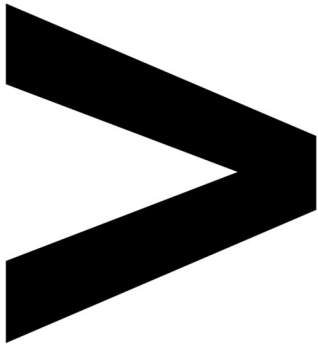




**HUNTER VALLEY  
OPERATIONS**

# **ENVIRONMENT PROTECTION LICENCE 640 MONITORING DATA - APRIL 2025**

**DOCUMENT NUMBER**

HVOOC-1797567310-5276

**STATUS**

Approved

**VERSION**

1.0

**EFFECTIVE**

16/06/2025

**REVIEW**

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**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 <sup>2</sup> /month | Grams per Metre Square per Month                        |
| µg/m <sup>3</sup>       | 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                 |

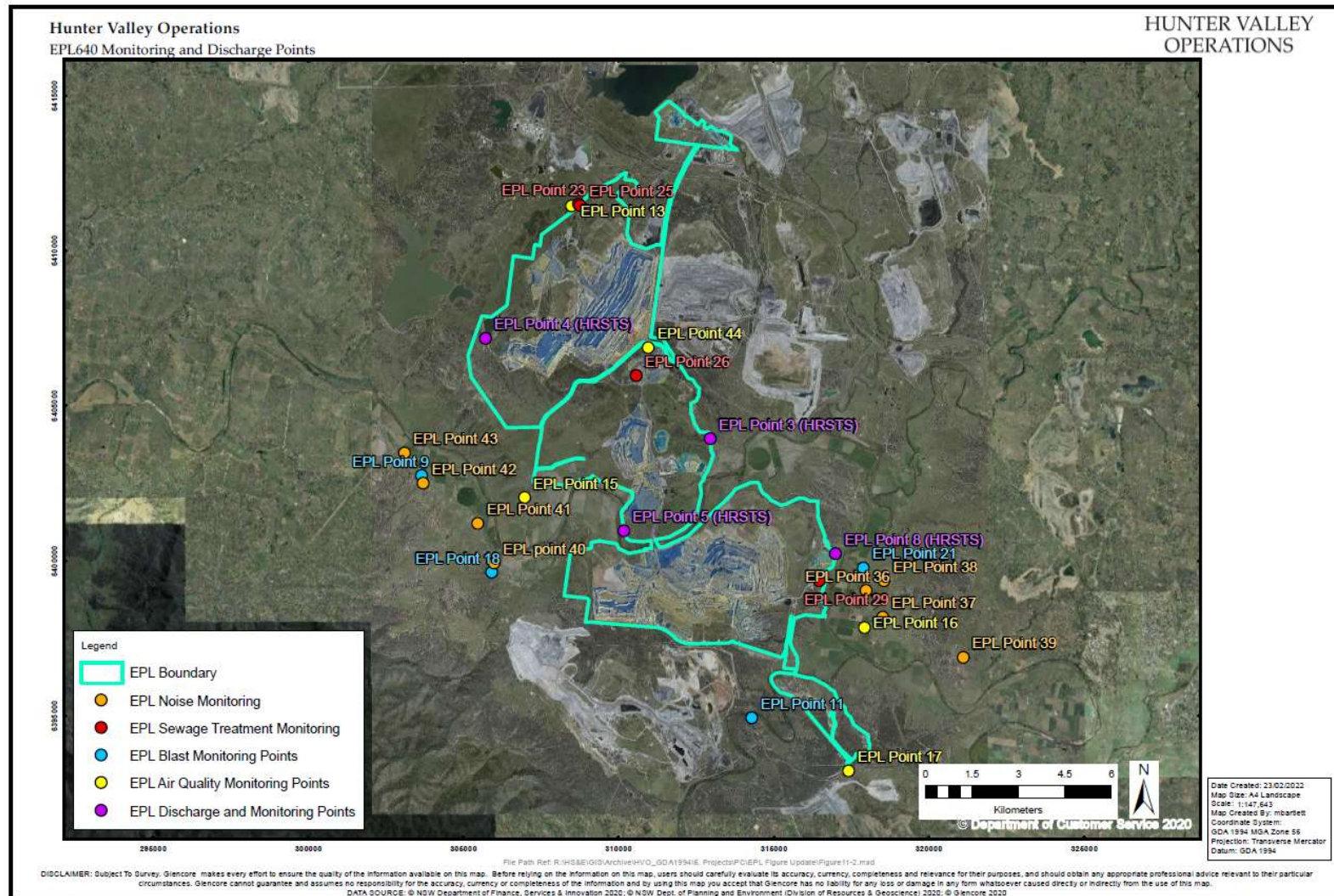


Figure 1: EPL 640 Monitoring Location

### 3 | AIR QUALITY

**Date Last Sampled:** 30/04/2025

**Date Obtained:** 11/06/2025

*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) |
| 1/04/2025  | µg/m <sup>3</sup> | Continuous                     | 20.7               | 12.7                 | 12.3                      | 15.5                       | 11.1                 |
| 2/04/2025  | µg/m <sup>3</sup> |                                | 26.9               | 24.2                 | 17.3                      | 28.8                       | 17.9                 |
| 3/04/2025  | µg/m <sup>3</sup> |                                | 24.3               | 21.9                 | 17.3                      | 30.6                       | 48.4                 |
| 4/04/2025  | µg/m <sup>3</sup> |                                | 23.2               | 31.4                 | 23.8                      | 36.6                       | 76.9                 |
| 5/04/2025  | µg/m <sup>3</sup> |                                | 30.6               | 25.3                 | 21.1                      | 27.1                       | 70.7                 |
| 6/04/2025  | µg/m <sup>3</sup> |                                | 26.7               | 22.0                 | 27.3                      | 32.9                       | 101.6                |
| 7/04/2025  | µg/m <sup>3</sup> |                                | 26.1               | 21.1                 | 25.6                      | 36.0                       | 76.0                 |
| 8/04/2025  | µg/m <sup>3</sup> |                                | 26.9               | 31.8                 | 26.8                      | 25.7                       | 21.6                 |
| 9/04/2025  | µg/m <sup>3</sup> |                                | 16.8               | 17.2                 | 22.6                      | 14.9                       | 21.1                 |
| 10/04/2025 | µg/m <sup>3</sup> |                                | 19.9               | 19.9                 | 69.2                      | 24.2                       | 40.1                 |
| 11/04/2025 | µg/m <sup>3</sup> |                                | 32.1               | 31.2                 | 56.2                      | 29.4                       | 86.3                 |
| 12/04/2025 | µg/m <sup>3</sup> |                                | 27.6               | 28.9                 | 27.0                      | 25.1                       | 23.3                 |
| 13/04/2025 | µg/m <sup>3</sup> |                                | 18.6               | 19.4                 | 10.9                      | 14.5                       | 11.1                 |
| 14/04/2025 | µg/m <sup>3</sup> |                                | 26.8               | 21.3                 | 22.7                      | 25.3                       | 37.8                 |
| 15/04/2025 | µg/m <sup>3</sup> |                                | 20.2               | 13.7                 | 13.6                      | 19.2                       | 15.2                 |
| 16/04/2025 | µg/m <sup>3</sup> |                                | 22.7               | 19.5                 | 21.3                      | 32.7                       | 22.2                 |

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## MONITORING DATA - APRIL 2025

| 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) |
| 17/04/2025              | µg/m³           |                                | 22.8               | 18.2                 | 18.0                      | 30.5                       | 36.1                 |
| 18/04/2025              | µg/m³           |                                | 22.0               | 24.6                 | 22.6                      | 32.1                       | 67.0                 |
| 19/04/2025              | µg/m³           |                                | 25.5               | 23.4                 | 23.4                      | 40.5                       | 66.7                 |
| 20/04/2025              | µg/m³           |                                | 23.1               | 20.6                 | 24.4                      | 43.6                       | 60.6                 |
| 21/04/2025              | µg/m³           |                                | 21.0               | 24.1                 | 31.1                      | 30.5                       | 83.4                 |
| 22/04/2025              | µg/m³           |                                | 20.5               | 20.2                 | 22.3                      | 27.1                       | 49.2                 |
| 23/04/2025              | µg/m³           |                                | 16.1               | *                    | 11.3                      | 14.0                       | 8.7                  |
| 24/04/2025              | µg/m³           |                                | 17.5               | *                    | 14.5                      | 18.1                       | 9.2                  |
| 25/04/2025              | µg/m³           |                                | 15.3               | *                    | 12.2                      | 13.1                       | 10.5                 |
| 26/04/2025              | µg/m³           |                                | 21.8               | *                    | 10.1                      | 25.1                       | 21.1                 |
| 27/04/2025              | µg/m³           |                                | 8.5                | *                    | 5.2                       | 8.8                        | 5.5                  |
| 28/04/2025              | µg/m³           |                                | 10.4               | *                    | 9.1                       | 17.6                       | 14.7                 |
| 29/04/2025              | µg/m³           |                                | 13.5               | 10.5                 | 9.7                       | 18.4                       | 33.1                 |
| 30/04/2025              | µg/m³           |                                | 15.4               | 9.3                  | 9.0                       | 14.4                       | 15.1                 |
| Monthly Meaningful Data |                 |                                |                    |                      |                           |                            |                      |
| April                   | µg/m³           | Minimum                        | 8.5                | 9.3                  | 5.2                       | 8.8                        | 5.5                  |
|                         | µg/m³           | Mean                           | 21.5               | 21.4                 | 21.3                      | 25.1                       | 38.7                 |
|                         | µg/m³           | Maximum                        | 32.1               | 31.8                 | 69.2                      | 43.6                       | 101.6                |
|                         | µg/m³           | Median                         | 21.9               | 21.2                 | 21.2                      | 25.5                       | 28.2                 |

\* Less than 75% 24-hour data capture

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## 4 | SURFACE WATER MONITORING DATA

Date Sampled: 30/04/2025

Date Obtained: 30/04/2025

One (1) discharge under the HRSTS occurred during April at EPL ID 8.

*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<br>(Dam 11N) | pH                     | pH                   | 6.5-9.5        | 0                               | 0                                  |
|                       | Total Suspended Solids | Milligrams per Litre | 120            | 0                               | 0                                  |
| EPL ID 4<br>(Dam 9W)  | pH                     | pH                   | 6.5-9.5        | 0                               | 0                                  |
|                       | Total Suspended Solids | Milligrams per Litre | 120            | 0                               | 0                                  |
| EPL ID 8<br>(Dam 15S) | pH                     | pH                   | 6.5-9.5        | 1                               | 1                                  |
|                       | Total Suspended Solids | Milligrams per Litre | 120            | 1                               | 1                                  |

### 5 | BLAST MONITORING DATA

**Date Last Sampled:** 30/04/2025

**Date Obtained:** 05/06/2025

*Table 3 – Blast Monitoring (Air Blast Overpressure)*

| Blast ID                   | Date & Time         | Unit of Measure | Monitoring Frequency & Capture | EPL Limits    |                | Moses Crossing EPL ID 18 | Monitoring Point       |                       |                     |
|----------------------------|---------------------|-----------------|--------------------------------|---------------|----------------|--------------------------|------------------------|-----------------------|---------------------|
|                            |                     |                 |                                | 95% of Blasts | 100% of Blasts |                          | Jerrys Plains EPL ID 9 | Maison Dieu EPL ID 21 | Warkworth EPL ID 11 |
| P209BAY301A                | 2/04/2025<br>11:42  | dB(L)           | All blasts<br>100%             | 115           | 120            | 98.25                    | 94.37                  | 94.68                 | 95.69               |
| WN49BAF01A                 | 2/04/2025<br>15:17  | dB(L)           |                                | 115           | 120            | 87.57                    | 86.91                  | 80.76                 | 88.34               |
| WS49LEC12C                 | 3/04/2025<br>13:09  | dB(L)           |                                | 115           | 120            | 88.97                    | 84.84                  | 92.39                 | 87.57               |
| WN49LDU101B                | 7/04/2025<br>13:27  | dB(L)           |                                | 115           | 120            | 88.87                    | 97.43                  | 95.96                 | 100.91              |
| P101BRN101A_VAX106A_V1P05A | 8/04/2025<br>14:23  | dB(L)           |                                | 115           | 120            | 99.48                    | 104.13                 | 104.56                | 99.72               |
| M1T711001B                 | 10/04/2025<br>11:38 | dB(L)           |                                | 115           | 120            | 90.97                    | 96.67                  | 90.72                 | 104.77              |

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## MONITORING DATA - APRIL 2025

| Blast ID          | Date & Time      | Unit of Measure | Monitoring Frequency & Capture | EPL Limits    |                | Moses Crossing EPL ID 18 | Monitoring Point       |                       |                     |
|-------------------|------------------|-----------------|--------------------------------|---------------|----------------|--------------------------|------------------------|-----------------------|---------------------|
|                   |                  |                 |                                | 95% of Blasts | 100% of Blasts |                          | Jerrys Plains EPL ID 9 | Maison Dieu EPL ID 21 | Warkworth EPL ID 11 |
| P101B4P01C        | 10/04/2025 13:02 | dB(L)           | All Blasts 100%                | 115           | 120            | 83.45                    | 76.63                  | 88.06                 | 94.43               |
| WS49LDP05A_LEC12D | 12/04/2025 16:52 | dB(L)           |                                | 115           | 120            | 103.56                   | 107.19                 | 103.58                | 99.37               |
| WST12BRN501A      | 12/04/2025 16:53 | dB(L)           |                                | 115           | 120            | 100.14                   | 99.96                  | 99.27                 | 89.43               |
| P210FCL01A        | 15/04/2025 16:10 | dB(L)           |                                | 115           | 120            | 102.25                   | 92.29                  | 104.66                | 91.53               |
| P101BRN101B       | 16/04/2025 16:26 | dB(L)           |                                | 115           | 120            | 98.54                    | 89.27                  | 94.32                 | 104.62              |
| P101PCF106A       | 16/04/2025 16:29 | dB(L)           |                                | 115           | 120            | 92.46                    | 87.39                  | 97.16                 | 103.68              |
| WS49PGM05A        | 17/04/2025 13:18 | dB(L)           |                                | 115           | 120            | 93.24                    | 94.07                  | 93.71                 | 95.44               |
| P210N20P02A       | 17/04/2025 16:58 | dB(L)           |                                | 115           | 120            | 96.04                    | 89.75                  | 93.04                 | 90.84               |
| P102W10P01A       | 17/04/2025 17:00 | dB(L)           |                                | 115           | 120            | 99.95                    | 95.37                  | 94.13                 | 82.46               |

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| Blast ID                | Date & Time      | Unit of Measure | Monitoring Frequency & Capture | EPL Limits    |                | Moses Crossing EPL ID 18 | Monitoring Point       |                       |                     |
|-------------------------|------------------|-----------------|--------------------------------|---------------|----------------|--------------------------|------------------------|-----------------------|---------------------|
|                         |                  |                 |                                | 95% of Blasts | 100% of Blasts |                          | Jerrys Plains EPL ID 9 | Maison Dieu EPL ID 21 | Warkworth EPL ID 11 |
| WST12BRN501B            | 22/04/2025 13:01 | dB(L)           |                                | 115           | 120            | 100.17                   | 92.12                  | 93.96                 | 86.35               |
| P21000501A              | 23/04/2025 12:00 | dB(L)           |                                | 115           | 120            | 101.87                   | 105.52                 | 97.15                 | 100.65              |
| P125FCL05A_P2100008A    | 24/04/2025 16:20 | dB(L)           |                                | 115           | 120            | 108.82                   | 103.48                 | 100.68                | 109.25              |
| WS49PGM05B_LED10A       | 29/04/2025 12:51 | dB(L)           |                                | 115           | 120            | 92.10                    | 92.02                  | 97.07                 | 94.77               |
| P102W10P01B_36P01A      | 30/04/2025 12:55 | dB(L)           |                                | 115           | 120            | 100.00                   | 95.17                  | 103.99                | 105.07              |
| Monthly Meaningful Data |                  |                 |                                |               |                |                          |                        |                       |                     |
| April                   |                  | dB(L)           | Minimum                        | 115           | 120            | 83.45                    | 76.63                  | 80.76                 | 82.46               |
|                         |                  | dB(L)           | Mean                           | 115           | 120            | 96.34                    | 94.23                  | 95.99                 | 96.24               |
|                         |                  | dB(L)           | Maximum                        | 115           | 120            | 108.82                   | 107.19                 | 104.66                | 109.25              |
|                         |                  | dB(L)           | Median                         | 115           | 120            | 98.40                    | 94.22                  | 95.32                 | 95.57               |



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## MONITORING DATA - APRIL 2025

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 |
| P209BAY301A                | 2/04/2025 11:42  | mm/s            | All Blasts 100%                | 5             | 10             | 0.23                     | 0.01                   | 0.10                  | 0.12                |
| WN49BAF01A                 | 2/04/2025 15:17  | mm/s            |                                | 5             | 10             | 0.04                     | 0.02                   | 0.03                  | 0.09                |
| WS49LEC12C                 | 3/04/2025 13:09  | mm/s            |                                | 5             | 10             | 0.14                     | 0.09                   | 0.08                  | 0.17                |
| WN49LDU101B                | 7/04/2025 13:27  | mm/s            |                                | 5             | 10             | 0.20                     | 0.17                   | 0.19                  | 0.30                |
| P101BRN101A_VAX106A_V1P05A | 8/04/2025 14:23  | mm/s            |                                | 5             | 10             | 0.22                     | 0.09                   | 0.18                  | 0.30                |
| M1T711001B                 | 10/04/2025 11:38 | mm/s            |                                | 5             | 10             | 0.14                     | 0.50                   | 0.07                  | 0.51                |
| P101B4P01C                 | 10/04/2025 13:02 | mm/s            |                                | 5             | 10             | 0.12                     | 0.10                   | 0.10                  | 0.19                |
| WS49LDP05A_LEC12D          | 12/04/2025 16:52 | mm/s            |                                | 5             | 10             | 0.16                     | 0.13                   | 0.08                  | 0.12                |
| WST12BRN501A               | 12/04/2025 16:53 | mm/s            |                                | 5             | 10             | 0.14                     | 0.20                   | 0.06                  | 0.05                |
| P210FCL01A                 | 15/04/2025 16:10 | mm/s            |                                | 5             | 10             | 0.03                     | 0.06                   | 0.04                  | 0.10                |
| P101BRN101B                | 16/04/2025 16:26 | mm/s            |                                | 5             | 10             | 0.22                     | 0.12                   | 0.13                  | 0.25                |
| P101PCF106A                | 16/04/2025 16:29 | mm/s            |                                | 5             | 10             | 0.05                     | 0.04                   | 0.06                  | 0.14                |
| WS49PGM05A                 | 17/04/2025 13:18 | mm/s            |                                | 5             | 10             | 0.05                     | 0.05                   | 0.05                  | 0.33                |
| P210N20P02A                | 17/04/2025 16:58 | mm/s            |                                | 5             | 10             | 0.20                     | 0.10                   | 0.25                  | 0.31                |

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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 |
| P102W10P01A             | 17/04/2025 17:00 | mm/s            |                                | 5             | 10             | 0.19                     | 0.09                   | 0.08                  | 0.13                |
| WST12BRN501B            | 22/04/2025 13:01 | mm/s            |                                | 5             | 10             | 0.18                     | 0.17                   | 0.07                  | 0.06                |
| P21000501A              | 23/04/2025 12:00 | mm/s            |                                | 5             | 10             | 0.07                     | 0.08                   | 0.11                  | 0.49                |
| P125FCL05A_P2100008A    | 24/04/2025 16:20 | mm/s            |                                | 5             | 10             | 0.13                     | 0.09                   | 0.31                  | 0.53                |
| WS49PGM05B_LED10A       | 29/04/2025 12:51 | mm/s            |                                | 5             | 10             | 0.09                     | 0.14                   | 0.10                  | 0.15                |
| P102W10P01B_36P01A      | 30/04/2025 12:55 | mm/s            |                                | 5             | 10             | 0.22                     | 0.13                   | 0.14                  | 0.59                |
| Monthly Meaningful Data |                  |                 |                                |               |                |                          |                        |                       |                     |
| April                   |                  | mm/s            | Minimum                        | 5             | 10             | 0.03                     | 0.01                   | 0.03                  | 0.05                |
|                         |                  | mm/s            | Mean                           | 5             | 10             | 0.14                     | 0.12                   | 0.11                  | 0.25                |
|                         |                  | mm/s            | Maximum                        | 5             | 10             | 0.23                     | 0.50                   | 0.31                  | 0.59                |
|                         |                  | mm/s            | Median                         | 5             | 10             | 0.14                     | 0.10                   | 0.09                  | 0.18                |



## 6 | SEWAGE TREATMENT PLANT MONITORING DATA

Sewage treatment plant monitoring results are provided on a quarterly basis. Results will be provided in the June 2025 report.

### 7 | NOISE MONITORING DATA

**Date Sampled:** 28-29/04/2025

**Date Obtained:** 11/06/2025

*Table 6 – Night  $L_{Aeq,15minute}$  and 1minute Generated by HVO Against EPL Criteria*

| Location                        | Start date and time | Wind      |                        | Stability class | Very enhancing? <sup>1</sup> | EPL limits, dB <sup>1</sup> |               | HVO levels, dB                  |               | Exceedances, dB    |               |
|---------------------------------|---------------------|-----------|------------------------|-----------------|------------------------------|-----------------------------|---------------|---------------------------------|---------------|--------------------|---------------|
|                                 |                     | Speed m/s | Direction <sup>3</sup> |                 |                              | $L_{Aeq,15minute}$          | $L_{A1,1min}$ | $L_{Aeq,15minute}$ <sup>2</sup> | $L_{A1,1min}$ | $L_{Aeq,15minute}$ | $L_{A1,1min}$ |
| Shearers Lane                   | 28/04/2025 22:00    | 1.2       | 331                    | E               | No                           | 41                          | 46            | <25                             | 32            | Nil                | Nil           |
| Knodlers Lane                   | 28/04/2025 22:43    | 1.1       | 321                    | D               | No                           | 40                          | 46            | IA                              | IA            | Nil                | Nil           |
| Maison Dieu                     | 28/04/2025 22:23    | 1.4       | 323                    | E               | No                           | 39                          | 46            | <20                             | <25           | Nil                | Nil           |
| Long Point<br>(Dights Crossing) | 28/04/2025 23:32    | 1.4       | 310                    | F               | No                           | 37                          | 46            | IA                              | IA            | Nil                | Nil           |
| Moses Crossing                  | 29/04/2025 00:02    | 1.2       | 320                    | E               | No                           | 39                          | 46            | <20                             | <20           | Nil                | Nil           |
| Jerrys Plains East              | 28/04/2025 23:40    | 1.2       | 307                    | E               | No                           | 39                          | 46            | <25                             | <25           | Nil                | Nil           |
| Jerrys Plains Village           | 28/04/2025 22:20    | 1.4       | 308                    | E               | No                           | 40                          | 46            | 31                              | 38            | Nil                | Nil           |
| Jerrys Plains West              | 28/04/2025 22:00    | 1.2       | 331                    | E               | No                           | 40                          | 46            | 24                              | 30            | Nil                | Nil           |

Notes: 1. Noise limits are adjusted by +5 dB during 'very noise-enhancing meteorological conditions' in accordance with the NPfl.

2. Site-only  $L_{Aeq,15minute}$ , includes modifying factor penalties if applicable.

3. Degrees magnetic north, "-" indicates calm conditions.