSS	mg/L									
12	Conductivity	μs/cm	Every 2	Next Sample May 2022							
(Mine Void)	Oil & Grease	mg/L	months								
	рН	рН									

Table 2 – Surface Water Monitoring – Mine Void

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value	
	TSS	mg/L	Consist								
3	Conductivity	μs/cm	Special								
(SD3)	Oil & Grease	mg/L	Frequency Discharge only								
	рН	рН	Discharge Only								
	TSS	mg/L	Consist	No discharge at these locations this month							
36	Conductivity	μs/cm	Special								
(SD12)	Oil & Grease	mg/L	Frequency Discharge only								
	рН	рН	Discharge Only	У							

Table 3 – Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value		
15	рН	рН									
(BCM01)	Conductivity	μs/cm	Quarterly	0							
(BCIVIOI)	TDS	mg/L									
16	рН	рН									
16	Conductivity	μs/cm	Quarterly	0							
(BCM03)	TDS	mg/L					Next sample in June 2022				
17	рН	рН									
17	Conductivity	μs/cm	Quarterly	0							
(REG10A)	TDS	mg/L									
24	рН	рН									
24 (DDOEA)	Conductivity	μs/cm	Quarterly	0							
(RB05A)	TDS	mg/L									

Table 4 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	12/04/2022	23:30	0.4	IA	35	IA	45	0.0	No
NM2	12/04/2022	23:00	0.1	28	39	31	45	0.0	No
NM3	12/04/2022	23:32	0.3	IA	35	IA	45	0.0	No
NM4	12/04/2022	22:30	0.8	26	35	32	45	0.0	No
NM5	13/04/2022	00:00	0.6	IA	35	IA	45	0.0	No
NM6	12/04/2022	23:00	0.5	25	35	28	45	0.0	No

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)

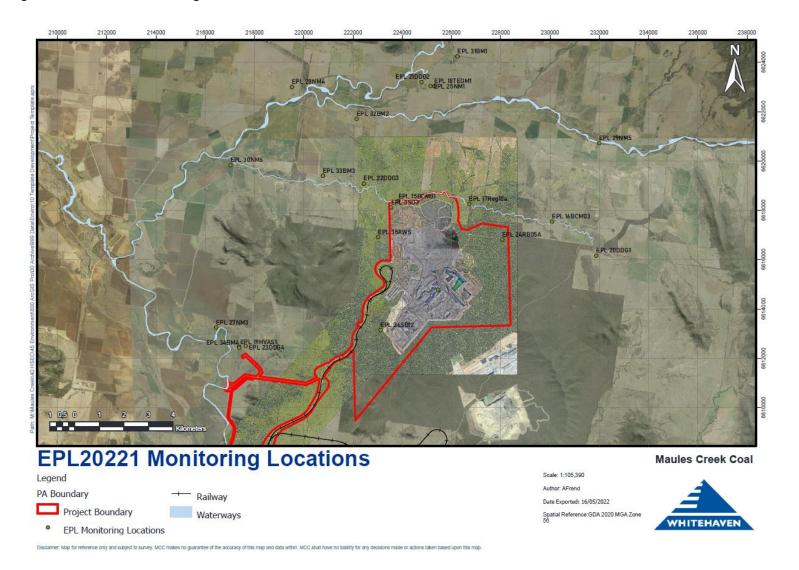
Location	Parameter	Units	Frequency	Number	Average	Мах	100% Limit	Exceedance (Yes / No)
Operations	Overpressure	Db (Lin Peak)	All	6	93.25	107.9	120	No
Blasts	Vibration	mm/s	All	6	0.13	0.29	10	No

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/m³ month	PM ₁₀	5.6	30	No
19 (HVAS)	5 days	μg/m³	PM ₁₀	8.8	30	No

ID EPL (Site)	Sample period	Particulates Deposited Matter	Rolling Annual Average Insoluble Solids	Criteria	Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m² month	1.6	4	No
21 (DDG2/MC2)	Monthly	g/m² month	1.5	4	No
22 (DDG3/MC3)	Monthly	g/m² month	1.6	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.3	4	No

Figure 1 – EPL 20221 Monitoring Locations





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Site Information

EPL No: 20221

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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: May 2022 Obtained Date: 16th June 2022 Publication Date: 20th June 2022

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 30th March 2022 by the NSW Environment Protection Authority (EPA).

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
	TSS	mg/L	Canadal							
3	Conductivity	μs/cm	Special							
(SD3)	Oil & Grease	mg/L	Frequency Discharge only							
	рН	рН	Discharge only							
	TSS	mg/L	Coord			No discharg	ge at these locati	ons this month		
36	Conductivity	μs/cm	Special							
(SD12)	Oil & Grease	mg/L	Frequency Discharge only							
	рН	рН								

Table 2 – Surface Water Monitoring – Mine Void

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value
	TSS	mg/L							<5
12	Conductivity	μs/cm	Every 2	4	12/05/2022	16/06/2022	NIA	NA	1190
(Mine Void)	Oil & Grease	mg/L	months	1			NA NA	INA	<5
	рН	рН							8.22

Table 3 – Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value	
15	рН	рН								
(BCM01)	Conductivity	μs/cm	Quarterly	0						
(BCIVIOI)	TDS	mg/L								
16 PH PH										
(BCM03)	Conductivity	μs/cm	Quarterly	0						
(BCIVIUS)	TDS	mg/L					Next sample in June 2	2022		
17	рН	рН								
	Conductivity	μs/cm	Quarterly	0						
(REG10A)	TDS	mg/L								
24	рН	рН								
24 (DDOFA)	Conductivity	μs/cm	Quarterly	0						
(RB05A)	TDS	mg/L		-						

Table 4 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	05/05/2022	22:30	1.6	<25	35	28	45	0.0	No
NM2	05/05/2022	23:30	1.4	25	39	30	45	0.0	No
NM3	05/05/2022	23:45	1.3	IA	35	IA	45	0.0	No
NM4	05/05/2022	23:00	1.1	<25	35	<25	45	0.0	No
NM5	05/05/2022	22:00	1.9	IA	35	IA	45	0.0	No
NM6	05/05/2022	23:56	1.6	IA	35	IA	45	0.0	No

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)

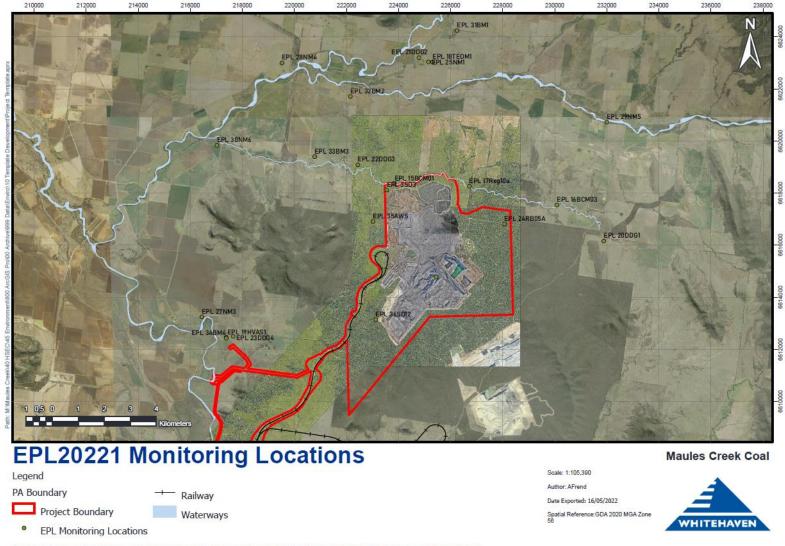
Location	Parameter	Units	Frequency	Number	Average	Мах	100% Limit	Exceedance (Yes / No)
Operations	Overpressure	Db (Lin Peak)	All	9	92.1	102.2	120	No
Blasts	Vibration	mm/s	All	9	0.15	0.9	10	No

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/m³ month	PM ₁₀	5.5	30	No
19 (HVAS)	5 days	μg/m³	PM ₁₀	8.8	30	No

ID EPL (Site)	Sample period	Particulates Deposited Matter	Rolling Annual Average Insoluble Solids	Criteria	Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m² month	1.2	4	No
21 (DDG2/MC2)	Monthly	g/m² month	1.3	4	No
22 (DDG3/MC3)	Monthly	g/m² month	1.6	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.2	4	No

Figure 1 – EPL 20221 Monitoring Locations



Discialmer: 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.



MAULES CREEK COAL MINE - MONTHLY MONITORING SUMMARY

Site Information

EPL No: 20221

EPA Website Link: <u>Hyperlink to Maules Creek Coal, Environment Protection Licence</u>

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: June 2022 **Obtained Date:** 18th July 2022 **Publication Date:** 19th July 2022

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 30th March 2022 by the NSW Environment Protection Authority (EPA).

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	
	TSS	mg/L	Consist								
3	Conductivity	μs/cm	•	pecial equency							
(SD3)	Oil & Grease	mg/L	Discharge only								
	pН	рН									
	TSS	mg/L	Consist	No discharge at these locations this month							
36	Conductivity	μs/cm	Special								
(SD12)	Oil & Grease	mg/L	Frequency Discharge only								
	рН	рН	Discharge only								

Table 2 – Surface Water Monitoring – Mine Void

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value			
	TSS	mg/L										
12	Conductivity	μs/cm	Every 2	N								
(Mine Void)	Oil & Grease	mg/L	months	Next Sample in July 2022								
	рН	рН										

Table 3 – Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value		
15	рН	рН									
(BCM01)	Conductivity	μs/cm	Quarterly	0	Dry						
(BCIVIOI)	TDS	mg/L									
16	рН	рН	Quarterly								
16 (BCM03)	Conductivity	μs/cm		0	Dry						
(BCIVIUS)	TDS	mg/L									
17	рН	рН									
	Conductivity	μs/cm	Quarterly	0	Dry						
(REG10A)	TDS	mg/L									
24	рН	рН							7.54		
	Conductivity	μs/cm	Quarterly	1	20/06/2022	YES			1820		
(RB05A) —	TDS	mg/L							1070		

Table 4 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	08/06/2022	22:30	0.5	<25	35	28	45	0.0	No
NM2	08/06/2022	23:30	0.9	<25	39	<25	45	0.0	No
NM3	08/06/2022	23:37	1	IA	35	IA	45	0.0	No
NM4	08/06/2022	23:00	0.3	<25	35	<25	45	0.0	No
NM5	08/06/2022	22:00	0.3	22	35	25	45	0.0	No
NM6	08/06/2022	23:57	1.3	IA	35	IA	45	0.0	No

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)

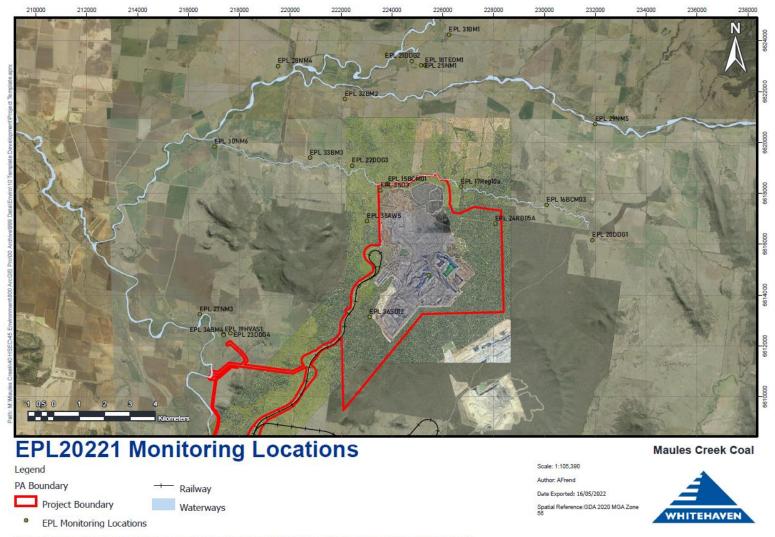
Location	Parameter	Units	Frequency	Number	Average	Мах	100% Limit	Exceedance (Yes / No)
Operations	Overpressure	Db (Lin Peak)	All	10	90.23	104	120	No
Blasts	Vibration	mm/s	All	10	0.14	0.62	10	No

Table 7 – Dust Monitoring (Limits Apply)

ID EPL (Site)	Sample Unit		Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)	
18 (TEOM1)	Continuous	μg/m³ month	PM ₁₀	5.6	30	No	
19 (HVAS)	5 days	μg/m³	PM ₁₀	8.7	30	No	

ID EPL (Site)	Sample period	Particulates Deposited Matter	Rolling Annual Average Insoluble Solids	Criteria	Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m² month	1.2	4	No
21 (DDG2/MC2)	Monthly	g/m ² month	1.4	4	No
22 (DDG3/MC3)	Monthly	g/m ² month	1.7	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.3	4	No

Figure 1 – EPL 20221 Monitoring Locations



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.

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: July 2022

Obtained Date: 15th August 2022 **Publication Date:** 20th August 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).

Ground Water Monitoring

Table 1 – Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value		
4.5	рН	рН									
15 (BCM01)	Conductivity	μs/cm	Quarterly								
(BCIVIOT)	TDS	mg/L									
_	рН	рH									
16	Conductivity	μs/cm	Quarterly								
(BCM03)	TDS	mg/L									
	рН	рH				Next sample	e in September 2022				
17	Conductivity	μs/cm	Quarterly								
(REG10A)	TDS	mg/L		Qualterly							
	рH	рН									
24	Conductivity	μs/cm	Quarterly								
(RB05A)	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
	TSS	mg/L							<5
12	Conductivity	μs/cm	Every 2	1	14/07/2022	15/09/2022	NA NA	NIA	1120
(Mine Void)	Oil & Grease	mg/L	months	14/07/2022	15/08/2022	INA	IVA	<5	
	рH	рН		monens					8.23

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 Nitrate Nitrogen (total) Oil & Grease pH Phosphorous Reactive Phosphorous TSS	mg/L mg/L mg/L pH mg/L mg/L mg/L mg/L	Special Frequency 1 - within 12 hours of discharge from EPL 3 or 36.							
36 (SD12)	Conductivity Nitrate Nitrogen (total) Oil & Grease pH Phosphorous Reactive Phosphorous TSS Conductivity	μs/cm mg/L mg/L mg/L pH mg/L mg/L mg/L mg/L mg/L	Special Frequency 1 - within 12 hours of discharge from EPL 3 or 36			No discharg	ge at these locati	ons this month		

Table 4 – Ambient Flow - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	Conductivity	μs/cm	Special							
	Nitrate	mg/L	Frequency 3 -							
38	Nitrogen (total)	mg/L	within 12							
(Flow Meter	Oil & Grease	mg/L	hours of							
Upstream)	pH	рH	discharge							
o pote carri,	Phosphorous	mg/L	from any							
	Reactive Phosphorous	mg/L	discharge							
	TSS	mg/L	location.			No discharge	at these location	s this month		
	Conductivity	μs/cm	Special			No discridige	at these location	13 (1113 111011(11		
	Nitrate	mg/L	Frequency 3 -							
39	Nitrogen (total)	mg/L	within 12							
(Flow Meter	Oil & Grease	mg/L	hours of							
downstream)	рH	рН	discharge							
4011110111041111	Phosphorous	mg/L	from any							
	Reactive Phosphorous	mg/L	discharge							
	TSS	mg/L	location.							

Table 5 – 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	
	TSS	mg/L									
			Special Frequency 2								
40	Conductivity	μs/cm	– prior to discharging from EPL 45 and/or	No discharge at these locations this month							
(HWD8)	Oil & Grease	mg/L	46 and again within 12hours of								
	рН	рН	discharge,								

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	TSS	mg/L	Special Frequency 2							
41	Conductivity	μs/cm	– prior to discharging from EPL 45 and/or							
(HWD9)	Oil & Grease	mg/L	46 and again within 12hours of							
	рН	рН	discharge,							
	TSS	mg/L	Special Frequency 2							
42	Conductivity	μs/cm	prior to discharging from EPL 45 and/or							
(HWD10)	Oil & Grease	mg/L	46 and again within 12hours of							
	рН	рН	discharge,							
	TSS	mg/L	Special Frequency 2							
43	Conductivity	μs/cm	prior to discharging from EPL 45 and/or							
(HWD11)	Oil & Grease	mg/L	46 and again within 12hours of							
	рН	рН	discharge,							
	TSS	mg/L	Special Frequency 2							
44	Conductivity	μs/cm	prior to discharging from EPL 45 and/or							
(WCWD)	Oil & Grease	mg/L	46 and again within 12hours of							
	рН	рН	discharge,							

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	Oil & Grease	mg/L	discharge or							
45 (ECWDP)	рН	рН	dewatering occurs after 38.4mL over a							
	TSS	mg/L	5-day period.							
	Oil & Grease	mg/L	discharge or							
46 (WCWDP)	рН	рН	dewatering occurs after 38.4mL over a							
	TSS	mg/L	5-day period.							

Table 6 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	14/07/2022	22:30	0.3	25	35	27	45	0.0	No
NM2	14/07/2022	23:30	0.4	30	39	35	45	0.0	No
NM3	14/07/2022	23:30	0.4	<25	35	27	45	0.0	No
NM4	14/07/2022	23:00	0.5	<20	35	35	45	0.0	No
NM5	14/07/2022	22:00	1.2	IA	35	IA	45	0.0	No
NM6	14/07/2022	23:55	0.3	<25	35	<25	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	Мах	100% Limit	Exceedance (Yes / No)
Operations	Overpressure	Db (Lin Peak)	All	13	94.1	111.1	120	No
Blasts	Vibration	mm/s	All	13	0.14	0.64	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

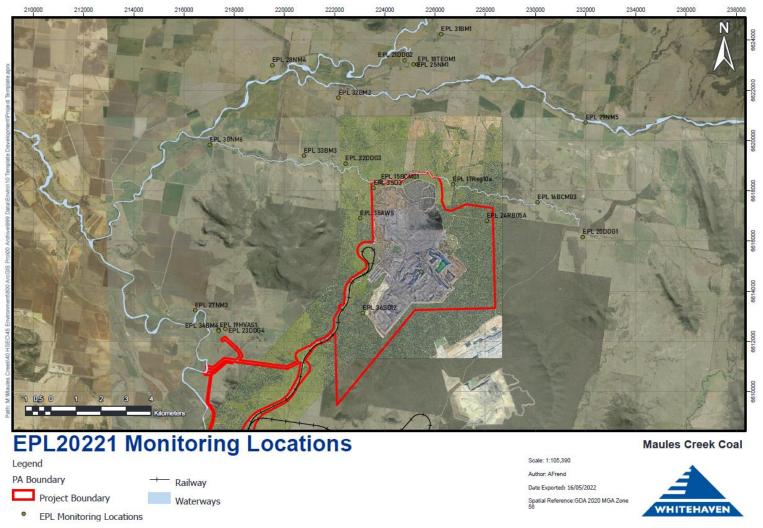
Table 9 – PM₁₀ (Limits Apply)

ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	μg/m³ month	PM ₁₀	5.6	30	No
37 (TEOM3)	Continuous	μg/m³ month	PM ₁₀	10.6	30	No
19 (HVAS)	5 days	μg/m³	PM ₁₀	8.5	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/m² month	1.2	4	No
21 (DDG2/MC2)	Monthly	g/m² month	1.1	4	No
22 (DDG3/MC3)	Monthly	g/m² month	1.8	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.2	4	No

Figure 1 – EPL 20221 Monitoring Locations



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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: August 2022

Obtained Date: 15th September 2022 **Publication Date:** 22th September 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	
4.5	рН	рН								
15 (BCM01)	Conductivity	μs/cm	Quarterly							
(BCIVIOT)	TDS	mg/L								
	рH	рН								
16	Conductivity	μs/cm	Quarterly							
(BCM03)	TDS	mg/L				Next sample	e in September 2022			
	рH	рН								
17 (BEC10A)	Conductivity	μs/cm	Quarterly							
(REG10A)	TDS	mg/L								
	рН	рН								
24 (DD05 A)	Conductivity	μs/cm	Quarterly							
(RB05A)	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			
	TSS	mg/L										
12	Conductivity	μs/cm	Every 2	Next sample in September 2022								
(Mine Void)	Oil & Grease	mg/L	months									
	рН	рН										

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 Nitrate Nitrogen (total) Oil & Grease pH Phosphorous Reactive Phosphorous TSS	mg/L mg/L mg/L pH mg/L mg/L mg/L mg/L	Special Frequency 1 - within 12 hours of discharge from EPL 3 or 36.							
36 (SD12)	Conductivity Nitrate Nitrogen (total) Oil & Grease pH Phosphorous Reactive Phosphorous TSS Conductivity	μs/cm mg/L mg/L mg/L pH mg/L mg/L mg/L mg/L mg/L	Special Frequency 1 - within 12 hours of discharge from EPL 3 or 36			No discharg	ge at these locati	ons 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
	Conductivity	μs/cm								215
	Nitrate	mg/L	Special							3.73
20	Nitrogen (total)	mg/L	Frequency 3							6
38 (Flow Meter	Oil & Grease	mg/L	-within 12 hours of							<5
Upstream)	рН	рН	discharge	1	16/08/2022	YES				7.55
	Phosphorous	mg/L	from any							0.19
	Reactive Phosphorous	mg/L	discharge location.							0.02
	TSS	mg/L								13
	Conductivity	μs/cm								213
	Nitrate	mg/L	Special							2.98
39	Nitrogen (total)	mg/L	Frequency 3 -within 12							5.1
(Flow Meter	Oil & Grease	mg/L	hours of							<5
downstream)	рН	рН	discharge	1	16/08/2022	YES				7.67
	Phosphorous	mg/L	from any							0.20
	Reactive Phosphorous	mg/L	discharge location.							0.03
	TSS	mg/L								12
	TSS	mg/L	Special Frequency 2							
	Conductivity	μs/cm	prior todischarging							
40 (HWD8)	Oil & Grease	mg/L	from EPL 45 and/or 46		No dischar	ge occurred from t	this monitoring lo	ocation during Au	gust 2022	
	рН	рН								

	TSS	mg/L	Special Frequency 2								
44	Conductivity	μs/cm	prior todischarging								
41 (HWD9)	Oil & Grease	mg/L	from EPL 45 and/or 46		No discharg	ge occurred from	this monitoring lo	ocation during Au	gust 2022		
(114023)	рН	рН	and again within 12hours of discharge,								
	TSS	mg/L	Special Frequency 2								
42	Conductivity	μs/cm	prior todischarging		No discharge occurred from this monitoring location during August 2022						
42 (HWD10)	Oil & Grease	mg/L	from EPL 45 and/or 46		No discharg	ge occurred from	this monitoring lo	ocation during Au	gust 2022		
(HWD10)	рН	рН	and again within 12hours of discharge,								
	TSS	mg/L	Special Frequency 2								
	Conductivity	μs/cm	– prior to discharging								
43	Oil & Grease	mg/L	from EPL 45 and/or 46		No dischar	ge occurred from	this monitoring lo	ocation during Au	gust 2022		
(HWD11)	рН	рН	and again within 12hours of discharge,	No discharge occurred from this monitoring location during August 2022							
44	TSS	mg/L	Special Frequency 2								

(WCWD)	Conductivity	μs/cm	prior todischarging							600
	Oil & Grease	mg/L	from EPL 45 and/or 46							<5
	рН	рН	and again within 12hours of discharge.							8.07
	Oil & Grease	mg/L	discharge or dewatering							
45	рН	рН	occurs after 38.4mL over		No dischar	ge occurred from	this monitoring lo	ocation during Au	gust 2022	
(ECWDP)	TSS	mg/L	a 5-day period.							
46	Oil & Grease	mg/L	discharge or dewatering							<5
46 (WCWDP)	рН	рН	occurs after 38.4mL over	1	16/08/2022					8.01
()	TSS	mg/L	a 5-day period.							40

Table 6 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	22/08/2022	22:30	1.1	IA	35	IA	45	0.0	No
NM2	22/08/2022	23:30	0.6	IA	39	IA	45	0.0	No
NM3	22/08/2022	23:32	0.7	IA	35	IA	45	0.0	No
NM4	22/08/2022	23:00	0.6	IA	35	IA	45	0.0	No
NM5	22/08/2022	22:00	0.6	IA	35	IA	45	0.0	No
NM6	22/08/2022	23:56	0.3	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	Мах	100% Limit	Exceedance (Yes / No)
Operations	Overpressure	Db (Lin Peak)	All	9	89.5	105.1	120	No
Blasts	Vibration	mm/s	All	9	0.17	0.63	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

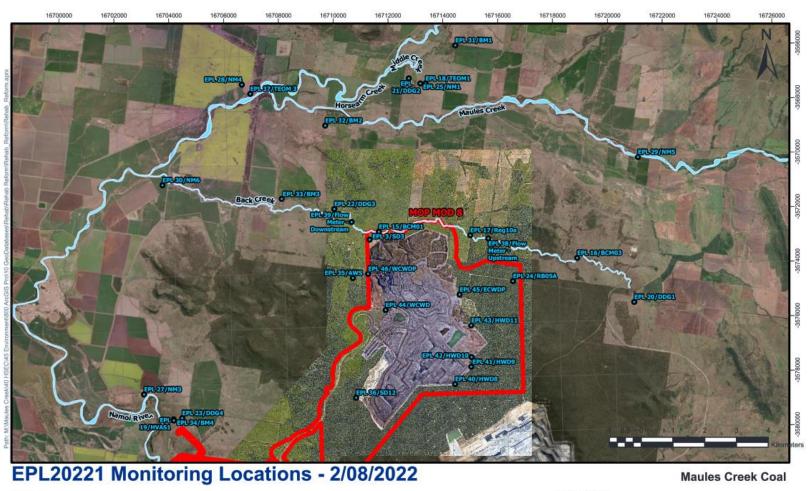
Table $9 - PM_{10}$ (Limits Apply)

ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	μg/m³ month	PM ₁₀	5.5	30	No
37 (TEOM3)	Continuous	μg/m³ month	PM ₁₀	11.1	30	No
19 (HVAS)	5 days	μg/m³	PM ₁₀	8.1	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/m² month	1.4	4	No
21 (DDG2/MC2)	Monthly	g/m² month	1.0	4	No
22 (DDG3/MC3)	Monthly	g/m² month	1.9	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.0	4	No

Figure 1 – EPL 20221 Monitoring Locations



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.

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		
4.5	рН	рН									
15 (BCM01)	Conductivity	μs/cm	Quarterly	0		Dry					
(BCIVIOT)	TDS	mg/L									
1.0	рН	рН									
16	Conductivity	μs/cm	Quarterly	0	Dry						
(BCM03)	TDS	mg/L									
	рН	рН									
17	Conductivity	μs/cm	Quarterly	0			Dry				
(REG10A)	TDS	mg/L									
	рН	рН							7.59		
24	Conductivity	μs/cm	Quarterly	1	5/09/2022	YES	N/A	N/A	1920		
(RB05A) L	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
	TSS	mg/L	Every 2 months	1	12/09/2022			NA	<5
12	Conductivity	μs/cm				15/10/2022	NA		1110
(Mine Void)	Oil & Grease	mg/L							<5
	рН	рН							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 Nitrate Nitrogen (total) Oil & Grease pH Phosphorous Reactive Phosphorous	μs/cm mg/L mg/L mg/L pH mg/L mg/L	Special Frequency 1 - within 12 hours of discharge from EPL 3 or							
36 (SD12)	TSS Conductivity Nitrate Nitrogen (total) Oil & Grease pH Phosphorous Reactive Phosphorous TSS Conductivity	mg/L µs/cm mg/L mg/L mg/L pH mg/L mg/L mg/L mg/L mg/L	Special Frequency 1 - within 12 hours of discharge from EPL 3 or 36			No discharg	ge at these locati	ons 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
	Conductivity	μs/cm								105
	Nitrate	mg/L								0.17
	Nitrogen (total)	mg/L								2.1
	Oil & Grease	mg/L	_	1	16/09/2022	YES		NA		<5
	рН	рН						INA		7.16
	Phosphorous	mg/L								0.27
	Reactive Phosphorous	mg/L							0.04	
	TSS	mg/L								152
	Conductivity	μs/cm		1			NA			160
20	Nitrate	mg/L	Special Frequency 3 - within 12 hours of							0.05
38 (Flow Meter	Nitrogen (total)	mg/L			19/09/2022	YES				0.5
Upstream)	Oil & Grease	mg/L	discharge from any							<10
	рН	рН	 discharge location. 							7.38
	Phosphorous	mg/L								0.1
	Reactive Phosphorous	mg/L								0.03
	TSS	mg/L								27
	Conductivity	μs/cm								181
	Nitrate	mg/L								<0.01
	Nitrogen (total)	mg/L		1	28/09/2022	YES		NA		1.0
	Oil & Grease	mg/L			, ~,,	0				<5
	рН	рН							7.5	
	Phosphorous	mg/L								0.1

	Reactive Phosphorous	mg/L						0.02
	TSS	mg/L						14
	Conductivity	μs/cm						117
	Nitrate	mg/L						0.29
	Nitrogen (total)	mg/L						1.9
	Oil & Grease	mg/L		1	16/09/2022	YES	NA	< 5
	рН	рН	Special Frequency 3 - within 12 hours of	1	10/03/2022		IVA	7.43
	Phosphorous	mg/L						0.3
	Reactive Phosphorous	mg/L						0.08
	TSS	mg/L						104
	Conductivity	μs/cm						190
	Nitrate	mg/L		1				0.32
39	Nitrogen (total)	mg/L						0.7
(Flow Meter	Oil & Grease	mg/L	discharge from any		19/09/2022	YES	NA	<10
downstream)	рН	рН	discharge location.		13,03,2022	123	IVA	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		1	28/09/2022	YES	NA	<5
	рН	рН						7.41
	Phosphorous	mg/L	-					0.11
	Reactive Phosphorous	mg/L						0.08

	TSS	mg/L						11				
	TSS	mg/L										
	Conductivity	μs/cm	Special Frequency 2 – prior to discharging									
40 (HWD8)	Oil & Grease	mg/L	from EPL 45 and/or 46 and again within		No discharge occurred from this monitoring location during September 2022							
	рН	рН	12hours of discharge,									
	TSS	mg/L	– Special Frequency 2 –	· -								
41	Conductivity	μs/cm	prior to discharging from EPL 45 and/or 46		No dischara	o accurred from t	his manitoring location during Sontomber 2022					
(HWD9)	Oil & Grease	mg/L	and again within 12hours of discharge,		No discharge occurred from this monitoring location during September 2022							
	рН	рН										
	TSS	mg/L			16/09/2022	YES		140				
	Conductivity	μs/cm		1			NA	124				
	Oil & Grease	mg/L	Special Frequency 2 – prior to discharging	1	10/03/2022	TLS		<5				
42	рН	рН	from EPL 45 and/or 46					7.04				
(HWD10)	VD10) TSS mg/L or within 12hd discharge cause	discharge caused by					22					
	Conductivity	μs/cm	38.4mm in a 5 Day consecutive period	1	19/09/2022	YES	NA	150				
	Oil & Grease	mg/L		T	13/03/2022	ILS	NA	<10				
	рН	рН						6.74				

		1	1		1			
	TSS	mg/L						27
	Conductivity	μs/cm		1	28/09/2022	YES	NA	116
	Oil & Grease	mg/L		1	20,03,2022	123	NA	<5
	рН	рН						6.89
	TSS	mg/L						102
	Conductivity	μs/cm		1	16/09/2022	YES		282
	Oil & Grease	mg/L	Special Frequency 2 –	1		YES	NA	<5
	рН	рН						7.12
	TSS	mg/L		1				21
43	Conductivity	, , ,	from EPL 45 and/or 46 or within 12hours of		19/09/2022	YES	NA	180
(HWD11)	Oil & Grease	mg/L	discharge caused by		13/03/2022	YES	NA	<10
	рН	рН	38.4mm in a 5 Day consecutive period					6.82
	TSS	mg/L						8
	Conductivity	μs/cm		1	28/09/2022	YES	NA	156
	Oil & Grease	mg/L		1	28/09/2022	163	NA	<5
	рН	рН						7.05
44	TSS	mg/L	Special Frequency 2 –	1	16/09/2022	YES	NA	374
(WCWD)	Conductivity	μs/cm	prior to discharging	1	10/03/2022	163	IVA	308

	Oil & Grease	mg/L	or within 12hours of discharge caused by				<5
	рН	рН	38.4mm in a 5 Day consecutive period				7.67
	Oil & Grease	mg/L					<5
	рН	рН		1	16/09/2022	NA	7.07
	TSS	mg/L					71
	Oil & Grease	mg/L	discharge or				<10
45 (ECWDP)	рН	рН	dewatering occurs after 38.4mL over a 5- day period.		19/09/2022	NA	6.97
	TSS	mg/L					45
	Oil & Grease	mg/L					<5
	рН	рН		1		NA	6.91
	TSS	mg/L					11
	Oil & Grease	mg/L	discharge or				<5
46 (WCWDP)	dewatering occurs	dewatering occurs after 38.4mL over a 5-	1	16/09/2022	NA	7.71	
	TSS	mg/L	day period.				322

Table 6 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (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	Overpressure	Db (Lin Peak)	ΛII	7	91.9	106.8	120	No
Blasts	Vibration	mm/s	All	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

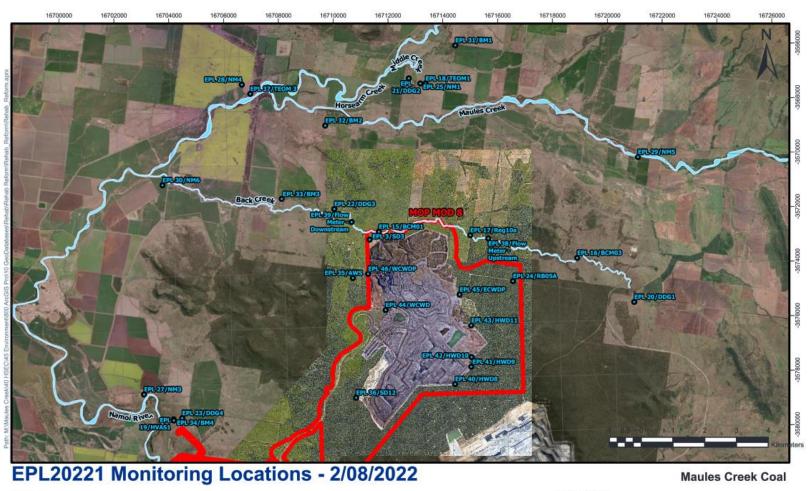
Table 9 – PM_{10} (Limits Apply)

ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	μg/m³ month	PM ₁₀	5.4	30	No
37 (TEOM3)	Continuous	μg/m³ month	PM ₁₀	11.8	30	No
19 (HVAS)	5 days	μg/m³	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/m² month	2.3	4	No
21 (DDG2/MC2)	Monthly	g/m² month	0.9	4	No
22 (DDG3/MC3)	Monthly	g/m² month	2.0	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.1	4	No

Figure 1 – EPL 20221 Monitoring Locations



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.

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: October 2022
Obtained Date: 15th November 2022
Publication Date: 20th November 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		
	рН	рН									
15 (BCM01)	Conductivity	μs/cm	Quarterly								
(BCIVIOI)	TDS	mg/L									
	рН	рН									
(BCM03) —	Conductivity	μs/cm	Quarterly								
	TDS	mg/L				Nort conside	- D 2022				
	рН	рН				Next sample i	n December 2022				
17 (BEC10A)	Conductivity	μs/cm	Quarterly								
(REG10A)	TDS	mg/L									
	рН	рН									
24	Conductivity	μs/cm	Quarterly								
(RB05A) ⊢	TDS	mg/L	1								

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
	TSS	mg/L							9
<u> </u>	Conductivity	μs/cm	Every 2 months	1	13/10/2022	15/11/2022	NA	NA	1080
(Mine Void)	Oil & Grease	mg/L							<5
þ	рН	рН							8.59

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
	Conductivity Nitrate	μs/cm mg/L	Special							
	Nitrogen (total)	mg/L	Frequency 1 -							
3	Oil & Grease	mg/L pH	within 12 hours of							
(SD3)	Phosphorous	mg/L	discharge							
	Reactive Phosphorous	mg/L	from EPL 3 or 36.							
	TSS	mg/L								
	Conductivity	μs/cm				No discharg	ge at these locati	ons this month		
	Nitrate	mg/L	Special							
	Nitrogen (total)	mg/L	Frequency 1 -							
	Oil & Grease	mg/L	within 12							
36	рН	рН	hours of							
(SD12)	Phosphorous	mg/L								
	Reactive Phosphorous	mg/L	discharge from EPL 3 or 36							
	TSS	mg/L								
	Conductivity	μs/cm								

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
	Conductivity	μs/cm								174
	Nitrate	mg/L								<0.01
	Nitrogen (total)	mg/L								1.3
	Oil & Grease	mg/L		1	10/10/2022	YES		NA		<5
	рН	рН	_	_				IVA		7.55
	Phosphorous	mg/L								0.12
	Reactive Phosphorous	mg/L								0.03
	TSS	mg/L								14
	Conductivity	μs/cm		1	18/10/2022		NA			211
	Nitrate	mg/L	Special Frequency 3 - within 12 hours of							0.01
38 (Flow Meter	Nitrogen (total)	mg/L				YES				0.7
Upstream)	Oil & Grease	mg/L	discharge from any discharge location.							<5
	рН	рН	discharge location.							7.63
	Phosphorous	mg/L							0.06	
	Reactive Phosphorous	mg/L								0.01
	TSS	mg/L								5
	Conductivity	μs/cm								158
	Nitrate	mg/L								0.08
	Nitrogen (total)	mg/L		1	21/10/2022	YES		NA		2.3
	Oil & Grease	mg/L			, ,					<5
	рН	рН							7.63	
	Phosphorous	mg/L								0.66

	Reactive Phosphorous	mg/L						0.33
	TSS	mg/L						181
	Conductivity	μs/cm						181
	Nitrate	mg/L						0.04
	Nitrogen (total)	mg/L						1.3
	Oil & Grease	mg/L		1	10/10/2022	YES	NA	<5
	рН	рН		1	10/10/2022		IVA	7.36
	Phosphorous	mg/L						0.15
	Reactive Phosphorous	mg/L						0.03
	TSS	mg/L						10
	Conductivity	μs/cm	Special Frequency 3 - within 12 hours of					251
	Nitrate	mg/L		1				20
39	Nitrogen (total)	mg/L						0.60
(Flow Meter	Oil & Grease	mg/L	discharge from any		18/10/2022	YES	NA	<5
downstream)	рН	рН	discharge location.			123		7.84
	Phosphorous	mg/L						0.09
	Reactive Phosphorous	mg/L						0.03
	TSS	mg/L						5
	Conductivity	μs/cm						110
	Nitrate	mg/L						0.08
	Nitrogen (total)	mg/L						1.7
	Oil & Grease	mg/L		1	21/10/2022	YES	NA	<5
	рН	рН						7.47
	Phosphorous	mg/L						0.30
	Reactive Phosphorous	mg/L						0.10

	TSS	mg/L						88					
	TSS	mg/L	Special Frequency 2 – prior to discharging										
40	Conductivity	μs/cm	from EPL 45 and/or 46 or		No discharge occurred from this monitoring location during September 2022								
(HWD8)	Oil & Grease	mg/L	within 12hours of discharge caused by										
	рН	рН	38.4mm in a 5 Day consecutive period										
	TSS	mg/L	Special Frequency 2 – prior to discharging										
41	Conductivity	μs/cm	from EPL 45 and/or 46 or										
(HWD9)	Oil & Grease	mg/L	within 12hours of discharge caused by		No discharge occurred from this monitoring location during September 2022								
	рН	рН	38.4mm in a 5 Day consecutive period										
	TSS	mg/L		1	10/10/2022			66					
	Conductivity	μs/cm				YES	NA	124					
	Oil & Grease	mg/L	Special Frequency 2 – prior to discharging	_				<5					
42	рН	рН	from EPL 45 and/or 46 or					6.82					
(HWD10)	TSS	mg/L	within 12hours of discharge caused by					130					
	Conductivity	μs/cm	38.4mm in a 5 Day consecutive period	1	21/10/2022	YES	NA	120					
	Oil & Grease	mg/L		-	21, 10, 2022	1.23	1	<5					
	рН	рН						7.22					
43 (HWD11)	TSS	mg/L		1	10/10/2022	Yes	NA	34					

	Conductivity	μs/cm						166
	Oil & Grease	mg/L						<5
	рН	рН	-					6.85
	TSS	mg/L	Special Frequency 2 –					14
	Conductivity	μs/cm	prior to discharging from EPL 45 and/or 46	1	18/10/2022	YES	NA	169
	Oil & Grease	mg/L	or within 12hours of	1	18/10/2022		NA	<5
	рН	рН	discharge caused by 38.4mm in a 5 Day consecutive period					6.72
	TSS	mg/L			21/10/2022			64
	Conductivity	μs/cm		1		YES	NA	141
	Oil & Grease	mg/L				163	IVA	<5
	рН	рН						7.26
	TSS	mg/L						32
	Conductivity	μs/cm	Special Frequency 2 –	1	10/10/2022	YES	NA	637
	Oil & Grease	mg/L	prior to discharging from EPL 45 and/or 46	1	10/10/2022	ILS	IVA	<5
44 (WCWD)	рН	рН	or within 12hours of discharge caused by 38.4mm in a 5 Day					7.83
	TSS	mg/L						88
	Conductivity	μs/cm		1	21/10/2022	YES	NA	963
	Oil & Grease	mg/L						<5

	pН	pН						7.70
	Oil & Grease	mg/L						<5
	рН	рН	-	1	10/10/2022		NA	6.86
	TSS	mg/L	-					21
	Oil & Grease	mg/L	not more than 12					<5
45 (ECWDP)	рН	рН	hours after discharge commences	1	18/10/2022		NA	7.12
	TSS mg/L	commences					5	
	Oil & Grease	mg/L		1				<5
	pH	рН			21/10/2022		NA	6.55
	TSS	mg/L						112
	Oil & Grease	mg/L				YES		<5
	pH	рН		1	10/10/2022		NA	7.77
46	TSS	mg/L	not more than 12 hours after discharge					26
(WCWDP)	Oil & Grease	mg/L	commences					<5
	рН	mg/L		1	21/10/2022	YES	NA	7.91
	TSS	рН						183

Table 6 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit LA1 (1 min) (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	4/10/2022	23:00	0.9	29	35	34	45	0.0	No
NM2	4/10/2022	23:45	0.3	32	39	35	45	0.0	No
NM3	5/10/2022	00:04	0.3	IA	35	IA	45	0.0	No
NM4	5/10/2022	00:15	0.4	25	35	26	45	0.0	No
NM5	4/10/2022	22:18	0.5	<20	35	<20	45	0.0	No
NM6	5/10/2022	00:46	0.5	<25	35	27	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	Overpressure	Db (Lin Peak)	All	8	93.3	106.6	120	No
Blasts	Vibration	mm/s	All	8	0.17	0.81	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

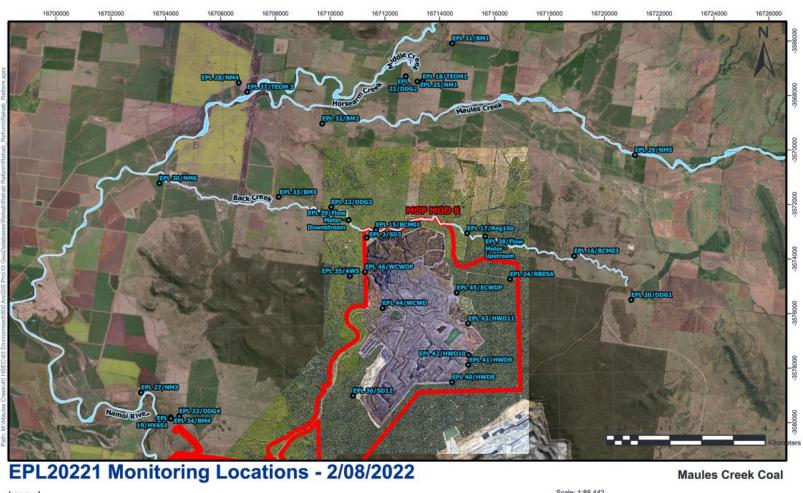
Table 9 – PM_{10} (Limits Apply)

ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	μg/m³ month	PM ₁₀	5.1	30	No
37 (TEOM3)	Continuous	μg/m³ month	PM ₁₀	14.2	30	No
19 (HVAS)	5 days	μg/m³	PM ₁₀	7.9	30	No

Table 10 – Depositional Dust (Limits Apply)

ID EPL (Site)	Sample period	Particulates Annual Deposited Average Matter Insoluble Solids		Criteria	Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m² month	0.8	4	No
21 (DDG2/MC2)	Monthly	g/m² month	0.9	4	No
22 (DDG3/MC3)	Monthly	g/m² month	2.1	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.1	4	No

Figure 1 – EPL 20221 Monitoring Locations



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.

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: Novemer 2022 Obtained Date: 15th December 2022 Publication Date: 16th December 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		
	рН	рН									
15 (BCM01)	Conductivity	μs/cm	Quarterly								
(BCIVIOT)	TDS	mg/L									
1.0	рН	рН									
	16 BCM03) Conductivity μs/cr	μs/cm	Quarterly								
(BCIVIUS)	TDS	mg/L				Nort consults	:- D				
	рН	рН				Next sample	in December 2022				
17	Conductivity	μs/cm	Quarterly								
(REG10A)	TDS	mg/L									
	рН	рН									
24	Conductivity	μs/cm	Quarterly								
(RB05A)	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
	TSS	mg/L							44
12	Conductivity	μs/cm	Every 2		24 /44 /2022	15/12/2022	NA	NA	961
(Mine Void)	Oil & Grease	mg/L	months	1	21/11/2022	15/12/2022	IVA	INA	<5
	рН	рН							8.60

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
	Conductivity Nitrate	μs/cm mg/L	Special							
	Nitrogen (total)	mg/L	Frequency 1 -							
3	Oil & Grease	mg/L pH	within 12 hours of							
(SD3)	Phosphorous	mg/L	discharge							
	Reactive Phosphorous	mg/L	from EPL 3 or 36.							
	TSS	mg/L								
	Conductivity	μs/cm				No discharg	ge at these locati	ons this month		
	Nitrate	mg/L	Special							
	Nitrogen (total)	mg/L	Frequency 1 -							
	Oil & Grease	mg/L	within 12							
36	рН	рН	hours of							
(SD12)	Phosphorous	mg/L								
	Reactive Phosphorous	mg/L	discharge from EPL 3 or 36							
	TSS	mg/L								
	Conductivity	μs/cm								

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
	Conductivity	μs/cm								130
	Nitrate	mg/L	_							0.079
	Nitrogen (total)	mg/L								0.9
	Oil & Grease	mg/L	_							<5
	рН	рН		1	1/11/2022	YES		NA		7.23
	Phosphorous	mg/L	_							0.2
38	Reactive Phosphorous	mg/L	Special Frequency 3 -							0.072
(Flow Meter	TSS	mg/L	within 12 hours of						14	
Upstream)	Conductivity	μs/cm	discharge from any discharge location.	1					150	
	Nitrate	mg/L					NA			0.04
	Nitrogen (total)	mg/L								0.9
	Oil & Grease	mg/L								<5
	рН	рН			14/11/2022	YES				7.26
	Phosphorous	mg/L								0.1
	Reactive Phosphorous	mg/L								0.067
	TSS	mg/L								89
	Conductivity	μs/cm								140
	Nitrate	mg/L								0.077
39	Nitrogen (total)	mg/L	Special Frequency 3 -							1
(Flow Meter	Oil & Grease	mg/L	within 12 hours of	1	1/11/2022	YES		NA		<5
downstream)	рН	рН	discharge from any discharge location.							7.32
	Phosphorous	mg/L								0.2
	Reactive Phosphorous	mg/L							0.071	

	TSS	mg/L						10					
	Conductivity	μs/cm						130					
	Nitrate	mg/L						0.077					
	Nitrogen (total)	mg/L						1.0					
	Oil & Grease	mg/L		1	14/11/2022	VEC	N/A	<5					
	рН	рН		1	14/11/2022	YES	NA	7.28					
	Phosphorous	mg/L						0.02					
	Reactive Phosphorous	mg/L						0.092					
	TSS	mg/L						89					
	TSS	mg/L	Special Frequency 2 – prior to discharging										
40	Conductivity	μs/cm	from EPL 45 and/or 46 or		No disabara	ro popurrod from t	this monitoring location during November 2022						
(HWD8)	Oil & Grease	mg/L	within 12hours of discharge caused by		No discharge occurred from this monitoring location during November 2022								
	рН		38.4mm in a 5 Day consecutive period										
	TSS	mg/L			1/11/2022	YES	NA	142					
	Conductivity	μs/cm		1				170					
	Oil & Grease	mg/L	Special Frequency 2 – prior to discharging	1	1/11/2022	113	IVA	<5					
41	рН	рН	from EPL 45 and/or 46 or					7.06					
(HWD9)	TSS	mg/L 46 or within 12hours of discharge caused by					169						
	Conductivity	μs/cm	38.4mm in a 5 Day consecutive period	1	14/11/2022	YES	NA	180					
	Oil & Grease	mg/L		Τ.	17/11/2022	ILJ	NA NA	<5					
	рн рн	рН						7.09					

	TSS	mg/L	Special Frequency 2 – prior to discharging					62
42	Conductivity	μs/cm	from EPL 45 and/or 46 or		/ /			100
(HWD10)	Oil & Grease	mg/L	within 12hours of discharge caused by	1	14/11/2022	YES	NA	<5
	рН	рН	38.4mm in a 5 Day consecutive period					6.90
	TSS	mg/L						118
	Conductivity	μs/cm		1	1/11/2022	Yes	NA	113
	Oil & Grease	mg/L	Special Frequency 2 – prior to discharging			163	IVA	<5
43	рН	рН	from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period					6.95
(HWD11)	TSS	mg/L		1	14/11/2022			109
	Conductivity	μs/cm				YES	NA	160
	Oil & Grease	mg/L				113	IVA	<5
	рН	рН						6.92
	TSS	mg/L						132
	Conductivity	μs/cm	Special Frequency 2 – prior to discharging	1	1/11/2022	YES	NA	660
44	Oil & Grease	mg/L	from EPL 45 and/or 46 or	1	1/11/2022	123	IVA	<5
(WCWD)	рН	рН	within 12hours of discharge caused by					8.32
	TSS	mg/L	38.4mm in a 5 Day consecutive period	1	14/11/2022	YES	NA	80
	Conductivity	μs/cm		•	1 11/2022	123	1971	180

	Oil & Grease	mg/L						<5
	рН	рН	-					8.11
	Oil & Grease	mg/L						<5
	рН	рН		1	1/11/2022	YES	NA	7.17
45	TSS	mg/L	not more than 12 hours after discharge					157
(ECWDP)	Oil & Grease	mg/L	commences	1	14/11/2022			<5
	pH	рН					NA	7.30
	TSS	mg/L						51
	Oil & Grease	mg/L				YES		<5
	рН	рН		1	1/11/2022		NA	8.09
46	TSS	mg/L	not more than 12					144
(WCWDP)	Oil & Grease	mg/L	hours after discharge commences					<5
	рН	mg/L		1	14/11/2022	YES	NA	7.29
	TSS	рН						80

Noise Monitoring

Table 6 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	10/11/2022	22:30	0.9	27	35	30	45	0.0	No
NM2	10/11/2022	23:30	0.8	<20	39	25	45	0.0	No
NM3	10/11/2022	23:51	0.5	<25	35	<25	45	0.0	No
NM4	10/11/2022	23:00	0.3	<20	35	<20	45	0.0	No
NM5	10/11/2022	22:00	0.5	IA	35	IA	45	0.0	No
NM6	10/11/2022	23:56	0.6	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	Overpressure	Db (Lin Peak)	ΔII	7	91.8	102.7	120	No
Blasts	Vibration	mm/s	All	7	0.11	0.25	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

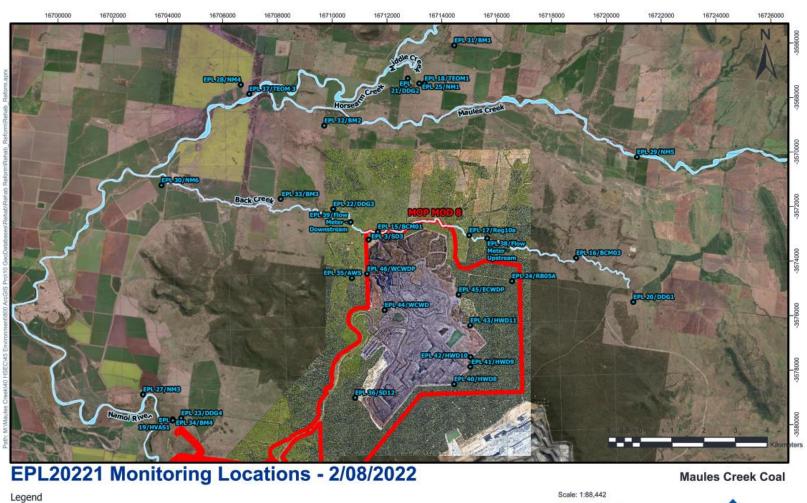
Table 9 – PM_{10} (Limits Apply)

ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	μg/m³ month	PM ₁₀	5.1	30	No
37 (TEOM3)	Continuous	μg/m³ month	PM ₁₀	12.1	30	No
19 (HVAS)	5 days	μg/m³	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/m² month	0.8	4	No
21 (DDG2/MC2)	Monthly	g/m² month	0.9	4	No
22 (DDG3/MC3)	Monthly	g/m² month	2.1	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.2	4	No

Figure 1 – EPL 20221 Monitoring Locations



EPL Monitoring locations

05 Project Boundary_Boundaries

MCCM Project Boundary (Mod 8)

Author: shenanewman

Date Exported: 16/09/2022 11:51 AM

Spatial Reference Name: GDA2020 MGA Zone 56



WHITEHAVEN

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.

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 2022 **Obtained Date:** 15th January 2023 **Publication Date:** 20th January 2023

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	
45	рН	рH								
15 (BCM01)	Conductivity	μs/cm	Quarterly	0	5/12/2022	Dry				
(BCIVIOI)	TDS	mg/L								
	рН	рН								
16	Conductivity	μs/cm	Quarterly	0	6/12/2022	Dry				
(BCM03)	TDS	mg/L								
	рН	рН								
17	Conductivity	μs/cm	Quarterly	0	5/12/2022		Di	ry		
(REG10A)	TDS	mg/L								
	pН	рН							7.46	
24	Conductivity	μs/cm	Quarterly	1	2/12/2022	YES	N/A	N/A	1800	
(RB05A) —	TDS	mg/L							1060	

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
	TSS	mg/L							<5
12	Conductivity	μs/cm	Every 2	Every 2 1 months	9/12/2022	15/01/2022	NA	NA	1000
(Mine Void)	Oil & Grease	mg/L	months						<5
	рН	рН							8.48

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		
	Conductivity	μs/cm										
	Nitrate	mg/L	Special Frequency 1									
3 (SD3)	Nitrogen (total)	mg/L										
	Oil & Grease	mg/L	- within 12 hours of									
	рН	рН	discharge from EPL									
	Phosphorous	mg/L	_									
	Reactive	mg/L	3 or 36.									
	Phosphorous											
	TSS	mg/L										
	Conductivity	μs/cm			No discharge at these locations this month							
	Nitrate	mg/L										
	Nitrogen (total)	mg/L										
	Oil & Grease	mg/L	Special Frequency 1									
36	pН	pН	- within 12 hours of									
(SD12)	Phosphorous	mg/L	discharge from EPL									
	Reactive	mg/L	3 or 36									
	Phosphorous											
ļ	TSS	mg/L										
	Conductivity	μs/cm										

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		
	Conductivity	μs/cm										
	Nitrate	mg/L										
	Nitrogen (total)	mg/L										
	Oil & Grease	mg/L										
	pН	pН										
	Phosphorous	mg/L	Special Frequency 3 -									
38	Reactive Phosphorous	mg/L										
(Flow Meter	TSS	mg/L	within 12 hours of									
Upstream)	Conductivity	μs/cm	discharge from any									
	Nitrate	mg/L	discharge location.									
	Nitrogen (total)	mg/L										
	Oil & Grease	mg/L										
	рН	рН										
	Phosphorous	mg/L										
	Reactive Phosphorous	mg/L		No discharge occurred from this monitoring location during December 2022								
	TSS	mg/L										
	Conductivity	μs/cm										
	Nitrate	mg/L										
	Nitrogen (total)	mg/L										
	Oil & Grease	mg/L										
	pН	pН										
	Phosphorous	mg/L	Special Frequency 3 -									
39 (Flow Meter	Reactive Phosphorous	mg/L	within 12 hours of									
downstream)	TSS	mg/L	discharge from any									
,	Conductivity	μs/cm	discharge location.									
	Nitrate	mg/L										
	Nitrogen (total)	mg/L										
	Oil & Grease	mg/L										
	рН	рН										
	Phosphorous	mg/L										

	Reactive Phosphorous	mg/L	
	TSS	mg/L	
	TSS	mg/L	Special Frequency 2 – prior to discharging
40	Conductivity	μs/cm	from EPL 45 and/or 46 or
(HWD8)	Oil & Grease	mg/L	within 12hours of discharge caused by
	рН	рН	38.4mm in a 5 Day consecutive period
	TSS	mg/L	
	Conductivity	μs/cm	
	Oil & Grease	mg/L	Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or
41	рН	рН	
(HWD9)	TSS	mg/L	within 12hours of discharge caused by
	Conductivity	μs/cm	38.4mm in a 5 Day consecutive period
	Oil & Grease	mg/L	
	рН	рН	
	TSS	mg/L	Special Frequency 2 – prior to discharging
42	Conductivity	μs/cm	from EPL 45 and/or 46 or
(HWD10)	Oil & Grease	mg/L	within 12hours of discharge caused by
	рН	рН	38.4mm in a 5 Day consecutive period

	TSS	mg/L	
	Conductivity	μs/cm	
	Oil & Grease	mg/L	Special Frequency 2 – prior to discharging
43	рН	рН	from EPL 45 and/or 46
(HWD11)	TSS	mg/L	within 12hours of discharge caused by
	Conductivity	μs/cm	38.4mm in a 5 Day consecutive period
	Oil & Grease	mg/L	-
	рН	рН	
	TSS	mg/L	
	Conductivity	μs/cm	
	Oil & Grease	mg/L	Special Frequency 2 – prior to discharging
44	рН	рН	from EPL 45 and/or 46 or
(WCWD)	TSS	mg/L	within 12hours of discharge caused by
	Conductivity	μs/cm	38.4mm in a 5 Day consecutive period
	Oil & Grease	mg/L	
	рН	рН	
45	Oil & Grease	mg/L	not more than 12 hours after discharge
(ECWDP)	рН	рН	commences

	TSS	mg/L	
	Oil & Grease	mg/L	
	рН	рН	
	TSS	mg/L	
	Oil & Grease	mg/L	
	рН	рН	
46	TSS	mg/L	not more than 12 hours after discharge
(WCWDP)	Oil & Grease	mg/L	commences
	рН	mg/L	
	TSS	рН	

Noise Monitoring

Table 6 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	20/12/2022	22:30	3.3	<20	35	27	45	0.0	NA
NM2	20/12/2022	23:30	2.8	29	39	32	45	0.0	No
NM3	20/12/2022	23:51	3.0	IA	35	IA	45	0.0	No
NM4	20/12/2022	23:00	3.5	26	35	30	45	0.0	NA
NM5	20/12/2022	22:00	4.2	IA	35	IA	45	0.0	NA
NM6	21/12/2022	0:00	3.4	<20	35	23	45	0.0	NA

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	Overpressure	Db (Lin Peak)		10	93.1	105.3	120	No
Blasts	Vibration	mm/s	All	10	0.11	0.33	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

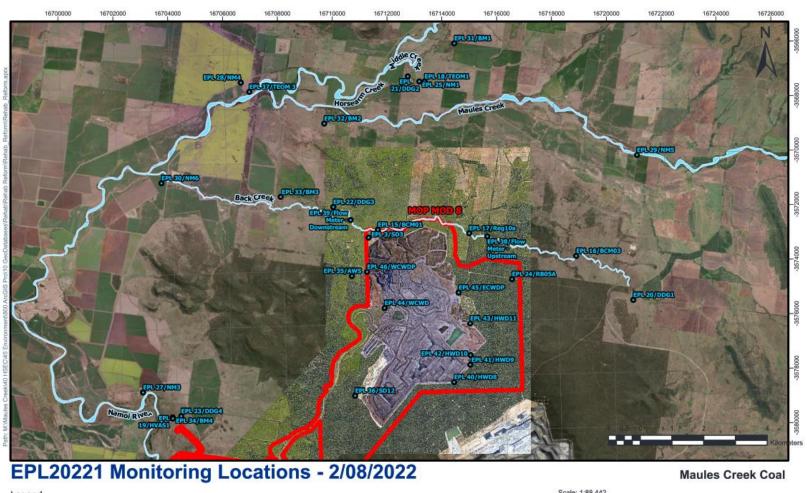
Table $9 - PM_{10}$ (Limits Apply)

ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	μg/m³ month	PM ₁₀	5.1	30	No
37 (TEOM3)	Continuous	μg/m³ month	PM ₁₀	12.5	30	No
19 (HVAS)	5 days	μg/m³	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/m² month	0.9	4	No
21 (DDG2/MC2)	Monthly	g/m² month	0.5	4	No
22 (DDG3/MC3)	Monthly	g/m² month	2.1	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.2	4	No

Figure 1 – EPL 20221 Monitoring Locations



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.