



Managed by Rio Tinto Coal Australia

Hunter Valley Operations

Monthly Environmental Report

August 2017

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Revision History

Version No.	Person Responsible	Document Status	Date
1.0	Environmental Graduate	Draft	23/08/2017
1.0	Environmental Advisor	Final	09/10/2017

1.0 INTRODUCTION

This report has been compiled to provide a monthly summary of environmental monitoring results for Hunter Valley Operations (HVO). This report includes all monitoring data collected for the period 1st August to 31st August 2017.

2.0 AIR QUALITY

2.1 Meteorological Monitoring

HVO maintains two meteorological stations; 'Corporate' and 'Cheshunt' (Refer to Figure 4: Air Quality Monitoring Location Plan).

2.1.1 Rainfall

Rainfall for the period is summarised in Table 1, the 2017 trend and historical trend are shown in Figure 1.

Table 1: Monthly Rainfall HVO

2017	Monthly Rainfall (mm)	Cumulative Rainfall (mm)
August	13.0	356.4

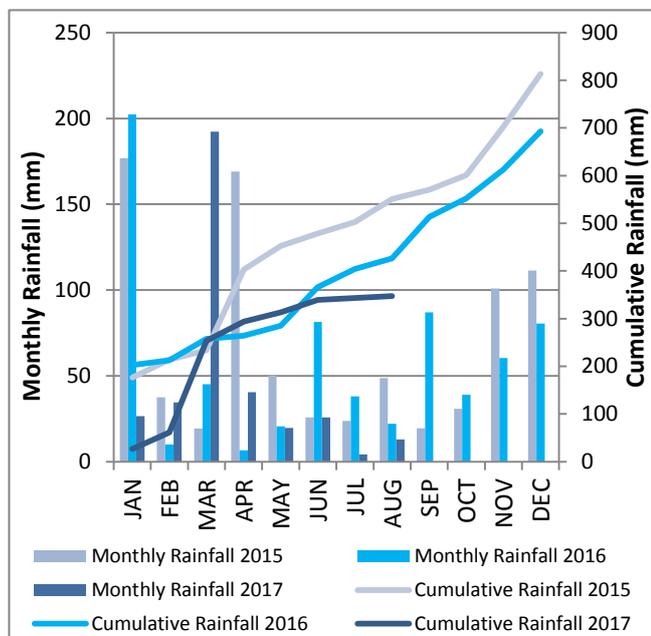


Figure 1: Year to Date Rainfall Summary 2017

2.1.2 Wind Speed and Direction

North-Westerly winds were dominant during August as shown in Figure 2 (HVO Corporate) and Figure 3 (HVO Cheshunt).

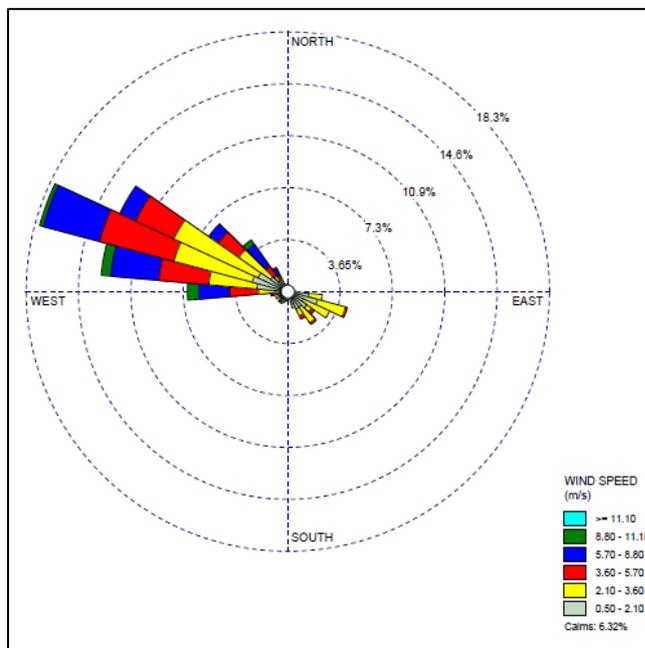


Figure 2: HVO Corporate Wind Rose – August 2017

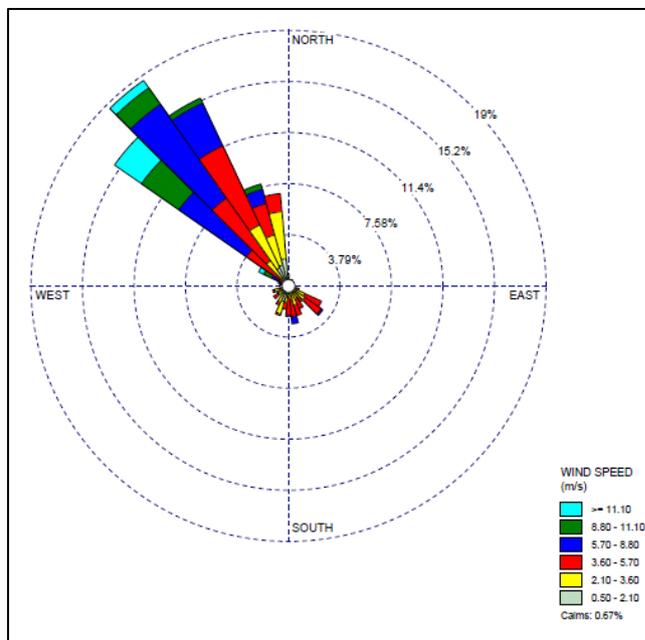


Figure 3: HVO Cheshunt Wind Rose – August 2017

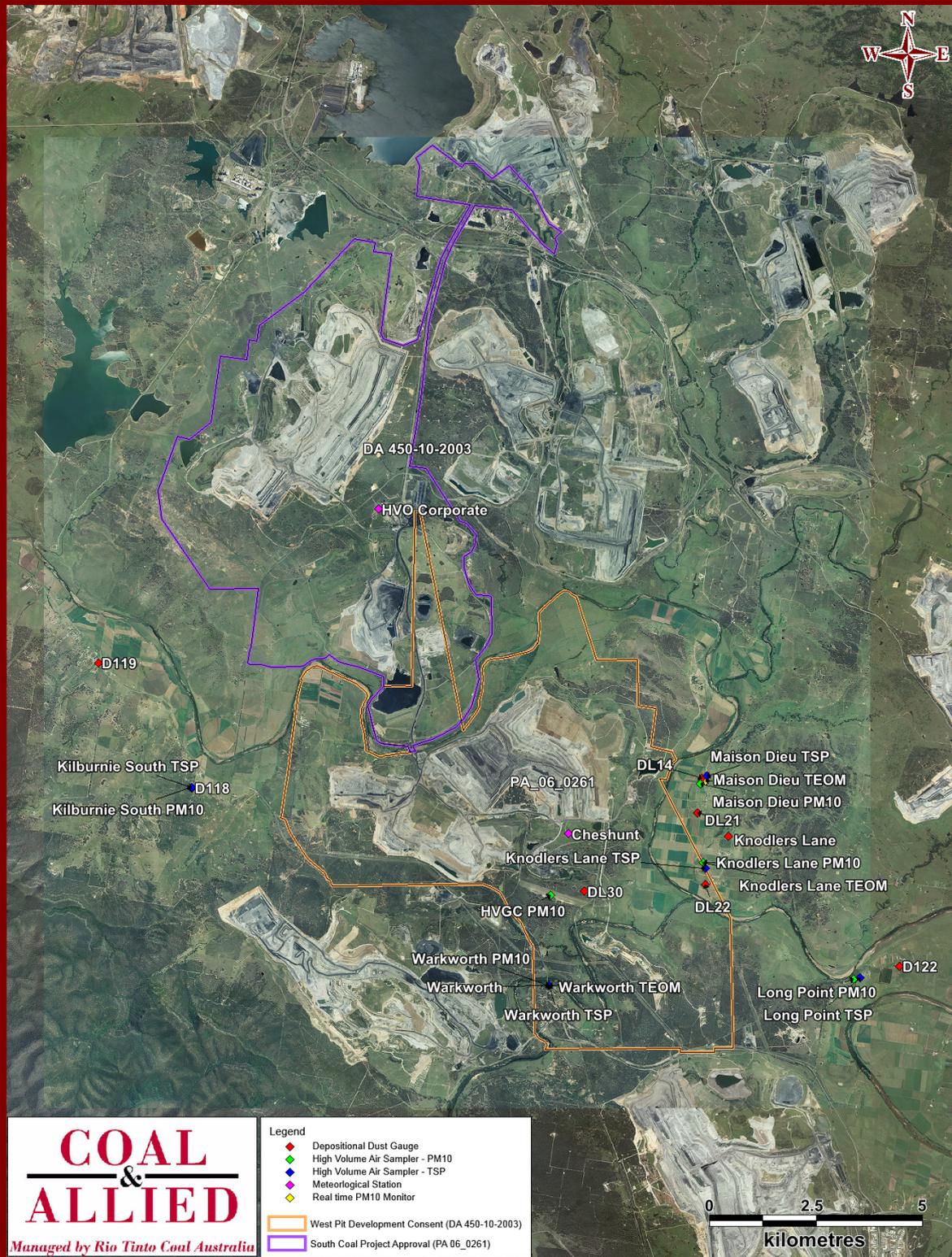


Figure 4: Air Quality Monitoring Location Plan

2.2 Depositional Dust

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

Figure 5 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 DL21 and DL30 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 DL21 and DL30 results were contaminated. Accordingly, these results will be included in the annual average calculation.

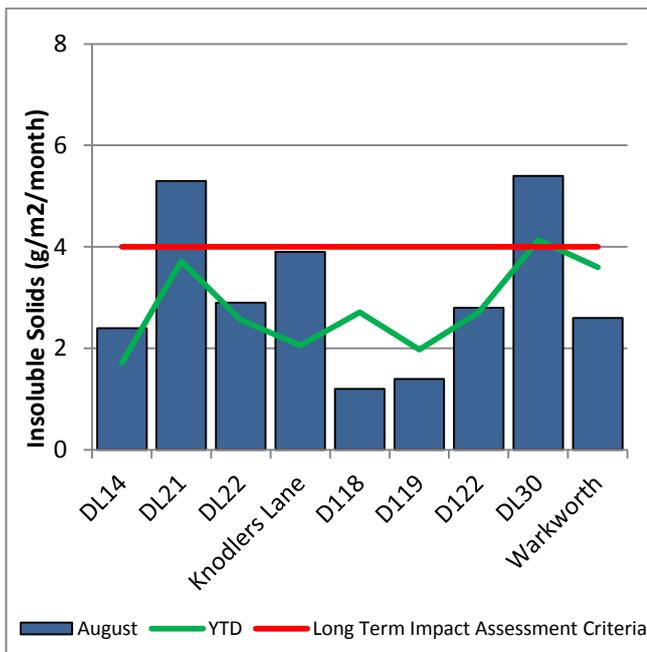


Figure 5: Depositional Dust Results – August 2017

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 4. Each HVAS was run for 24 hours on a six-day cycle.

2.3.1 HVAS PM₁₀ Results

Figure 6 shows individual PM₁₀ results at each monitoring station against the short term impact assessment criteria of 50 µg/m³.

The Long Point HVAS failed to collect a valid sample on 22 August 2017 due to equipment issues.

On 16 August 2017, four HVAS PM₁₀ units recorded a result greater than the short term (24hr) PM₁₀ impact assessment criteria; Long Point (132 µg/m³), Knodlers Lane (75 µg/m³), Maison Dieu (51 µg/m³) and Glider Club (64 µg/m³).

At the time of preparation of this report, the results at Long Point and Knodlers Lane are under external investigation, results of these investigations will be provided in the Annual Environment Report.

Internal investigation indicates that the likely HVO contribution to the results at Maison Dieu and the Glider Club on 16 August 2017 is less than 75% of the total measured concentration. It was determined that the maximum HVO potential contribution to the results is in the order of 31 µg/m³ (at Maison Dieu HVAS) and 44 µg/m³ (at Glider Club HVAS). Accordingly, no further action is required (as per approved Air Quality Management Plan).

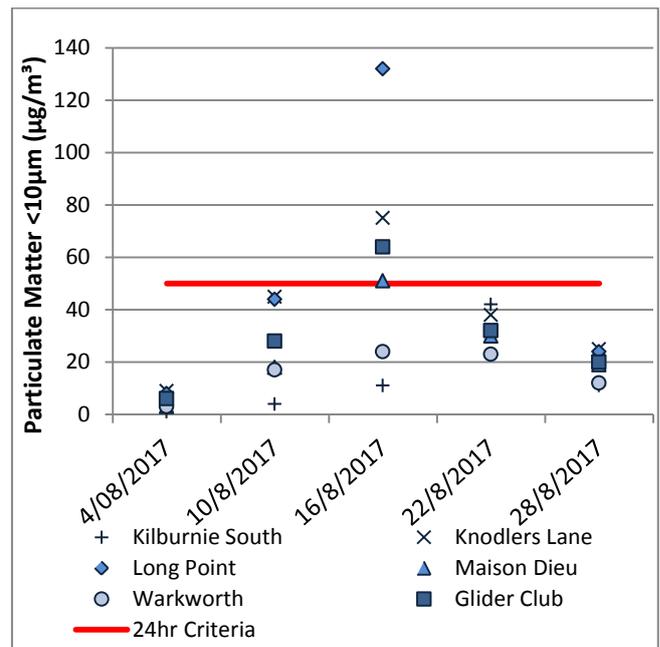


Figure 6: Individual PM₁₀ Results – August 2017

Figure 7 shows the total measured year to date annual average PM₁₀ results.

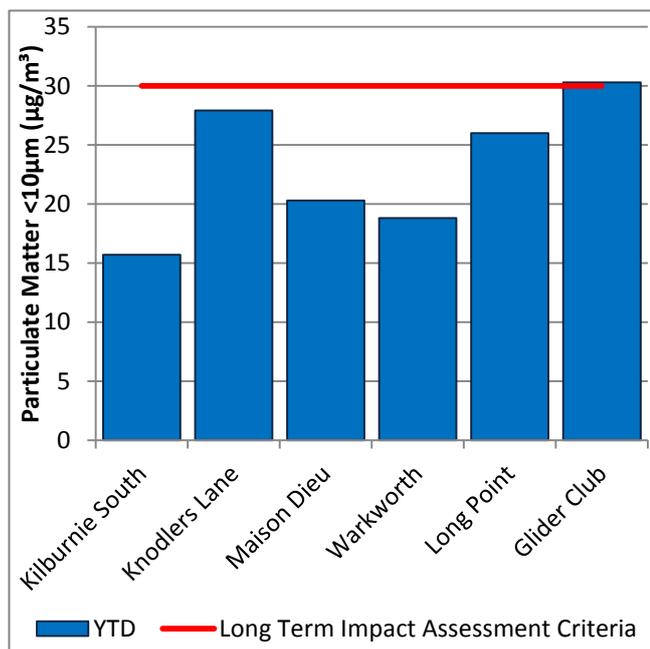


Figure 7: Year To Date Average PM₁₀ – August 2017

2.3.2 TSP Results

Figure 8 shows the year to date annual average TSP results compared against the long term impact assessment criteria of 90 µg/m³.

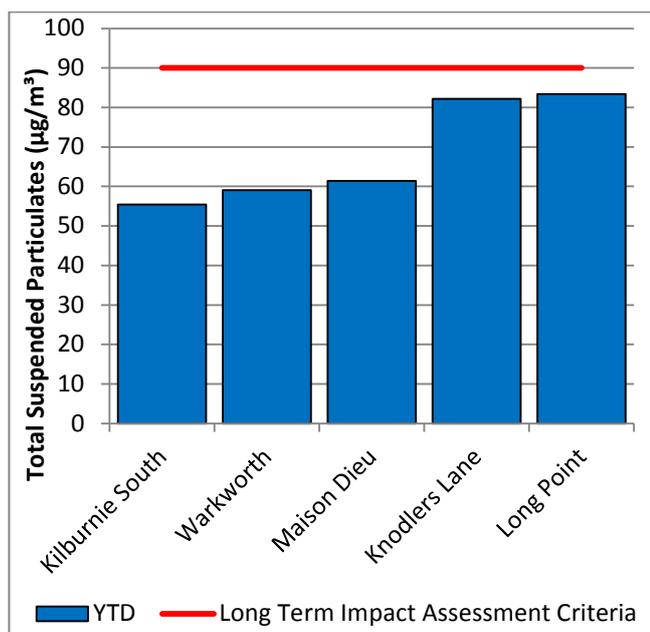


Figure 8: Year To Date Average Total Suspended Particulates - August 2017

2.3.3 Real Time PM₁₀ Results

Hunter Valley Operations 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 from real time PM₁₀ monitoring are used as a reactive measure to guide mining operations to ensure compliance with the relevant conditions of the project approval.

Results for real time dust monitoring are shown in Figure 9 including the daily 24 hour average PM₁₀ result and the 24 hour YTD PM₁₀ average. Five results recorded elevated levels at the Knodlers Lane TEOM which exceeded the short term (24hr) criteria. These measurements were assessed for HVO's maximum potential contribution based on mining activities and meteorological conditions on these days. Resulting in the following maximum estimated contributions from the direction of HVO:

- 7 August 2017 – 41 µg/m³;
- 11 August 2017 – 44 µg/m³;
- 15 August 2017 - 32 µg/m³;
- 16 August 2017 - 30 µg/m³; and
- 17 August 2017 – 43 µg/m³

2.3.4 Real Time Alarms for Air Quality

During August, the real time monitoring system generated 101 automated air quality related alarms. 33 alarms were related to adverse weather conditions and 68 alarms related to elevated PM₁₀ levels.

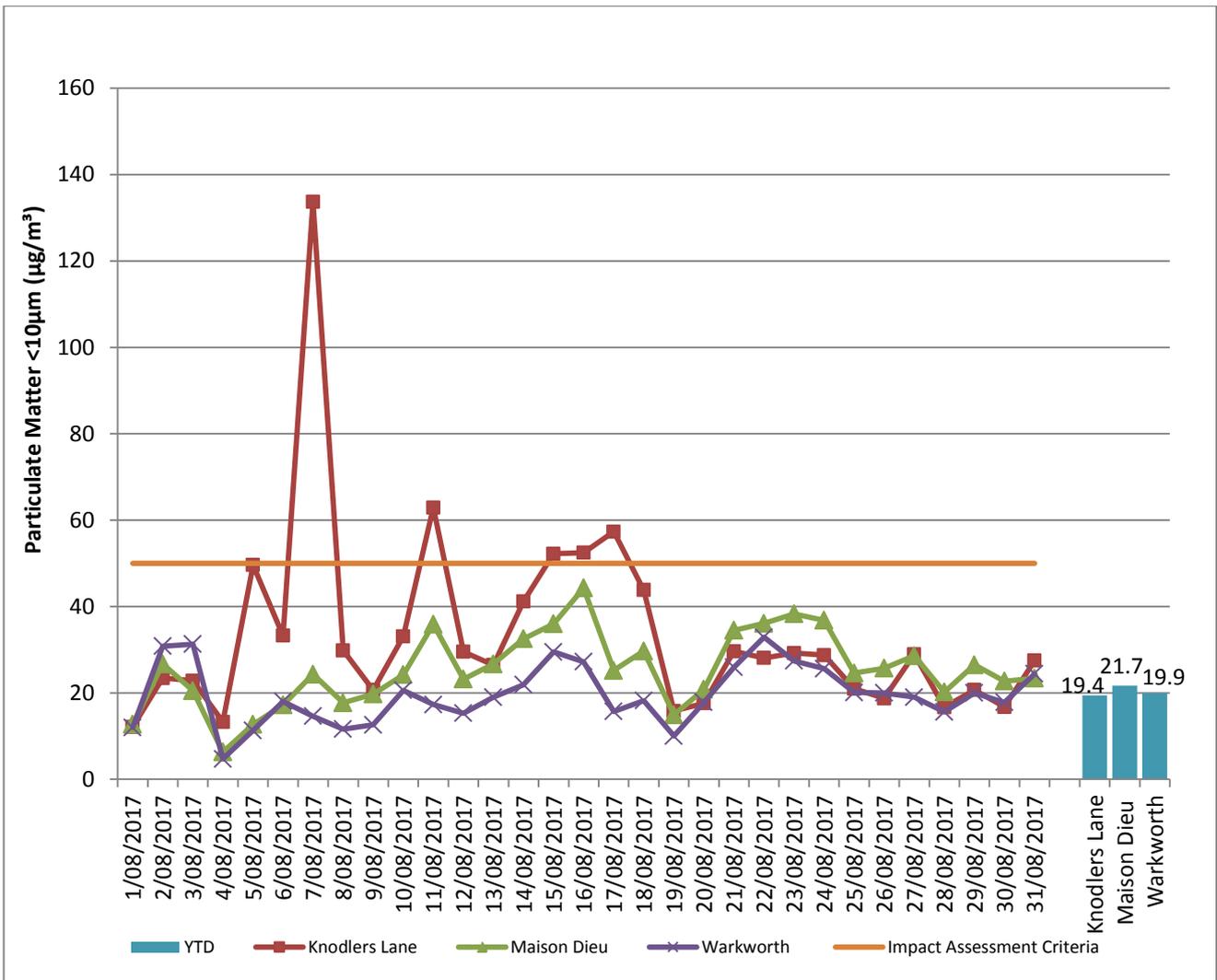


Figure 9: Real Time PM₁₀ 24hr average and YTD Average – August 2017

3.0 WATER QUALITY

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

3.1.1 Surface Water

Surface water courses are sampled on a quarterly sampling regime. Water quality is evaluated through the parameters of pH, Electrical Conductivity (EC) and Total Suspended Solids (TSS).

Results of monitoring on Site Dams and the Hunter River as well as other natural tributaries are provided on a

quarterly basis, results will appear in the September 2017 report.

3.1.2 Site Water Use

Under water allocation licences issued by the NSW DPI Water, HVO is permitted to extract water from the Hunter River. During the reporting period, HVO did not extract any water from the Hunter River.

3.1.3 HRSTS Discharge

HVO participates in the Hunter River Salinity Trading Scheme (HRSTS), allowing discharge from licensed discharge points Dam 11N (to Farrell’s Creek), Lake

James (to the Hunter River) and Parnell's Dam (to Parnell's Creek). Discharges can only take place subject to HRSTS regulations.

During the reporting period no water was discharged under the HRSTS.

3.2.1 Groundwater Monitoring Results

Groundwater monitoring is undertaken on a quarterly basis in accordance with the HVO Water Management Plan and Ground Water Monitoring Programme. Results of groundwater monitoring are reported quarterly and as such will be reported in the September 2017 monthly report.

4.0 BLAST MONITORING

HVO have a network of five 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.

During August, 28 blasts were initiated at HVO. Figure 10 through 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 there were no exceedances of the airblast overpressure or ground vibration criteria.

4.1 Blast Monitoring Results

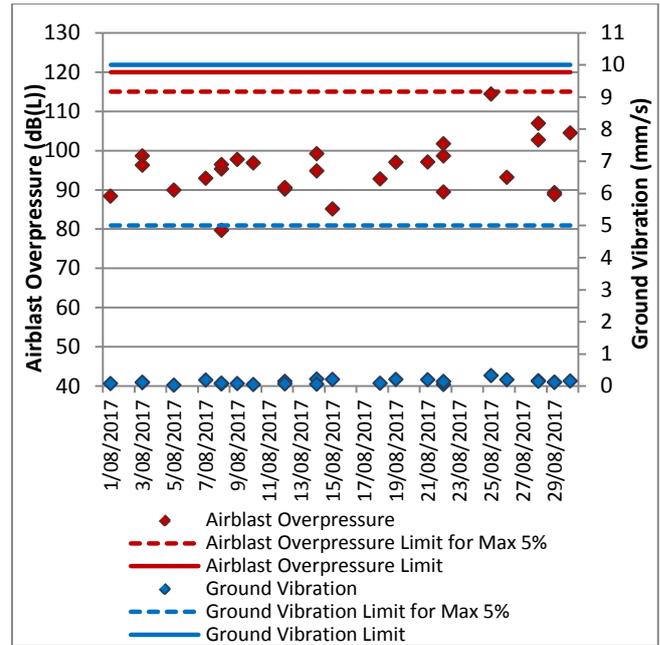


Figure 10: Moses Crossing Blast Monitoring Results – August 2017

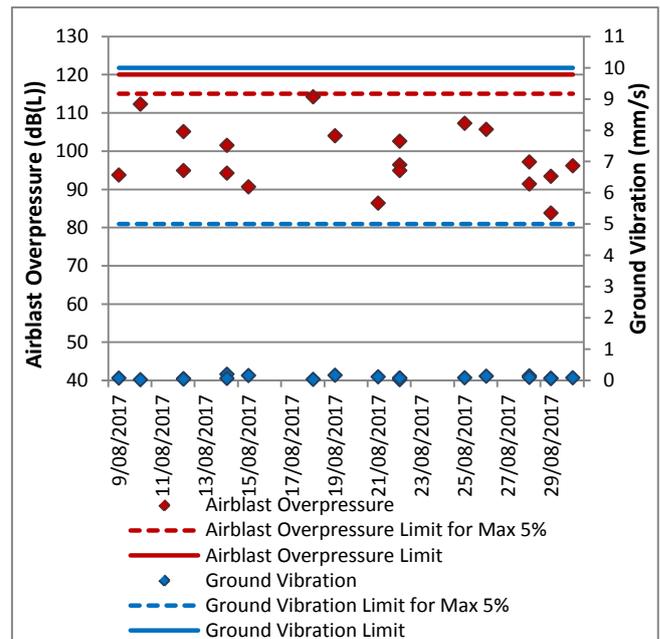


Figure 11: Jerrys Plains Blast Monitoring Results – August 2017

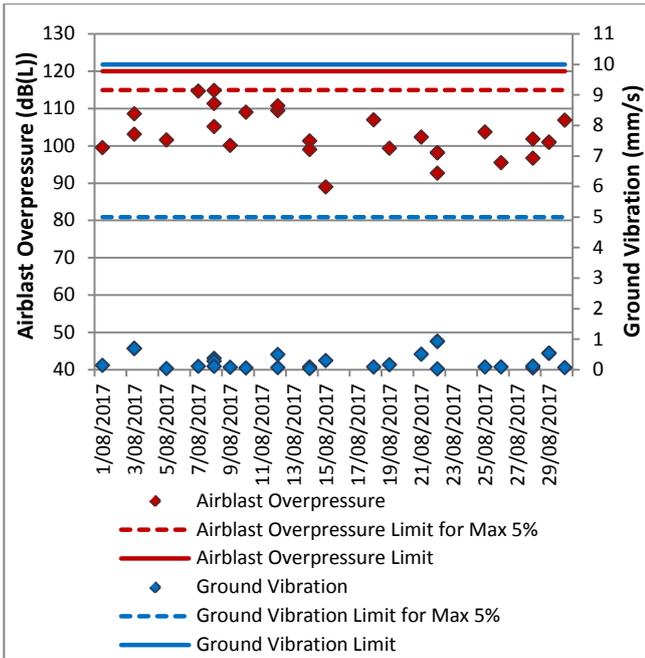


Figure 12: Maison Dieu Blast Monitoring Results – August 2017

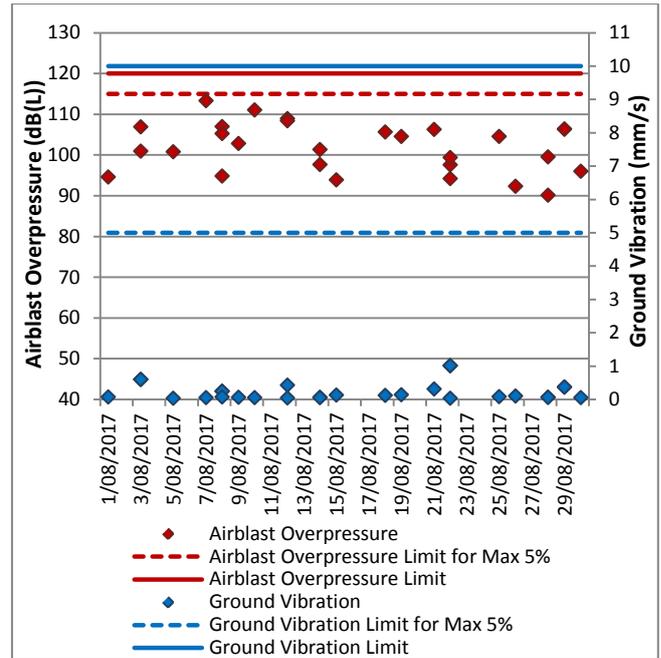


Figure 14: Knodlers Lane Blast Monitoring Results – August 2017

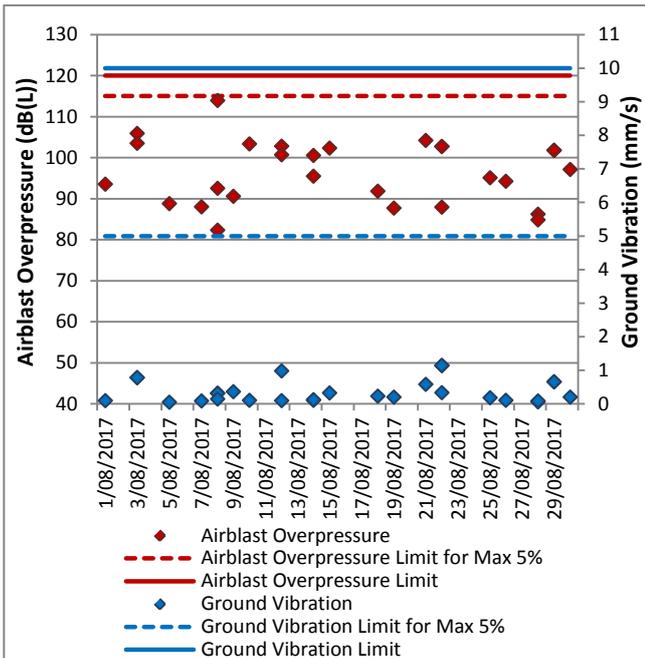


Figure 13: Warkworth Blast Monitoring Results - August 2017



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Figure 15: Blast Monitoring Location Plan

5.0 NOISE

Routine attended noise monitoring is carried out at defined locations around HVO as described in the HVO Noise Monitoring Programme. The purpose of the noise surveys is to quantify and describe the acoustic environment around the site and compare results with specified limits. Unattended monitoring (real time noise monitoring) also occurs at five sites surrounding HVO. The attended noise monitoring locations are displayed in Figure 16.

5.1 Attended Noise Monitoring Results

Attended monitoring was conducted at receiver locations surrounding HVO on the nights of 2nd and 28th of August 2017. All measurements complied with the relevant criteria. Monitoring results are detailed in Table 3 to Table 8.

Table 3: L_{Aeq}, 15 minute HVO South - Impact Assessment Criteria – August 2017

Location	Date and Time	Wind Speed (m/s) ⁵	VTG ⁵	Criterion dB	Criterion Applies? ^{1,6}	HVO South L _{Aeq} dB ^{2,4}	Exceedance ³
Knodlers Lane	28/08/2017 21:00	0.3	-1	37	Yes	IA	Nil
Maison Dieu	28/08/2017 21:23	0.8	-1	37	Yes	IA	Nil
Shearers Lane	28/08/2017 21:47	0.8	-1	41	Yes	IA	Nil
Kilburnie South	28/08/2017 22:41	0.2	-1	36	Yes	IA	Nil
Jerrys Plains Village	28/08/2017 21:30	0.8	-1	35	Yes	<30	Nil
Jerrys Plains East	28/08/2017 21:00	0.3	-1	35	Yes	<30	Nil
Long Point Road	2/08/2017 21:00	1.7	-1	35	Yes	IA	Nil
HVGC	28/08/2017 22:45	0.2	-1	55	Yes	<30	Nil

Table 4: L_{Aeq}, 15 minute HVO South - Land Acquisition Criteria – August 2017

Location	Date and Time	Wind Speed (m/s) ⁵	VTG ⁵	Criterion dB	Criterion Applies? ^{1,6}	HVO South L _{Aeq} dB ^{2,4}	Exceedance ³
Knodlers Lane	28/08/2017 21:00	0.3	-1	41	Yes	IA	Nil
Maison Dieu	28/08/2017 21:23	0.8	-1	41	Yes	IA	Nil
Shearers Lane	28/08/2017 21:47	0.8	-1	41	Yes	IA	Nil
Kilburnie South	28/08/2017 22:41	0.2	-1	41	Yes	IA	Nil
Jerrys Plains Village	28/08/2017 21:30	0.8	-1	40	Yes	<30	Nil
Jerrys Plains East	28/08/2017 21:00	0.3	-1	40	Yes	<30	Nil
Long Point Road	2/08/2017 21:00	1.7	-1	40	Yes	IA	Nil
HVGC	28/08/2017 22:45	0.2	-1	NA	NA	<30	NA

Table 5: L_{A1, 1minute} HVO South - Impact Assessment Criteria – August 2017

Location	Date and Time	Wind Speed (m/s) ⁵	VTG ⁵	Criterion dB	Criterion Applies? ^{1,6}	HVO South L _{A1, 1min} dB ^{2,4}	Exceedance ³
Knodlers Lane	28/08/2017 21:00	0.3	-1	45	Yes	IA	Nil
Maison Dieu	28/08/2017 21:23	0.8	-1	45	Yes	IA	Nil
Shearers Lane	28/08/2017 21:47	0.8	-1	45	Yes	IA	Nil
Kilburnie South	28/08/2017 22:41	0.2	-1	45	Yes	IA	Nil
Jerrys Plains Village	28/08/2017 21:30	0.8	-1	45	Yes	33	Nil
Jerrys Plains East	28/08/2017 21:00	0.3	-1	45	Yes	<30	Nil
Long Point Road	2/08/2017 21:00	1.7	-1	45	Yes	IA	Nil
HVGC	28/08/2017 22:45	0.2	-1	NA	NA	36	NA

Notes

- Noise emission limits apply for wind speeds up to 3 metres per second (at a height of 10m), or temperature inversion conditions of up to 3 degrees/100m (at a height of 10m);
- Estimated or measured L_{Aeq,15minute} dB attributed to HVO South Pit Area;
- NA in exceedance column means atmospheric conditions outside specified in approval and so criterion is not applicable;
- Bolded results in red indicate exceedance of criteria;
- Atmospheric data is sourced from the HVO Corporate weather station using logged met data;
- Criterion may or may not apply due to rounding of meteorological data values

Table 6: L_{Aeq, 15minute} HVO North – Impact Assessment Criteria – August 2017

Location	Date and Time	Wind Speed (m/s) ⁵	VTG ⁵	Criterion dB	Criterion Applies? ^{1,6}	HVO North L _{Aeq} dB ^{2,4}	Exceedance ³
Knodlers Lane	28/08/2017 21:00	0.3	-1	35	Yes	IA	Nil
Maison Dieu	28/08/2017 21:23	0.8	-1	35	Yes	IA	Nil
Shearers Lane	28/08/2017 21:47	0.8	-1	35	Yes	IA	Nil
Kilburnie South	28/08/2017 22:41	0.2	-1	39	Yes	IA	Nil
Jerrys Plains Village	28/08/2017 21:30	0.8	-1	36	Yes	IA	Nil
Jerrys Plains East	28/08/2017 21:00	0.3	-1	39	Yes	IA	Nil
Long Point Road	2/08/2017 21:00	1.7	-1	35	Yes	IA	Nil
HVGC	28/08/2017 22:45	0.2	-1	NA	NA	IA	NA

Table 7: L_{Aeq,15minute} HVO North - Land Acquisition Criteria – August 2017

Location	Date and Time	Wind Speed (m/s) ⁵	VTG ⁵	Criterion dB	Criterion Applies? ^{1,6}	HVO North L _{Aeq} dB ^{2,4}	Exceedance ³
Knodlers Lane	28/08/2017 21:00	0.3	-1	41	Yes	IA	Nil
Maison Dieu	28/08/2017 21:23	0.8	-1	41	Yes	IA	Nil
Shearers Lane	28/08/2017 21:47	0.8	-1	41	Yes	IA	Nil
Kilburnie South	28/08/2017 22:41	0.2	-1	41	Yes	IA	Nil
Jerrys Plains Village	28/08/2017 21:30	0.8	-1	41	Yes	IA	Nil
Jerrys Plains East	28/08/2017 21:00	0.3	-1	41	Yes	IA	Nil
Long Point Road	2/08/2017 21:00	1.7	-1	41	Yes	IA	Nil
HVGC	28/08/2017 22:45	0.2	-1	NA	NA	IA	NA

Table 8: LA_{1, 1minute} HVO North - Impact Assessment Criteria – August 2017

Location	Date and Time	Wind Speed (m/s) ⁵	VTG ⁵	Criterion dB	Criterion Applies? ^{1,6}	HVO North LA _{1, 1min} dB ^{2,4}	Exceedance ³
Knodlers Lane	28/08/2017 21:00	0.3	-1	46	Yes	IA	Nil
Maison Dieu	28/08/2017 21:23	0.8	-1	46	Yes	IA	Nil
Shearers Lane	28/08/2017 21:47	0.8	-1	46	Yes	IA	Nil
Kilburnie South	28/08/2017 22:41	0.2	-1	46	Yes	IA	Nil
Jerrys Plains Village	28/08/2017 21:30	0.8	-1	46	Yes	IA	Nil
Jerrys Plains East	28/08/2017 21:00	0.3	-1	46	Yes	IA	Nil
Long Point Road	2/08/2017 21:00	1.7	-1	46	Yes	IA	Nil
HVGC	28/08/2017 22:45	0.2	-1	NA	NA	IA	NA

Notes

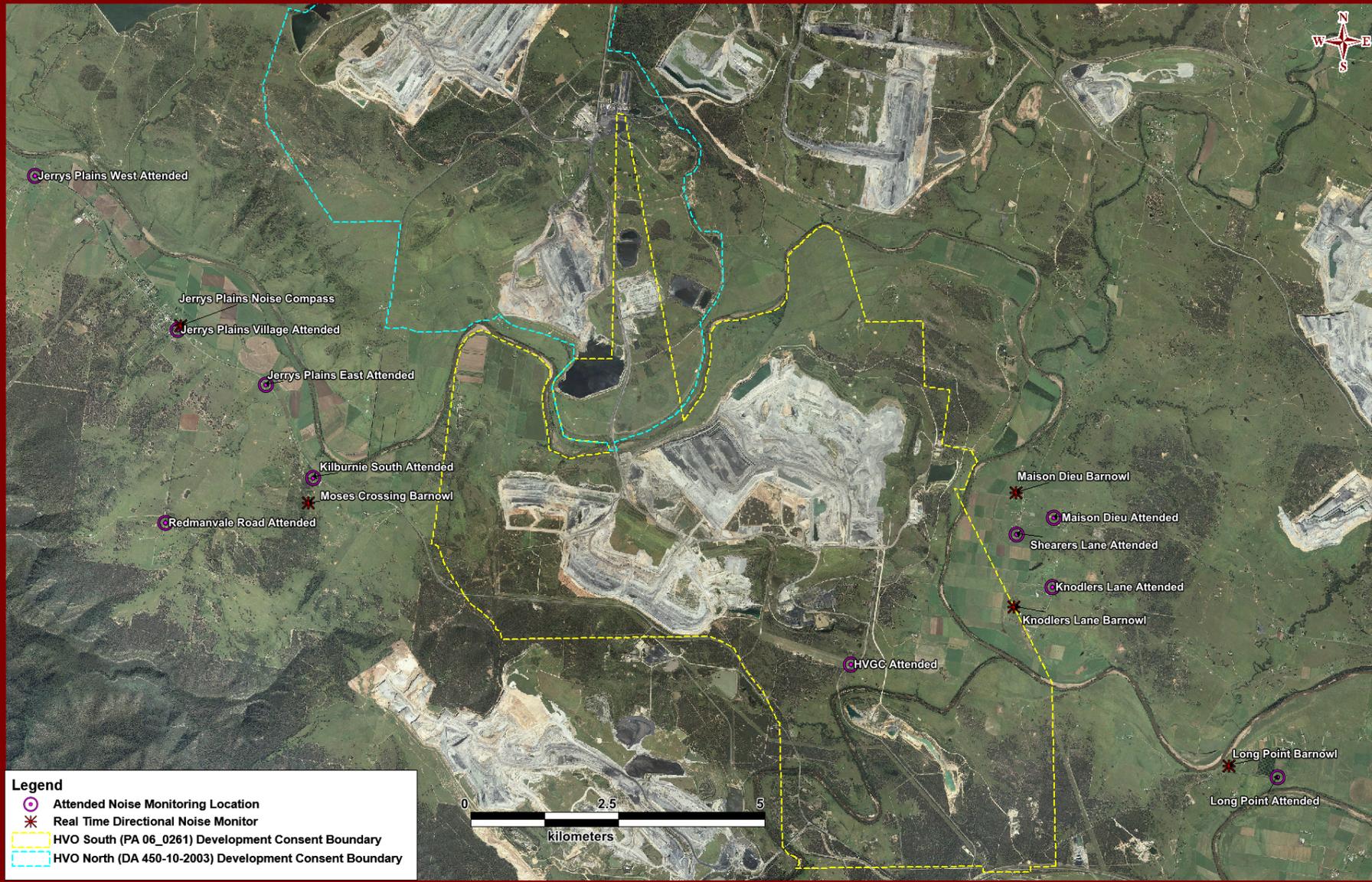
1. Noise emission limits apply under all meteorological conditions, except during periods of rain or hail, when average winds speed at microphone heights exceeds 5 metres per second, when wind speeds greater than 3 metres per second are measured at 10m above ground level, or during temperature inversion conditions greater than 3 degrees C/100m;
2. Estimated or measured L_{Aeq,15minute} dB attributed to HVO North Area;
3. NA in exceedance column means atmospheric conditions outside specified in approval and so criterion is not applicable;
4. Bolded results in red indicate exceedance of criteria;
5. Atmospheric data is sourced from the HVO Corporate weather station using logged met data;
6. Criterion may or may not apply due to rounding of meteorological data values

5.2 INP Low Frequency Assessment

In accordance with the requirements of the 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 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 penalty is triggered, the penalty has been applied to the dominant mine noise source. There were no exceedances of noise criteria following application of the INP Low Frequency modification factor during August 2017.

Hunter Valley Operations Noise Monitoring Locations

Date: 161027
Plan By: DF
Version: 2.0



RTCA - NSW Environmental Services

Figure 16: Noise Monitoring Location Plan

5.2 Real Time Noise Monitoring

HVO utilises a network of real-time directional noise monitors to manage noise impacts on a continuous basis. Noise alarms are in place at five monitoring locations (Knodlers Lane, Maison Dieu, Jerrys Plains, Moses Crossing, and Long Point), which alert HVO staff to elevated noise levels likely to be attributable to HVO. Noise alarms are investigated and responded to with the appropriate level of operational modification. Changes in response to a noise alarm can include replacing equipment with quieter (noise attenuated) units, changing or relocating tasks, and shutting down equipment.

HVO's Planning approvals stipulate noise criteria which must be met during the life of the development(s). The approvals however do not stipulate requirements or give guidance on noise affectation, or the frequency of any elevated noise event which would constitute noise affectation. Page 6 of the NSW Industrial Noise Policy (INP) comments that criteria "*seek to restrict the risk of people being highly annoyed to less than 10 percent, and to meet this for at least 90 percent of the time*".

For the purposes of assessing the effectiveness of the noise management system, HVO applies a similar approach with regard to the frequency of any elevated noise event. It should be noted that this assessment does not compliment or conflict with attended noise monitoring detailed in Section 6.1, and that real time monitoring data includes non-mine noise sources such as dogs, cows, or more commonly, road traffic.

6.0 OPERATIONAL DOWNTIME

During August, a total of 3137.3 hours of equipment downtime was logged in response to real time monitoring and visual inspections for environmental reasons such as dust, noise and meteorological conditions. Operational downtime by equipment type is shown in Figure 17.

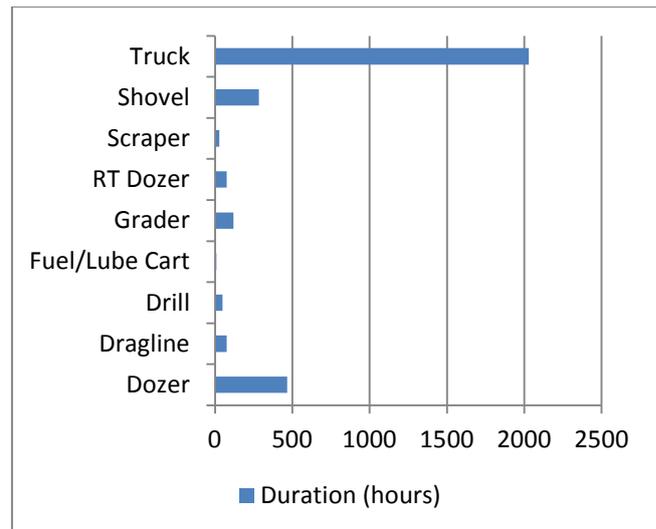


Figure 17: Operational Downtime by Equipment Type – August 2017

7.0 REHABILITATION

During August, 11.7 Ha of land was released, 36.5 Ha of land was bulk shaped, 13.8 Ha of land was topsoiled, 6.9 Ha of land was composted and 26.2 Ha of land was rehabilitated. Year to date progress can be viewed in Figure 18.

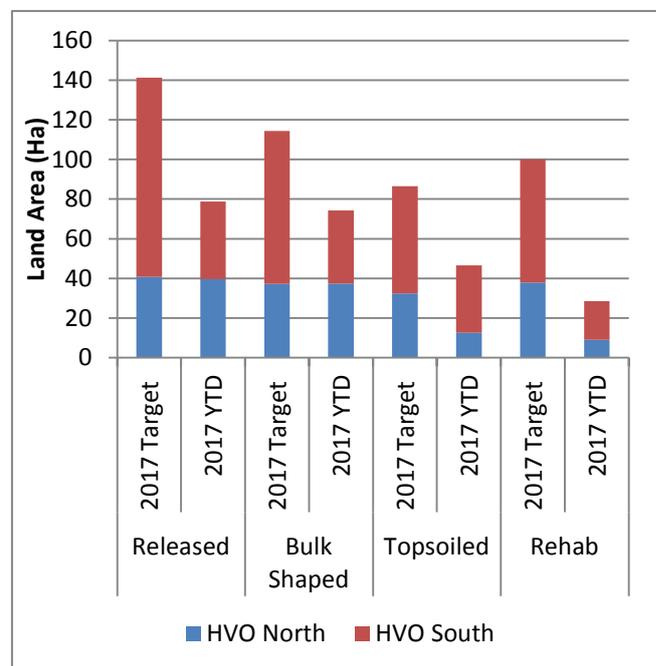


Figure 18: Rehabilitation YTD - August 2017

8.0 COMPLAINTS

Four complaints were received during the reporting period. Details of complaints received YTD are shown in Figure 19 below.

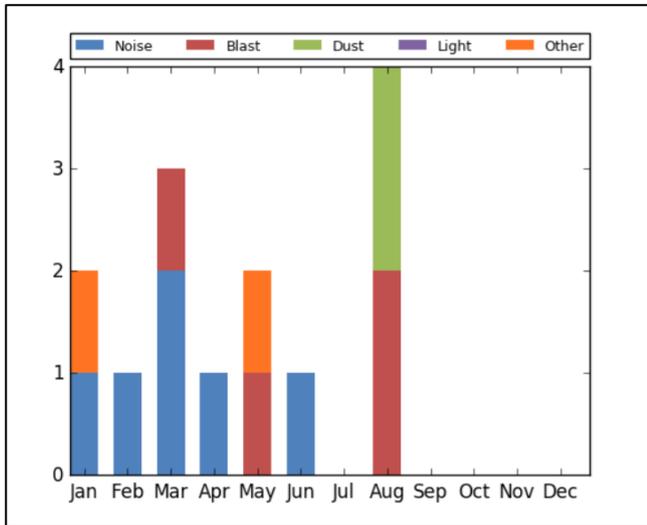


Figure 19: Complaints Graph – August 2017

9.0 ENVIRONMENTAL INCIDENTS

During the reporting period there were no reportable environmental incidents.

Appendix A: Meteorological Data

Table 9: Meteorological Data - HVO Corporate Meteorological Station – August 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)
1/08/2017	17.9	4.3	91.3	34.0	627	223.0	2.3	0.0
2/08/2017	17.4	0.8	100.0	26.9	614	105.0	0.9	0.0
2/08/2017	16.8	4.6	100.0	58.9	904	159.3	1.6	12.6
4/08/2017	14.6	6.2	97.4	47.0	1011	293.2	5.5	0.4
5/08/2017	18.2	7.9	66.0	26.9	891	292.4	5.1	0.0
6/08/2017	19.9	5.8	64.1	26.4	638	298.3	4.7	0.0
7/08/2017	17.6	7.9	45.6	25.9	840	290.4	6.2	0.0
8/08/2017	17.5	5.3	67.4	26.2	695	295.1	5.0	0.0
9/08/2017	19.0	3.0	78.1	30.5	644	299.0	2.6	0.0
10/08/2017	22.9	7.9	70.8	17.7	686	290.6	3.5	0.0
11/08/2017	26.4	10.7	41.1	10.1	665	274.6	5.6	0.0
12/08/2017	20.4	4.8	75.1	20.5	766	290.3	4.0	0.0
13/08/2017	21.5	4.0	77.3	16.9	685	250.1	2.3	0.0
14/08/2017	22.7	3.6	82.6	11.9	708	281.5	2.4	0.0
15/08/2017	25.5	8.1	52.2	19.5	886	284.1	2.9	0.0
16/08/2017	22.5	13.3	42.9	21.5	696	292.0	6.8	0.0
17/08/2017	20.8	7.0	59.9	18.3	956	290.9	6.2	0.0
18/08/2017	15.5	7.0	49.7	26.3	818	274.8	6.9	0.0
19/08/2017	16.5	3.5	62.8	20.6	882	235.6	2.9	0.0
20/08/2017	16.6	3.4	82.3	30.1	791	178.2	1.5	0.0
21/08/2017	17.2	1.7	94.7	25.3	709	260.2	1.8	0.0
22/08/2017	20.6	3.4	84.0	16.9	701	138.0	1.5	0.0
23/08/2017	23.5	4.1	100.0	20.6	678	255.3	1.3	0.0
24/08/2017	19.9	5.5	70.1	19.8	843	186.9	2.0	0.0
25/08/2017	17.8	5.6	78.0	31.6	1010	141.9	2.3	0.0
26/08/2017	20.1	2.1	94.0	16.7	688	284.4	1.8	0.0
27/08/2017	18.8	3.6	61.4	19.2	704	274.5	4.2	0.0
28/08/2017	16.4	2.0	68.1	27.1	966	172.7	1.6	0.0
29/08/2017	17.7	-0.6	96.3	25.2	719	158.9	1.3	0.0
30/08/2017	20.5	4.3	100.0	17.4	696	235.8	1.7	0.0
31/08/2017	17.8	3.2	78.6	23.2	746	126.0	1.6	0.0

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