



Monthly Environmental Monitoring Report Yancoal Mount Thorley Warkworth April 2022

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Revision History

Version No.	Version Details	Document Status	Date
1.1	Environment and Community Advisor	Final	29/07/2022

1.0 INTRODUCTION

This report has been compiled to provide a monthly summary of environmental monitoring results for Mount Thorley Warkworth (MTW). This report includes all monitoring data collected for the period 1 April to 30 April 2022.

2.0 AIR QUALITY

2.1 Meteorological Monitoring

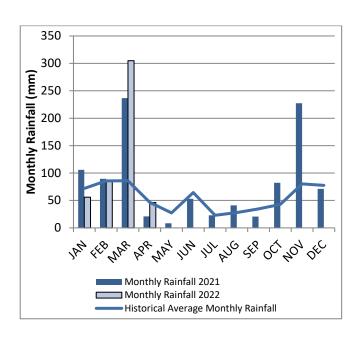
Meteorological data is collected at MTW's 'Charlton Ridge' meteorological station (refer to **Figure 3**: Air Quality Monitoring Locations).

2.1.1 Rainfall

Rainfall for the reporting period is summarised in **Table 1**. The year-to-date monthly rainfall totals, 2022 monthly rainfall totals and historical average monthly rainfall trend are shown in **Figure 1**.

Table 1: Monthly Rainfall MTW

2022	Monthly Rainfall (mm)	Cumulative Rainfall (mm)
 April	46.4	494.2



Note: The historical average monthly rainfall is calculated from 2007 to 2021 monthly totals

Figure 1: Rainfall Trend YTD



Winds from the south were dominant during the reporting period as shown in **Figure 2.**

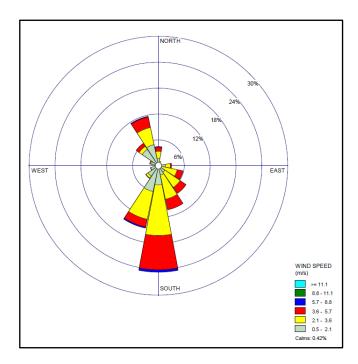


Figure 2: Charlton Ridge Wind Rose – April 2022

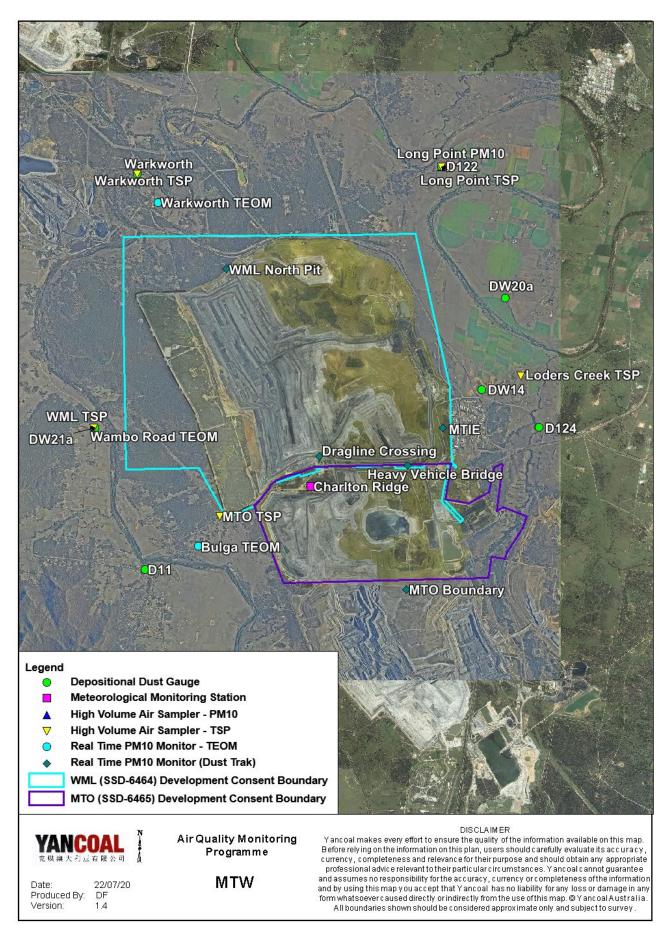


Figure 3: Air Quality Monitoring Locations

2.2 Depositional Dust

To monitor air quality, MTW operates and maintains a network of seven depositional dust gauges, situated on private and mine owned land surrounding MTW.

During the reporting period the Warkworth monitor recorded a monthly result above the long-term impact assessment criteria of 4.0 g/m²per month. There is no evidence to suggest that the Warkworth result is contaminated. Accordingly, the result will be included in the annual average calculation.

Figure 4 displays insoluble solids results from depositional dust gauges during the reporting period compared against the year-to-date average and the annual impact assessment criteria.

An annual assessment of MTW's compliance with the Long-Term Impact Assessment Criteria will be provided in the 2022 Annual Review Report.

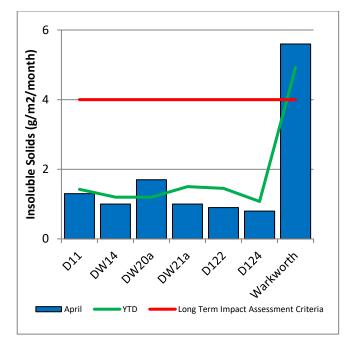


Figure 4: Depositional Dust – April 2022

2.3 Suspended Particulates

Suspended particulates are measured by a network of High Volume Air Samplers (HVAS) measuring Total Suspended Particulates (TSP) and Particulate Matter $<10\mu$ m (PM₁₀). The location of these monitors can be found in **Figure 3**. Each HVAS was run for 24 hours on a six-day cycle in accordance with EPA requirements.

2.3.1 HVAS PM₁₀ Results

Figure 5 shows the individual PM_{10} results at each monitoring station against the short-term impact assessment criteria of $50\mu g/m^3$.

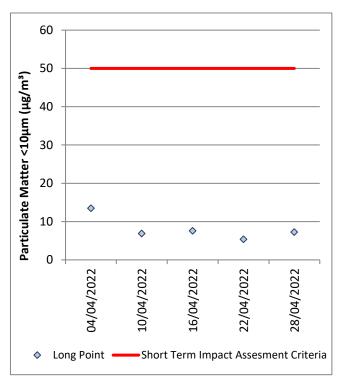
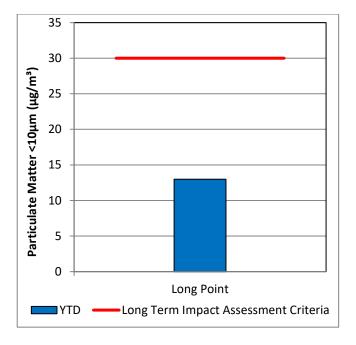
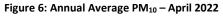


Figure 5: Individual PM10 Results - April 2022

Figure 6 shows the annual average PM10 result against the long term impact assessment criteria.

An assessment of MTW's compliance with the Long-Term Impact Assessment Criteria will be provided in the 2022 Annual Review Report.





2.3.2 TSP Results

Figure 7 shows the annual average TSP results compared against the long-term impact assessment criteria of $90\mu g/m^3$.

An assessment of MTW's compliance with the Long-Term Impact Assessment Criteria will be provided in the 2022 Annual Review Report.

Data was not available on 16 April 2022 from the Long Point monitor due to equipment issues.

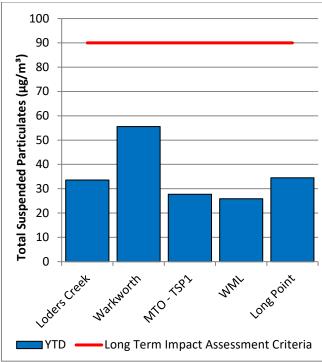


Figure 7: Annual Average Total Suspended Particulates – April 2022

2.3.3 Real Time PM₁₀ Results

MTW maintains a network of real time PM₁₀ monitors. The real time air quality monitoring stations continuously log information and transmit data to a central database, generating internal alerts when particulate matter levels exceed internal trigger limits.

Results for real time dust sampling are shown in Figure 8, including the daily 24-hour average PM_{10} result and the annual PM_{10} average.

2.3.4 Real Time Alarms for Air Quality

During April, the real time monitoring system generated 19 automated air quality related alerts, including 6 alerts for adverse meteorological conditions and 13 alerts for elevated PM_{10} levels.

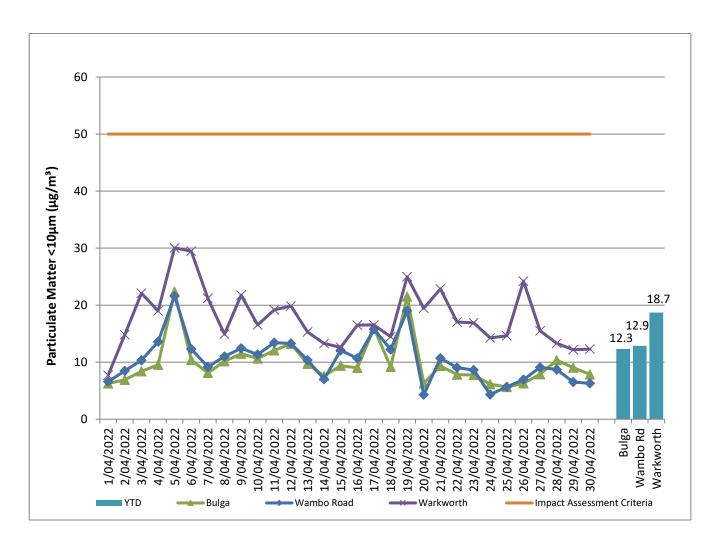


Figure 8: Real Time PM₁₀ daily 24hr average (line graphs) and YTD annual average (column graphs) – April 2022

3.0 WATER QUALITY

MTW maintains a network of surface water and groundwater monitoring sites.

3.1 Surface Water

Monitoring is conducted at mine site dams and surrounding natural watercourses.

Surface water courses are sampled on a monthly or quarterly sampling regime. Water quality is evaluated through the parameters of pH, Electrical Conductivity (EC) and Total Suspended Solids (TSS). The Hunter River and the Wollombi Brook are sampled both upstream and downstream of mining operations, to record background water quality and to monitor the potential impact of mining on the river system. Other Hunter River tributaries are also monitored. Results of monitoring are reported quarterly, next available in the June 2022 report.

3.2 HRSTS Discharge

MTW participates in the Hunter River Salinity Trading Scheme (HRSTS), allowing discharge from licensed discharge points located at Dam 1N and Dam 9S. Discharges can only take place subject to HRSTS regulations.

During the reporting period licenced HRSTS discharge from Dam 9S (EPL 1976 Point 4) occurred from 4 April to 22 April 2022 discharging a total of 763.85ML.

3.3 Groundwater Monitoring

Groundwater monitoring is undertaken on a quarterly basis in accordance with the MTW Groundwater Monitoring Programme.

Groundwater results are reported quarterly, next available in the June 2022 report.

4.0 BLAST MONITORING

MTW have a network of six blast monitoring units. These are located at nearby privately owned residences and function as regulatory compliance monitors.

The location of these monitors can be found in Figure 15.

4.1 Blast Monitoring Results

Table 2: Blasting Limits

During April 2022, 8 blasts were initiated at MTW. Figure 9 to Figure 14 show the blast monitoring results for the reporting period against the impact assessment criteria. The criteria are summarised in Table 2.

Airblast Overpressure (dB(L))	Comments
115	5% of the total number of blasts in a 12 month period at WML or MTO
120	0%
Ground Vibration (mm/s)	Comments
Ground Vibration (mm/s)	Comments 5% of the total number of blasts in a 12 month period at WML or MTO

During the reporting period no blast exceeded the 115 dB(L) 5% threshold for airblast overpressure at the Bulga Village monitoring location. No blast exceeded the 5mm/s 5% criteria for ground vibration.

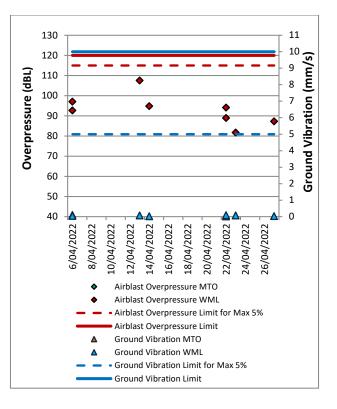


Figure 9: Abbey Green Blast Monitoring Results – April 2022

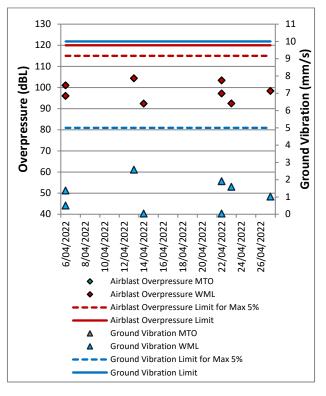


Figure 10: Bulga Village Blast Monitoring Results – April 2022

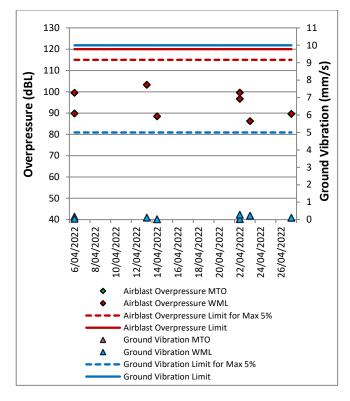


Figure 11: MTIE Blast Monitoring Results – April 2022

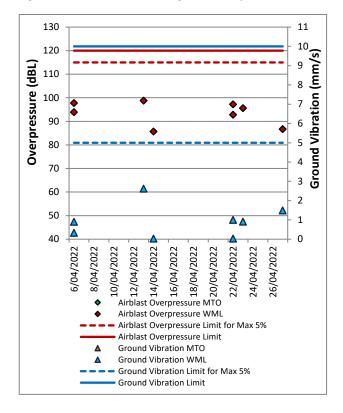


Figure 12: Wollemi Peak Road Blast Monitoring Results – April 2022

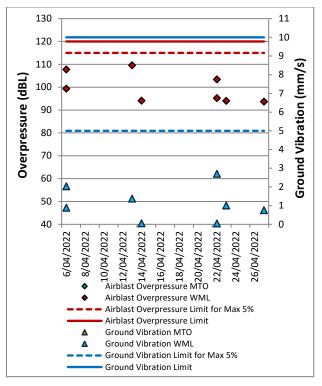


Figure 13: Wambo Road Blast Monitoring Results - April 2022

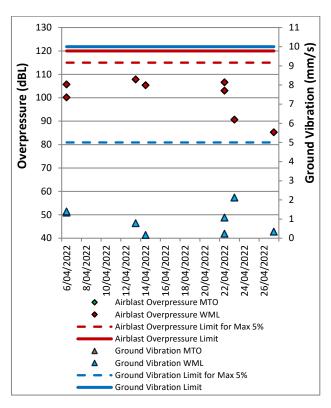


Figure 14: Warkworth Blast Monitoring Results – April 2022

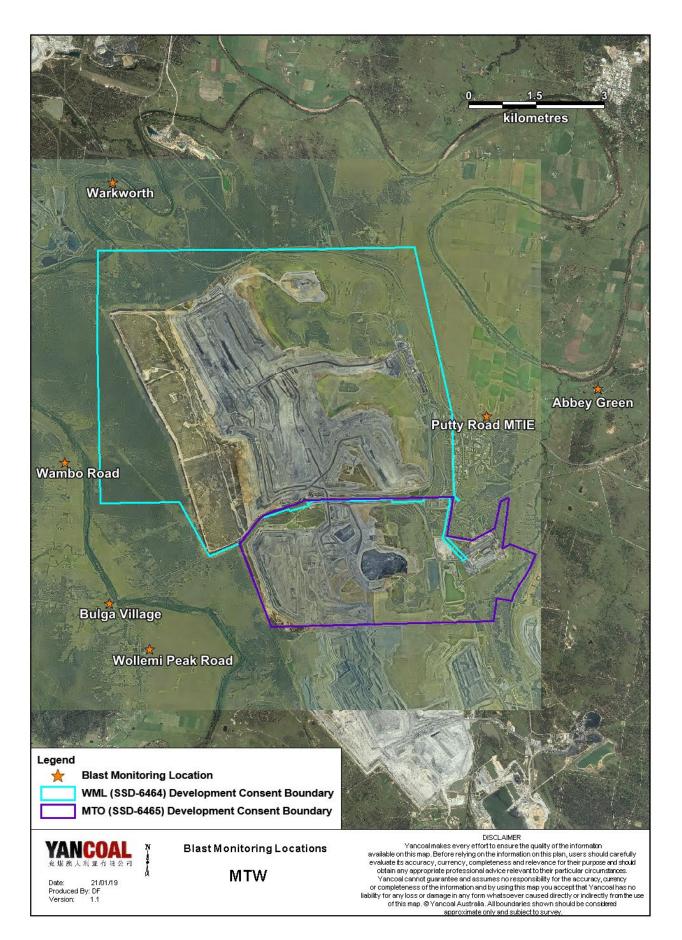


Figure 15: MTW Blast Monitoring Location Plan

5.0 NOISE

Routine attended noise monitoring is carried out in accordance with the MTW Noise Management Plan. A review against EIS predictions will be reported in the Annual Review. The purpose of the noise surveys is to quantify and describe the acoustic environment around the site and compare results with specified limits. Real time noise monitoring also occurs at five sites surrounding MTW. Noise monitoring locations are displayed in **Figure 16**.

5.1 Attended Noise Monitoring Results

Attended monitoring was conducted at receiver locations surrounding MTW on the nights of 5, 10 and 20 April 2022. All measurements complied with the relevant criteria, with the exception of WML levels at Wambo Road. Results are detailed in **Table 3 to Table 6**.

5.1.1 WML Noise Assessment

Compliance assessments undertaken against the WML noise criteria are presented in Tables 3 and 4.

Location	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB(A)	Criterion Applies? ¹	WML L _{Aeq} dB ^{2,3}	Exceedance ^{3,4}
Bulga RFS	5/04/2022 22:53	3.7	D	37	No	NM	NA
Bulga Village	5/04/2022 22:11	2.9	D	38	Yes	IA	Nil
Gouldsville	5/04/2022 21:24	3.3	D	38	No	<25	NA
Inlet Rd	5/04/2022 21:21	3.3	E	37	No	27	NA
Inlet Rd West	5/04/2022 21:00	3.2	E	35	No	27	NA
Long Point	5/04/2022 21:00	3.2	E	35	No	IA	NA
South Bulga	5/04/2022 23:39	3.6	D	35	No	IA	NA
Wambo Road	5/04/2022 21:45	3	D	38	Yes	39	1
Wambo Road⁵	10/04/2022 23:36	1.8	D	38	Yes	39	1
Wambo Road⁵	20/04/2022 23:33	1.9	E	38	Yes	29	NA

Table 3: LAeq, 15 minute Warkworth Impact Assessment Criteria – April 2022

Notes:

1. Noise criteria apply during all meteorological conditions except the following: during periods of rain or hail; average wind speed at microphone height exceeds 5 m/s; wind speeds greater than 3 m/s measured at 10 metres above ground level; stability category F temperature inversion conditions and wind speeds greater than 2m/s at 10m above ground level; or stability category G temperature inversion conditions. Criterion may or may not apply due to rounding of meteorological data values;

2. Site-only LAeq, 15minute attributed to WML, including modifying factors if applicable;

3. Bold results in red indicate exceedance of relevant criterion; and

4. NA in exceedance column means atmospheric conditions outside conditions specified in consent, therefore criterion was not applicable.

5. Followup measurement.

Table 4: LA1, 1 minute Warkworth - Impact Assessment Criteria – April 2022

Location	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB(A)	Criterion Applies? ¹	WML L _{A1, 1min} dB ^{2,3}	Exceedance ^{3,4}
Bulga RFS	5/04/2022 22:53	3.7	D	47	No	NM	NA
Bulga Village	5/04/2022 22:11	2.9	D	48	Yes	IA	Nil
Gouldsville	5/04/2022 21:24	3.3	D	48	No	<25	NA
Inlet Rd	5/04/2022 21:21	3.3	E	47	No	36	NA
Inlet Rd West	5/04/2022 21:00	3.2	E	45	No	31	NA
Long Point	5/04/2022 21:00	3.2	E	45	No	IA	NA
South Bulga	5/04/2022 23:39	3.6	D	45	No	IA	NA
Wambo Road	5/04/2022 21:45	3	D	48	Yes	44	Nil

Wambo Road⁵	10/04/2022 23:36	1.8	D	48	Yes	41	Nil
Wambo Road⁵	20/04/2022 23:33	1.9	E	38	Yes	32	Nil

Notes: 1. Noise criteria apply during all meteorological conditions except the following: during periods of rain or hail; average wind speed at microphone height exceeds 5 m/s; wind speeds greater than 3 m/s measured at 10 metres above ground level; stability category F temperature inversion conditions and wind speeds greater than 2m/s at 10m above ground level; or stability category G temperature inversion conditions. Criterion may or may not apply due to rounding of meteorological data values;

2. Site-only LA1,1minute attributed to WML;

3. Bold results in red indicate exceedance of relevant criterion; and

4. NA in exceedance column means atmospheric conditions outside conditions specified in consent, therefore criterion was not applicable.

5. Followup measurement.

5.1.2 MTO Noise Assessment

Compliance assessments undertaken against the MTO noise criteria are presented in Table 5 and 6.

Table 5: LAeg, 15minute Mount Thorley - Impact Assessment Criteria – April 2022

dance ^{3,4}
uance
NA
Nil
NA
Nil
Nil
Nil

Notes:

1. Noise criteria apply during all meteorological conditions except the following: during periods of rain or hail; average wind speed at microphone height exceeds 5 m/s; wind speeds greater than 3 m/s measured at 10 metres above ground level; stability category F temperature inversion conditions and wind speeds greater than 2m/s at 10m above ground level; or stability category G temperature inversion conditions. Criterion may or may not apply due to rounding of meteorological data values;

2. Site-only LAeq,15minute attributed to MTO, including modifying factors if applicable;

3. Bold results in red indicate exceedance of relevant criterion; and

4. NA in exceedance column means atmospheric conditions outside conditions specified in consent, therefore criterion was not applicable.

5. Followup measurement.

Table 6: LA1, 1Minute Mount Thorley - Impact Assessment Criteria – April 2022

Location	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB	Criterion Applies? ¹	MTO L _{A1, 1min} dB ^{2,3}	Exceedance ^{3,4}
Bulga RFS	5/04/2022 22:53	3.7	D	47	No	33	NA
Bulga Village	5/04/2022 22:11	2.9	D	48	Yes	35	Nil
Gouldsville	5/04/2022 21:24	3.3	D	45	No	IA	NA
Inlet Rd	5/04/2022 21:21	3.3	E	47	No	IA	NA
Inlet Rd West	5/04/2022 21:00	3.2	E	45	No	IA	NA
Long Point	5/04/2022 21:00	3.2	E	45	No	IA	NA
South Bulga	5/04/2022 23:39	3.6	D	46	No	31	NA
Wambo Road	5/04/2022 21:45	3	D	48	Yes	IA	Nil
Wambo Road⁵	10/04/2022 23:36	1.8	D	48	Yes	IA	Nil
Wambo Road⁵	20/04/2022 23:33	1.9	E	38	Yes	IA	Nil

Notes:

1. Noise criteria apply during all meteorological conditions except the following: during periods of rain or hail; average wind speed at microphone height exceeds 5 m/s; wind speeds greater than 3 m/s measured at 10 metres above ground level; stability category F temperature inversion conditions and wind speeds greater than 2m/s at 10m above ground level; or stability category G temperature inversion conditions. Criterion may or may not apply due to rounding of meteorological data values;

2. Site-only LA1,1minute attributed to MTO;

3. Bold results in red indicate exceedance of relevant criterion; and

4. NA in exceedance column means atmospheric conditions outside conditions specified in consent, therefore criterion was not applicable.

5. Followup measurement.

5.1.3 NPfl Low Frequency Assessment

In accordance with the requirements of the EPA's Noise Policy for Industry (NPfI), the applicability of the low frequency modification factor corrections has been assessed. This resulted in the application of a 2dB penalty to the site only LAeq for the measurements taken at Wambo Road on 5 and 10 April 2022. Resulting LAeq noise levels both exceed the WML impact assessment criteria at Wambo Road by 2dB.

As described in Section 8, the Wambo Road results and MTW's response was reported to the Department of Planning and Environment.

The WML assessment for low frequency noise is shown in Table 7 and the MTO assessment for low frequency noise is shown in Table 8.

Table 7: Warkworth Low Frequency Noise Assessment – April 2022

Location	Date and Time	Measured WML LAeq dB	Criterion Applies?	Intermittency Modifying Factor?	Tonality Modifying Factor?	Frequency of Tonality ¹	Low- frequency Modifying Factor?	Maximum Exceedance of Reference Spectrum ^{1,2}	Penalty dB ²	Exceedance
Bulga RFS	5/04/2022 22:53	NM	No	NA	NA	NA	NA	NA	NA	NA
Bulga Village	5/04/2022 22:11	IA	Yes	No	No	NA	No	NA	Nil	NA
Gouldsville	5/04/2022 21:24	<25	No	NA	NA	NA	NA	NA	NA	NA
Inlet Rd	5/04/2022 21:21	27	No	NA	NA	NA	NA	NA	NA	NA
Inlet Rd West	5/04/2022 21:00	27	No	NA	NA	NA	NA	NA	NA	NA
Long Point	5/04/2022 21:00	IA	No	NA	NA	NA	NA	NA	NA	NA
South Bulga	5/04/2022 23:39	IA	No	NA	NA	NA	NA	NA	NA	NA
Wambo Road	5/04/2022 21:45	37	Yes	No	No	NA	Yes	4.7 dB @ 80	+2	Yes
Wambo Road ³	10/04/2022 23:36	37	Yes	No	No	NA	Yes	2.4 dB @ 80	+2	Yes
Wambo Road ³	20/04/2022 23:33	29	Yes	No	No	NA	No	NA	Nil	NA

Notes:

1. NA denotes 'not applicable'; and

2. Bold results indicate that application of NPfI modifying factor/s is required.

3. Followup measurement.

Table 8: Mount Thorley O	perations Low Frequenc	y Noise Assessment – April 2022
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Location	Date and Time	Measured WML LAeq dB	Criterion Applies?	Intermittency Modifying Factor?	Tonality Modifying Factor?	Frequency of Tonality ¹	Low-frequency Modifying Factor?	Maximum Exceedance of Reference Spectrum ^{1,2}	Penalty dB ²	Exceedance ²
Bulga RFS	5/04/2022 22:53	31	No	NA	NA	NA	NA	NA	NA	NA
Bulga Village	5/04/2022 22:11	32	Yes	No	No	NA	No	NA	Nil	NA
Gouldsville	5/04/2022 21:24	IA	No	NA	NA	NA	NA	NA	NA	NA
Inlet Rd	5/04/2022 21:21	IA	No	NA	NA	NA	NA	NA	NA	NA
Inlet Rd West	5/04/2022 21:00	IA	No	NA	NA	NA	NA	NA	NA	NA
Long Point	5/04/2022 21:00	IA	No	NA	NA	NA	NA	NA	NA	NA
South Bulga	5/04/2022 23:39	NM	No	NA	NA	NA	NA	NA	NA	NA
Wambo Road	5/04/2022 21:45	IA	Yes	No	No	NA	No	NA	Nil	NA
Wambo Road ³	10/04/2022 23:36	IA	Yes	No	No	NA	No	NA	Nil	NA
Wambo Road ³	20/04/2022 23:33	IA	Yes	No	No	NA	No	NA	Nil	NA

Notes:

1. NA denotes 'not applicable'; and

2. Bold results indicate that application of NPfI modifying factor/s is required.

3. Followup measurement.

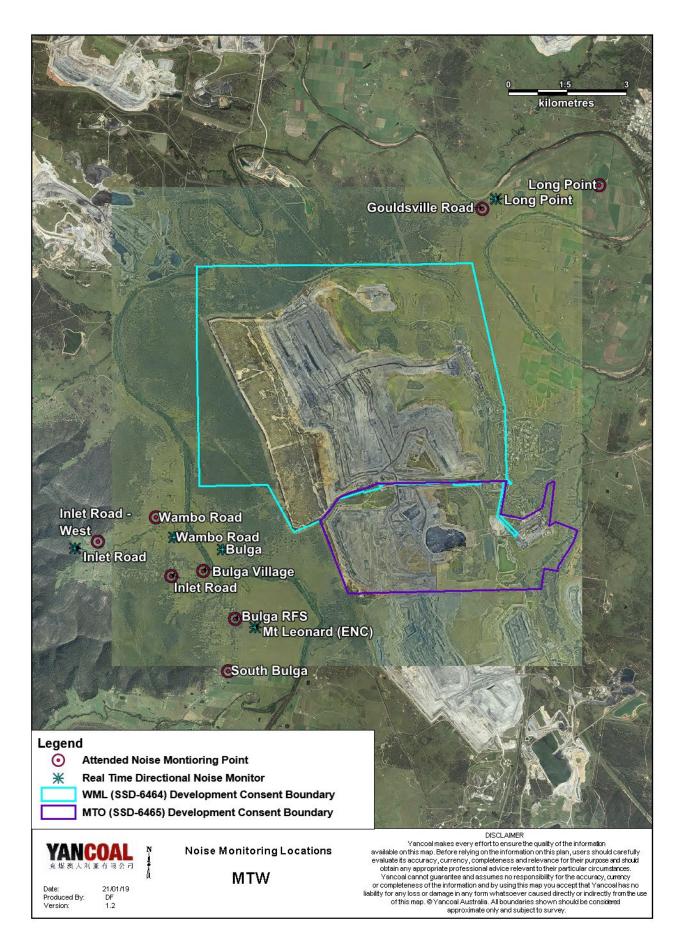


Figure 16: Noise Monitoring Location Plan

5.2 Noise Management Measures

A program of targeted supplementary attended noise monitoring is in place at MTW, supported by the realtime directional monitoring network and ensuring the highest level of noise management is maintained. The supplementary program is undertaken by MTW personnel and involves:

- Routine inspections from both inside and outside the mine boundary;
- Routine and as-required handheld noise assessments (undertaken in response to noise alarm and/or community complaint), comparing measured levels against consent noise limits; and
- Validation monitoring following operational modifications to assess the adequacy of the modifications.

Where a noise assessment identifies noise emissions which are exceeding the relevant noise limit(s) for any particular residence, modifications will be made to ensure that the noise event is resolved within 75 minutes of identification. The actions taken are commensurate with the nature and severity of the noise event, but can include:

- Changing the haul route to a less noise sensitive haul;
- Changing dump locations (in-pit or less exposed dump option);
- Reducing equipment numbers;
- Shut down of task; or
- Site shut down.

A summary of these assessments undertaken during April are provided in **Table 9**.

Table 9: Supplementary Attended Noise Monitoring Data – April 2022

No. of	No. of	No. of nights	%
assessments	assessments >	where	greater
	trigger	assessments	than
		> trigger	trigger

Note: Measurements are taken under all meteorological conditions, including conditions under which the consent noise criteria do not apply.

6.0 OPERATIONAL DOWNTIME

During April, a total of 462 hours of equipment downtime was logged in response to environmental events such as dust, noise and adverse meteorological conditions. Operational downtime by equipment type is shown in **Figure 17**.

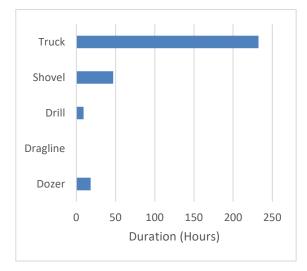


Figure 17: Operational Downtime by Equipment Type – April 2022

7.0 REHABILITATION

During April 2022, 3.66 Ha of land was released, 8.88 Ha was bulk shaped and 2.52 Ha was composted.

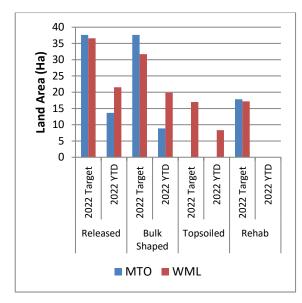


Figure 18: Rehabilitation YTD - April 2022

8.0 ENVIRONMENTAL INCIDENTS

There was one environmental incident recorded during the reporting period.

An exceedance of the WML Impact Assessment criteria was recorded at the Wambo Road monitoring location on 5 April 2022 starting at 21:45. A mining continuum from WML was audible throughout the measurement, generating a site only LAeq of 37dB. A low-frequency modifying factor of +2dB was applicable in accordance with the NPfI, resulting in an adjusted site-only LAeq of 39 dB, which exceeded the relevant criterion by 1dB.

During an initial follow up measurement at the Wambo Road monitoring location on 10 April 2022 starting at 23:36, a mining continuum was audible throughout the measurement, generating a s site only LAeq of 37dB. A low-frequency modifying factor of +2 dB was also applicable in accordance with the NPfI, resulting in an adjusted site-only LAeq of 39 dB which exceeded the relevant criterion by 1dB. During a second follow up measurement at the Wambo Road monitoring location on 20 April 2022 starting at 23:33, a site only LAeq measurement of 29dB was recorded, which complied with the relevant criterion.

In accordance with the approved Noise Management Plan process, after the conclusion of the entire noise monitoring survey's on 6 April 2022 at 00:10am and 11 April 2022 at 00:05am, the noise consultant advised MTW of the potential noise exceedances at the Wambo Road location. MTW responded by attending the Wambo Road area and conducted supplementary monitoring within approximately half an hour of being advised. Supplementary monitoring was all below the relevant criterion. No operational changes were therefore enacted in response to the supplementary noise monitoring.

The Department of Planning and Environment was notified in writing of the exceedance measurement on 6 April 2022. A written report was also provided to DPE on 14 April 2022.

9.0 COMPLAINTS

14 complaints were received during the reporting period. Details of these complaints are shown in **Table 10** below.

Table 10: Complaints Summary YTD

	Noise	Dust	Blast	Lighting	Other	Total
January	2	1	4	0	0	7
February	7	0	5	0	1	13
March	8	0	3	0	0	11
April	1	0	7	6	0	14
May						
June						
July						
August						
September						
October						
November						
December						
Total	18	1	19	6	1	45

Appendix A: Meteorological Data

Date	Air Temperature		Relative Humidity		Wind Direction	Wind Speed	Rainfall
Date	Maximum (°C)	Minimum (°C)	Maximum (%)	Minimum (%)	Average (°)	Average (m/sec)	total (mm)
1/04/2022	20	11	73	61	195	5.0	0.0
2/04/2022	22	10	94	51	245	1.8	0.0
3/04/2022	25	9	100	31	273	2.7	0.0
4/04/2022	27	8	92	36	259	2.6	0.0
5/04/2022	28	8	97	32	183	1.8	0.0
6/04/2022	27	10	100	53	170	3.5	0.0
7/04/2022	21	12	100	79	162	4.0	20.4
8/04/2022	25	11	100	53	131	3.4	2.0
9/04/2022	25	12	100	59	138	2.8	0.0
10/04/2022	26	11	100	49	145	1.8	0.0
11/04/2022	29	10	100	43	234	2.0	0.0
12/04/2022	24	13	96	57	174	2.9	0.0
13/04/2022	20	10	100	71	166	3.3	6.2
14/04/2022	23	9	100	54	167	2.9	0.0
15/04/2022	25	6	100	45	160	2.0	0.2
16/04/2022	23	7	100	54	201	1.7	0.0
17/04/2022	25	7	100	41	181	1.7	0.0
18/04/2022	27	6	100	40	222	1.9	0.2
19/04/2022	27	9	100	40	200	2.4	1.2
20/04/2022	23	9	97	49	290	4.0	0.0
21/04/2022	24	4	100	39	204	2.5	0.0
22/04/2022	20	9	100	73	167	3.4	2.2
23/04/2022	21	8	100	59	147	2.8	0.2
24/04/2022	21	9	100	65	171	2.6	1.0
25/04/2022	22	8	99	59	175	3.0	0.2
26/04/2022	20	9	100	74	164	2.4	1.8
27/04/2022	18	8	100	88	198	1.9	3.8
28/04/2022	21	11	100	82	186	1.0	1.0
29/04/2022	27	11	100	55	196	1.4	0.2
30/04/2022	21	7	100	76	260	2.3	5.8

Table 11: Meteorological Data – Charlton Ridge Meteorological Station – April 2022