



Monthly Environmental Monitoring Report

Yancoal Mount Thorley Warkworth

January 2020

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Revision History

Version No.	Version Details	Document Status	Date
1.0	Environmental Advisor	Final	23/03/2020

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 January to 31 January 2020.

2.0 AIR QUALITY

2.1 Meteorological Monitoring

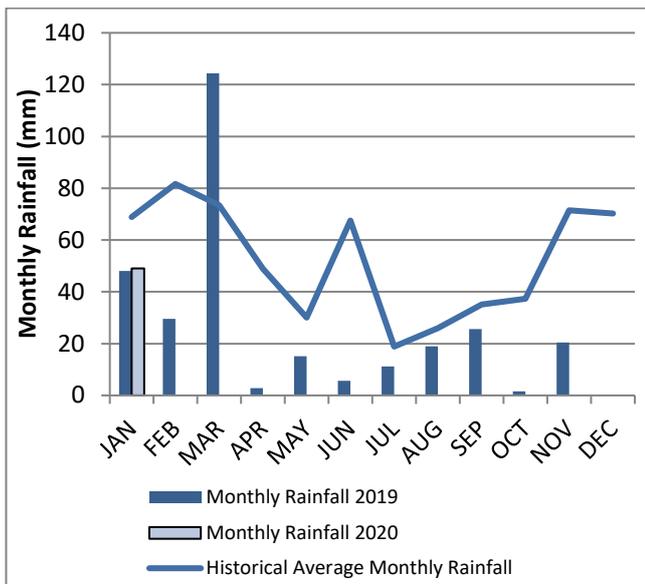
Meteorological data is collected at MTW's 'Charlton Ridge' meteorological station (refer to **Figure 3: Air Quality Monitoring Locations**).

2.1.1 Rainfall

Rainfall for the reporting period is summarised in **Table 1**. The year-to-date monthly rainfall totals, 2020 monthly rainfall totals and historical average monthly rainfall trend are shown in **Figure 1**.

Table 1: Monthly Rainfall MTW

2020	Monthly Rainfall (mm)	Cumulative Rainfall (mm)
January	49.0	49.0



Note: The historical average monthly rainfall is calculated from 2007 to 2019 monthly totals

Figure 1: Rainfall Trend YTD

2.1.2 Wind Speed and Direction

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

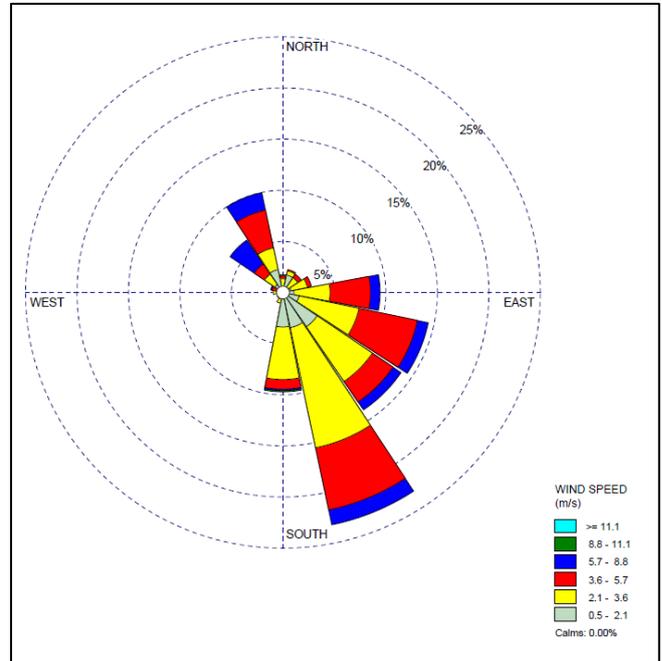


Figure 2: Charlton Ridge Wind Rose – January 2020

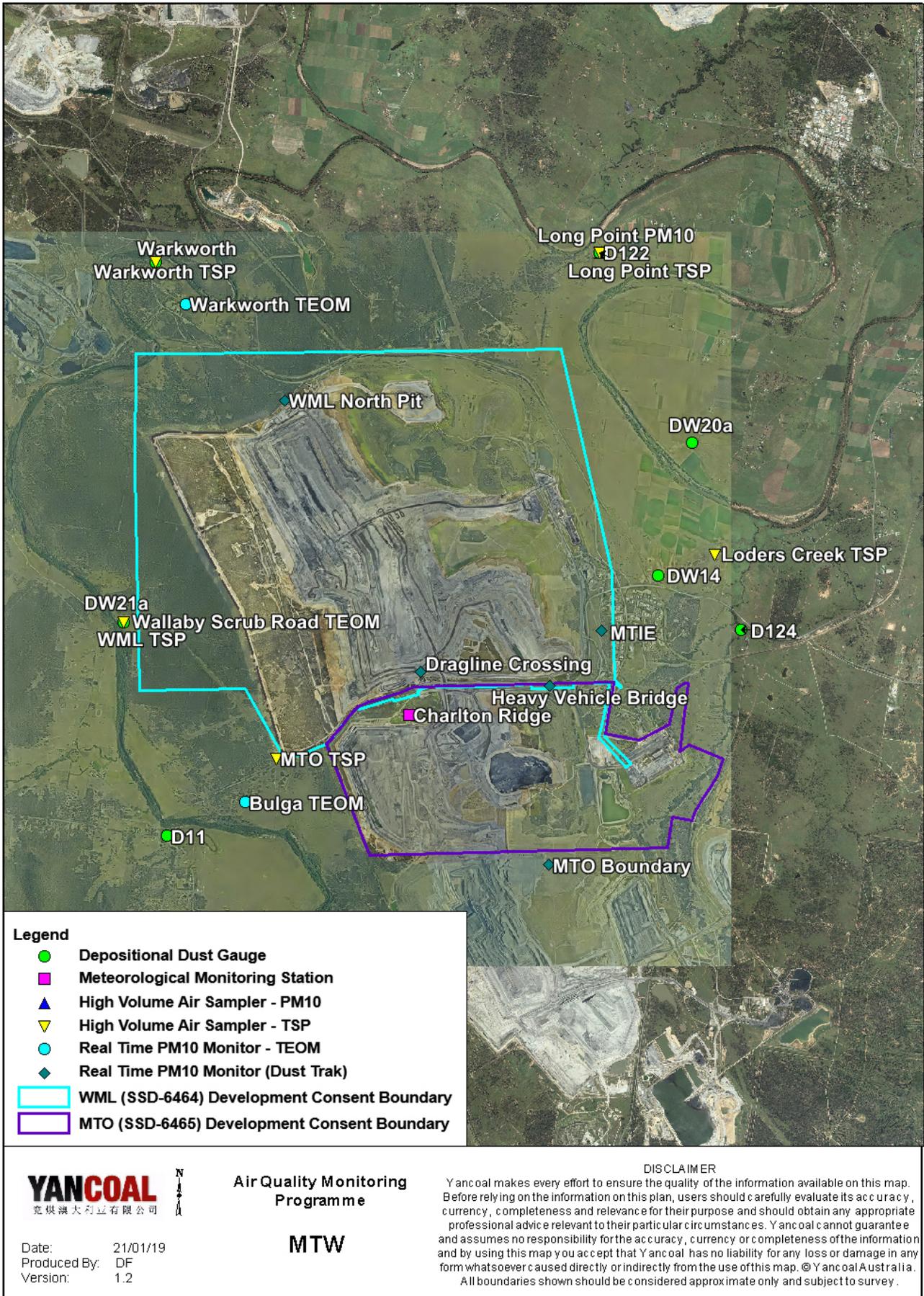


Figure 3: Air Quality Monitoring Locations

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.

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.

During the reporting period the D11, DW14, D122 and Warkworth monitors recorded monthly results above the long-term impact assessment criteria of 4.0 g/m² per month. Field notes associated with DW14 confirm the presence of insects. As such the result is considered contaminated and will be excluded from calculation of the annual average. Regional bushfire smoke and related ash deposition are likely to have contributed to elevated dust deposition results, although there is insufficient evidence to confirm that the D11, D122 and Warkworth results are contaminated. Accordingly, the results will be included in the annual average calculation.

An annual assessment of MTW’s compliance with the Long-Term Impact Assessment Criteria will be provided in the 2020 Annual Review Report.

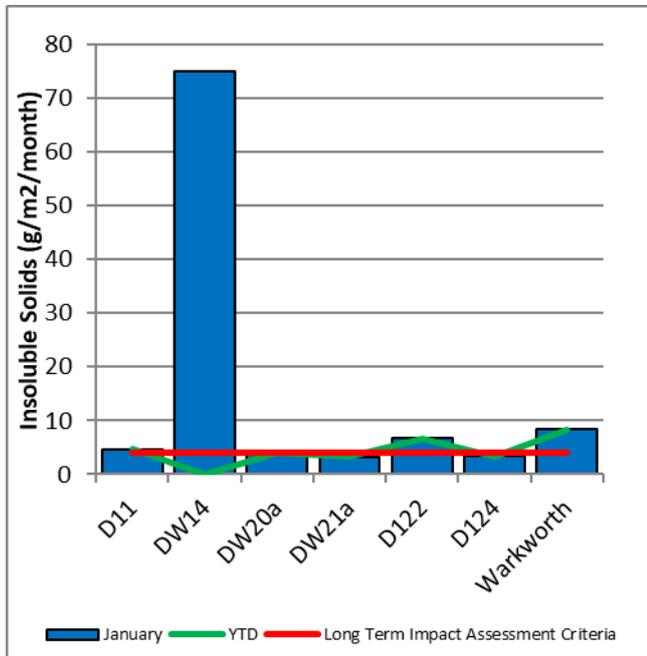


Figure 4: Depositional Dust – January 2020

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 <10µm (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 PM₁₀ results at each monitoring station against the short-term impact assessment criteria of 50µg/m³.

On 21 January 2020 the Long Point HVAS PM₁₀ unit recorded a result of 51 µg/m³, which is greater than the short term (24hr) PM₁₀ impact assessment criteria.

Investigation determined that the wind direction was generally not from MTW’s angle of influence and that the likely MTW contribution to the results is less than 75%. Accordingly, no further action is required (as per approved Air Quality Monitoring Programme).

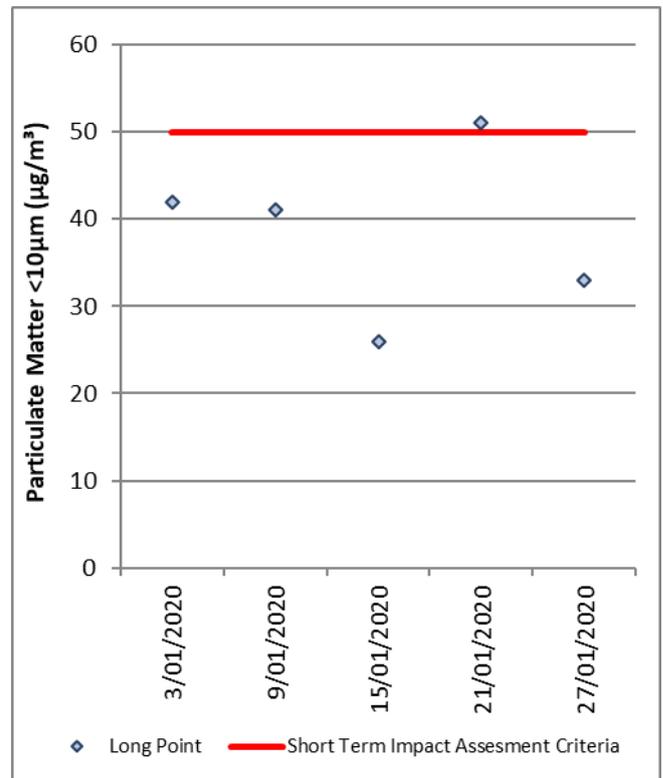


Figure 5: Individual PM10 Results – January 2020

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

An assessment of MTW’s contribution to the long term assessment criteria will be reported in the 2020 Annual Review Report.

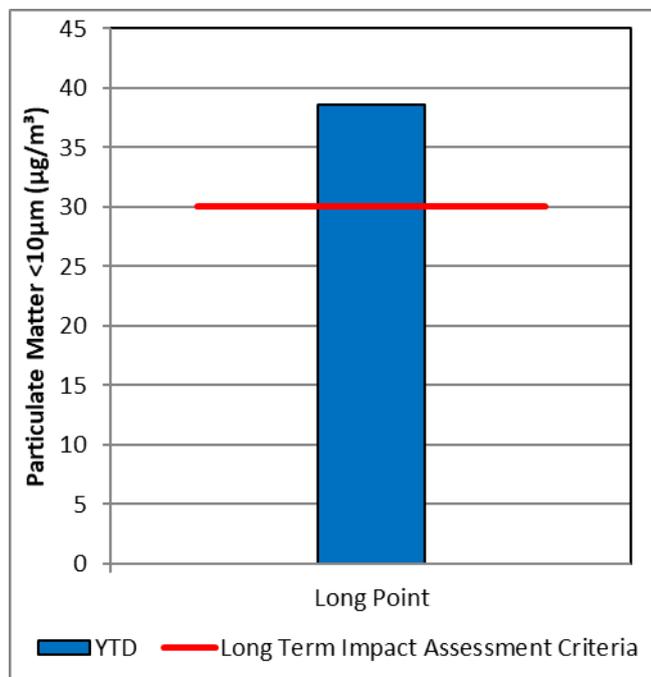


Figure 6: Annual Average PM₁₀ – January 2020

2.3.2 TSP Results

Figure 7 shows the annual average TSP results compared against the long-term impact assessment criteria of 90µg/m³.

An assessment of MTW’s contribution to the long-term assessment criteria will be reported in the 2020 Annual Review Report.

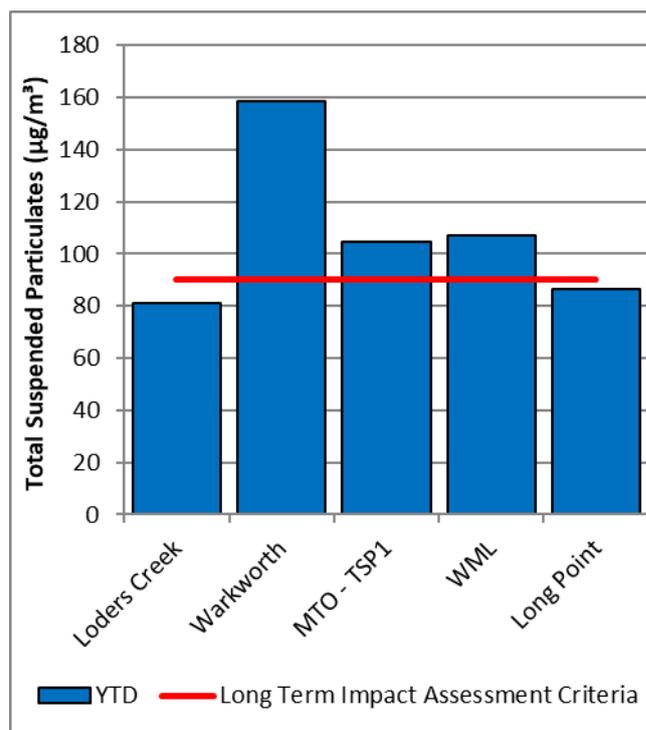


Figure 7: Annual Average Total Suspended Particulates – January 2020

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. It should be noted that the PM₁₀ monitor named the “Wallaby Scrub Road TEOM” is planned to be moved to a representative location west of Wollombi Brook and be renamed “Wambo Road TEOM”. This change was submitted to DPIE on 31 July 2019 during an update to the MTW Air Quality Management Plan and was subsequently approved by DPIE on 28 August 2019. Figures in the MEMR will be updated once the monitor has moved to the new location.

Results for real time dust sampling are shown in Figure 8, including the daily 24-hour average PM₁₀ result and the annual PM₁₀ average.

On 1, 2, 3, 4, 5, 6, 8, 9, 11, 12, 23, 24 and 25 January 2020, the Bulga OEH, Wallaby Scrub Road and/or Warkworth OEH TEOM’s exceeded the short term (24hr) criteria.

Investigation into these exceedances determined that the wind direction was generally not from MTW’s angle of influence and/or background PM₁₀ levels were elevated. The maximum potential contributions to the results were less than 75% and

less than 50 µg/m³. Accordingly, MTW operations are not considered to be a significant contributor to the results as described in the MTW Air Quality Management Plan and no further action is required. Elevated PM₁₀ levels during January 2020 are considered partially attributable to bushfires in the region.

Data was not available on 5 and 6 January 2020 from the Wallaby Scrub Road monitor or on 20 and 21 January 2020 from the Bulga OEH TEOM due to equipment issues.

2.3.4 Real Time Alarms for Air Quality

During January, the real time monitoring system generated 1070 automated air quality related alerts, including 36 alerts for adverse meteorological conditions and 1034 alerts for elevated PM₁₀ levels.

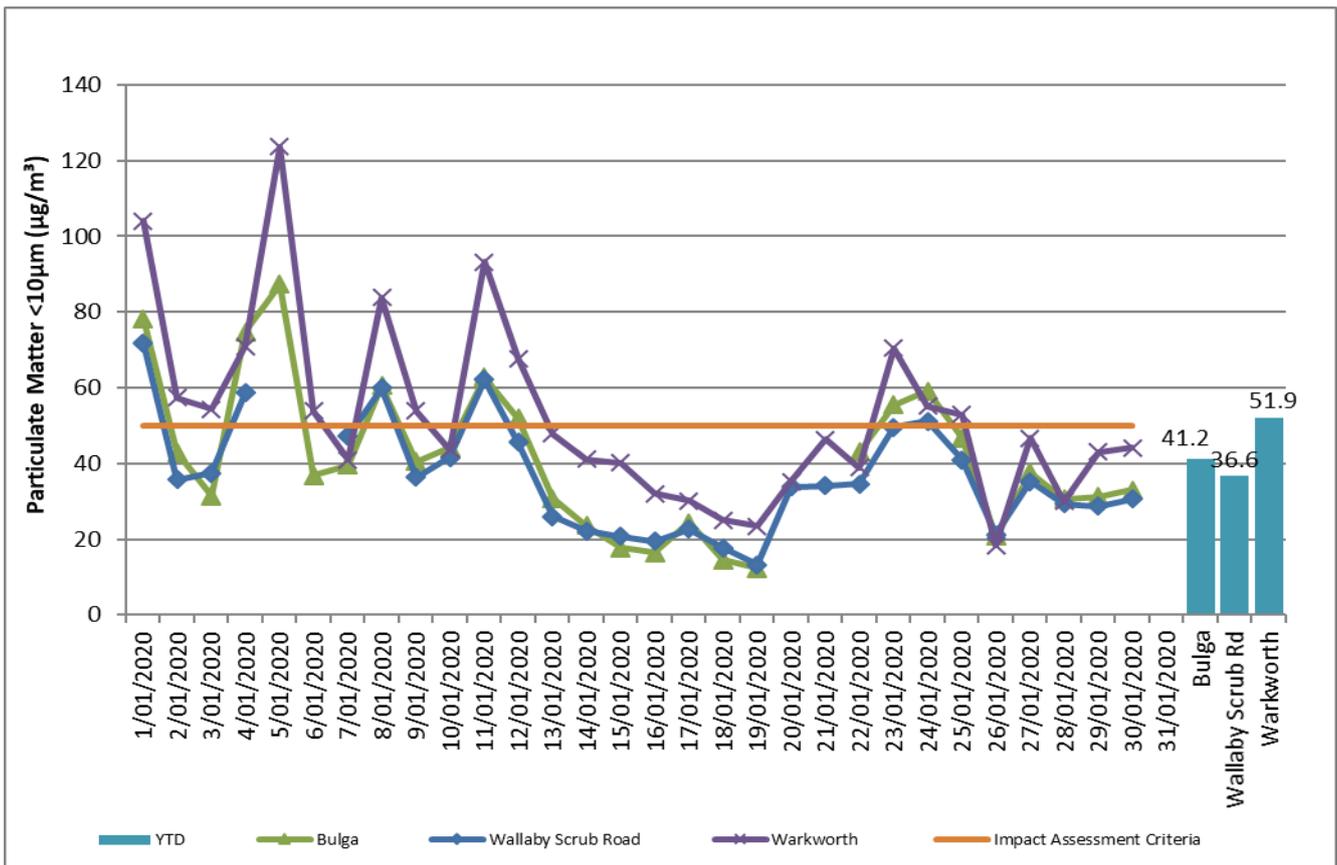


Figure 8: Real Time PM₁₀ daily 24hr average (line graphs) and YTD annual average (column graphs) – January 2020

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 2020 report.

3.2 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 2020 report.

3.3 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 no water was discharged under the HRSTS.

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 January 2020, 23 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
120	0%

Ground Vibration (mm/s)	Comments
5	5% of the total number of blasts in a 12 month period
10	0%

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

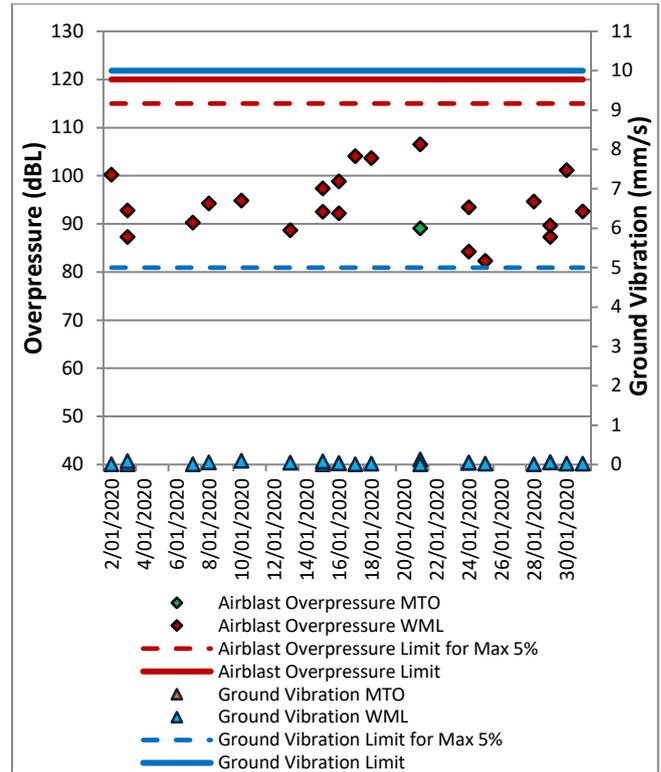


Figure 9: Abbey Green Blast Monitoring Results – January 2020

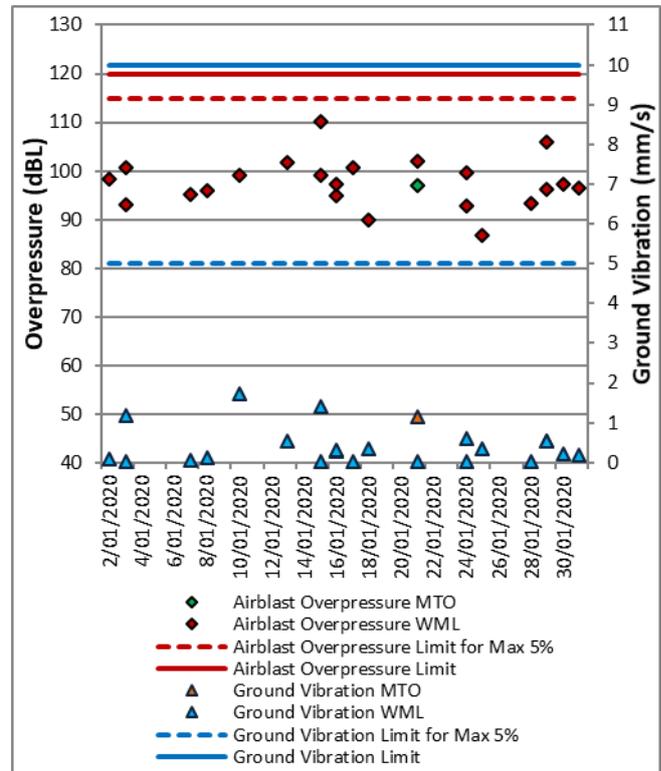


Figure 10: Bulga Village Blast Monitoring Results – January 2020

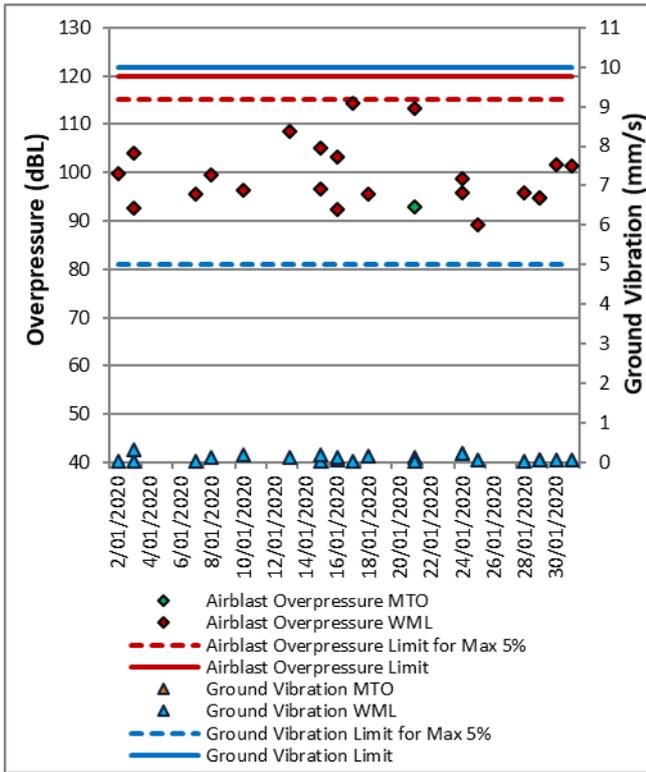


Figure 11: MTIE Blast Monitoring Results – January 2020

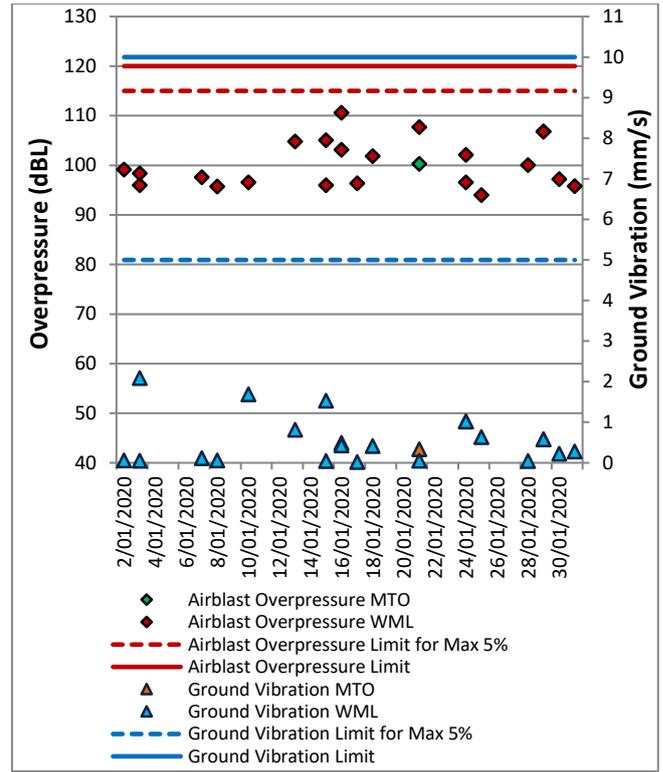


Figure 13: Wambo Road Blast Monitoring Results – January 2020

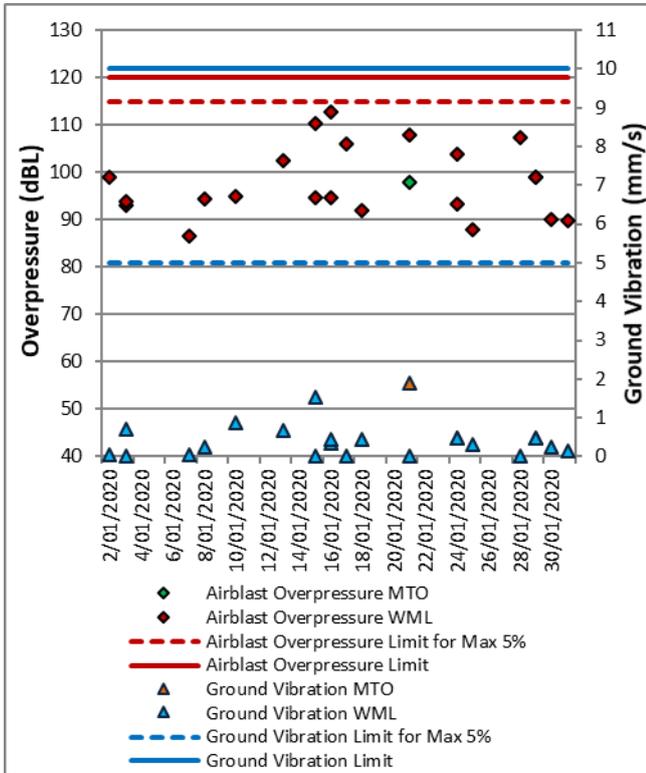


Figure 12: Wollemi Peak Road Blast Monitoring Results – January 2020

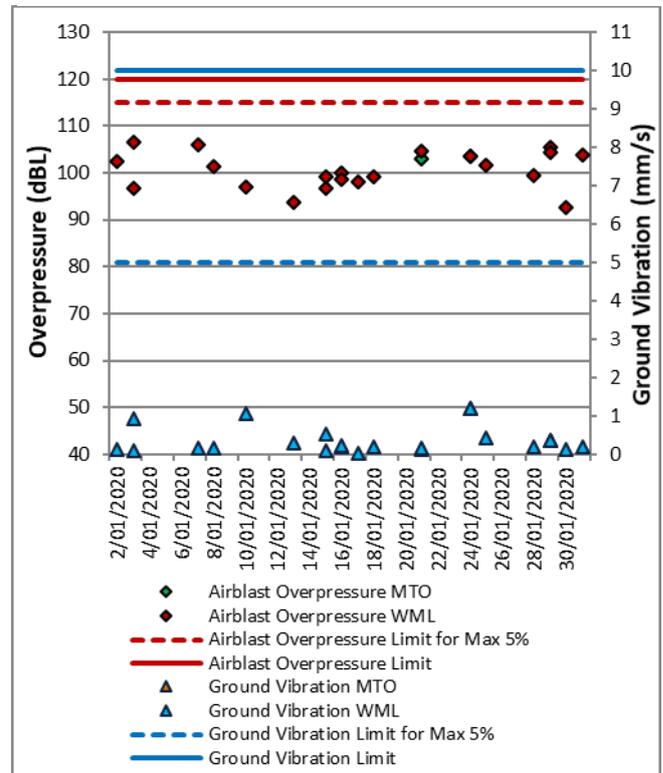


Figure 14: Warkworth Blast Monitoring Results – January 2020



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**.

Attended monitoring was conducted at receiver locations surrounding MTW on the night of 20 January 2020. All measurements complied with the relevant criteria. 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**.

5.1 Attended Noise Monitoring Results

Table 3: L_{Aeq, 15 minute} Warkworth Impact Assessment Criteria – January 2020

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	20/01/2020 23:15	1.8	F	37	Yes	31	Nil
Bulga Village	20/01/2020 23:25	1.8	F	38	Yes	30	Nil
Gouldsville	20/01/2020 21:25	1.4	F	38	Yes	<30	Nil
Inlet Rd	20/01/2020 21:35	1.4	F	37	Yes	IA	Nil
Inlet Rd West	20/01/2020 21:10	2.6	F	35	No	IA	NA
Long Point	20/01/2020 21:00	3.6	D	35	No	<20	NA
South Bulga	21/01/2020 0:08	2	F	35	Yes	IA	Nil
Wambo Road	20/01/2020 23:01	2.1	F	38	No	29	NA

Notes:

- 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 L_{Aeq,15minute} attributed to WML, including modifying factors if applicable;
- Bold results in red indicate exceedances of relevant criteria; and
- NA in exceedance column means atmospheric conditions outside conditions specified in development consent and so criterion is not applicable.

Table 4: L_{A1, 1 minute} Warkworth - Impact Assessment Criteria – January 2020

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	20/01/2020 23:15	1.8	F	47	Yes	37	Nil
Bulga Village	20/01/2020 23:25	1.8	F	48	Yes	35	Nil
Gouldsville	20/01/2020 21:25	1.4	F	48	Yes	<30	Nil
Inlet Rd	20/01/2020 21:35	1.4	F	47	Yes	IA	Nil
Inlet Rd West	20/01/2020 21:10	2.6	F	45	No	IA	NA
Long Point	20/01/2020 21:00	3.6	D	45	No	<25	NA
South Bulga	21/01/2020 0:08	2	F	45	Yes	IA	Nil
Wambo Road	20/01/2020 23:01	2.1	F	48	No	33	NA

Notes:

- 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 L_{A1,1minute} attributed to WML;
- Bold results in red are possible exceedances of relevant criteria; and
- NA in exceedance column means atmospheric conditions outside conditions specified in development consent and so criterion is not applicable.

5.1.3 MTO Noise Assessment

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

Table 5: L_{Aeq, 15minute} Mount Thorley - Impact Assessment Criteria – January 2020

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	20/01/2020 23:15	1.8	F	37	Yes	IA	Nil
Bulga Village	20/01/2020 23:25	1.8	F	38	Yes	IA	Nil
Gouldsville	20/01/2020 21:25	1.4	F	35	Yes	IA	Nil
Inlet Rd	20/01/2020 21:35	1.4	F	37	Yes	IA	Nil
Inlet Rd West	20/01/2020 21:10	2.6	F	35	No	IA	NA
Long Point	20/01/2020 21:00	3.6	D	35	No	IA	NA
South Bulga	21/01/2020 0:08	2	F	36	Yes	IA	Nil
Wambo Road	20/01/2020 23:01	2.1	F	38	No	IA	NA

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 L_{Aeq,15minute} attributed to MTO, including modifying factors if applicable;

3. Bold results in red indicate exceedances of relevant criteria; and

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

Table 6: L_{A1, 1Minute} Mount Thorley - Impact Assessment Criteria – January 2020

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	20/01/2020 23:15	1.8	F	47	Yes	IA	Nil
Bulga Village	20/01/2020 23:25	1.8	F	48	Yes	IA	Nil
Gouldsville	20/01/2020 21:25	1.4	F	45	Yes	IA	Nil
Inlet Rd	20/01/2020 21:35	1.4	F	47	Yes	IA	Nil
Inlet Rd West	20/01/2020 21:10	2.6	F	45	No	IA	NA
Long Point	20/01/2020 21:00	3.6	D	45	No	IA	NA
South Bulga	21/01/2020 0:08	2	F	46	Yes	IA	Nil
Wambo Road	20/01/2020 23:01	2.1	F	48	No	IA	NA

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 L_{Aeq,15minute} attributed to MTO;

3. Bold results in red indicate exceedances of relevant criteria; and

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

5.1.4 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 a low frequency modification factor correction to be applied. The assessment for low frequency noise is shown in **Table 7**.

Table 7: Low Frequency Noise Modifying Factor Assessment – January 2020

Location	Date and Time	Measured Site Only LA _{eq} dB (WML/MTO)	Site Only L _{ceq} dB ¹ (WML/MTO)	Site Only L _{Ceq} – LA _{eq} dB ^{1,2} (WML/MTO)	Result Max exceedance of ref spectrum dB (WML/MTO) ^{1,3}	Modifying Factor Correction dB(A) ¹	Exceedance
Bulga RFS	20/01/2020 23:15	31/IA	NA/NA	NA/NA	NA/NA	NA/NA	NA
Bulga Village	20/01/2020 23:25	30/IA	NA/NA	NA/NA	NA/NA	NA/NA	NA
Gouldsville	20/01/2020 21:25	<30/IA	NA/NA	NA/NA	NA/NA	NA/NA	NA
Inlet Rd	20/01/2020 21:35	IA/IA	NA/NA	NA/NA	NA/NA	NA/NA	NA
Inlet Rd West	20/01/2020 21:10	IA/IA	NA/NA	NA/NA	NA/NA	NA/NA	NA
Long Point	20/01/2020 21:00	<20/IA	NA/NA	NA/NA	NA/NA	NA/NA	NA
South Bulga	21/01/2020 0:08	IA/IA	NA/NA	NA/NA	NA/NA	NA/NA	NA
Wambo Road	20/01/2020 23:01	29/IA	NA/NA	NA/NA	NA/NA	NA/NA	NA

Notes:

1. Where it is not possible to determine the site-only result due to the presence of other low-frequency noise sources occurring during the measurement, or where criteria were not applicable due to meteorological conditions, or where site-only contributions were more than 5 dB less than the relevant LA_{eq} criterion this is noted as NA (not available) and no further assessment has been undertaken;
2. As per NPfl, if L_{Ceq} – LA_{eq} ≥ 15 dB further assessment of low-frequency noise required as detailed in Sections 2.5 and 3.3 of this report;
3. As per NPfl, compare measured spectrum against reference spectrum to determine if the low-frequency modifying factor is triggered and application of penalty is required; and
4. Bold results indicate that NPfl low-frequency modifying factor has been triggered and application of correction is required.

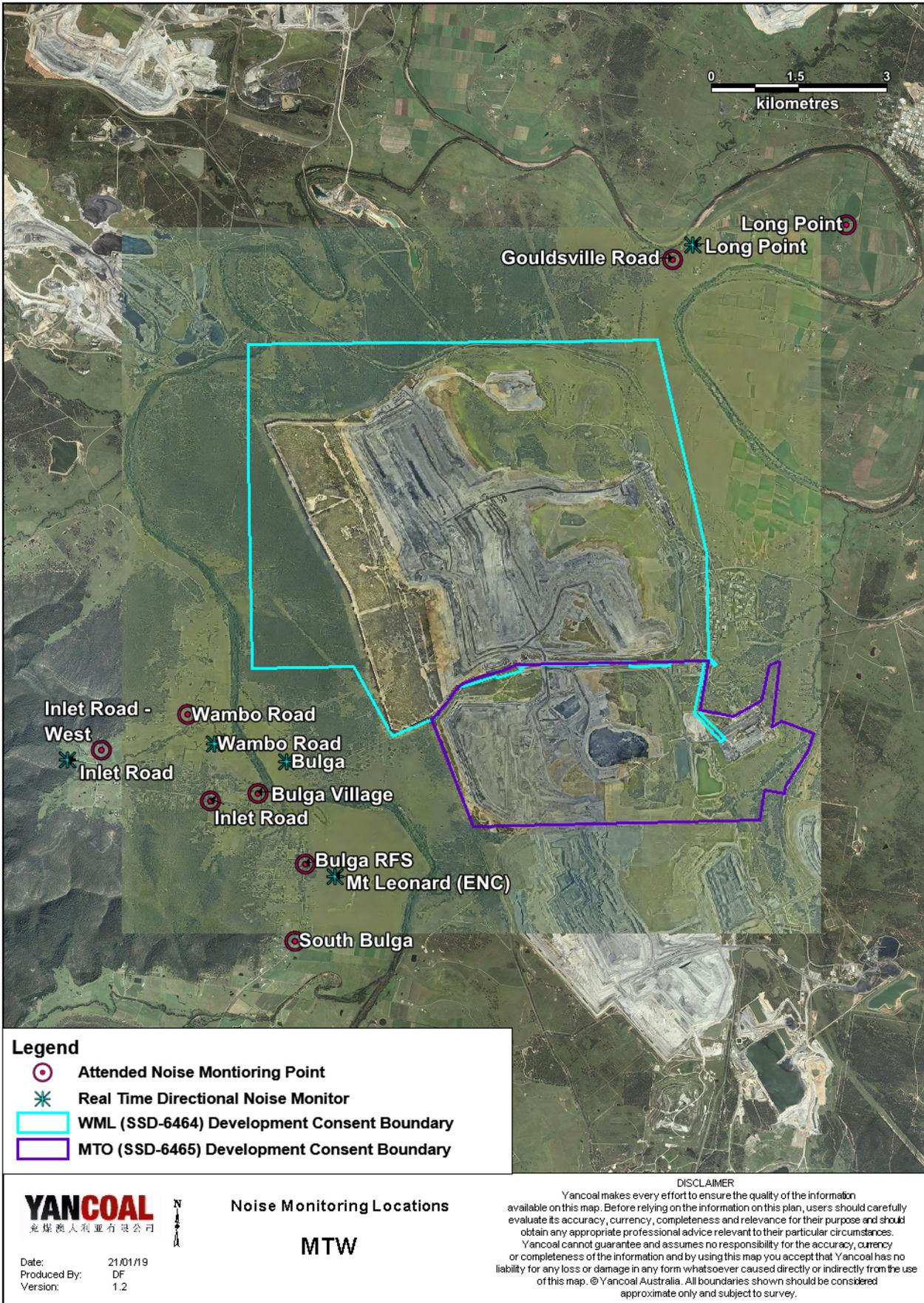


Figure 16: Noise Monitoring Location Plan

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 so as 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 January are provided in **Table 8**.

Table 8: Supplementary Attended Noise Monitoring Data – January 2020

No. of assessments	No. of assessments > trigger	No. of nights where assessments > trigger	% greater than trigger
597	0	0	0

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

6.0 OPERATIONAL DOWNTIME

During January, a total of 266 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**.

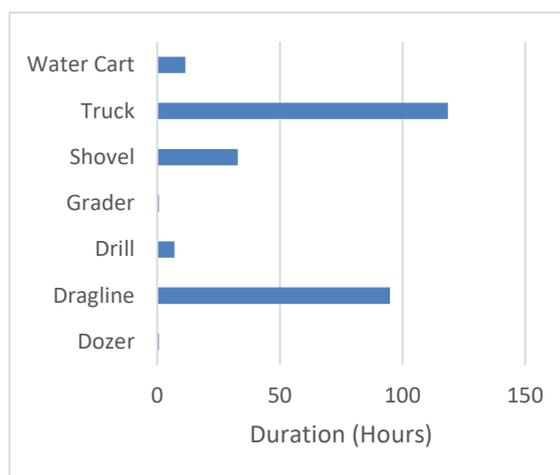


Figure 17: Operational Downtime by Equipment Type – January 2020

7.0 REHABILITATION

During January 2020, 2.9 Ha of land was released and 5.2 Ha of land was bulk shaped.

8.0 ENVIRONMENTAL INCIDENTS

There were no reportable environmental incidents during the reporting period.

9.0 COMPLAINTS

11 complaints were received during the reporting period. Details of these complaints are shown in **Table 9** below.

Table 9: Complaints Summary YTD

	Noise	Dust	Blast	Lighting	Other	Total
January	2	4	5	0	0	11
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						
Total	2	4	5	0	0	11

Appendix A: Meteorological Data

Table 10: Meteorological Data – Charlton Ridge Meteorological Station – January 2020

Date	Air Temperature Maximum (°C)	Air Temperature Minimum (°C)	Relative Humidity Maximum (%)	Relative Humidity Minimum (%)	Wind Direction Average (°)	Wind Speed Average (m/sec)	Rainfall(mm)
1/01/2020	38	18	71	19	141	3.9	0.0
2/01/2020	31	18	81	41	136	3.6	0.0
3/01/2020	38	20	82	22	143	2.8	0.0
4/01/2020	45	22	67	7	242	3.6	0.0
5/01/2020	37	18	67	16	141	5.1	0.0
6/01/2020	26	16	82	49	141	3.5	1.2
7/01/2020	36	18	92	23	157	2.6	4.4
8/01/2020	37	20	91	27	139	3.0	2.6
9/01/2020	25	19	85	62	144	3.3	0.0
10/01/2020	40	20	84	20	156	2.4	0.0
11/01/2020	33	18	82	25	162	3.7	0.0
12/01/2020	27	14	75	30	121	4.0	0.0
13/01/2020	29	16	82	30	118	3.4	0.0
14/01/2020	33	17	80	30	125	3.5	0.0
15/01/2020	32	18	79	33	133	2.6	0.0
16/01/2020	27	18	89	58	210	2.0	4.6
17/01/2020	25	18	84	58	165	3.9	0.0
18/01/2020	21	17	95	76	157	3.0	10.2
19/01/2020	28	17	95	52	160	2.4	1.0
20/01/2020	34	17	94	22	180	2.0	8.4
21/01/2020	35	18	78	14	250	4.1	0.0
22/01/2020	37	19	82	10	184	2.8	0.0
23/01/2020	42	20	79	11	286	5.2	0.8
24/01/2020	33	22	86	43	208	4.1	3.0
25/01/2020	34	22	83	44	117	2.6	0.0
26/01/2020	38	22	89	28	220	3.1	3.4
27/01/2020	34	20	86	38	132	2.4	0.0
28/01/2020	39	19	92	23	185	2.8	9.4
29/01/2020	31	21	88	50	126	3.4	0.0
30/01/2020	35	19	86	33	124	2.9	0.0
31/01/2020	42	20	89	17	162	2.4	0.0

“-“ Indicates that data was not available due to technical issues.