



Monthly Environmental Monitoring Report

Yancoal Mount Thorley Warkworth
February 2024

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Revision History

Version No.	Version Details	Date
1.0	Final	17/05/2024

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 February to 29 February 2024.

2.0 AIR QUALITY

2.1 Meteorological Monitoring

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

2.1.1 Rainfall

Rainfall for the reporting period is summarised in **Table 1**. The year-to-date monthly rainfall totals, 2024 monthly rainfall totals and historical average monthly rainfall trend are shown in **Figure 1**.

Table 1: Monthly Rainfall MTW

2024	Monthly Rainfall (mm)	Cumulative Rainfall (mm)
February	62.6	100.8

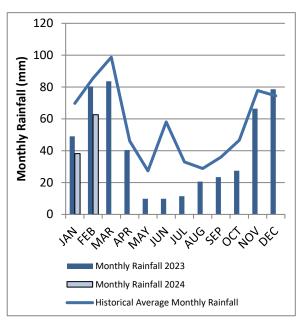


Figure 1: Rainfall Trend YTD

Note: The historical average monthly rainfall is calculated from 2007 to 2023 monthly totals.

2.1.2 Wind Speed and Direction

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

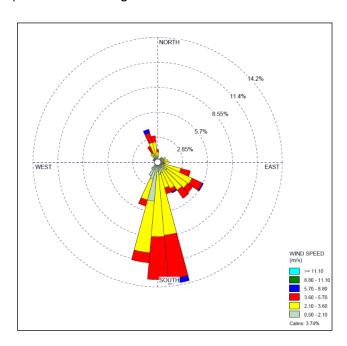


Figure 2: Charlton Ridge Wind Rose - February 2024

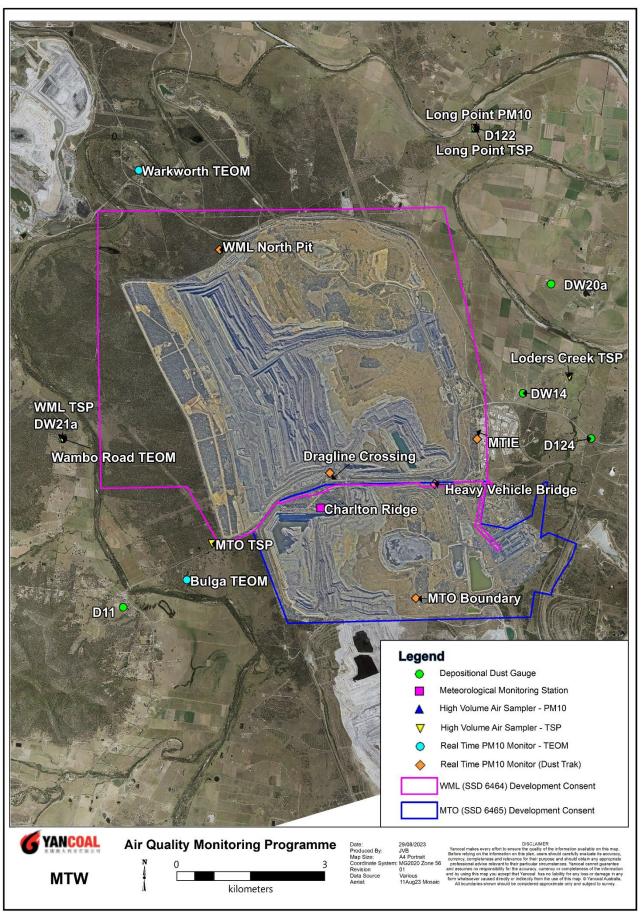


Figure 3: Air Quality Monitoring Locations

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/m2 per month. There is no evidence to suggest that the 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 2024 Annual Review Report.

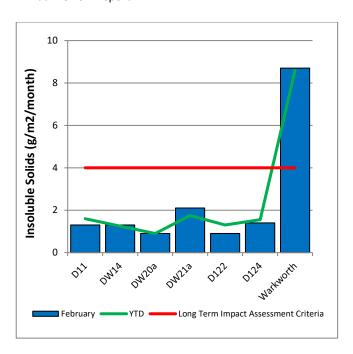


Figure 4: Depositional Dust - February 2024

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 μ 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 $50\mu g/m^3$.

On 5 February 2024 the Long Point HVAS PM10 unit recorded a result of 65 $\mu g/m^3$, which is greater than the short term (24hr) PM10 impact assessment criteria. The measurement was assessed for MTW's potential contribution based on meteorological conditions and background PM₁₀ levels on this day resulting in a maximum estimated contribution of 25.5 $\mu g/m^3$, less than a 40% contribution to the result. Accordingly, no further action is required (as per approved Air Quality Monitoring Programme).

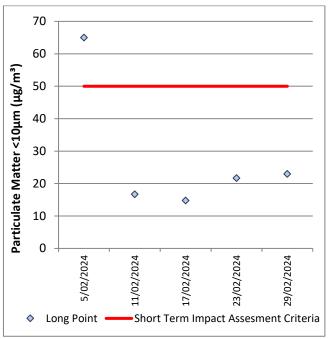


Figure 5: Individual PM10 Results - February 2024

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 2024 Annual Review Report.

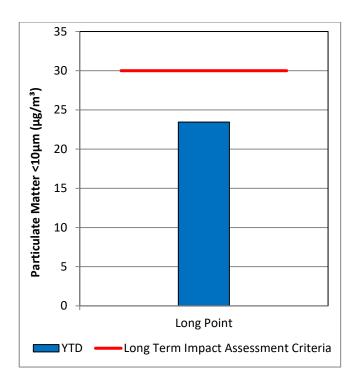


Figure 6: Annual Average PM₁₀ - February 2024

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 2024 Annual Review Report.

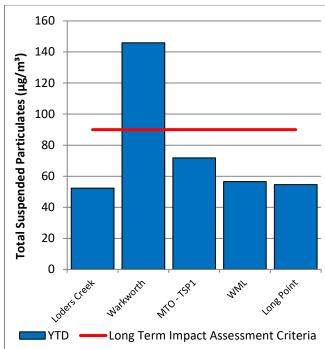


Figure 7: Annual Average Total Suspended Particulates – February 2024

2.3.3 Real Time PM₁₀ Results

MTW maintains a network of real time PM_{10} 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.

On 4 February 2024, the Warkworth TEOM (56.9 $\mu g/m^3$) exceeded the short term (24hr) criteria. The measurement was assessed for MTW's potential contribution based on meteorological conditions on this day resulting in a maximum estimated contribution of 19.2 $\mu g/m^3$, less than a 34% contribution to the result. Accordingly, no further action is required (as per approved Air Quality Monitoring Programme).

On 5 February 2024, the Warkworth TEOM (54.8 $\mu g/m^3$) exceeded the short term (24hr) criteria. The measurement was assessed for MTW's potential contribution based on meteorological conditions and background PM_{10} levels on this day resulting in a maximum estimated contribution of 13.3 $\mu g/m^3$, less than a 26% contribution to the result. Accordingly,

7

no further action is required (as per approved Air Quality Monitoring Programme).

Data from the Wambo Monitor was not available on 10, 11, 12, 14 and 19 February due to equipment issues. Data from the Warkworth monitor was not available on 27 February due to equipment issues.

2.3.4 Real Time Alarms for Air Quality

During February, the real time monitoring system generated 86 automated air quality related alerts, including 10 alerts for adverse meteorological conditions and 76 alerts for elevated $\rm PM_{10}$ levels

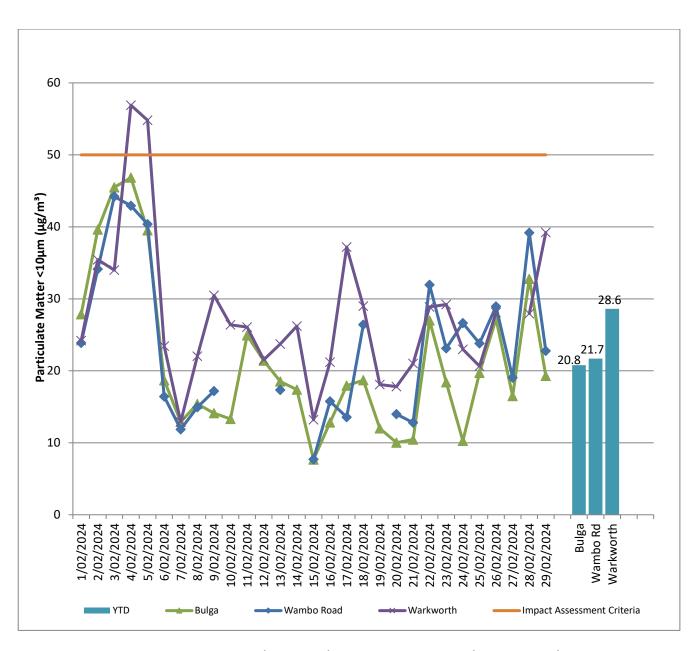


Figure 8: Real Time PM₁₀ daily 24hr average (line graphs) and YTD annual average (column graphs) – February 2024

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 March 2024 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.

MTW did not undertake any HRSTS discharges in the reporting period.

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 March 2024 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

During February 2024, 16 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.

Table 2: Blasting Limits

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) 5	Comments 5% of the total number of blasts in a 12 month period at WML or MTO
	5% of the total number of blasts in a 12

During the reporting period no blasts exceeded the 5mm/s criteria for ground vibration, or the 115dB(L) threshold for airblast overpressure.

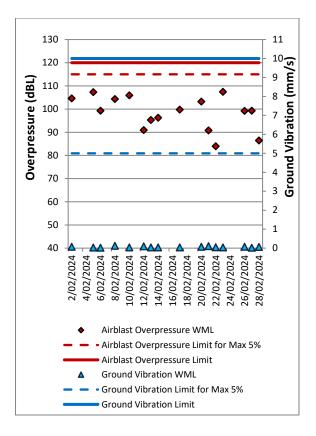


Figure 9: Abbey Green Blast Monitoring Results – February 2024

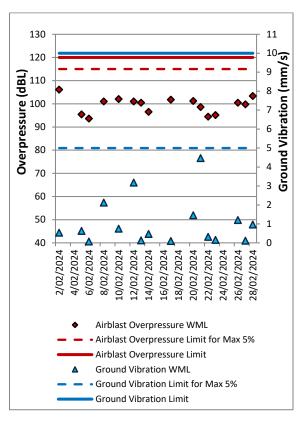


Figure 10: Bulga Village Blast Monitoring Results – February 2024

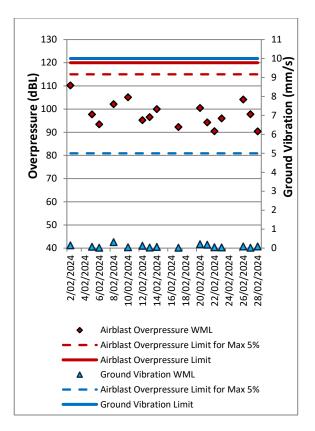


Figure 11: MTIE Blast Monitoring Results - February 2024

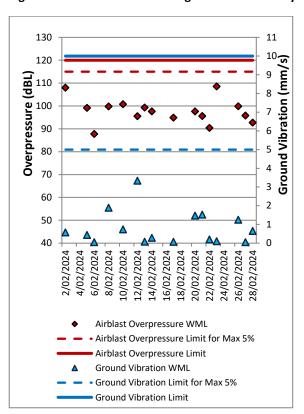


Figure 12: Wollemi Peak Road Blast Monitoring Results – February 2024

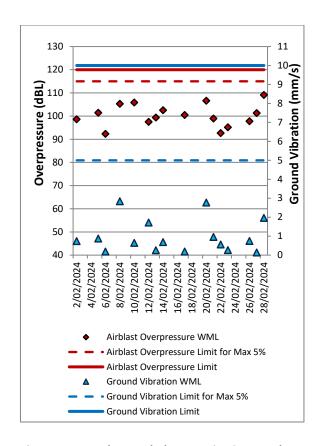


Figure 13: Wambo Road Blast Monitoring Results – February 2024

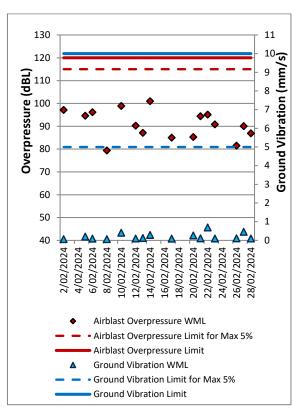


Figure 14: Warkworth Blast Monitoring Results – February 2024



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 1, 7 and 8 February 2024. Measurements complied with the relevant criteria, with the exception of WML levels at Inlet Road, where noise levels were increased by the applicability of a low frequency modifying factor (refer to **Table 7**). Follow up monitoring conducted on 7 February 2024 (as required by the MTW Noise Management Plan) complied with the relevant criteria at the remeasured location, although due to reduced operations caused by wet weather, additional follow up monitoring was scheduled. Further follow up monitoring conducted on 8 February 2024 complied with the relevant criteria at the remeasured location. Results are detailed in **Table 5** to **Table 8**.

5.1.1 WML Noise Assessment

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

Table 3: LAeq, 15 minute Warkworth Impact Assessment Criteria – February 2024

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	1/02/2024 23:25	0.2	E	37	Yes	30	Nil
Bulga Village	1/02/2024 22:43	1.4	E	38	Yes	33	Nil
Gouldsville	1/02/2024 21:21	0.3	F	38	Yes	<25	Nil
Inlet Road	1/02/2024 21:50	1.6	E	37	Yes	38	+1
Inlet Road ⁵	7/02/2024 21:07	2.1	E	37	Yes	IA	Nil
Inlet Road 5	8/02/2024 22:45	2.0	E	37	Yes	IA	Nil
Inlet Road West	1/02/2024 21:21	0.3	F	35	Yes	35	Nil
Long Point	1/02/2024 21:00	0.8	F	35	Yes	IA	Nil
South Bulga	2/02/2024 0:21	0.3	D	35	Yes	IA	Nil
Wambo Road	1/02/2024 22:19	1.7	E	38	Yes	33	Nil

Notes:

Table 4: LA1, 1 minute Warkworth - Impact Assessment Criteria - February 2024

Stability WML LA1, 1min Wind Speed Criterion Criterion Location **Date and Time** Exceedance^{3,4} (m/s) Class dB(A) Applies?1 $dB^{2,3}$ 1/02/2024 23:25 0.2 Ε 47 Nil **Bulga RFS** Yes 32 Ε Bulga Village 1/02/2024 22:43 1.4 48 Yes 37 Nil Gouldsville F 1/02/2024 21:21 0.3 48 <25 Nil Yes Inlet Road 1/02/2024 21:50 1.6 Ε 47 Yes 44 Nil Inlet Road 5 7/02/2024 21:07 2.1 Ε 47 Yes ΙA Nil Inlet Road 5 8/02/2024 22:45 2 Ε 47 Yes IΑ Nil

^{1.} Noise criteria apply during all meteorological conditions except the following: 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 2 m/s at 10m above ground level; or stability category 6 temperature inversion conditions. Criterion may or may not apply due to rounding of meteorological data values; 2. Site-only Leaq.15minute attributed to WML, including modifying factors if applicable;

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

^{3.} Both resurts in inducte executive by recent citizenin, and 4. NA in exceedance column means atmospheric conditions outside conditions specified in consent, therefore criterion was not applicable.
5. Follow up measurement within one week of measured exceedance.

Inlet Road West	1/02/2024 21:21	0.3	F	45	Yes	39	Nil
Long Point	1/02/2024 21:00	0.8	F	45	Yes	IA	Nil
South Bulga	2/02/2024 0:21	0.3	D	45	Yes	IA	Nil
Wambo Road	1/02/2024 22:19	1.7	E	48	Yes	35	Nil

5.1.2 MTO Noise Assessment

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

Table 5: LAeq, 15minute Mount Thorley - Impact Assessment Criteria - February 2024

Location	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB	Criterion Applies? ¹	MTO L_{Aeq} dB ^{2,3}	Exceedance ^{3,4}
Bulga RFS	1/02/2024 23:25	0.2	Е	37	Yes	35	Nil
Bulga Village	1/02/2024 22:43	1.4	E	38	Yes	<30	Nil
Gouldsville	1/02/2024 21:21	0.3	F	35	Yes	IA	Nil
Inlet Road	1/02/2024 21:50	1.6	E	37	Yes	<30	Nil
Inlet Road ⁵	7/02/2024 21:07	2.1	E	37	Yes	IA	Nil
Inlet Road ⁵	8/02/2024 22:45	2	E	37	Yes	IA	Nil
Inlet Road West	1/02/2024 21:21	0.3	F	35	Yes	IA	Nil
Long Point	1/02/2024 21:00	0.8	F	35	Yes	IA	Nil
South Bulga	2/02/2024 0:21	0.3	D	36	Yes	33	Nil
Wambo Road	1/02/2024 22:19	1.7	E	38	Yes	IA	Nil

Table 6: LA1, 1Minute Mount Thorley - Impact Assessment Criteria - February 2024

Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB	Criterion Applies? ¹	MTO L _{A1, 1min} dB ^{2,3}	Exceedance ^{3,4}
1/02/2024 23:25	0.2	E	47	Yes	41	Nil
1/02/2024 22:43	1.4	E	48	Yes	35	Nil
1/02/2024 21:21	0.3	F	45	Yes	IA	Nil
1/02/2024 21:50	1.6	E	47	Yes	<30	Nil
7/02/2024 21:07	2.1	E	47	Yes	IA	Nil
8/02/2024 22:45	2	E	47	Yes	IA	Nil
1/02/2024 21:21	0.3	F	45	Yes	IA	Nil
1/02/2024 21:00	0.8	F	45	Yes	IA	Nil
2/02/2024 0:21	0.3	D	46	Yes	38	Nil
1/02/2024 22:19	1.7	E	48	Yes	IA	Nil
	1/02/2024 23:25 1/02/2024 22:43 1/02/2024 21:21 1/02/2024 21:50 7/02/2024 21:07 8/02/2024 22:45 1/02/2024 21:21 1/02/2024 21:00 2/02/2024 0:21	Date and Time (m/s) 1/02/2024 23:25 0.2 1/02/2024 22:43 1.4 1/02/2024 21:21 0.3 1/02/2024 21:50 1.6 7/02/2024 21:07 2.1 8/02/2024 22:45 2 1/02/2024 21:21 0.3 1/02/2024 21:00 0.8 2/02/2024 0:21 0.3	Date and Time (m/s) Class 1/02/2024 23:25 0.2 E 1/02/2024 22:43 1.4 E 1/02/2024 21:21 0.3 F 1/02/2024 21:50 1.6 E 7/02/2024 21:07 2.1 E 8/02/2024 22:45 2 E 1/02/2024 21:21 0.3 F 1/02/2024 21:00 0.8 F 2/02/2024 0:21 0.3 D	Date and Time (m/s) Class dB 1/02/2024 23:25 0.2 E 47 1/02/2024 22:43 1.4 E 48 1/02/2024 21:21 0.3 F 45 1/02/2024 21:50 1.6 E 47 7/02/2024 21:07 2.1 E 47 8/02/2024 22:45 2 E 47 1/02/2024 21:21 0.3 F 45 1/02/2024 21:00 0.8 F 45 2/02/2024 0:21 0.3 D 46	Date and Time (m/s) Class dB Applies?¹ 1/02/2024 23:25 0.2 E 47 Yes 1/02/2024 22:43 1.4 E 48 Yes 1/02/2024 21:21 0.3 F 45 Yes 1/02/2024 21:50 1.6 E 47 Yes 7/02/2024 21:07 2.1 E 47 Yes 8/02/2024 22:45 2 E 47 Yes 1/02/2024 21:21 0.3 F 45 Yes 1/02/2024 21:00 0.8 F 45 Yes 2/02/2024 0:21 0.3 D 46 Yes	Date and Time (m/s) Class dB Applies?¹ dB²₃³ 1/02/2024 23:25 0.2 E 47 Yes 41 1/02/2024 22:43 1.4 E 48 Yes 35 1/02/2024 21:21 0.3 F 45 Yes IA 1/02/2024 21:50 1.6 E 47 Yes 30 7/02/2024 21:07 2.1 E 47 Yes IA 8/02/2024 22:45 2 E 47 Yes IA 1/02/2024 21:21 0.3 F 45 Yes IA 1/02/2024 21:20 0.8 F 45 Yes IA 2/02/2024 0:21 0.3 D 46 Yes 38

^{1.} Noise criteria apply during all meteorological conditions except the following: 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;

Bold results in red indicate exceedance of relevant criterion; and
 NA in exceedance column means atmospheric conditions outside conditions specified in consent, therefore criterion was not applicable.

^{5.} Follow up measurement within one week of measured exceedance.

^{1.} Noise criteria apply during all meteorological conditions except the following: 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.} Follow up measurement within one week of measured exceedance.

^{1.} Noise criteria apply during all meteorological conditions except the following: 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.} Follow up measurement within one week of measured exceedance.

5.1.3 NPfI 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. There were no noise measurements taken during the reporting period which required the penalty to be applied. 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 – February 2024

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
Bulga RFS	1/02/2024 23:25	30	Yes	No	No	N/A	No	N/A	Nil
Bulga Village	1/02/2024 22:43	33	Yes	No	No	N/A	No	N/A	Nil
Gouldsville	1/02/2024 21:21	<25	Yes	No	No	N/A	No	N/A	Nil
Inlet Road	1/02/2024 21:50	36	Yes	No	No	N/A	Yes	1 dB @ 80 Hz	2
Inlet Road ³	7/02/2024 21:07	IA	Yes	No	No	N/A	No	N/A	Nil
Inlet Road ³	8/02/2024 22:45	IA	Yes	No	No	N/A	No	N/A	Nil
Inlet Road West	1/02/2024 21:21	35	Yes	No	No	N/A	No	N/A	Nil
Long Point	1/02/2024 21:00	IA	Yes	No	No	N/A	No	N/A	Nil
South Bulga	2/02/2024 0:21	IA	Yes	No	No	N/A	No	N/A	Nil
Wambo Road	1/02/2024 22:19	33	Yes	No	No	N/A	No	N/A	Nil

Notes:

^{1.} NA denotes 'not applicable'; and

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

^{3.} Follow up measurement within one week of measured exceedance.

Table 8: Mount Thorley Operations Low Frequency Noise Assessment – February 2024

Location	Date and Time	Measured MTO 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
Bulga RFS	1/02/2024 23:25	35	Yes	No	No	N/A	No	N/A	Nil
Bulga Village	1/02/2024 22:43	<30	Yes	No	No	N/A	No	N/A	Nil
Gouldsville	1/02/2024 21:21	IA	Yes	No	No	N/A	No	N/A	Nil
Inlet Road	1/02/2024 21:50	<30	Yes	No	No	N/A	No	N/A	Nil
Inlet Road ³	7/02/2024 21:07	IA	Yes	No	No	N/A	No	N/A	Nil
Inlet Road ³	8/02/2024 22:45	IA	Yes	No	No	N/A	No	N/A	Nil
Inlet Road West	1/02/2024 21:21	IA	Yes	No	No	N/A	No	N/A	Nil
Long Point	1/02/2024 21:00	IA	Yes	No	No	N/A	No	N/A	Nil
South Bulga	2/02/2024 0:21	33	Yes	No	No	N/A	No	N/A	Nil
Wambo Road	1/02/2024 22:19	IA	Yes	No	No	N/A	No	N/A	Nil

Notes:

^{1.} NA denotes 'not applicable'; and

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

^{3.} Follow up measurement within one week of measured exceedance.

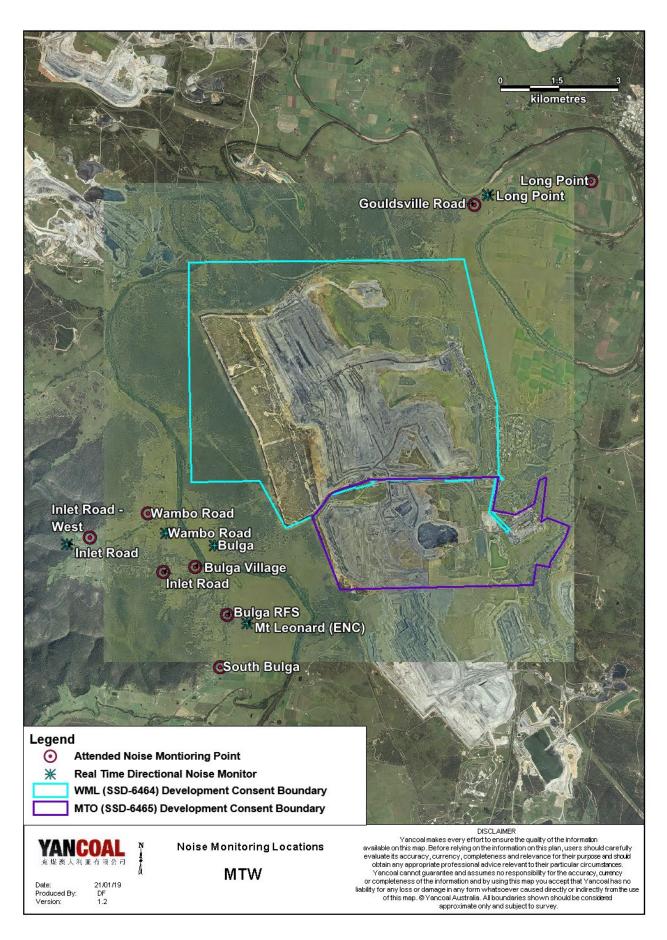


Figure 16: Noise Monitoring Location Plan

5.2 Noise Management Measures

A program of targeted supplementary attended noise monitoring is in place at MTW, supported by the real-time 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 February are provided in **Table 9**.

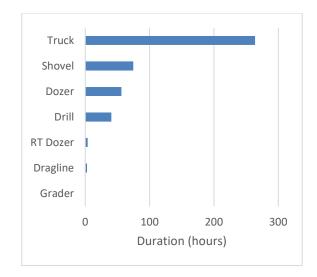
Table 9: Supplementary Attended Noise Monitoring Data – February 2024

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

6.0 OPERATIONAL DOWNTIME

During February, a total of 441.7 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 – February 2024



7.0 REHABILITATION

During February 2024, 1.37 Ha of land was released, 5.49 Ha was bulk shaped and 4.77 Ha was top soiled

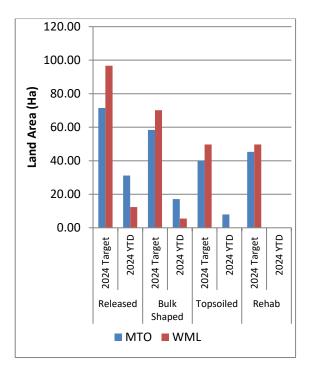


Figure 18: Rehabilitation YTD - February 2024

8.0 ENVIRONMENTAL INCIDENTS

There was one environmental incident recorded during the reporting period.

An exceedance of the WML noise criterion was recorded at the Inlet Road monitoring location on 1 February 2024 starting at 21:50. A mining continuum from WML was audible throughout the measurement, generating a site only LAeq of 36dB. A low frequency modifying factor of +2dB was applicable in accordance with the NPfi, resulting in an adjusted site-only LAeq of 38dB, which exceeded the relevant criterion by 1dB. In accordance with the approved Noise Management Plan process, after the conclusion of the entire noise monitoring survey on the 2 February 2024 at 00:40am, the noise consultant advised MTW of the potential noise exceedances at the Inlet Road location. MTW had already been undertaking supplementary noise readings and had and had attended the Inlet Road monitoring location at 1/2/2024 21:50 and had implemented operational controls prior to attending the Inlet Road area for a second supplementary noise monitoring event at 1/2/2024 22:40, which was 4 dB below the relevant criterion. No further operational changes were therefore necessary in response to the second supplementary noise monitoring at the Inlet Road location. During follow up measurement at the Inlet Road monitoring location on 7 February 2024 starting at 21:07, site only LAeq measurement was recorded as inaudible, thereby complying with the relevant criterion. It was identified at the completion of monitoring that reduced operations were in effect at MTW due to wet weather and so additional follow up monitoring was scheduled. During a second follow up measurement at the Inlet Road monitoring location on 8 February 2024 starting at 22:45, site only LAeq measurement was recorded as inaudible, thereby complying with the relevant criterion.

The Department of Planning and Environment was notified in writing of the exceedance measurement on 2 February 2024. A written report was also provided to DPE on 8 February 2024. The private residences within the Inlet Road representative monitoring area were also notified of the noise exceedance, and of the follow up noise monitoring which complied with the noise criterion.

9.0 COMPLAINTS

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

Table 10: Complaints Summary YTD

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

Appendix A: Meteorological Data

Table 11: Meteorological Data – Charlton Ridge Meteorological Station – February 2024

Date	Air Temperature		Relative Humidity		Wind Direction	Wind Speed	Rainfall
Date	Maximum (°C)	Minimum (°C)	Maximum (%)	Minimum (%)	Average (°)	Average (m/sec)	total (mm)
1/02/2024	33	20	88	39	166	2.2	0.0
2/02/2024	40	19	95	13	172	2.7	0.0
3/02/2024	32	18	82	38	127	3.0	0.0
4/02/2024	42	18	91	19	189	2.1	0.0
5/02/2024	37	25	78	35	188	2.2	0.0
6/02/2024	28	16	100	72	176	2.7	22.0
7/02/2024	19	14	100	87	175	2.3	6.6
8/02/2024	23	15	100	56	159	3.2	0.0
9/02/2024	29	15	93	38	162	2.8	0.0
10/02/2024	26	17	99	45	166	5.0	0.0
11/02/2024	24	17	92	63	150	3.1	0.0
12/02/2024	33	15	99	33	150	1.6	0.0
13/02/2024	35	17	100	28	179	1.7	0.0
14/02/2024	36	17	100	30	220	2.8	14.4
15/02/2024	23	17	100	77	180	3.4	0.4
16/02/2024	31	17	98	48	148	3.2	0.0
17/02/2024	33	18	100	42	185	2.2	0.4
18/02/2024	33	16	100	33	186	2.1	9.4
19/02/2024	25	17	100	58	169	2.4	0.2
20/02/2024	24	16	100	65	162	2.7	7.0
21/02/2024	30	17	99	45	168	2.6	0.0
22/02/2024	34	18	97	39	170	1.5	0.0
23/02/2024	39	21	97	27	237	3.2	0.0
24/02/2024	22	17	98	79	174	4.0	0.6
25/02/2024	29	17	94	47	147	2.2	0.0
26/02/2024	35	16	100	26	194	2.2	0.0
27/02/2024	27	18	99	61	162	3.4	0.6
28/02/2024	34	19	99	42	129	1.8	0.0
29/02/2024	41	21	96	24	228	3.2	1.0