

HUNTER VALLEY
OPERATIONS

EPL 640 MONITORING DATA – FEBRUARY 2026

DOCUMENT NUMBER
HVOOC-1797567310-5543

STATUS
Approved

VERSION
1.0

EFFECTIVE
11/05/2026

REVIEW
[Planned Review Date]

OWNER
Superintendent - Environment and Community



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1 | OVERVIEW

Environmental Protection Licence Number:	640
Licence Holder:	HV Operations Pty Ltd (HVO)
Address of Premises:	Hunter Valley Operations, Lemington Road, Singleton, NSW, 2330
Licence Holder Postal Address:	PO Box 315, Singleton, NSW, 2330
EPA Public Register Link:	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=640&id=640&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued

The locations of each sampling or monitoring point number identified in EPL 640 are displayed in Figure 1.

2 | DEFINITIONS

Abbreviation	Explanation
DNR	Data Not Received
mm/s	Millimetres per Second
dB	Decibels
g/m ² /month	Grams per Metre Square per Month
µg/m ³	Micrograms per Cubic Meter of Air
µS/cm	Microsiemens per Centimetre
pH	A measure of the acidity or alkalinity of a solution
mg/L	Milligrams per Litre
NTU	Nephelometric Turbidity Units
ML/day	Megalitres per Day (1ML = 1,000,000L)
KL/day	Kilolitres per Day
PM10	Particulate Matter of 10 Microns in diameter or smaller
HVAS	High Volume Air Sampler
TEOM	Tapered Element Oscillating Microbalance
TSP	Total Suspended Particles
TSS	Total Suspended Solids
t	tonnes
YTD	Year To Date - rolling 12 month average

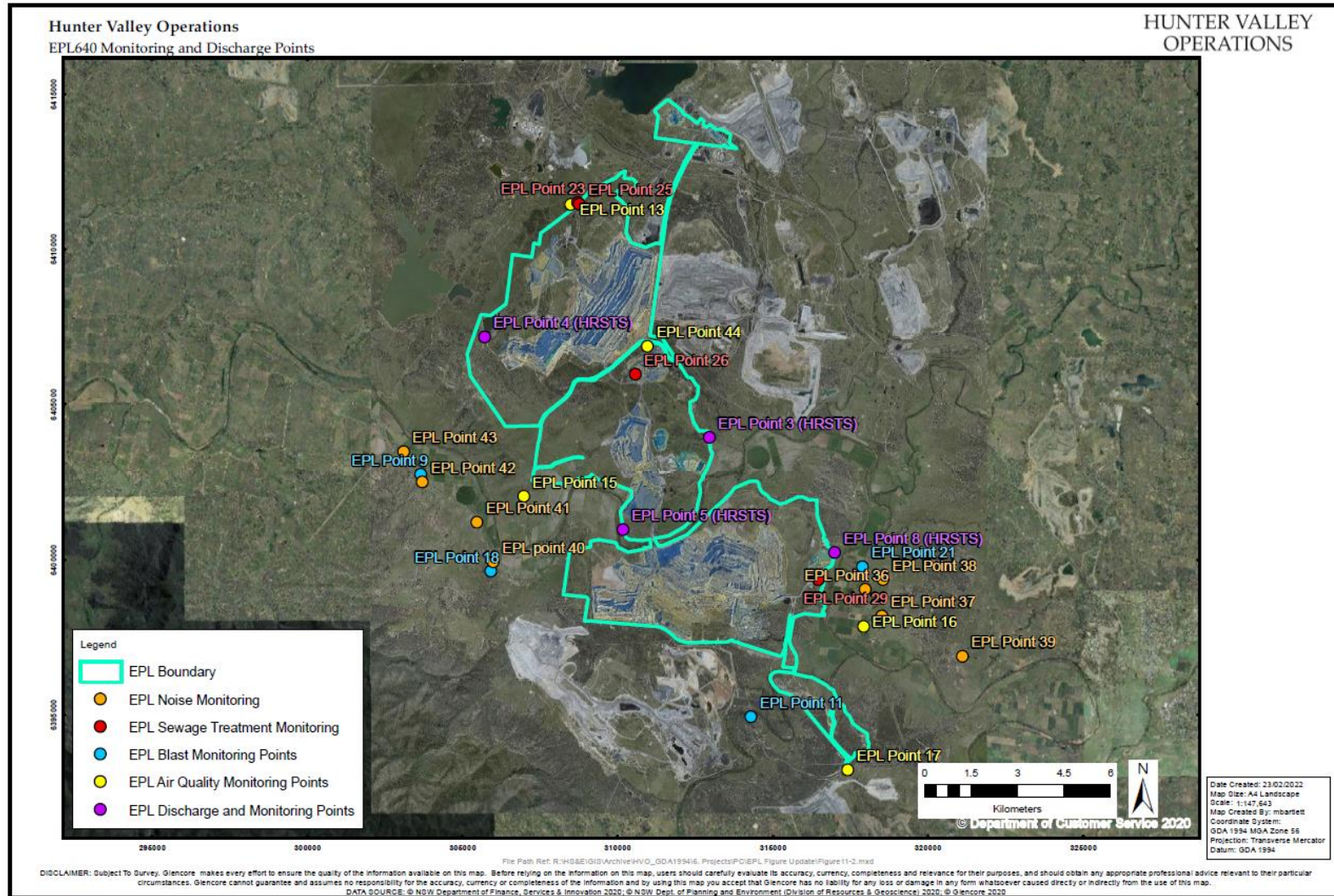
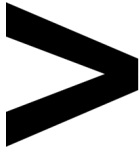


Figure 1: EPL 640 Monitoring Location

3 | AIR QUALITY

Date Last Sampled: 28/02/2026

Date Obtained: 10/04/2026

Table 1 - Particulate Matter Monitoring (<10µm)

Date	Unit of Measure	Monitoring Frequency & Capture	Monitoring Point				
			EPL ID 13 (Howick)	EPL ID 15 (Wandewoi)	EPL ID 16 (Knodlers Lane)	EPL ID 17 (Golden Highway)	EPL ID 44 (West Pit)
1/02/2026	µg/m ³	Continuous	30.4	34.1	*	46.5	54.9
2/02/2026	µg/m ³		19.1	13.3	8.8	18.1	13.3
3/02/2026	µg/m ³		21.8	16.6	12.3	18.4	16.2
4/02/2026	µg/m ³		32.5	31.2	20.3	*	40.1
5/02/2026	µg/m ³		39.1	24.9	27.1	*	98.6
6/02/2026	µg/m ³		43.1	36.3	31.2	39.5	65.8
7/02/2026	µg/m ³		18.3	22.5	18.8	22.4	47.3
8/02/2026	µg/m ³		31.7	32.2	21.9	29.6	30.4
9/02/2026	µg/m ³		13.2	15.8	14.4	26.6	25.1
10/02/2026	µg/m ³		29.6	29.8	17.1	*	*
11/02/2026	µg/m ³		22.6	46.8	23.4	*	*
12/02/2026	µg/m ³		29.8	27.3	33.3	*	*
13/02/2026	µg/m ³		20.8	18.7	10.2	19.0	*
14/02/2026	µg/m ³		24.3	23.4	14.3	16.1	13.1
15/02/2026	µg/m ³		21.2	20.3	16.1	15.4	7.5

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16/02/2026	µg/m ³		19.7	17.4	21.9	13.8	16.1
17/02/2026	µg/m ³		43.2	37.4	18.3	20.4	77.0
18/02/2026	µg/m ³		28.2	23.6	30.7	36.8	128.8
19/02/2026	µg/m ³		44.0	44.1	40.3	31.6	46.4
20/02/2026	µg/m ³		27.3	21.9	23.0	22.2	26.9
21/02/2026	µg/m ³		*	15.3	22.1	23.4	47.7
22/02/2026	µg/m ³		30.1	23.2	21.3	26.1	59.6
23/02/2026	µg/m ³		34.9	28.7	28.6	37.0	55.4
24/02/2026	µg/m ³		*	30.7	28.5	20.3	41.6
25/02/2026	µg/m ³		39.4	29.8	35.0	34.0	44.8
26/02/2026	µg/m ³		39.8	22.9	26.8	24.5	19.8
27/02/2026	µg/m ³		38.1	27.9	37.2	20.5	23.7
28/02/2026	µg/m ³		28.1	26.9	24.0	16.9	10.5
Monthly Meaningful Data							
February	µg/m ³	Minimum	13.2	13.3	8.8	13.8	7.5
	µg/m ³	Mean	29.6	26.5	23.2	25.2	42.1
	µg/m ³	Maximum	44.0	46.8	40.3	46.5	128.8
	µg/m ³	Median	29.7	25.9	22.1	22.4	40.9

* Less than 75% 24-hour data capture



4 | SURFACE WATER MONITORING DATA

No discharges under the HRSTS occurred during the reporting period.

Table 2 - HRSTS Discharge Monitoring

Discharge Point	Pollutant	Unit of Measure	Licence Limits	No. Samples Required by Licence	No. Samples Collected and Analysed
EPL ID 3 (Dam 11N)	pH	pH	6.5-9.5	0	0
	Total Suspended Solids	Milligrams per Litre	120	0	0
EPL ID 4 (Dam 9W)	pH	pH	6.5-9.5	0	0
	Total Suspended Solids	Milligrams per Litre	120	0	0
EPL ID 8 (Dam 15S)	pH	pH	6.5-9.5	0	0
	Total Suspended Solids	Milligrams per Litre	120	0	0

5 | BLAST MONITORING DATA

Date Last Sampled: 28/02/2026

Date Obtained: 02/03/2026

Table 3 – Blast Monitoring (Air Blast Overpressure)

Blast ID	Date & Time	Unit of Measure	Monitoring Frequency & Capture	EPL Limits		Monitoring Point			
				95% of Blasts	100% of Blasts	Moses Crossing EPL ID 18	Jerrys Plains EPL ID 9	Maison Dieu EPL ID 21	Warkworth EPL ID 11
P210BRN304A_P210VAX104A	3/02/2026 13:15	dB(L)	All Blasts 100%	115	120	101.22	104.56	100.46	98.14
WT12BAY07A	3/02/2026 14:59	dB(L)		115	120	105.45	97.09	106.17	93.90
WT10LDUP01A_WT10LDU106A	5/02/2026 13:05	dB(L)		115	120	97.07	92.55	99.89	95.25
WT11BP103A	7/02/2026 13:28	dB(L)		115	120	88.81	87.09	90.03	91.22
WS49BAR02A	10/02/2026 12:17	dB(L)		115	120	86.98	82.02	85.90	87.56
P210MTA310A	10/02/2026 14:26	dB(L)		115	120	92.78	84.80	95.06	95.77
P102N10P03A	13/02/2026 15:21	dB(L)		115	120	97.68	92.77	102.93	90.23

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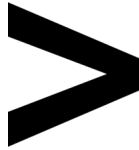
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Blast ID	Date & Time	Unit of Measure	Monitoring Frequency & Capture	EPL Limits			Monitoring Point		
				95% of Blasts	100% of Blasts	Moses Crossing EPL ID 18	Jerrys Plains EPL ID 9	Maison Dieu EPL ID 21	Warkworth EPL ID 11
P102N1005A	13/02/2026 15:22	dB(L)	All Blasts 100%	115	120	102.08	92.32	103.99	96.31
WT10LDU107A	16/02/2026 13:09	dB(L)		115	120	108.05	95.66	108.21	84.15
P10200501A	18/02/2026 13:36	dB(L)		115	120	106.34	105.06	108.57	109.98
M1B3BP901A	20/02/2026 11:35	dB(L)		115	120	97.53	99.57	99.52	93.66
WS49BAR03A	20/02/2026 13:24	dB(L)		115	120	94.02	100.24	100.36	101.98
WT12LEA201A	20/02/2026 13:27	dB(L)		115	120	91.90	88.66	100.51	94.13
P210VAX105A	23/02/2026 13:14	dB(L)		115	120	100.93	91.97	91.14	91.64
P210N4001A	26/02/2026 13:05	dB(L)		115	120	103.92	102.63	104.76	97.84
P102N1006A	27/02/2026 13:22	dB(L)		115	120	100.70	103.31	101.40	93.90

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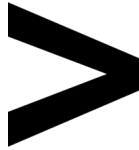
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Blast ID	Date & Time	Unit of Measure	Monitoring Frequency & Capture	EPL Limits		Monitoring Point			
				95% of Blasts	100% of Blasts	Moses Crossing EPL ID 18	Jerrys Plains EPL ID 9	Maison Dieu EPL ID 21	Warkworth EPL ID 11
WT10LDU701A	27/02/2026 15:37	dB(L)		115	120	96.95	95.27	108.37	87.58
WT11ARU601A	28/02/2026 15:18	dB(L)		115	120	102.10	95.02	102.93	87.91
WT12LEA202A	28/02/2026 15:20	dB(L)		115	120	103.87	97.72	98.34	89.63
<i>Monthly Meaningful Data</i>									
February		dB(L)	Minimum	115	120	86.98	82.02	85.90	84.15
		dB(L)	Mean	115	120	98.86	95.17	100.45	93.73
		dB(L)	Maximum	115	120	108.05	105.06	108.57	109.98
		dB(L)	Median	115	120	100.70	95.27	100.51	93.90

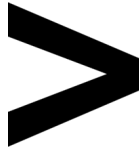


Table 4 - Blast Monitoring (Ground Vibration)

Blast ID	Date & Time	Unit of Measure	Monitoring Frequency & Capture	EPL Limits		Monitoring Point			
				95% of Blasts	100% of Blasts	Moses Crossing EPL ID 18	Jerrys Plains EPL ID 9	Maison Dieu EPL ID 21	Warkworth EPL ID 11
P210BRN304A_P210VAX104A	3/02/2026 13:15	mm/s	All Blasts 100%	5	10	0.18	0.14	0.59	0.90
WT12BAY07A	3/02/2026 14:59	mm/s		5	10	0.22	0.21	0.11	0.92
WT10LDUP01A_WT10LDU106A	5/02/2026 13:05	mm/s		5	10	0.57	0.29	0.37	0.13
WT11BP103A	7/02/2026 13:28	mm/s		5	10	0.13	0.13	0.09	0.04
WS49BAR02A	10/02/2026 12:17	mm/s		5	10	0.20	0.23	0.17	0.20
P210MTA310A	10/02/2026 14:26	mm/s		5	10	0.13	0.14	0.25	0.49
P102N10P03A	13/02/2026 15:21	mm/s		5	10	0.23	0.13	0.18	0.25
P102N1005A	13/02/2026 15:22	mm/s		5	10	0.62	0.24	0.22	0.70
WT10LDU107A	16/02/2026 13:09	mm/s		5	10	0.22	0.21	0.23	0.09

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Blast ID	Date & Time	Unit of Measure	Monitoring Frequency & Capture	EPL Limits			Monitoring Point		
				95% of Blasts	100% of Blasts	Moses Crossing EPL ID 18	Jerrys Plains EPL ID 9	Maison Dieu EPL ID 21	Warkworth EPL ID 11
P10200501A	18/02/2026 13:36	mm/s	All Blasts 100%	5	10	0.15	0.12	0.13	0.62
M1B3BP901A	20/02/2026 11:35	mm/s		5	10	0.13	0.22	0.10	0.45
WS49BAR03A	20/02/2026 13:24	mm/s		5	10	0.21	0.36	0.19	1.04
WT12LEA201A	20/02/2026 13:27	mm/s		5	10	0.20	0.19	0.11	0.09
P210VAX105A	23/02/2026 13:14	mm/s		5	10	0.08	0.12	0.10	0.24
P210N4001A	26/02/2026 13:05	mm/s		5	10	0.21	0.14	0.30	0.75
P102N1006A	27/02/2026 13:22	mm/s		5	10	0.44	0.17	0.24	0.46
WT10LDU701A	27/02/2026 15:37	mm/s		5	10	0.08	0.10	0.09	0.12
WT11ARU601A	28/02/2026 15:18	mm/s		5	10	0.08	0.10	0.09	0.09

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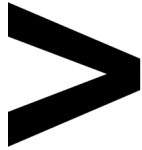
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Blast ID	Date & Time	Unit of Measure	Monitoring Frequency & Capture	EPL Limits		Monitoring Point			
				95% of Blasts	100% of Blasts	Moses Crossing EPL ID 18	Jerrys Plains EPL ID 9	Maison Dieu EPL ID 21	Warkworth EPL ID 11
WT12LEA202A	28/02/2026 15:20	mm/s		5	10	0.12	0.11	0.09	0.68
Monthly Meaningful Data									
February		mm/s	Minimum	5	10	0.08	0.10	0.09	0.04
		mm/s	Mean	5	10	0.22	0.18	0.19	0.43
		mm/s	Maximum	5	10	0.62	0.36	0.59	1.04
		mm/s	Median	5	10	0.20	0.14	0.17	0.45



6 | SEWAGE TREATMENT PLANT MONITORING DATA

Sewage treatment plant monitoring results are provided on a quarterly basis. Results will be provided in the March 2026 report.

7 | NOISE MONITORING DATA

Date Sampled: 18-19/02/2026

Date Obtained: 25/02/2026

Table 5 - Night LAeq,15minute and 1minute Generated by HVO Against EPL Criteria

Location	Start date and time	Wind		Stability class	Very enhancing? ¹	EPL limits, dB ¹		HVO levels, dB ^{2,3}		Exceedances, dB	
		Speed m/s	Direction ⁴			LAeq,15minute	LA1,1 min	LAeq,15minute ²	LA1,1 min	LAeq,15minute	LA1,1 min
Shearers Lane	18/02/2026 22:00	2.5	142	F	Yes	46	51	32	40	Nil	Nil
Knodlers Lane	18/02/2026 22:43	2.4	108	D	No	40	46	41	48	1	2
Knodlers Lane _s	18/02/2026 23:25	3.2	111	D	Yes	45	51	37	45	Nil	Nil
Maison Dieu	18/02/2026 22:22	3.3	124	D	Yes	44	51	35	43	Nil	Nil
Long Point (Dights Crossing)	19/02/2026 00:04	3.1	106	D	Yes	42	51	29	35	Nil	Nil
Moses Crossing	18/02/2026 23:53	3.1	106	D	Yes	44	51	IA	IA	Nil	Nil
Jerrys Plains East	18/02/2026 23:33	3.2	111	D	Yes	44	51	IA	IA	Nil	Nil
Jerrys Plains Village	18/02/2026 22:19	3.3	124	D	Yes	45	51	IA	IA	Nil	Nil
Jerrys Plains West	18/02/2026 22:00	2.5	142	F	Yes	45	51	IA	IA	Nil	Nil

Notes: Bold results in red indicate exceedance of criterion

- Noise limits are adjusted by +5 dB during 'very noise-enhancing meteorological conditions' in accordance with the NPfl.
- Site-only LAeq,15minute, includes modifying factor penalties if applicable.
- Site-only LA1,1minute based on measured site-only LAmax.
- Degrees magnetic north, "-" indicates calm conditions.
- Remeasured after initial measured exceedance.

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