



Managed by Rio Tinto Coal Australia

Mount Thorley Warkworth

Monthly Environmental Report

July 2017

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Revision History

Version No.	Person Responsible	Document Status	Date
1.0	Environmental Graduate	Draft	23/08/2017
1.1	Environmental Advisor	Final	03/10/2017

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 1st July to 31st July 2017.

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 period is summarised in Table 1, the year-to-date trend and historical trend are shown in Figure 1.

Table 1: Monthly Rainfall MTW

2017	Monthly Rainfall (mm)	Cumulative Rainfall (mm)
July	0.8	272.6

2.1.2 Wind Speed and Direction

Winds from the North-West were dominant throughout the reporting period as shown in Figure 2.

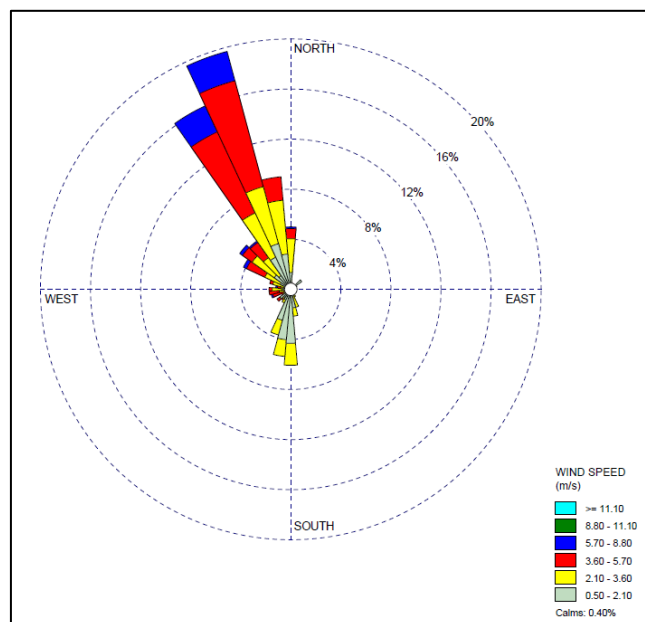


Figure 2: Charlton Ridge Wind Rose – July 2017

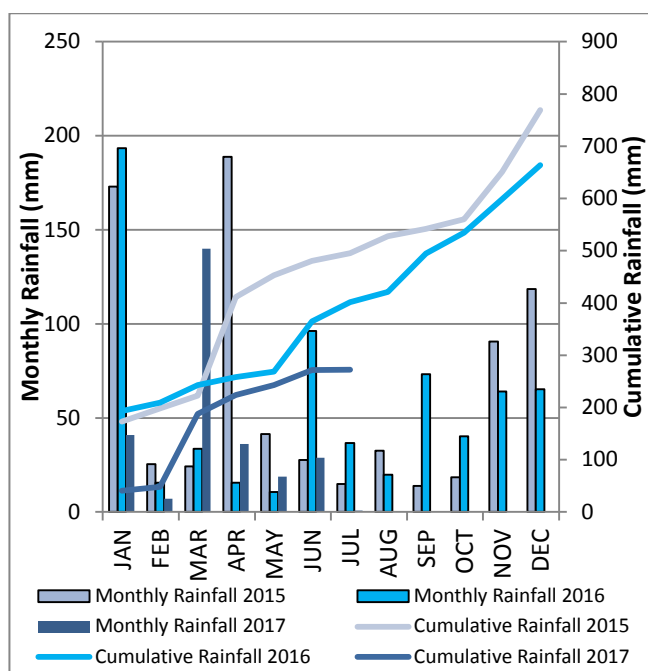
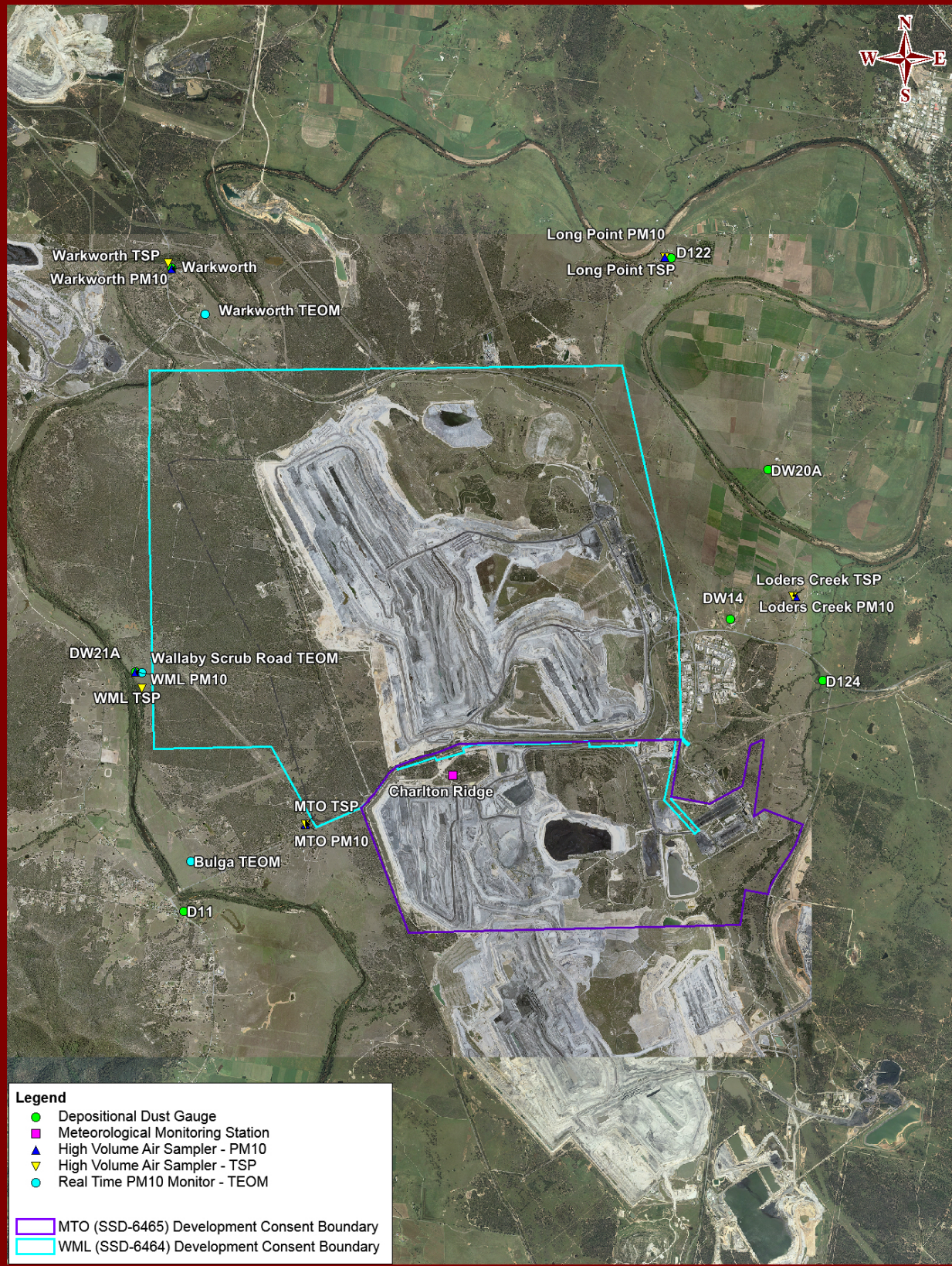


Figure 1: Rainfall Trend YTD



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Figure 3: Air Quality Monitoring Locations

2.2 Depositional Dust

To monitor regional 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 DW20a and D124 monitors recorded a monthly result above the long term impact assessment criteria of 4.0 g/m² per month. Field notes associated with DW20a and D124 confirm the presence of insects and vegetation. As such the results are considered contaminated and will be excluded from calculation of the annual average.

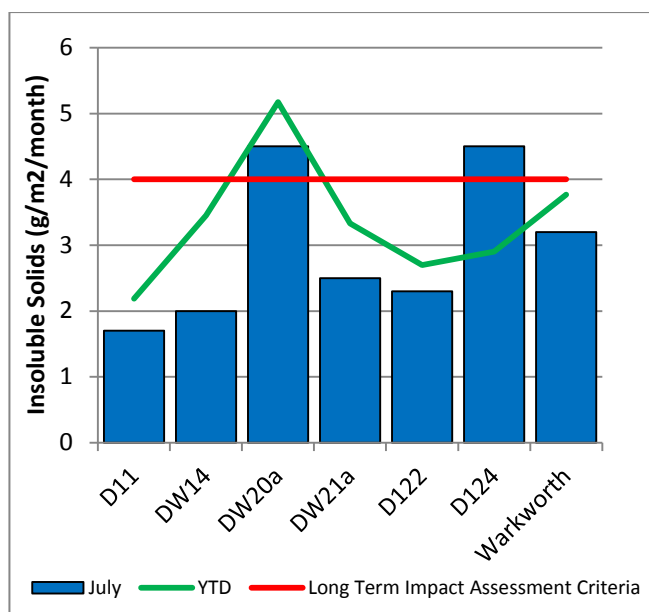


Figure 4: Depositional Dust – July 2017

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 with the exception of the Warkworth HVAS, which failed to run on 5 July due to an instrument fault.

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 50 µg/m³.

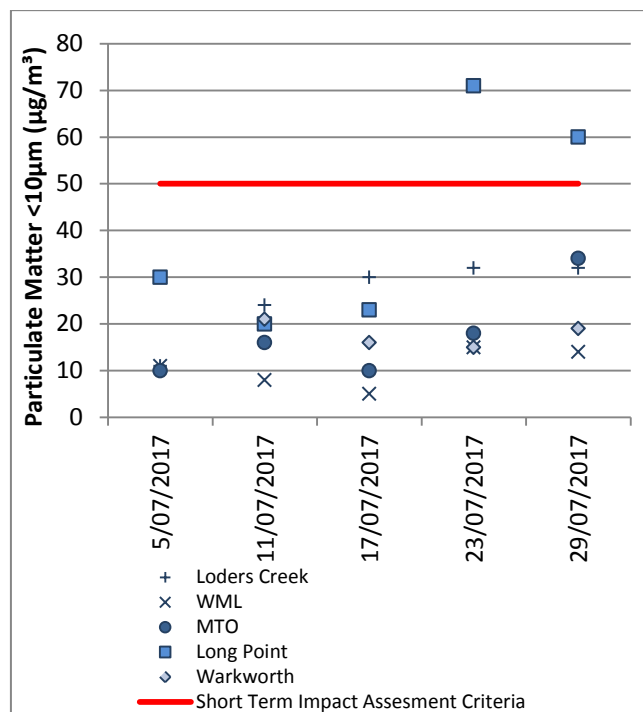


Figure 5: Individual PM₁₀ Results – July 2017

On 23/07/2017 and 29/07/2017 the Long Point HVAS PM₁₀ unit recorded results of 71 µg/m³ and 60 µg/m³ respectively, which are greater than the short term (24hr) PM₁₀ impact assessment criteria.

Investigation determined that the wind direction was not from MTW's angle of influence at Long Point on the 23rd or 29th of July. Accordingly, no further action is required.

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

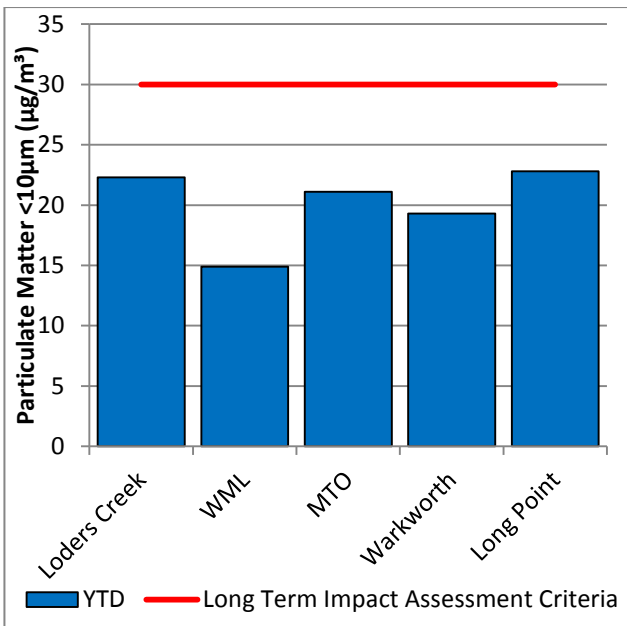


Figure 6: Annual Average PM₁₀ – July 2017

2.3.2 TSP Results

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

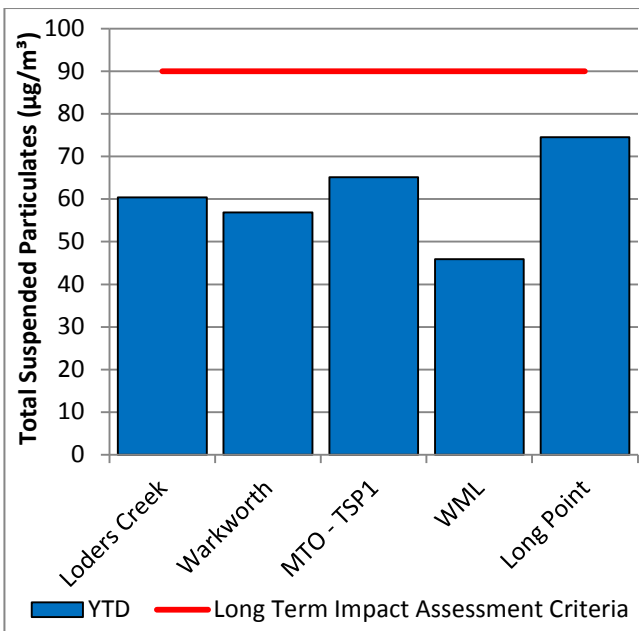


Figure 7: Annual Average Total Suspended Particulates – July 2017

2.3.3 Real Time PM₁₀ Results

Mount Thorley Warkworth 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 alarms 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 PM₁₀ result and the annual PM₁₀ average.

2.3.4 Real Time Alarms for Air Quality

During July, the real time monitoring system generated 50 automated air quality related alerts, including 14 alerts for adverse meteorological conditions and 36 alerts for elevated PM₁₀ levels.

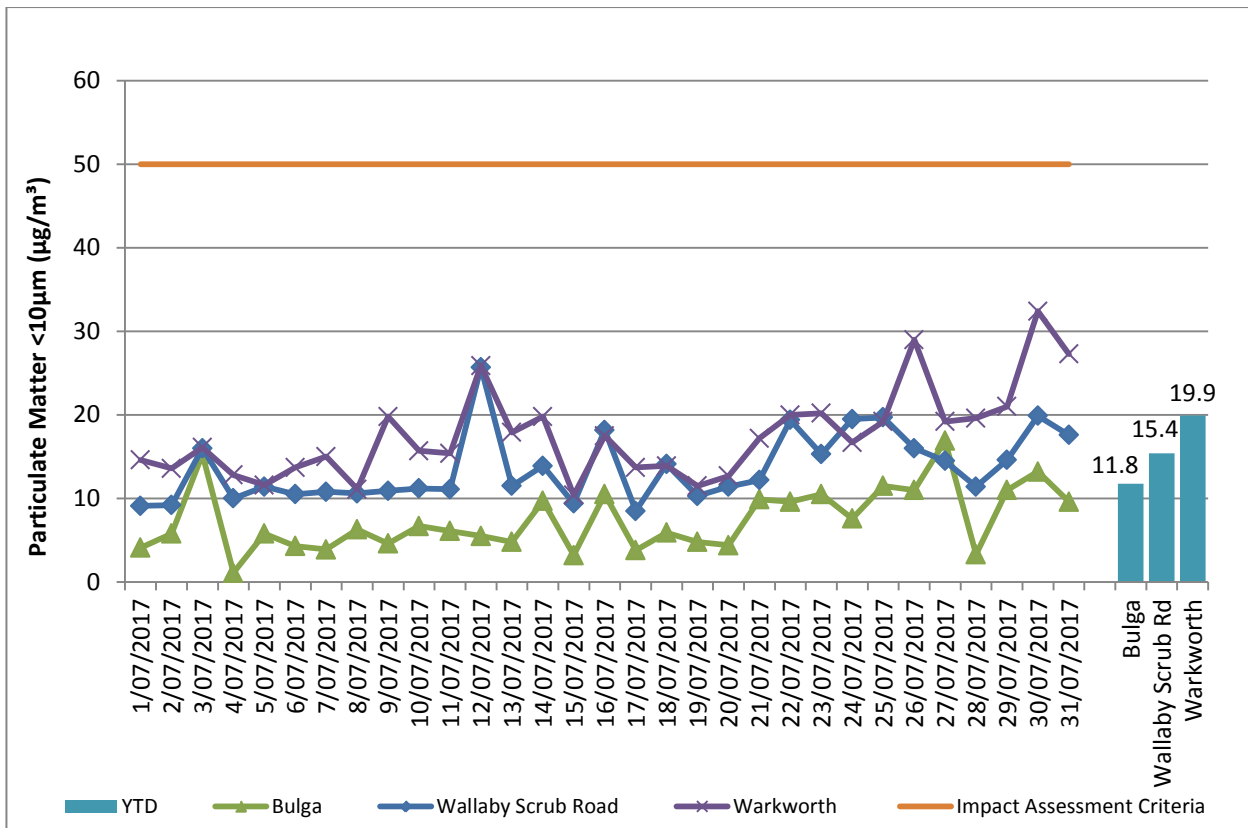


Figure 8: Real Time PM10 daily 24hr average and annual average – July 2017

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 monitor the potential impact of mining on the river. Other Hunter River tributaries are also monitored.

Results of monitoring are reported quarterly, next available in the September 2017 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 September 2017 report.

3.3 HRSTS Discharge

MTW participates in the Hunter River Salinity Trading Scheme (HRSTS), allowing discharge from licensed discharge points 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 July 2017, 25 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.

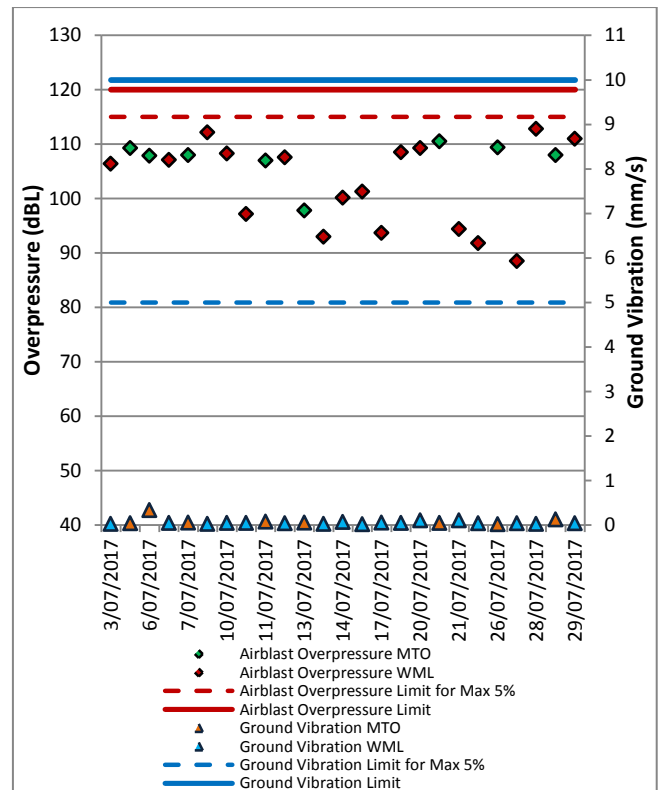


Figure 9: Abbey Green Blast Monitoring Results – July 2017

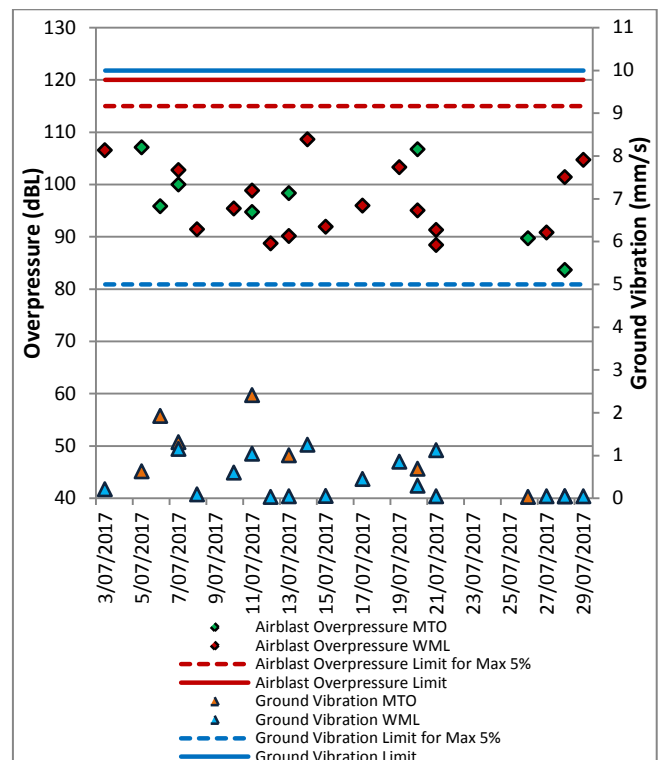


Figure 10: Bulga Village Blast Monitoring Results – July 2017

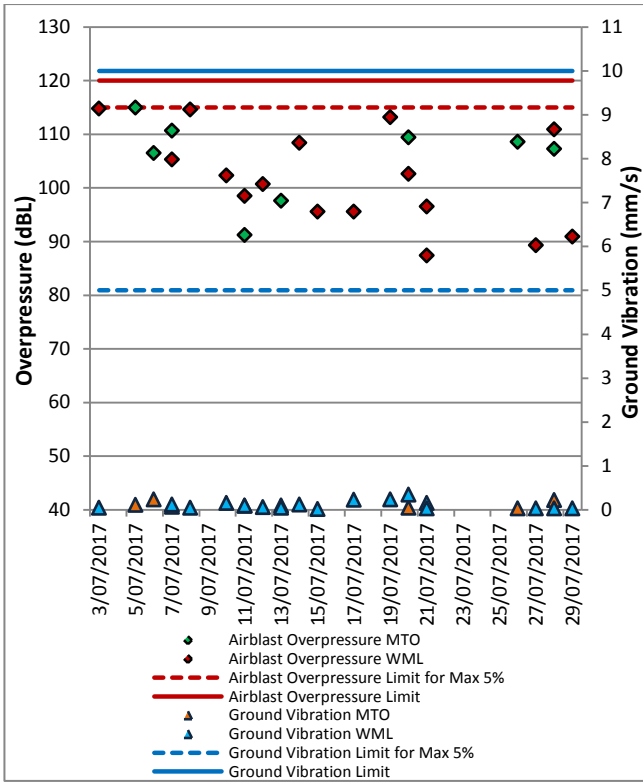


Figure 11: MTIE Blast Monitoring Results – July 2017

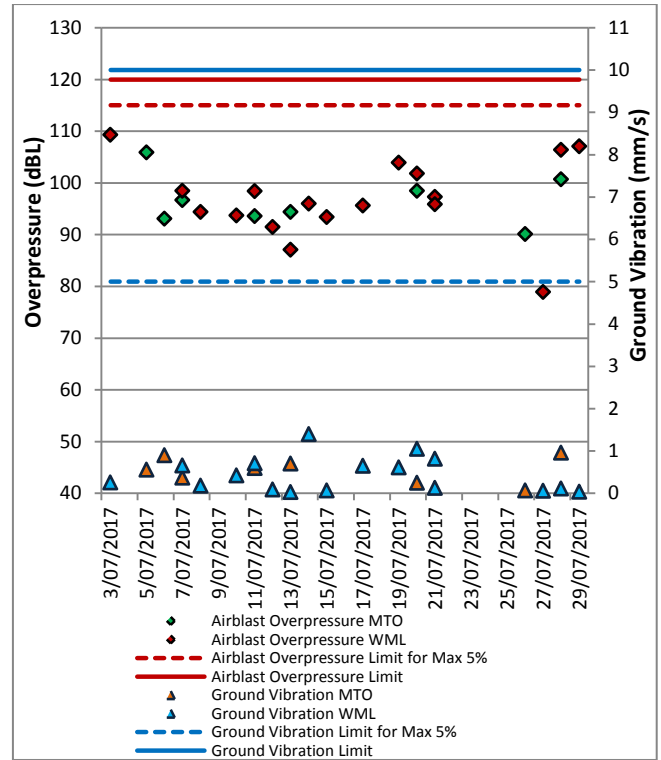


Figure 13: Wambo Road Blast Monitoring Results - July 2017

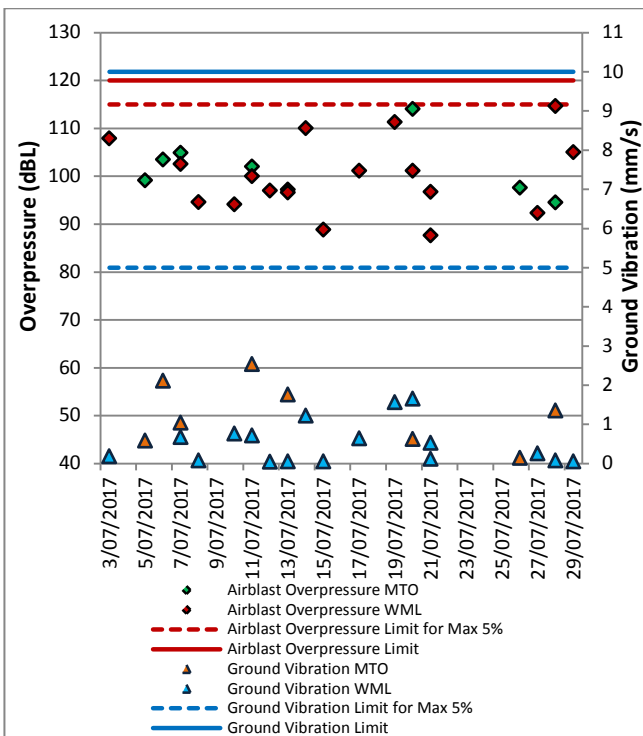


Figure 12: Wollemi Peak Road Blast Monitoring Results - July 2017

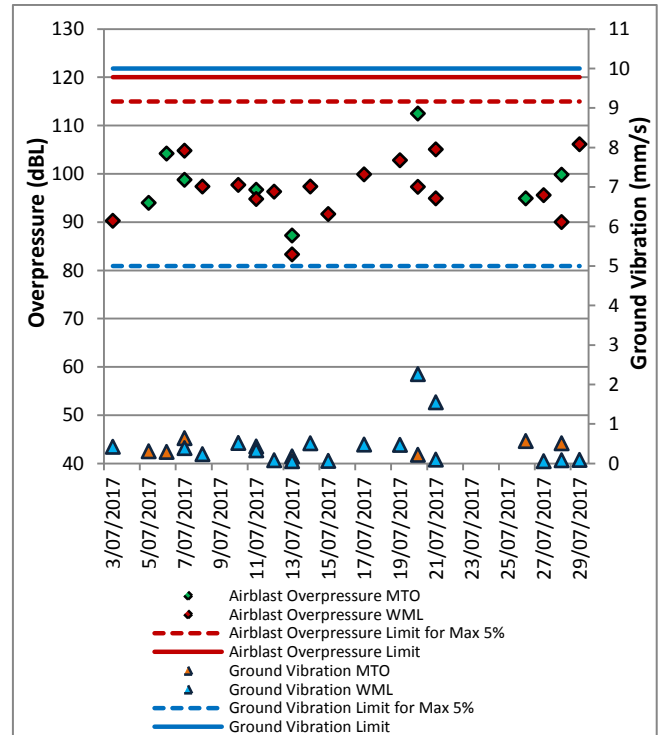


Figure 14: Warkworth Blast Monitoring Results - July 2017



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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 nine 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 night of 6th/7th July 2017. 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.

Table 3: LAeq, 15 minute Warkworth Impact Assessment Criteria – July 2017

Location	Date and Time	Wind Speed (m/s) ⁵	Stability Class	Criterion (dB(A))	Criterion Applies? ^{1,6}	WML LAeq dB ^{2,4}	Exceedance ³	Total L _{Ceq} – LAeq	Revised WML LAeq ^{5,6}
Bulga RFS	6/07/2017 23:04	0.7	F	37	Yes	NM	Nil	17	NM
Bulga Village	6/07/2017 23:44	1.9	D	38	Yes	NM	Nil	20	NM
Gouldsville	6/07/2017 21:22	2.1	D	38	Yes	IA	Nil	23	IA
Inlet Rd	6/07/2017 21:00	1.5	E	37	Yes	28	Nil	21	33
Inlet Rd West	6/07/2017 21:22	1.8	E	35	Yes	IA	Nil	20	IA
Long Point	6/07/2017 21:00	1.5	E	35	Yes	IA	Nil	28	IA
South Bulga	6/07/2017 21:48	2.8	D	35	Yes	NM	Nil	18	NM
Wambo Road	7/07/2017 0:33	1.1	E	38	Yes	NM	Nil	19	NM

Notes:

1. Noise emission limits 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;
2. Estimated or measured LAeq,15minute attributed to WML;
3. NA means atmospheric conditions outside conditions specified in development consent and so criterion is not applicable;
4. Bolded results in red are possible exceedances of relevant criteria; and
5. Criterion may or may not apply due to rounding of meteorological data values.
6. Revised LAeq, 15minute level following application of low frequency noise penalty as per the INP where applicable.

Table 4: LA1, 1 minute Warkworth - Impact Assessment Criteria – July 2017

Location	Date and Time	Wind Speed (m/s) ⁵	Stability Class	Criterion dB	Criterion Applies? ^{1,5}	WML LA1, 1min dB ^{2,4}	Exceedance ³
Bulga RFS	6/07/2017 23:04	0.7	F	47	Yes	40	Nil
Bulga Village	6/07/2017 23:44	1.9	D	48	Yes	39	Nil
Gouldsville	6/07/2017 21:22	2.1	D	48	Yes	IA	Nil
Inlet Rd	6/07/2017 21:00	1.5	E	47	Yes	40	Nil
Inlet Rd West	6/07/2017 21:22	1.8	E	45	Yes	IA	Nil
Long Point	6/07/2017 21:00	1.5	E	45	Yes	IA	Nil
South Bulga	6/07/2017 21:48	2.8	D	45	Yes	40	Nil

Wambo Road	7/07/2017 0:33	1.1	E	48	Yes	NM	Nil
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Notes

1. Noise emission limits 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;
2. Estimated or measured LA1,1minute attributed to Warkworth mine (WML);
3. NA in exceedance column means atmospheric conditions outside conditions specified in project approval and so criterion is not applicable. NA (not applicable) in criterion column means criterion not specified for this location;
4. Bolded results in red are possible exceedances of relevant criteria; and
5. Criterion may or may not apply due to rounding of meteorological data values.

5.1.3 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 – July 2017

Location	Date and Time	Wind Speed (m/s) ⁵	Stability Class	Criterion dB	Criterion Applies? ^{1,5}	MTO LAeq dB ^{2,4}	Exceedance ³	Total LAeq – LAeq	Revised MTO LAeq ^{4,6}
Bulga RFS	6/07/2017 23:04	0.7	F	37	Yes	34	Nil	17	39
Bulga Village	6/07/2017 23:44	1.9	D	38	Yes	33	Nil	20	38
Gouldsville	6/07/2017 21:22	2.1	D	35	Yes	IA	Nil	23	IA
Inlet Rd	6/07/2017 21:00	1.5	E	37	Yes	IA	Nil	21	IA
Inlet Rd West	6/07/2017 21:22	1.8	E	35	Yes	IA	Nil	20	IA
Long Point	6/07/2017 21:00	1.5	E	35	Yes	<25	Nil	24	<30
South Bulga	6/07/2017 21:48	2.8	D	36	Yes	27	Nil	18	32
Wambo Road	7/07/2017 0:33	1.1	E	38	Yes	NM	Nil	19	NM

Notes:

1. Noise emission limits 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;
2. Estimated or measured LAeq,15minute attributed to MTO;
3. NA means atmospheric conditions outside conditions specified in development consent and so criterion is not applicable;
4. Bolded results in red are possible exceedances of relevant criteria; and
5. Criterion may or may not apply due to rounding of meteorological data values.
6. Revised LAeq, 15minute level following application of low frequency noise penalty as per the INP where applicable.

Table 6: LA1, 1Minute Mount Thorley - Impact Assessment Criteria – July 2017

Location	Date and Time	Wind Speed (m/s) ⁵	Stability Class	Criterion dB	Criterion Applies? ^{1,5}	MTO LA1,1min dB ^{2,4}	Exceedance ³
Bulga RFS	6/07/2017 23:04	0.7	F	47	Yes	40	Nil
Bulga Village	6/07/2017 23:44	1.9	D	48	Yes	39	Nil
Gouldsville	6/07/2017 21:22	2.1	D	48	Yes	IA	Nil
Inlet Rd	6/07/2017 21:00	1.5	E	47	Yes	40	Nil
Inlet Rd West	6/07/2017 21:22	1.8	E	45	Yes	IA	Nil
Long Point	6/07/2017 21:00	1.5	E	45	Yes	IA	Nil
South Bulga	6/07/2017 21:48	2.8	D	45	Yes	40	Nil
Wambo Road	7/07/2017 0:33	1.1	E	48	Yes	NM	Nil

Notes

1. Noise emission limits 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;
2. Estimated or measured LA1,1minute attributed to Mt Thorley Operations (MTO);
3. NA in exceedance column means atmospheric conditions outside conditions specified in project approval and so criterion is not applicable. NA (not applicable) in criterion column means criterion not specified for this location;

applicable) in criterion column means criterion not specified for this location;
4. Bolded results in red are possible exceedances of relevant criteria; and
5. Criterion may or may not apply due to rounding of meteorological data values.

5.1.4 INP Low Frequency

In accordance with the requirements of the NSW Industrial Noise Policy (INP), the low frequency modification factor has been applied where appropriate. It should be noted that the Industrial Noise Policy does not give guidance on the application of the penalty where more than one target noise source is audible. The L_{Ceq} levels reported above are “Total”, or “Total mine noise” at best, and cannot be attributed accurately to a single mine. Accordingly, where the INP criteria for the application of the Low Frequency modification factor is triggered, the penalty has been applied to the dominant mine noise source (either of WML or MTO), as such resulting in the application of a 5 dB penalty to the site only L_{Aeq} for the measurements taken at Inlet Road, Bulga Village, Bulga RFS, Long Point and South Bulga. The resulting L_{Aeq} noise levels remained in compliance with the exception of the Bulga RFS monitoring location.

Resulting L_{Aeq} noise levels exceed the MTO impact assessment criteria at Bulga RFS by 2 dB due to the application of a 5 dB penalty to the site only L_{Aeq} .

MTW reports these measurements so as to ensure full disclosure, however it remains MTW's position that the prescribed methodology is unsuitable when applied to receptors at large distances from mine noise sources due to the nature of noise attenuation. Excess attenuation of noise with distance is greater for high frequency noise than it is for low frequency noise. At significant distance from a noise source (such as private residences from the MTW complex) this often results in large differentials between L_{Aeq} and L_{Ceq} . The NSW Industrial Noise Policy requires the penalty to be applied in these instances, irrespective of actual low frequency affectation. As such, MTW does not consider these instances to constitute non-compliance with the conditions of approval.

The results have been reported to the Department of Planning and Environment.



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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 July are provided in Table 7.

Table 7: Supplementary Attended Noise Monitoring Data – July 2017

No. of assessments	No. of assessments > trigger	No. of nights where assessments > trigger	% greater than trigger
556	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 July, a total of 289.4 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.

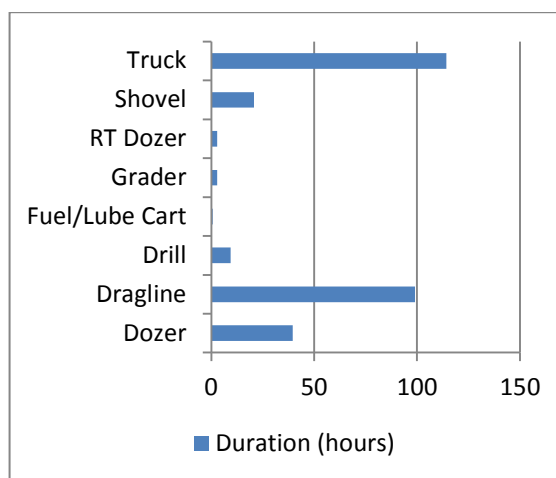


Figure 17: Operational Downtime by Equipment Type – July 2017

7.0 REHABILITATION

During July, 9.11 Ha of land was released, 13.52 Ha of land was bulk shaped, 5.98 Ha of land was topsoiled and 4.85 Ha of land was rehabilitated.

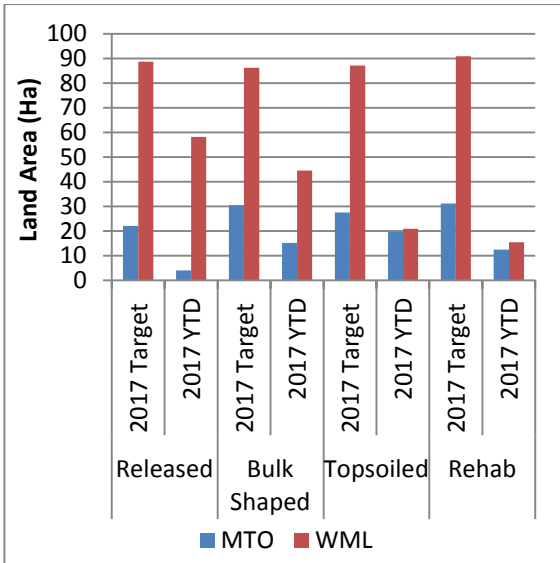


Figure 18: Rehabilitation YTD - July 2017

8.0 ENVIRONMENTAL INCIDENTS

During the reporting period there were no reportable environmental incidents.

9.0 COMPLAINTS

During the reporting period 30 complaints were received, details of these complaints are shown in Figure 19 below.

	Noise	Dust	Blast	Lighting	Other	Total
January	5	6	3	1	0	15
February	25	3	10	3	0	41
March	14	1	1	2	0	18
April	27	1	7	2	0	37
May	18	4	7	10	3	42
June	10	3	4	3	0	20
July	10	10	8	0	2	30
August	-	-	-	-	-	-
September	-	-	-	-	-	-
October	-	-	-	-	-	-
November	-	-	-	-	-	-
December	-	-	-	-	-	-
Total	109	28	40	21	5	203

Figure 19: Complaints Summary – YTD July 2017

Appendix A: Meteorological Data

Table 8: Meteorological Data – Charlton Ridge Meteorological Station – July 2017

Date	Air Temperature Maximum (°C)	Air Temperature Minimum (°C)	Relative Humidity Maximum (%)	Relative Humidity Minimum (%)	Solar Radiation Maximum (W/Sq.M)	Wind Direction Average (°)	Wind Speed Average (m/sec)	Rainfall(mm)
1/07/2017	15.1	1.9	91.4	39.6	599	197.3	1.9	0.0
2/07/2017	15.8	0.8	95.3	40.1	570	216.7	1.7	0.0
3/07/2017	15.6	0.3	95.7	50.6	767	184.7	1.6	0.0
4/07/2017	20.1	9.8	85.3	21.2	568	289.9	4.9	0.0
5/07/2017	18.0	7.9	55.7	27.6	534	326.9	1.2	0.0
6/07/2017	18.8	4.7	81.7	26.4	571	299.7	3.8	0.0
7/07/2017	18.3	1.0	90.9	27.8	582	262.1	2.0	0.0
8/07/2017	17.0	4.9	65.9	34.7	641	294.9	3.1	0.0
9/07/2017	16.6	3.2	78.7	32.2	578	275.4	3.1	0.0
10/07/2017	16.1	3.0	75.7	36.6	630	253.5	2.7	0.0
11/07/2017	16.3	1.1	85.6	35.0	644	225.4	1.9	0.0
12/07/2017	14.9	5.6	90.0	50.8	501	172.2	2.1	0.0
13/07/2017	16.9	3.1	95.1	45.5	816	187.2	2.0	0.2
14/07/2017	20.7	0.5	95.6	40.6	741	257.8	2.4	0.2
15/07/2017	17.2	6.0	94.9	51.0	550	239.3	1.9	0.0
16/07/2017	17.9	4.1	90.9	35.0	611	157.4	1.5	0.0
17/07/2017	19.2	3.4	94.5	40.6	800	229.4	1.8	0.0
18/07/2017	23.0	5.3	88.6	27.3	582	294.4	3.6	0.0
19/07/2017	16.4	6.6	71.0	34.4	824	301.3	4.6	0.0
20/07/2017	18.9	3.8	85.2	13.9	638	288.8	4.0	0.0
21/07/2017	17.0	1.9	75.2	27.8	793	211.1	1.7	0.0
22/07/2017	17.7	0.6	84.0	22.2	648	289.4	2.8	0.0
23/07/2017	19.9	3.1	57.6	15.4	630	292.0	5.4	0.0
24/07/2017	20.9	6.1	52.8	25.6	642	265.5	3.3	0.0
25/07/2017	20.4	4.2	72.5	28.7	636	292.1	3.4	0.0
26/07/2017	23.0	7.7	55.3	17.4	633	264.2	4.5	0.0
27/07/2017	18.5	3.2	80.0	28.6	632	185.8	1.5	0.0
28/07/2017	21.3	2.2	87.2	12.9	750	249.0	2.9	0.0
29/07/2017	19.9	1.3	69.8	13.0	680	296.3	3.4	0.0
30/07/2017	24.9	9.1	40.1	14.1	807	279.2	3.3	0.0
31/07/2017	18.5	8.5	82.1	31.1	351	237.2	3.0	0.4