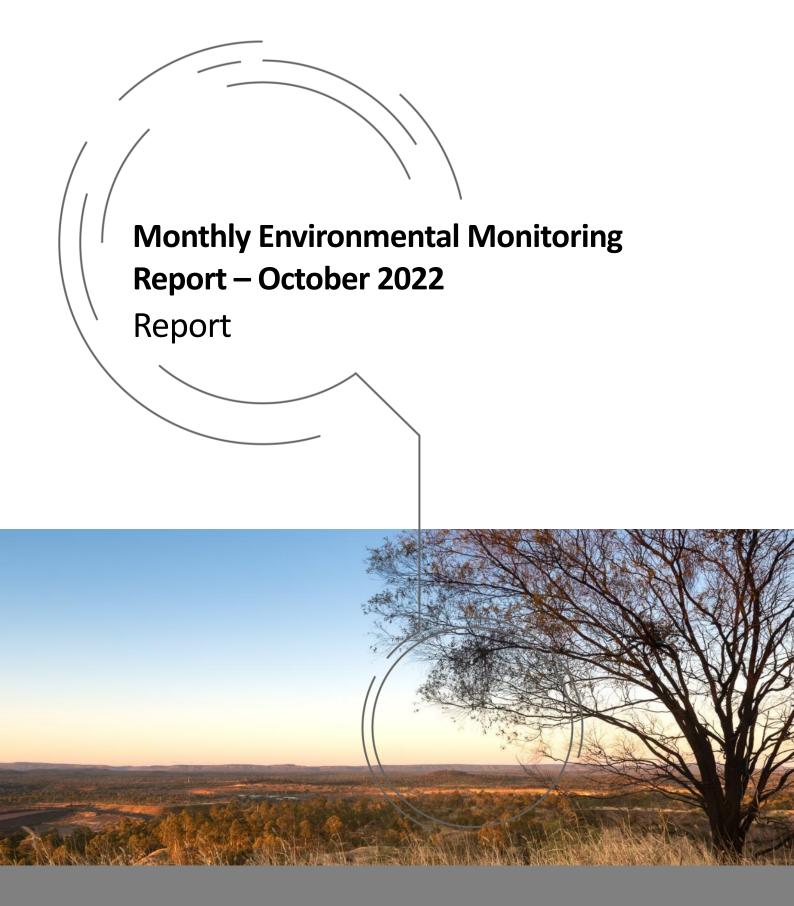
HUNTER VALLEY OPERATIONS



HUNTER VALLEY OPERATIONS

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Cumulative Rainfall (mm)

1 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 to 31st October 2022 (the 'Reporting Period').

2 Air Quality

2.1 Meteorological Monitoring

2022

HVO maintains two meteorological stations: 'HVO Corporate' and 'Cheshunt' (refer to Figure 4).

2.1.1 Rainfall

Rainfall for the period is summarised in **Table 1**. The 2020, 2021 and 2022 trends are shown in **Figure 1**.

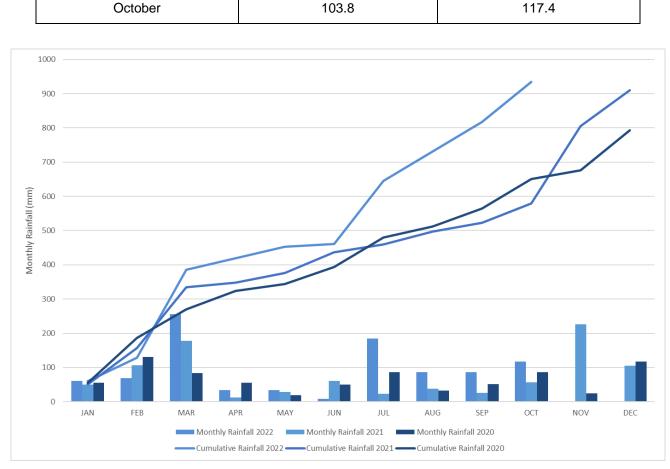


Table 1 - Rainfall data for the reporting period

Monthly Rainfall (mm)

Figure 1 - Rainfall Summary 2022

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Owner: Environment and Community Coordinator

2.1.2 Wind Speed and Direction

North-westerly to westerly winds were prevailing during the reporting period as shown in **Figure 2** (HVO Corporate) and **Figure 3** (HVO Cheshunt).

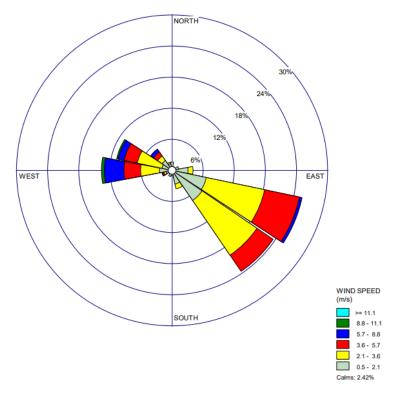


Figure 2 - HVO Corporate Wind Rose for the Reporting Period

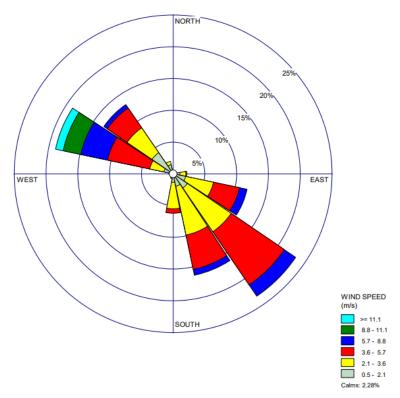


Figure 3 - HVO Cheshunt Wind Rose for the Reporting Period

Status: Approved

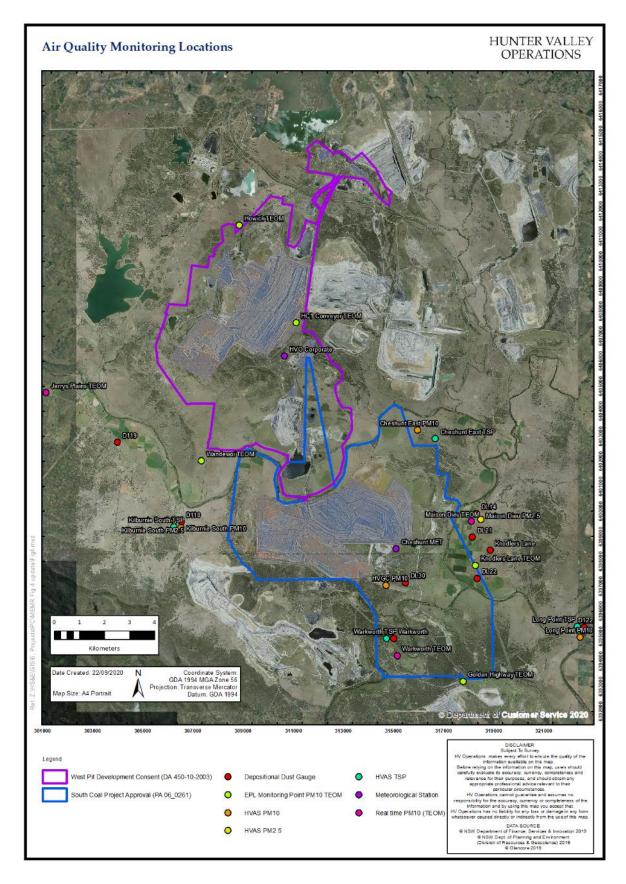


Figure 4 - Air Quality Monitoring Location Plan

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2.2 Depositional Dust

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

Figure 5 displays insoluble solids results from depositional dust gauges during the reporting period compared against the annual impact assessment criteria. Any monthly results deemed to be contaminated (due to presence of bird droppings, insects, etc.) are not displayed. An assessment of HVO's contribution against the long-term impact assessment criteria will be provided in the 2022 Annual Review.

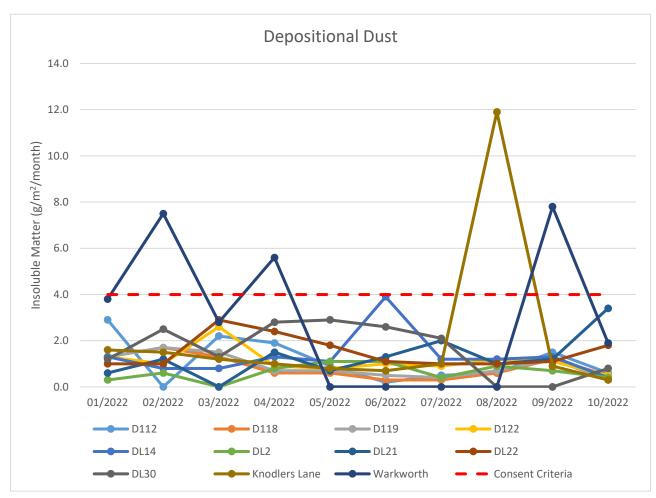


Figure 5 - Depositional Dust Results for the Reporting Period

2.3 Suspended Particles

Suspended particles are measured by a network of High Volume Air Samplers (HVAS) measuring Total Suspended Particulates (TSP) and Particulate Matter <10 μ m (PM₁₀). The Kilburnie South and Maison Dieu HVAS also monitor Particulate Matter <2.5 μ m (PM_{2.5}). The location of these monitors is presented in **Figure 4**. Each HVAS runs for 24-hours on a six-day cycle.

2.3.1 HVAS PM₁₀ Results

2.3.1.1 Performance against short term impact assessment criteria

Figure 6 shows individual PM_{10} results at each monitoring station against the short-term impact assessment criteria of $50\mu g/m^3$. An exceedance was recorded on 31 October at the Glider Club of 53.2ug/m3. This exceedance was investigated by an external consultant who confirmed that the HVO contribution was 33.5ug/m3 or 63%.

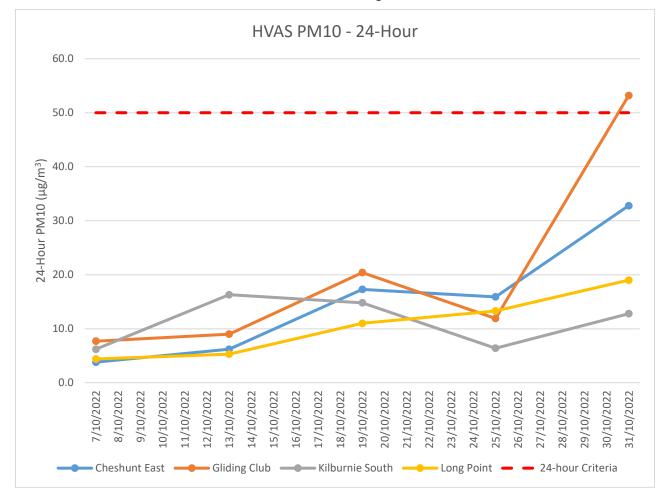


Figure 6 - Individual PM₁₀ Results for the Reporting Period

Owner: Environment and Community Coordinator

2.3.1.2 Performance against long term impact assessment criteria

Figure 7 shows the year to date annual average PM_{10} results. All monitors were below the relevant long term impact assessment criteria during the reporting period. An assessment of HVO's contribution against the long-term impact assessment criteria will be provided in the 2022 Annual Review.

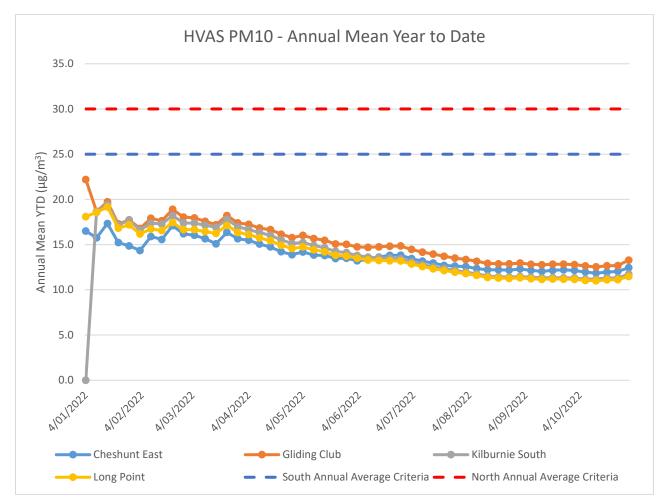


Figure 7 - Year to Date Average PM₁₀ as at end of the Reporting Period

Status: Approved

2.3.2 HVAS PM_{2.5} Results

HVO monitors PM_{2.5} at two HVAS locations, Kilburnie South and Maison Dieu.

2.3.2.1 Performance against short term impact assessment criteria

Figure 8 shows individual $PM_{2.5}$ results at each monitoring station against the HVO South short-term impact assessment criteria of $25\mu g/m^3$.

All monitors were below the relevant short-term impact assessment criteria during the reporting period.

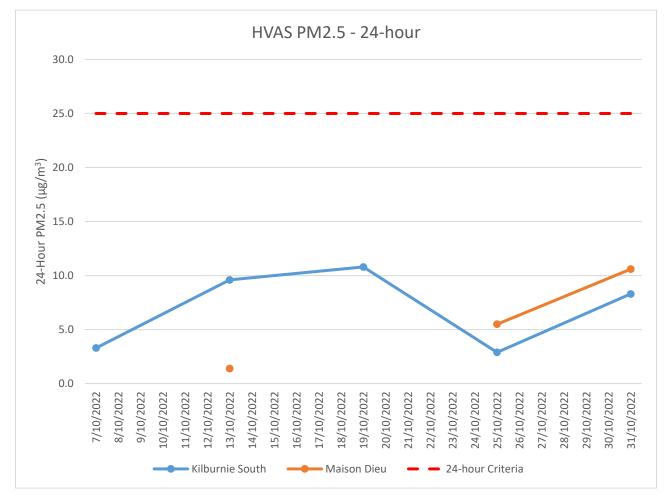


Figure 8 - Individual PM_{2.5} Results for the Reporting Period (note that data was not available on the 7th and 19th at Maison Dieu)

2.3.2.2 Performance against long term impact assessment criteria

Figure 9 shows the year to date annual average $PM_{2.5}$ results. During the reporting period, the Maison Dieu monitor and Kilburnie South monitor annual average year to date were below the $PM_{2.5}$ Annual Rolling Mean criteria of $8\mu g/m^3$.

An assessment of HVO's contribution against the long term impact assessment criteria will be provided in the 2022 Annual Review.

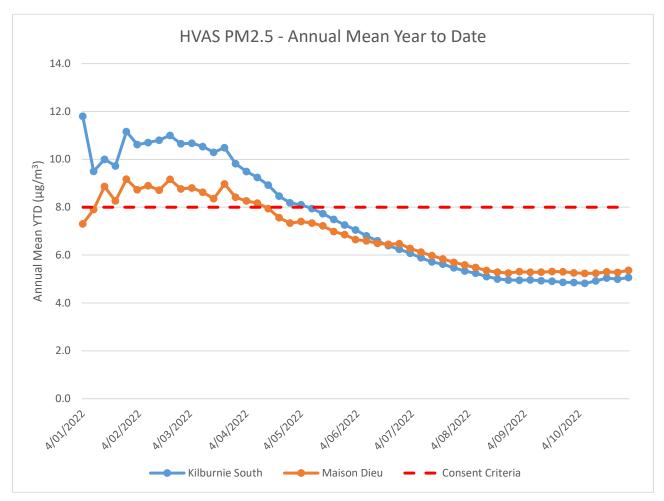


Figure 9 - Year to Date Average PM_{2.5} as at end of the Reporting Period

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2.3.3 TSP Results

2.3.3.1 Performance against long term impact assessment criteria

Figure 10 shows the annual average TSP results compared against the long-term impact assessment criteria of $90\mu g/m^3$.

All monitors were below the relevant long-term impact assessment criteria during the reporting period.

An assessment of HVO's contribution against the long-term impact assessment criteria will be provided in the 2022 Annual Review.

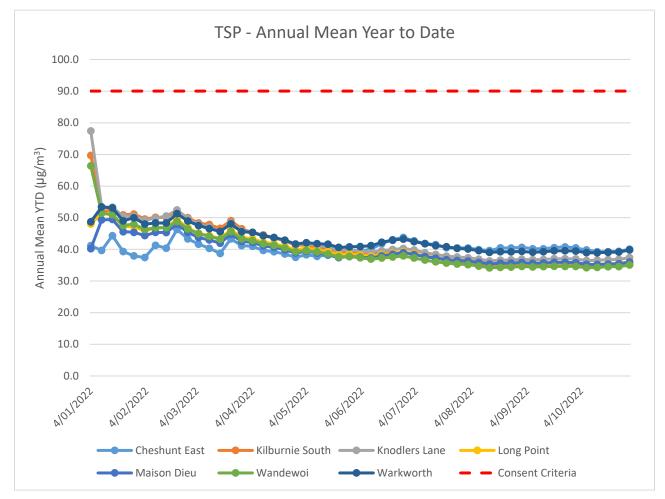


Figure 10 - Year to Date Average Total Suspended Particulates as at end of the Reporting Period

2.3.4 Real Time PM₁₀ Results

HVO maintains a network of real time PM_{10} monitors. The real time air quality monitoring stations continuously record information and transmit data to a central database, generating alarms when particulate matter levels exceed internal trigger levels. Results from real time PM_{10} monitoring are used as a reactive measure to guide mining operations to help achieve compliance with the relevant conditions of the project approval.

Figure 11 shows the daily 24-hour average PM_{10} result from the real time monitoring sites which shows no exceedances reported for the period.

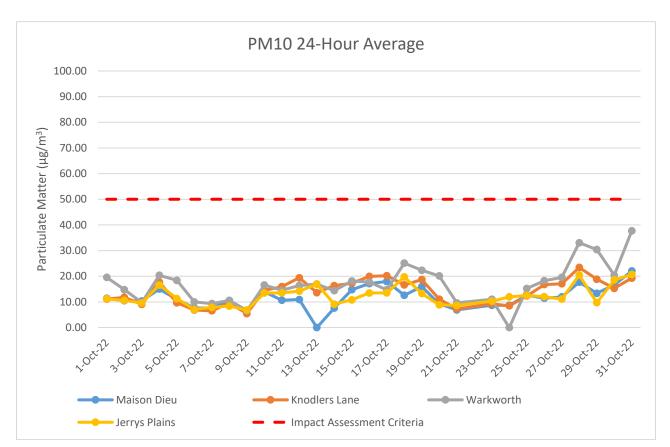


Figure 11 - Real Time PM₁₀ 24hr for the Reporting Period

Status: Approved

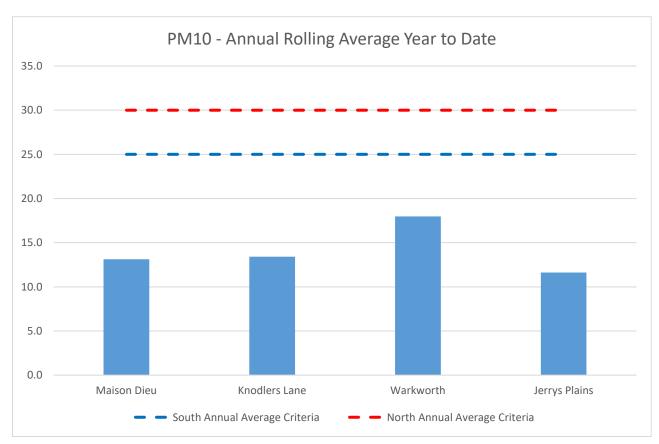


Figure 12 - Real Time PM₁₀ Annual Average October 2022

2.3.5 Real Time Alarms for Air Quality

The real time monitoring system generated 39 automated air quality related alarms during the reporting period. 35 alarms related to adverse weather conditions and 4 alarms related to dust conditions.

3 Water Quality

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

3.1 Surface Water

Surface watercourses are sampled on a quarterly sampling regime. Water quality is assessed through the parameters of pH, electrical conductivity (EC) and Total Suspended Solids (TSS). The location of surface water monitoring points across HVO is shown in **Figure 13**.

Results from monitoring on site dams, the Hunter River and other natural tributaries are provided on a quarterly basis. Results will be provided in the December 2022 Monthly Environmental Monitoring Report.

Monthly Environmental Monitoring Report - October 2022

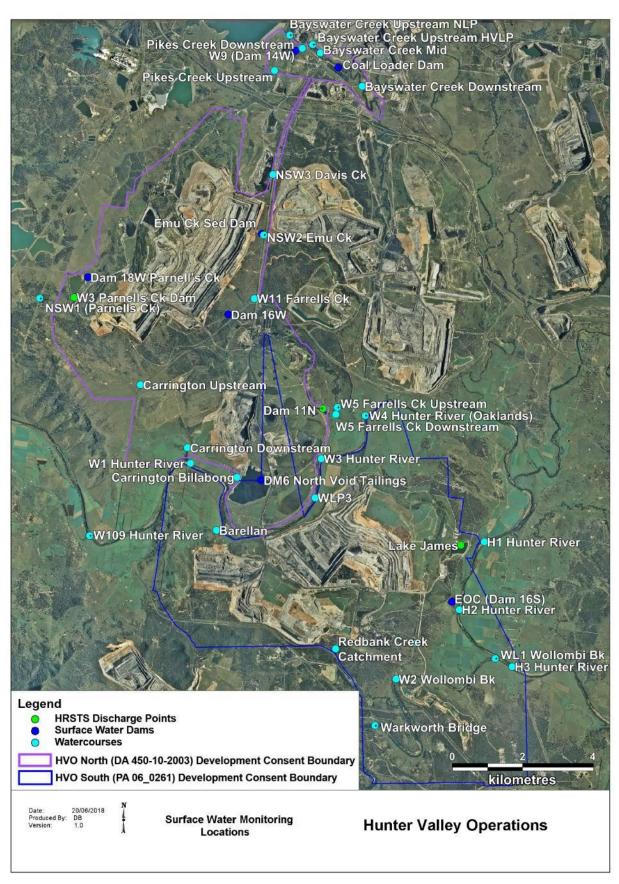


Figure 13 - HVO Surface Water Monitoring Locations

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3.1.1 Surface Water Trigger Tracking

Internal trigger limits have been developed to assess monitoring data on an on-going basis and to highlight potentially adverse surface water impacts. The process for evaluating monitoring results against the internal triggers and subsequent responses are outlined in the HVO Water Management Plan.

Surface water trigger tracking results are provided on a quarterly basis; results will appear in the December 2022 Monthly Environmental Monitoring Report.

3.2 Site Water Use

HVO is permitted to extract water from the Hunter River under water allocation licenses issued by Water NSW.

HVO did not extract water from the Hunter River during the reporting period.

3.3 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.

HVO discharged a total of 839 ML under the HRSTS during the reporting period.

3.4 **Groundwater Monitoring Results**

Groundwater monitoring is undertaken on a quarterly basis in accordance with the HVO Water Management Plan and Groundwater Monitoring Program. The location of groundwater monitoring points across HVO are show in **Figure 14.**

Groundwater monitoring results are provided on a quarterly basis. Results will be provided in the December 2022 Monthly Environmental Monitoring Report.

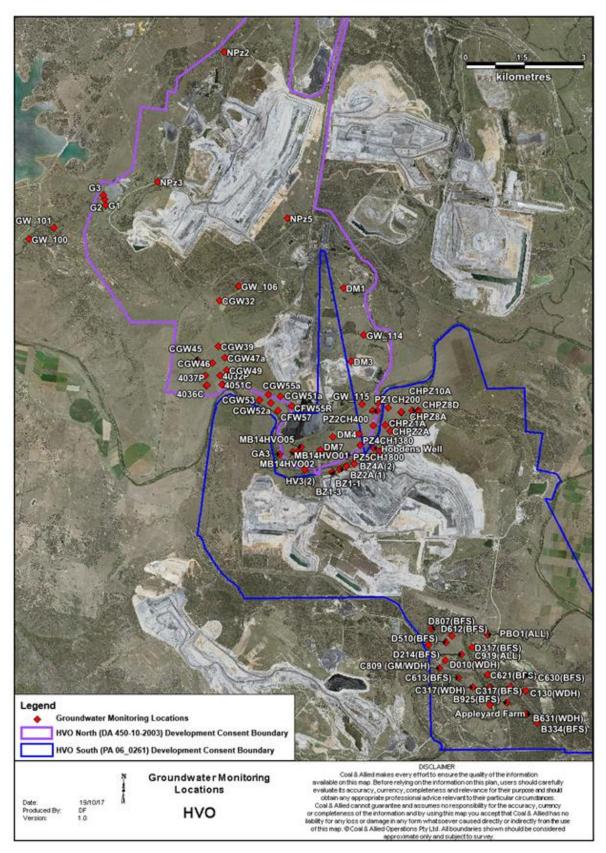


Figure 14 Groundwater monitoring Locations at HVO

Status: Approved

3.4.1 Groundwater Trigger Tracking

Internal trigger limits have been developed to assess monitoring data on an on-going basis and to highlight potentially adverse groundwater impacts. The process for evaluating monitoring results against the internal triggers and subsequent responses is outlined in the HVO Water Management Plan.

Groundwater trigger tracking results are provided on a quarterly basis. Results will be provided in the December 2022 Monthly Environmental Monitoring Report.

4 Blasting

HVO maintains a network of blast monitoring units located at nearby privately owned residences and function as regulatory compliance monitors. The location of these monitors can be found in **Figure 15**. Blasting criteria for HVO are summarised in **Table 2**.

Table 3	2 -	Blasting	Criteria
	<u> </u>	Diasting	Ontena

Airblast Overpressure (dBL)	Comments
115	5% of the total number of blasts in a 12-month period
120	0% of blasts
Ground Vibration (mm/s)	Comments
Ground Vibration (mm/s)	Comments 5% of the total number of blasts in a 12-month period

4.1 Blast Monitoring Results

Thirteen (13) blasts were initiated at HVO during the reporting period. Blast monitoring results for the period are shown in **Table 3** and **Table 4**.

Date and Time	Moses Crossing (dBL)	Jerrys Plains Village (dBL)	Maison Dieu (dBL)	Warkworth (dBL)	Knodlers Lane (dBL)
1/10/2022	99.93	109.48	101.31	94.49	95.76
4/10/2022	90.4	87.05	94.58	92.88	96.94
7/10/2022	89.69	90.39	96.75	95.94	94.31
8/10/2022	93.07	90.55	92.59	95.77	92.96
11/10/2022	92.04	109.9	99.23	95.22	95.6
12/10/2022	93.86	99.91	101.25	88.3	103.28
15/10/2022	83.62	92.74	86.78	84.03	81.94
17/10/2022	105.92	102.13	94.93	88.94	94.74
17/10/2022	105.15	100.05	105.81	100.92	105.83
19/10/2022	88	88.59	87.11	85.71	83.77
24/10/2022	81.45	82.29	85.54	89.49	88.5
27/10/2022	93.89	103.5	100.59	106.51	99.49
29/10/2022	101.89	97.09	101.03	103.36	103.82

Table 3 - Overpressure Blast Monitoring Results for the reporting period

Date and Time	Moses Crossing (mm/s)	Jerrys Plains Village (mm/s)	Maison Dieu (mm/s)	Warkworth (mm/s)	Knodlers Lane (mm/s)
1/10/2022	0.13	0.11	0.05	0.93	0.08
4/10/2022	0.23	0.07	0.42	0.87	0.43
7/10/2022	0.14	0.04	0.28	0.83	0.39
8/10/2022	0.13	0.03	0.05	0.23	0.08
11/10/2022	0.22	0.1	0.13	0.96	0.09
12/10/2022	0.14	0.05	0.03	0.33	0.08
15/10/2022	0.14	0.18	0.07	0.19	0.08
17/10/2022	0.43	0.08	0.07	0.44	0.11
17/10/2022	0.19	0.08	0.26	0.97	0.27
19/10/2022	0.25	0.14	0.1	0.15	0.09
24/10/2022	0.17	0.12	0.05	0.25	0.09
27/10/2022	0.43	0.04	0.04	0.5	0.08
29/10/2022	0.12	0.02	0.03	0.24	0.08

Table 4 - Ground Vibration Blast Monitoring Results for the reporting period

Owner: Environment and Community Coordinator

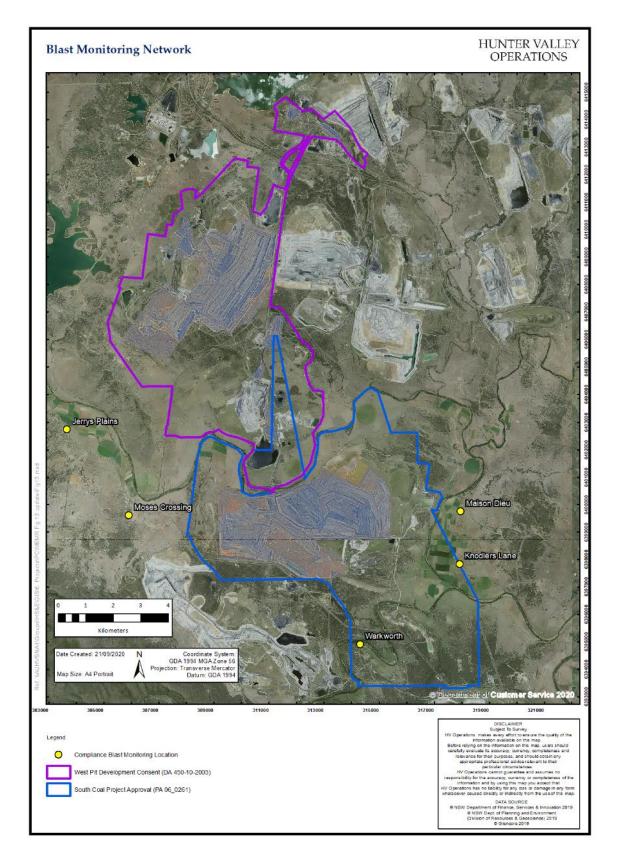


Figure 15 - Blast Monitoring Location Plan

Status: Approved

Version: 1.0 Uncontrolled when printed

5 Noise

Routine attended noise monitoring occurs at defined locations around HVO, as described in the HVO Noise Monitoring Program. The noise monitoring aims to quantify and describe the acoustic environment around the site and compare results with specified limits. The attended noise monitoring locations are displayed in **Figure 16**.

5.1 Attended Noise Monitoring Results

Attended monitoring was conducted at receiver locations around HVO during the night period of 13 and 14 October 2022.

Monitoring results are detailed in **Table 5** to **Table 9**.

Table 5 - LAeq, 15minute HVO North Against Impact Assessment Criteria for the Reporting Period

Location	Date and Time	Wind Speed (m/s) ¹	Stability Class	Criterion (A)	Criterion Applies ²	HVO North L _{Aeq} ^{3,4,5,6,}	Exceedance ^{4,5}
Shearers Lane	13/10/2022 21:00	2	F	35	Yes	IA	Nil
Knodlers Lane	13/10/2022 21:42	2.1	F	35	Yes	IA	Nil
Maison Dieu	13/10/2022 21:21	2.1	F	35	Yes	IA	Nil
Long Point (Dights Crossing)	13/10/2022 22:30	1.8	F	35	Yes	IA	Nil
Kilburnie South	13/10/2022 23:51	1.4	E	39	Yes	34	Nil
Jerrys Plains East	13/10/2022 23:25	1.6	E	39	Yes	37	Nil
Jerrys Plains Village	13/10/2022 21:40	2.1	F	40	Yes	39	Nil
Jerrys Plains West	13/10/2022 21:11	2.1	F	40	Yes	34	Nil
HVGC	14/10/2022 0:47	0.5	F	NA	Yes	IA	Nil

1. Atmospheric data is sourced from the HVO Corporate AWS using logged meteorological data;

2. Noise criteria apply under all meteorological conditions except during periods of rain or hail, wind speeds greater than 3 m/s measured at 10 metres above ground level, or temperature inversion conditions greater than 3 °C/100m (G stability class);

3. Site-only LAeq 15 minute attributed to HVO North Pit Area, including modifying factors if applicable;

4. Bold results in red indicate exceedance of criterion;

Location	Date and Time	Wind Speed (m/s) ¹	Stability Class	Criterion (A)	Criterion Applies ²	HVO North L _{Aeq} ^{3,4,6,}	Exceedance ^{4,5}
Shearers Lane	13/10/2022 21:00	2	F	41	Yes	IA	Nil
Knodlers Lane	13/10/2022 21:42	2.1	F	41	Yes	IA	Nil
Maison Dieu	13/10/2022 21:21	2.1	F	41	Yes	IA	Nil
Long Point (Dights Crossing)	13/10/2022 22:30	1.8	F	41	Yes	IA	Nil
Kilburnie South	13/10/2022 23:51	1.4	E	41	Yes	34	Nil
Jerrys Plains East	13/10/2022 23:25	1.6	E	41	Yes	37	Nil
Jerrys Plains Village	13/10/2022 21:40	2.1	F	41	Yes	39	Nil
Jerrys Plains West	13/10/2022 21:11	2.1	F	41	Yes	34	Nil
HVGC	14/10/2022 0:47	0.5	F	NA	Yes	IA	Nil

Table 6 - LAeq, 15minute HVO North Against Land Acquisition Criteria for the Reporting Period

1. Atmospheric data is sourced from the HVO Corporate AWS using logged meteorological data;

2. Noise criteria apply under all meteorological conditions except during periods of rain or hail, wind speeds greater than 3 m/s measured at 10 metres above ground level, or temperature inversion conditions greater than 3°C/100m (G stability class);

3. Site-only LAeq,15minute attributed to HVO North Pit Area, including modifying factors if applicable;

4. Bold results in red indicate exceedance of criterion; and

Location	Date and Time	Wind Speed (m/s) ¹	Stability Class	Criterion (A)	Criterion Applies ²	HVO North L _{Aeq} ^{3,4,6,}	Exceedance ^{4,5}
Shearers Lane	13/10/2022 21:00	2	F	46	Yes	IA	Nil
Knodlers Lane	13/10/2022 21:42	2.1	F	46	Yes	IA	Nil
Maison Dieu	13/10/2022 21:21	2.1	F	46	Yes	IA	Nil
Long Point (Dights Crossing)	13/10/2022 22:30	1.8	F	46	Yes	IA	Nil
Kilburnie South	13/10/2022 23:51	1.4	E	46	Yes	39	Nil
Jerrys Plains East	13/10/2022 23:25	1.6	E	46	Yes	37	Nil
Jerrys Plains Village	13/10/2022 21:40	2.1	F	46	Yes	43	Nil
Jerrys Plains West	13/10/2022 21:11	2.1	F	46	Yes	39	Nil
HVGC	14/10/2022 0:47 is sourced from the HV	0.5	F	NA	Yes	IA	Nil

1. Atmospheric data is sourced from the HVO Corporate AWS using logged meteorological data;

 Noise criteria apply under all meteorological conditions except during periods of rain or hail, wind speeds greater than 3 m/s measured at 10 metres above ground level, or temperature inversion conditions greater than 3°C/100m (G stability class);

3. Site-only LA1,1minute attributed to HVO North Pit Area;

4. Bold results in red indicate exceedance of criterion; and

Location	Date and Time	Wind Speed (m/s) ¹	Stability Class	Criterion (A)	Criterion Applies ²	HVO South L _{Aeq} ^{3.4,6,}	Exceedance ^{4,5}
Shearers Lane	13/10/2022 21:00	3.5	E	41	No	IA	NA
Knodlers Lane	13/10/2022 21:42	3.5	E	40	No	IA	NA
Maison Dieu	13/10/2022 21:21	3.5	E	39	No	IA	NA
Long Point (Dights Crossing)	13/10/2022 22:30	2.6	E	37	Yes	IA	Nil
Kilburnie South	13/10/2022 23:51	2.6	E	39	Yes	IA	Nil
Jerrys Plains East	13/10/2022 23:25	2.6	D	38	Yes	IA	Nil
Jerrys Plains Village	13/10/2022 21:40	3.5	E	35	No	IA	NA
Jerrys Plains West	13/10/2022 21:11	3.5	E	35	No	IA	NA
HVGC	14/10/2022 0:47 sourced from the HVC	2.3	D	55	Yes	IA	Nil

Table 8 - LAeg, 15minute HVO	South Against Impact Assessment	Criteria for the Reporting Period

1. Atmospheric data is sourced from the HVO Cheshunt AWS using logged meteorological data;

2. Noise criteria apply under meteorological conditions of wind speeds up to 3 m/s measured at 10 metres above ground level and temperature inversion conditions of up to 3°C/100m (G stability class);

3. Site-only LAeq,15minute attributed to HVO South Pit Area, including modifying factors if applicable;

4. Bold results in red indicate exceedance of criterion; and

Location	Date and Time	Wind Speed (m/s) ¹	Stability Class	Criterion (A)	Criterion Applies ²	HVO South L _{Aeq} ^{3,4,6,7}	Exceedance ^{4,5}
Shearers Lane	13/10/2022 21:00	3.5	E	45	No	IA	NA
Knodlers Lane	13/10/2022 21:42	3.5	E	45	No	IA	NA
Maison Dieu	13/10/2022 21:21	3.5	E	45	No	IA	NA
Long Point (Dights Crossing)	13/10/2022 22:30	2.6	E	45	Yes	IA	Nil
Kilburnie South	13/10/2022 23:51	2.6	E	45	Yes	IA	Nil
Jerrys Plains East	13/10/2022 23:25	2.6	D	45	Yes	IA	Nil
Jerrys Plains Village	13/10/2022 21:40	3.5	E	45	No	IA	NA
Jerrys Plains West	13/10/2022 21:11	3.5	E	45	No	IA	NA
HVGC	14/10/2022 0:47 is sourced from the HV	2.3	D	NA	Yes	IA	Nil

Table 9 - LA1, 1 minute HVO South Against Impact Assessment Criteria for the Reporting Period

1. Atmospheric data is sourced from the HVO Cheshunt AWS using logged meteorological data;

2. Noise criteria apply under all meteorological conditions except during periods of rain or hail, wind speeds greater than 3 m/s measured at 10 metres above ground level, stability category F conditions and wind speeds greater than 2 m/s measured at 10m above ground level, or stability category G conditions;

3. Site-only LA1,1minute attributed to HVO;

4. Bold results in red indicate exceedance of criterion; and

5.2 Low Frequency Assessment

In accordance with the requirements of the EPA's Noise Policy for Industry (NPfI), the applicability of the low frequency modification penalty has been assessed. No penalties were applied for monitoring undertaken through the reporting period. The assessments for the low frequency noise are shown in **Table 10** and **Table 11**.

Location	Date and Time	Measured HVO North L _{Aeq}	Criterion Applies?	Intermittency Modifying Factor?	Tonality Modifying Factor?	Frequency of Tonality ¹	Low- frequency Modifying Factor?	Maximum Exceedance of NPfI Reference Spectrum ^{1,2}	Total Penalty 2
Shearers Lane	13/10/2022 21:00	IA	Yes	NA	NA	NA	NA	NA	NA
Knodlers Lane	13/10/2022 21:42	IA	Yes	NA	NA	NA	NA	NA	NA
Maison Dieu	13/10/2022 21:21	IA	Yes	NA	NA	NA	NA	NA	NA
Long Point (Dights Crossing)	13/10/2022 22:30	IA	Yes	NA	NA	NA	NA	NA	NA
Kilburnie South	13/10/2022 23:51	34	Yes	No	No	NA	No	NA	Nil
Jerrys Plains East	13/10/2022 23:25	35	Yes	No	No	NA	Yes	1 dB @ 50Hz	2
Jerrys Plains Village	13/10/2022 21:40	37	Yes	No	No	NA	Yes	2 dB @ 50Hz	2
Jerrys Plains West	13/10/2022 21:11	34	Yes	No	No	NA	No	NA	Nil
HVGC	14/10/2022 0:47	IA	Yes	NA	NA	NA	NA	NA	NA

Table 10 - Modifying Factor Assessment HVO North for the Reporting Period

1. NA denotes 'not applicable'; and

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

Status: Approved

Location	Date and Time	Measured HVO South L _{Aeq}	Criterion Applies?	Intermittency Modifying Factor?	Tonality Modifying Factor?	Frequency of Tonality ¹	Low- frequency Modifying Factor?	Maximum Exceedance of NPfI Reference Spectrum ^{1,2}	Total Penalty 2
Shearers Lane	13/10/2022 21:00	IA	No	NA	NA	NA	NA	NA	NA
Knodlers Lane	13/10/2022 21:42	IA	No	NA	NA	NA	NA	NA	NA
Maison Dieu	13/10/2022 21:21	IA	No	NA	NA	NA	NA	NA	NA
Long Point (Dights Crossing)	13/10/2022 22:30	IA	Yes	NA	NA	NA	NA	NA	NA
Kilburnie South	13/10/2022 23:51	IA	Yes	NA	NA	NA	NA	NA	NA
Jerrys Plains East	13/10/2022 23:25	IA	Yes	NA	NA	NA	NA	NA	NA
Jerrys Plains Village	13/10/2022 21:40	IA	No	NA	NA	NA	NA	NA	NA
Jerrys Plains West	13/10/2022 21:11	IA	No	NA	NA	NA	NA	NA	NA
HVGC	14/10/2022 0:47	IA	Yes	NA	NA	NA	NA	NA	NA

1. NA denotes 'not applicable'; and

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

5.3 Real Time Noise Monitoring

HVO utilises a network of real-time directional noise monitors to manage noise impacts on a continuous basis, shown in **Figure 16**. 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 that require investigation.

HVO investigates and responds to noise alarms with appropriate modification to operations. Changes in response to a noise alarm can include replacing equipment with alternative units, changing or relocating tasks, or shutting down equipment. It should be noted that this assessment does not compliment or conflict with attended noise monitoring detailed in **Section 5.1**. Real time monitoring data includes non-mine noise sources such as animals, road traffic and weather.

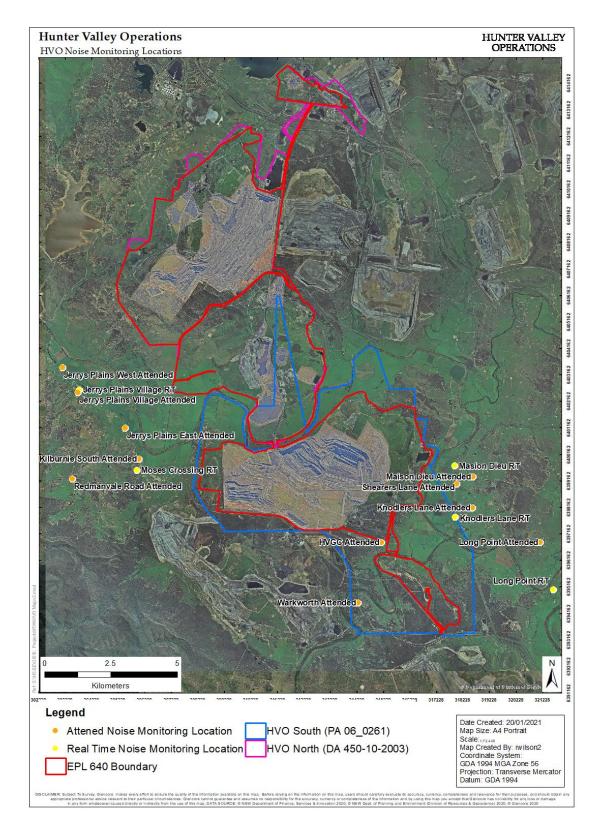


Figure 16 - Noise Monitoring Location Plan

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6 Operational Downtime

A total of 46.8 hours of equipment downtime was logged in response to real time monitoring and inspections for environmental factors such as noise and dust during the reporting period. Operational downtime by equipment type is show in **Figure 17**. Note that these delays are instances where operations were completely stopped and does not include occasions where operations were changed/modified but not stopped (e.g. changed from exposed dump to in-pit dump).

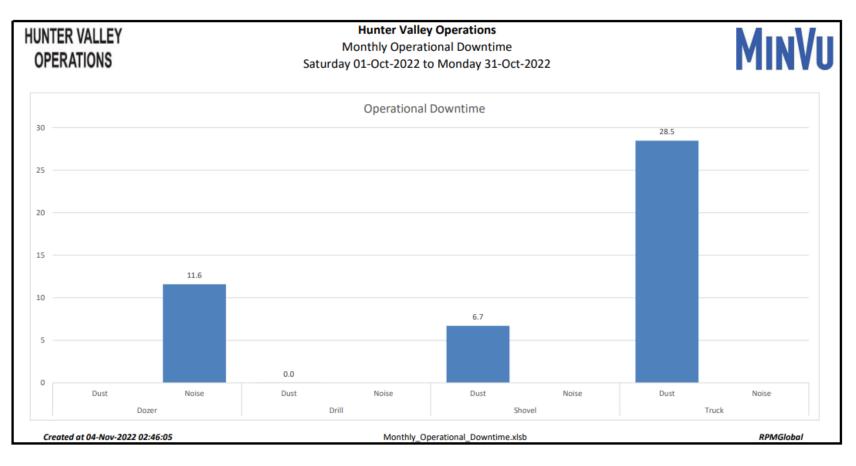


Figure 17 - Operational Downtime by Equipment Type for the reporting period

Status: Approved

7 Rehabilitation

The following activities related to rehabilitation were completed during the reporting period:

- 1.69 Ha of land was reshaped
- 1.69 Ha of land was released (became available for the application of topsoil)
- 10.93 Ha of land was topsoiled
- 10.93 Ha of land was rehabilitated

Year to date progress is shown in Figure 18.

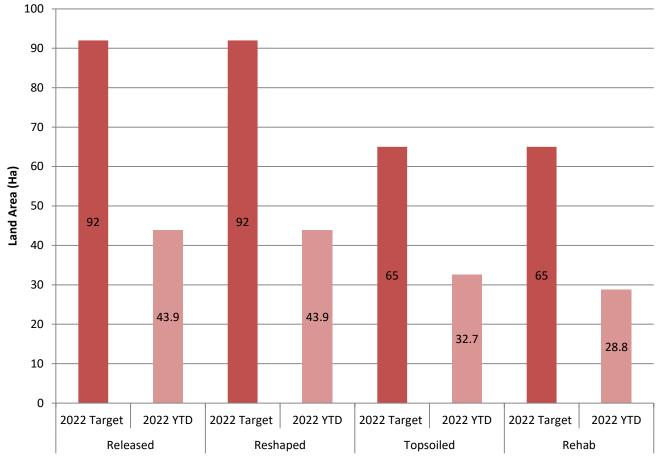


Figure 18 - Rehabilitation YTD August 2022

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8 Complaints

No complaints were received during the reporting period.

Details of complaints received for 2022 are shown in Table 12.

Table 12 - Complaints Summary 2022	Table	12 -	Com	plaints	Summar	y 2022
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Complaint Number	Date	Time	Complainant ID	Nature of Complaint	Mode of Complaint	Brief Description and Response
1	5 January	1.24pm	1	Blast	Community Hotline	 A complainant from Jerrys Plains called the Community Hotline at 1.24pm to mention that a blast fired at approximately 1:06pm was noisy and sounded like lighting had struck her house and that the windows rattled.
						• The blasting database was checked which confirmed that the blast was below the compliance criteria.
						• The Environment and Community Officer contacted the complainant who confirmed that a blast had been fired from HVO and informed the complainant of the investigation results.
2	11 February	1.05pm	2	Blast	SMS to Environment and Community Officer	• A complainant from Maison Dieu sent an SMS to the Environment and Community Officer at 1.05pm asking to record a complaint due to noise and movement from a blast fired at 1pm from HVO.
						• The Environment and Community Officer confirmed HVO blast firing times aligned with the complaint and called the complainant.

Number:	HVOOC-1797567310-44	36
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Status: Approved

Effective: 24/11/2022

Version: 1.0

Review: [Planned Review Page 35 of 39 Date]

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Complaint Number	Date	Time	Complainant ID	Nature of Complaint	Mode of Complaint	Brief Description and Response
						• The blasting database was checked which recorded overpressure and ground vibration levels at the Maison Dieu blast monitor which is the closest monitor to the complainant's property and recorded low overpressure and vibration.
3	19 March	7.35pm	3	Driving	Community Hotline	 A member of the public made a complaint about reckless driving from a vehicle observed to be entering Golden Highway from an HVO access road. Complaint was communicated internally, however vehicle was unable to be identified. A slide was included in the presentation pack at the quarterly HVO Safety Training Day about the importance of safe driving practices when driving to and
4	19 September	1.02pm	4	Dust	Community Hotline	 from HVO. A complainant from Long Point made a complaint about dust following two blasts at 12.52 and 12.53 pm from HVO. The Environment and Community Officer contacted the complainant to confirm that the dust was from a blast fired at HVO and that the complaint would be recorded. The Environment and Community Officer offered a face-to-face meeting to discuss the complaint in person. The blasting permissions for wind speed and directions between 280 and 311 degrees will be reviewed

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9 Environmental Incidents

There were no reportable environmental incidents during the reporting period:

• 07/10/2022 – Maison Dieu PM2.5 HVAS miscapture

HVO were notified by the monitoring contractor that the unit failed to run for the full monitoring day on 7 October due to a power supply failure.

Following the run failures of the previous unit on 10 April and 10 May 2022, a new HVAS unit was purchased and installed. Following this incident, an inspection of the unit set up and check of the RCD has been completed with no issues being detected. The DPE were advised of the miscapture.

• 19/10/2022 – Maison Dieu PM2.5 HVAS miscapture

HVO were notified by the monitoring contractor that the unit failed to run for the full monitoring day on 19 October due to a suspected power supply failure.

An inspection of the unit set up and check of the power supply equipment has been completed with no issues being detected. HVO are further investigating potential power quality issues following the recent failure on 7 October. DPE were advised of the miscapture.

Appendix A - Meteorological Data

Date	Air Temp Max (°C)	Air Temp Min (°C)	Relative Humidity (Max %)	Relative Humidity (Min %)	Solar Radiation Maximum (W/Sq. M)	Average Wind Direction (°)	Average Wind Speed (m/sec)	Rainfall (mm)
1/10/2022	18.1	9.05	91.3	45.09	1361	125.2	3.28	0
2/10/2022	19.27	7.235	94.8	35.94	1392	141.1	1.50	0
3/10/2022	19.19	6.202	95.7	36.46	1212	149.2	1.76	0.2
4/10/2022	23.54	7.267	92.1	27.55	1104	188	1.96	0
5/10/2022	15.37	11.39	96.4	62.04	243	120.1	3.6	13
6/10/2022	17.39	11.84	96.6	70.51	581	131.8	1.68	1.6
7/10/2022	17.16	12.18	97	81	314	156.3	0.72	25
8/10/2022	23.05	12.98	97	60.41	1399	212.7	1.77	16.8
9/10/2022	17.62	10.9	94.2	50.16	1615	151.3	2.53	3.8
10/10/2022	18.95	9.01	90.7	51.83	1393	118.3	3.37	0
11/10/2022	20.14	10.64	84.5	47.7	1572	120	3.26	0
12/10/2022	21.5	8.47	93.8	49.52	1277	119.1	3.33	0
13/10/2022	22.78	10.51	90.1	40.23	1361	129.6	2.18	0
14/10/2022	22.1	13.88	90.4	28.39	1429	259.8	4.53	2.8
15/10/2022	23.38	10.17	82.5	29.99	1029	200.6	1.98	0
16/10/2022	24.45	10.03	93	28.75	1259	216.7	1.62	0
17/10/2022	20.28	12.54	90.7	50.37	1396	129.1	3.64	0
18/10/2022	23.3	12.52	92.5	47.44	1304	115.3	2.55	0
19/10/2022	21.92	14.67	95.3	65.1	620	158.8	1.30	10.2
20/10/2022	20.71	15.75	96.3	83.9	1143	123.4	2.31	15.6
21/10/2022	22.93	15.53	96.6	58.81	1471	122.6	1.65	8.6
22/10/2022	22.96	15.25	93.7	63.99	943	149.2	1.33	3.4
23/10/2022	23.4	15.25	95.7	53.67	1397	133.3	2.53	3.2
24/10/2022	25.95	14.72	95.4	48.95	1361	126.5	2.42	0.2
25/10/2022	26.76	14.7	95.7	43.58	1410	277.6	2.86	6

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Date	Air Temp Max (°C)	Air Temp Min (°C)	Relative Humidity (Max %)	Relative Humidity (Min %)	Solar Radiation Maximum (W/Sq. M)	Average Wind Direction (°)	Average Wind Speed (m/sec)	Rainfall (mm)
26/10/2022	26.42	16.01	78.6	32.44	1424	283.9	4.65	0
27/10/2022	27.2	16.54	71.55	38.72	1724	283.1	3.90	0
28/10/2022	22.9	12.99	76.09	26.41	1251	280.2	5.61	0
29/10/2022	23.67	12.29	63.09	23.3	1077	280.5	4.77	0
30/10/2022	23.86	11.66	69.82	30.83	1145	245.2	2.82	0
31/10/2022	28.06	11.89	93.8	38.53	1502	249.3	4.02	11.6