



Monthly Environmental Monitoring Report Yancoal Mount Thorley Warkworth May 2023

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Revision History

Version No.	Version Details	Date
1.0	Final	14/08/2023

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 May to 31 May 2023.

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, 2023 monthly rainfall totals and historical average monthly rainfall trend are shown in **Figure 1**.

2.1.2 Wind Speed and Direction

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

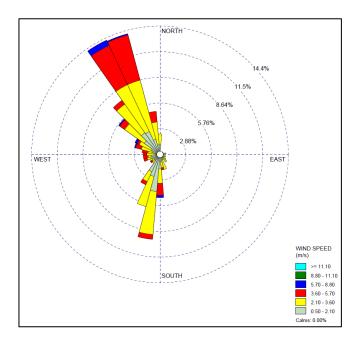


Figure 2: Charlton Ridge Wind Rose – May 2023

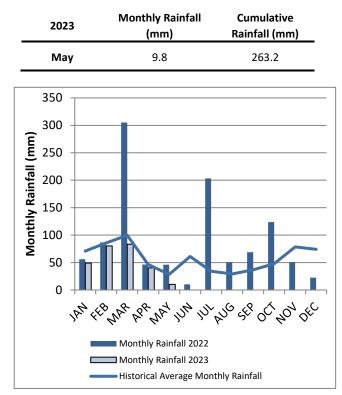


Figure 1: Rainfall Trend YTD

Note: The historical average monthly rainfall is calculated from 2007 to 2022 monthly totals.

Table 1: Monthly Rainfall MTW

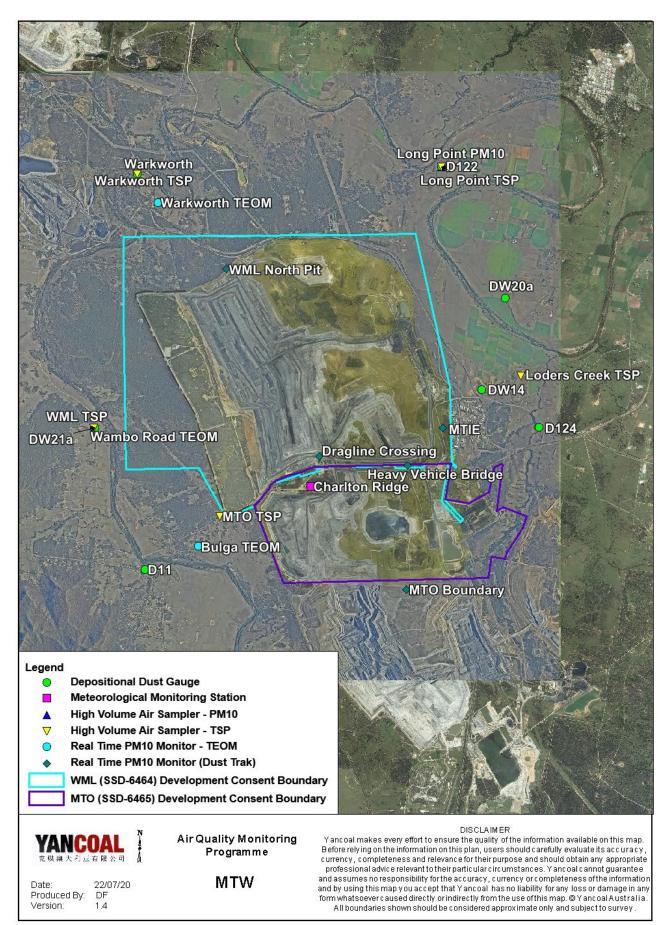


Figure 3: Air Quality Monitoring Locations

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 and DW14 monitors recorded monthly results above the long-term impact assessment criteria of 4.0 g/m2 per month. There is no evidence to suggest that the Warkworth or DW14 results are contaminated. Accordingly, the results 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 2023 Annual Review Report.

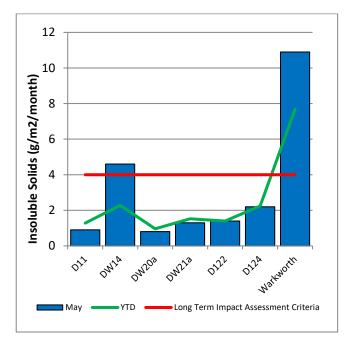


Figure 4: Depositional Dust – May 2023

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 $50\mu g/m^3$.

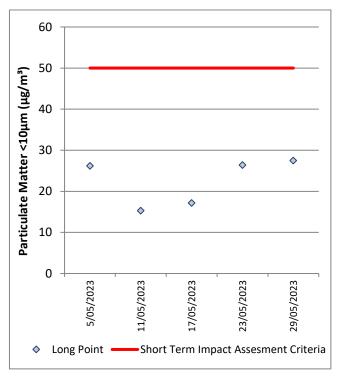


Figure 5: Individual PM10 Results – May 2023

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 2023 Annual Review Report.

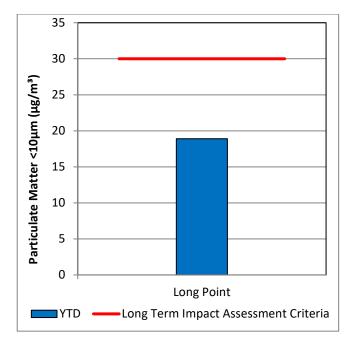


Figure 6: Annual Average PM₁₀ – May 2023

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 2023 Annual Review Report.

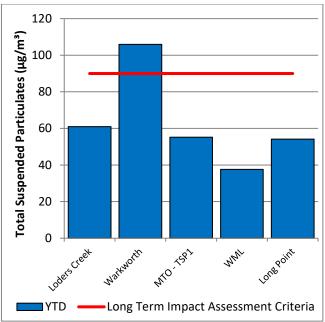


Figure 7: Annual Average Total Suspended Particulates – May 2023

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.

On 25 May 2023, the Warkworth OEH TEOM (54.8ug/m³) 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 0.4 ug/m³, less than a 1% contribution to the result. Accordingly, no further action is required (as per approved Air Quality Monitoring Programme).

On 31 May 2023, the Warkworth OEH TEOM (50.8ug/m³) exceeded the short term (24hr) criteria. The measurement was assessed for MTW's potential contribution based on meteorological conditions on this day. It was determined that the wind direction was not from MTW's angle of influence on this day and so that MTW did not contribute to the result. Accordingly, no further action is required.

Data was not available on 22 and 23 May from the Warkworth monitor or on 30 and 31 May from the Wambo Road monitor due to equipment issues/annual calibration.

2.3.4 Real Time Alarms for Air Quality

During May, the real time monitoring system generated 116 automated air quality related alerts, including 14 alerts for adverse meteorological conditions and 102 alerts for elevated PM_{10} levels

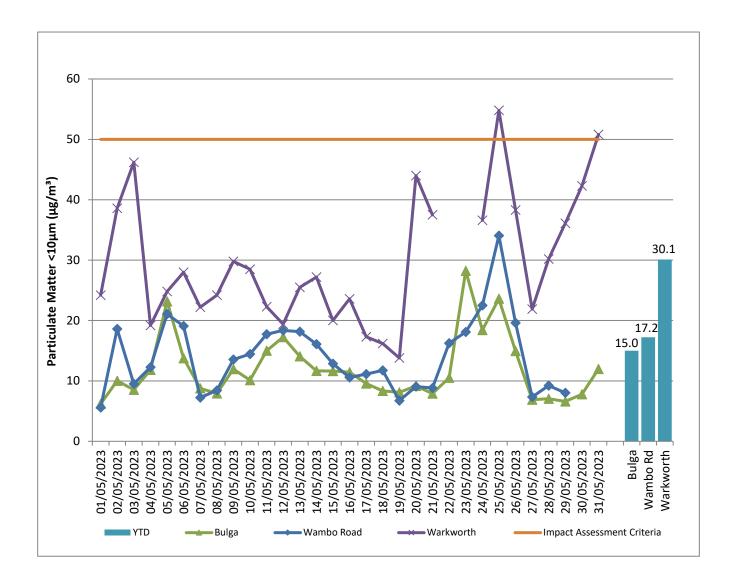


Figure 8: Real Time PM₁₀ daily 24hr average (line graphs) and YTD annual average (column graphs) – May 2023

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 2023 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 June 2023 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 May 2023, 18 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)	Comments 5% of the total number of blasts in a 12 month period at WML or MTO						

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

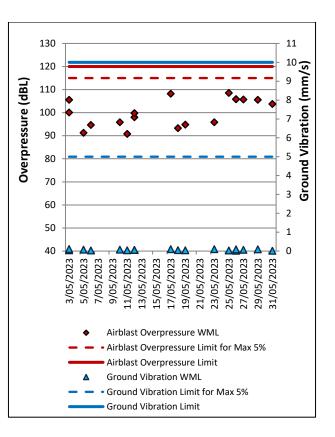


Figure 9: Abbey Green Blast Monitoring Results – May 2023

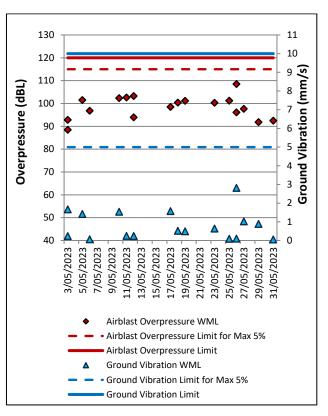


Figure 10: Bulga Village Blast Monitoring Results – May 2023

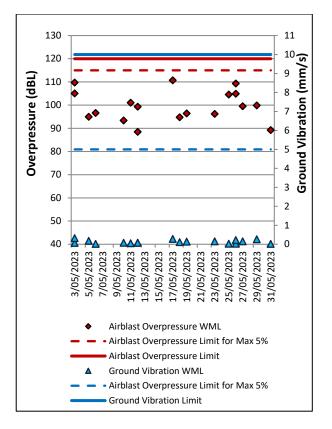


Figure 11: MTIE Blast Monitoring Results – May 2023

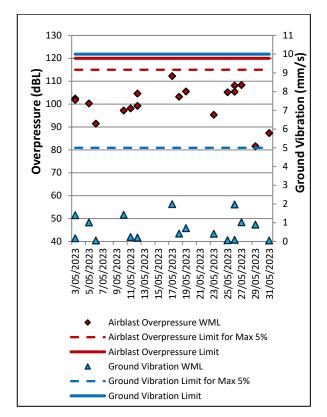


Figure 12: Wollemi Peak Road Blast Monitoring Results – May 2023

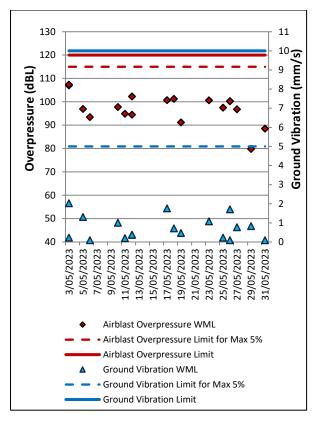


Figure 13: Wambo Road Blast Monitoring Results – May 2023

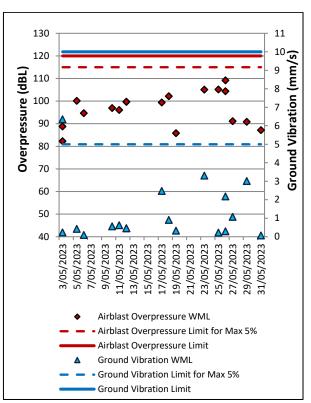


Figure 14: Warkworth Blast Monitoring Results - May 2023

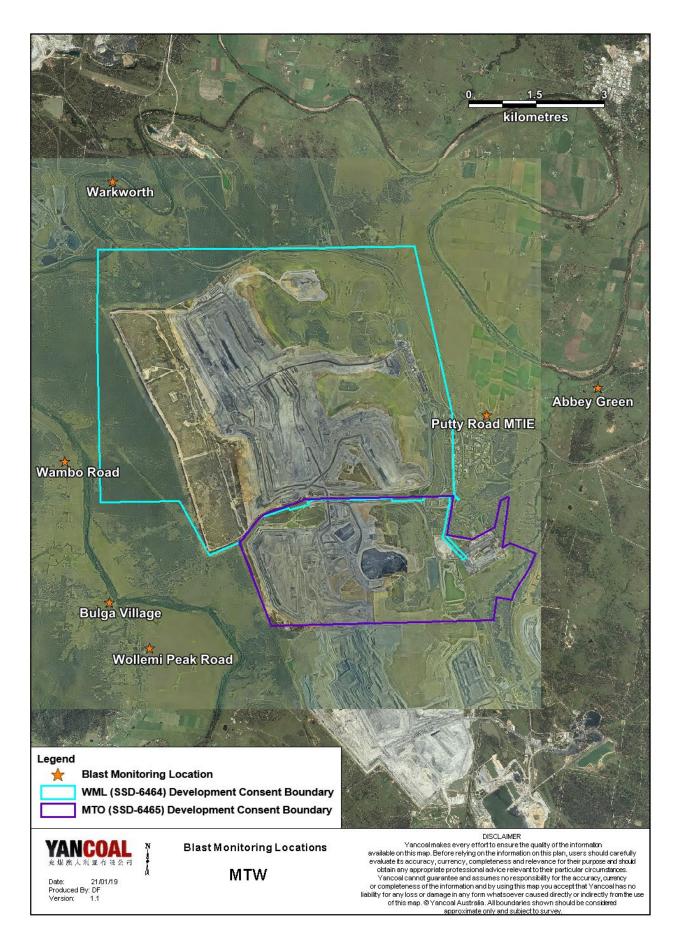


Figure 15: MTW Blast Monitoring Location Plan

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 4 May and 10 May 2023. Measurements complied with the relevant criteria.

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 – May 2023

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	4/05/2023 23:01	1.8	D	37	Yes	32	Nil
Bulga Village	4/05/2023 22:08	2.0	D	38	Yes	35	Nil
Gouldsville	4/05/2023 21:21	2.4	D	38	Yes	<25	Nil
Inlet Rd	4/05/2023 21:43	2.2	E	37	Yes	30	Nil
Inlet Rd West	4/05/2023 21:15	2.4	D	35	Yes	26	Nil
Long Point	4/05/2023 21:00	2.4	E	35	Yes	IA	Nil
South Bulga	10/05/2023 21:36	1.3	E	35	Yes	IA	Nil
Wambo Road	4/05/2023 22:34	1.8	D	38	Yes	36	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 areater 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.

Table 4: LA1, 1 minute Warkworth - Impact Assessment Criteria – May 2023

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	4/05/2023 23:01	1.8	D	47	Yes	47	Nil
Bulga Village	4/05/2023 22:08	2.0	D	48	Yes	42	Nil
Gouldsville	4/05/2023 21:21	2.4	D	48	Yes	26	Nil
Inlet Rd	4/05/2023 21:43	2.2	E	47	Yes	35	Nil
Inlet Rd West	4/05/2023 21:15	2.4	D	45	Yes	28	Nil
Long Point	4/05/2023 21:00	2.4	E	45	Yes	IA	Nil
South Bulga	10/05/2023 21:36	1.3	E	45	Yes	IA	Nil
Wambo Road	4/05/2023 22:34	1.8	D	48	Yes	44	Nil

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 areater than 3 m/s measured at 10 metres above ground level; stability category F temperature inversion conditions and wind speed 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;

Solid 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.

5.1.2 MTO Noise Assessment

Location	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB	Criterion Applies? ¹	MTO L _{Aeq} dB ^{2,3}	Exceedance ^{3,}
Bulga RFS	4/05/2023 23:01	1.8	D	37	Yes	37	Nil
Bulga Village	4/05/2023 22:08	2.0	D	38	Yes	37	Nil
Gouldsville	4/05/2023 21:21	2.4	D	35	Yes	IA	Nil
Inlet Rd	4/05/2023 21:43	2.2	E	37	Yes	32	Nil
Inlet Rd West	4/05/2023 21:15	2.4	D	35	Yes	31	Nil
Long Point	4/05/2023 21:00	2.4	E	35	Yes	IA	Nil
South Bulga	10/05/2023 21:36	1.3	E	36	Yes	IA	Nil
Wambo Road	4/05/2023 22:34	1.8	D	38	Yes	IA	Nil

Table 5: Laeg 15minute Mount Thorley - Impact Assessment Criteria – May 2023

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

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;

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

Table 6: LA1, 1Minute Mount Thorley - Impact Assessment Criteria – May 2023

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	4/05/2023 23:01	1.8	D	47	Yes	38	Nil
Bulga Village	4/05/2023 22:08	2.0	D	48	Yes	38	Nil
Gouldsville	4/05/2023 21:21	2.4	D	45	Yes	IA	Nil
Inlet Rd	4/05/2023 21:43	2.2	E	47	Yes	36	Nil
Inlet Rd West	4/05/2023 21:15	2.4	D	45	Yes	33	Nil
Long Point	4/05/2023 21:00	2.4	E	45	Yes	IA	Nil
South Bulga	10/05/2023 21:36	1.3	E	46	Yes	IA	Nil
Wambo Road	4/05/2023 22:34	1.8	D	48	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.

5.1.3 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 – May 2023

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	4/05/2023 23:01	32	Yes	No	No	NA	No	NA	Nil	No
Bulga Village	4/05/2023 22:08	35	Yes	No	No	NA	No	NA	Nil	No
Gouldsville	4/05/2023 21:21	<25	Yes	No	No	NA	No	NA	Nil	No
Inlet Rd	4/05/2023 21:43	30	Yes	No	No	NA	No	NA	Nil	No
Inlet Rd West	4/05/2023 21:15	26	Yes	No	No	NA	No	NA	Nil	No
Long Point	4/05/2023 21:00	IA	Yes	No	No	NA	No	NA	Nil	No
South Bulga	10/05/2023 21:36	IA	Yes	No	No	NA	No	NA	Nil	No
Wambo Road	4/05/2023 22:34	36	Yes	No	No	NA	No	NA	Nil	No

Notes:

1. NA denotes 'not applicable'; and

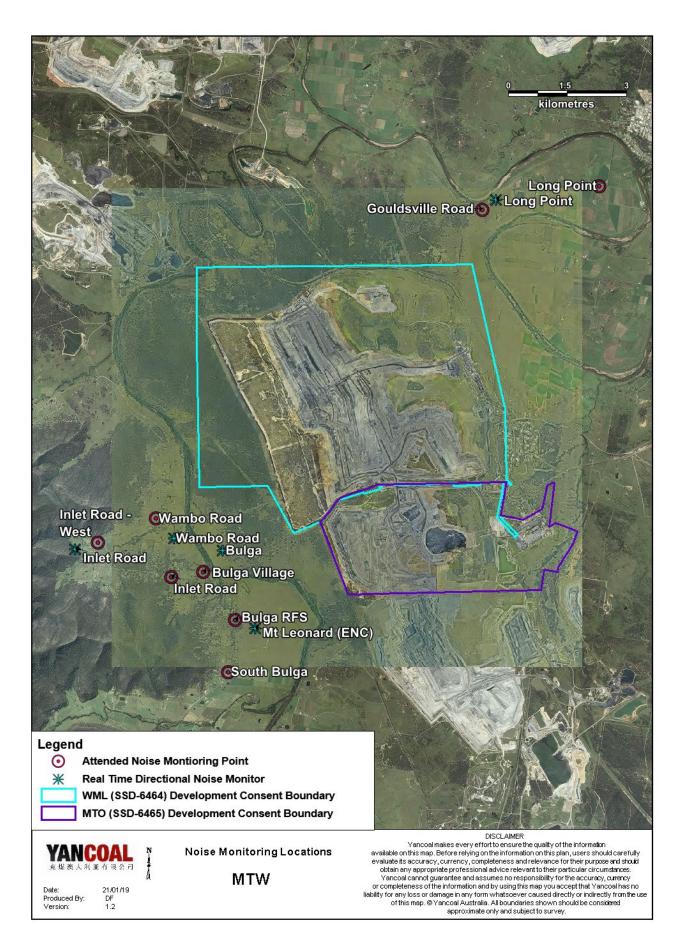
2. Bold results indicate that application of NPfI modifying factor/s is required.

Table 8: Mount Thorle	ey Operations Low F	requency Noise Assessment – I	/lay 2023
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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	Exceedance ²
Bulga RFS	4/05/2023 23:01	35	Yes	No	No	NA	Yes	2 dB @ 80 Hz	+2	Yes
Bulga Village	4/05/2023 22:08	35	Yes	No	No	NA	Yes	2 dB @ 80 Hz	+2	Yes
Gouldsville	4/05/2023 21:21	IA	Yes	No	No	NA	No	NA	Nil	No
Inlet Rd	4/05/2023 21:43	32	Yes	No	No	NA	No	NA	Nil	No
Inlet Rd West	4/05/2023 21:15	31	Yes	No	No	NA	No	NA	Nil	No
Long Point	4/05/2023 21:00	IA	Yes	No	No	NA	No	NA	Nil	No
South Bulga	10/05/2023 21:36	IA	Yes	No	No	NA	No	NA	Nil	No
Wambo Road	4/05/2023 22:34	IA	Yes	No	No	NA	No	NA	Nil	No

Notes:

1. NA denotes 'not applicable'; and 2. Bold results indicate that application of NPfI modifying factor/s is required.



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 May are provided in **Table 9**.

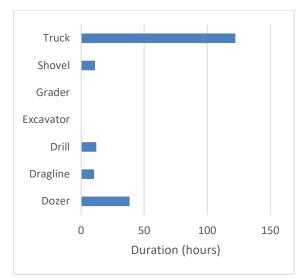
Table 9: Supplementary Attended NoiseMonitoring Data – May 2023

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

6.0 OPERATIONAL DOWNTIME

During May, a total of 193.9 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 – May 2023



7.0 REHABILITATION

During May 2023, 7.7 Ha of land was released, 4.13 Ha was bulk shaped, 5.59 Ha was topsoiled and 13.4 Ha of land was composted.

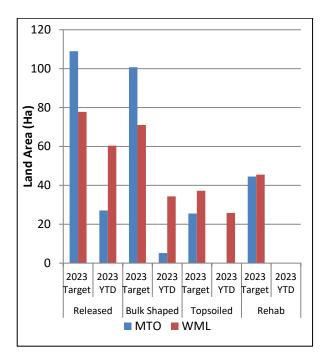


Figure 18: Rehabilitation YTD – May 2023

8.0 ENVIRONMENTAL INCIDENTS

There were no reportable environmental incidents during the reporting period.

9.0 COMPLAINTS

6 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	1	2	2	3	0	8
February	4	5	4	0	0	13
March	4	6	0	4	0	14
April	2	2	0	0	0	4
May	2	2	1	1	0	6
June						
July						
August						
September						
October						
November						
December						
Total	13	17	7	8	0	45

Appendix A: Meteorological Data

Date	Air Temperature		Relative Humidity		Wind Direction	Wind Speed	Rainfall
	Maximum (°C)	Minimum (°C)	Maximum (%)	Minimum (%)	Average (°)	Average (m/sec)	total (mm)
1/05/2023	21	11	99	52	293	3.2	0.4
2/05/2023	20	9	96	40	287	3.2	0.0
3/05/2023	23	10	86	42	294	3.4	0.0
4/05/2023	23	10	95	35	297	3.8	0.0
5/05/2023	21	8	87	29	222	2.2	0.0
6/05/2023	22	6	95	29	212	1.7	0.0
7/05/2023	23	5	94	25	270	2.1	0.0
8/05/2023	17	6	95	32	278	3.0	0.4
9/05/2023	18	6	72	28	286	4.1	0.0
10/05/2023	20	5	83	38	250	2.9	0.0
11/05/2023	21	5	92	37	209	1.6	0.0
12/05/2023	22	6	97	45	177	2.0	0.0
13/05/2023	24	8	99	33	195	1.7	0.0
14/05/2023	22	8	98	48	175	2.4	0.0
15/05/2023	22	10	98	49	159	2.5	0.2
16/05/2023	20	11	98	60	192	1.7	0.2
17/05/2023	22	10	99	36	208	1.9	0.0
18/05/2023	18	8	89	51	182	3.8	0.0
19/05/2023	19	7	96	46	206	2.0	0.4
20/05/2023	19	5	99	37	274	1.9	0.2
21/05/2023	19	3	87	37	298	2.9	0.0
22/05/2023	19	8	74	35	283	3.8	0.0
23/05/2023	20	5	88	30	246	2.1	0.0
24/05/2023	22	3	90	18	222	1.7	0.0
25/05/2023	23	3	95	17	257	2.0	0.0
26/05/2023	24	4	81	18	270	3.0	0.0
27/05/2023	21	9	95	26	227	2.8	8.4
28/05/2023	18	4	97	31	267	2.6	0.0
29/05/2023	17	2	95	40	301	2.9	0.0
30/05/2023	21	7	73	34	296	3.4	0.0
31/05/2023	22	6	92	38	297	2.6	0.0

Table 11: Meteorological Data – Charlton Ridge Meteorological Station – May 2023