

HUNTER VALLEY OPERATIONS



Environment Protection Licence 640 Monitoring Data – July 2022 Report



Number: HVOOC-1797567310-4322
Owner: Environment and Community Officer

Status: Approved
Version: 1.0

Effective: 25/08/2022

Uncontrolled unless viewed on the intranet

Table of Contents

| | | |
|----|--|----|
| 1. | Overview..... | 2 |
| 2. | Definitions..... | 2 |
| 3. | Air Quality..... | 4 |
| 4. | Surface Water Monitoring Data | 6 |
| 5. | Blast Monitoring Data | 8 |
| 6. | Sewage Treatment Plant Monitoring Data | 14 |
| 7. | Noise Monitoring Data | 15 |

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 |

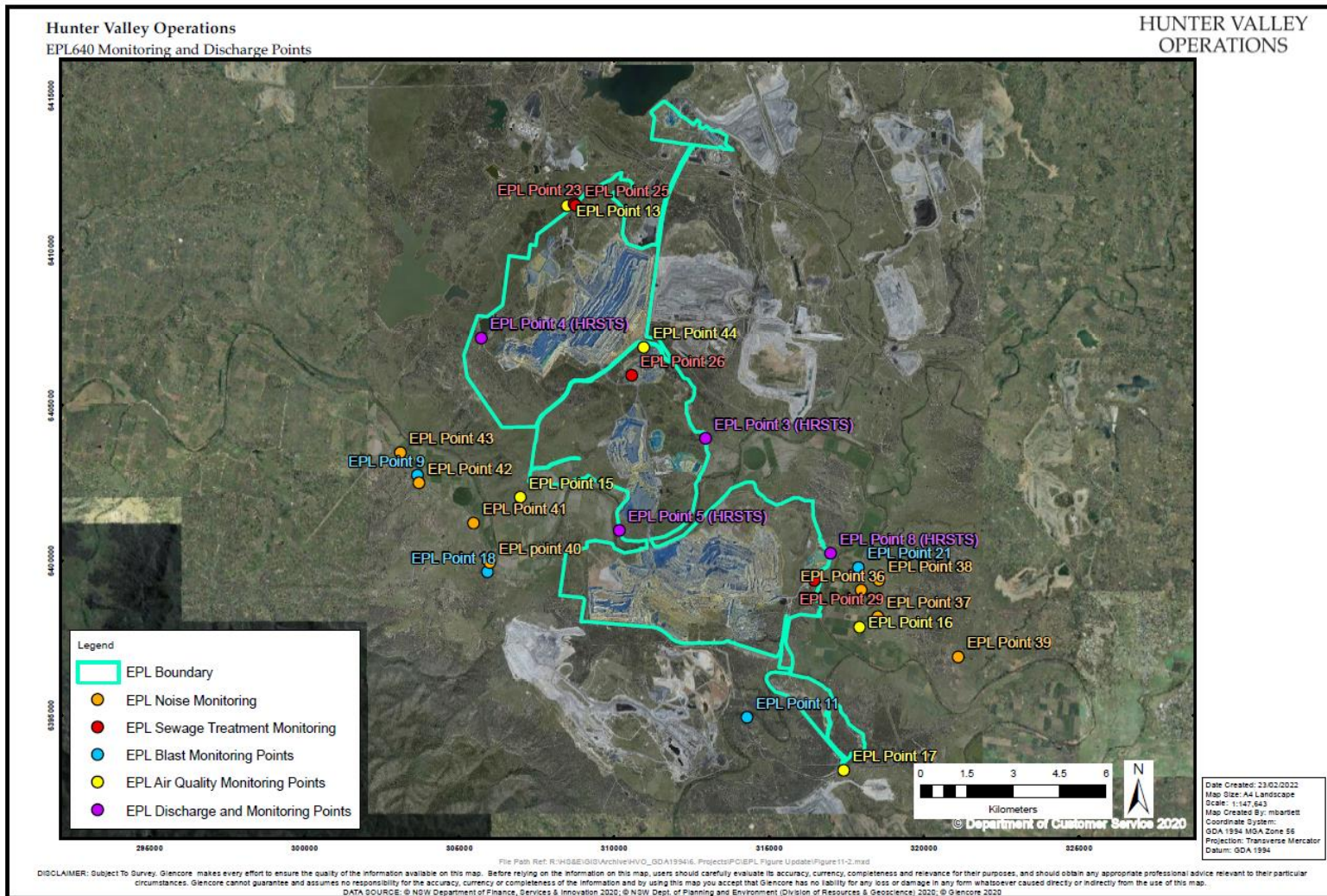


Figure 1 - EPL 640 Monitoring Locations

Number: HVOOC-1797567310-4322
Owner: Environment and Community Officer

Status: Approved
Version: 1.0

Effective: 25/08/2022

3. Air Quality

Date Last Sampled: 31/07/2022

Date Obtained: 1/08/2022

Table 1- Particulate Matter Monitoring (<10µm)

| Date | Unit of Measure | Monitoring Frequency & Capture | EPL ID 13 (Howick) | EPL ID 15 (Wandewoi) | EPL ID 16 (Knodlers Lane) | EPL ID 17 (Golden Highway) | EPL ID 44 (North CHPP) |
|------------|-------------------|--------------------------------|--------------------|----------------------|---------------------------|----------------------------|------------------------|
| 1/07/2022 | µg/m ³ | Continuous | 45.4 | 18.0 | 23.7 | 36.0 | 38.6 |
| 2/07/2022 | µg/m ³ | | 11.2 | 10.1 | 7.3 | 12.8 | 16.9 |
| 3/07/2022 | µg/m ³ | | 5.2 | 3.7 | 4.7 | 6.0 | 8.4 |
| 4/07/2022 | µg/m ³ | | 5.4 | 4.3 | 5.2 | 5.6 | 6.7 |
| 5/07/2022 | µg/m ³ | | 5.9 | 4.7 | 5.2 | 5.3 | 5.9 |
| 6/07/2022 | µg/m ³ | | 3.3 | 2.5 | 2.8 | 2.6 | 3.2 |
| 7/07/2022 | µg/m ³ | | 4.9 | 4.7 | 4.7 | 4.3 | 5.2 |
| 8/07/2022 | µg/m ³ | | 7.9 | 5.7 | 7.1 | 6.2 | 9.5 |
| 9/07/2022 | µg/m ³ | | 8.6 | 6.2 | 8.1 | 8.0 | 15.5 |
| 10/07/2022 | µg/m ³ | | 9.5 | 6.7 | 8.5 | 7.6 | 14.9 |
| 11/07/2022 | µg/m ³ | | 14.4 | 8.8 | 6.8 | 9.2 | 20.4 |
| 12/07/2022 | µg/m ³ | | 7.5 | 4.7 | 6.3 | 8.7 | 22.2 |
| 13/07/2022 | µg/m ³ | | 6.0 | 4.6 | 6.1 | 6.0 | 8.7 |
| 14/07/2022 | µg/m ³ | | 9.9 | 6.9 | 8.9 | 14.1 | 16.0 |
| 15/07/2022 | µg/m ³ | | 9.2 | 5.6 | 11.2 | 11.2 | 23.0 |
| 16/07/2022 | µg/m ³ | | 10.4 | 6.6 | 12.7 | 8.4 | 20.6 |
| 17/07/2022 | µg/m ³ | | 14.9 | 10.1 | 21.7 | 16.0 | 92.8 |
| 18/07/2022 | µg/m ³ | | 10.5 | 5.8 | 17.3 | 18.6 | 32.4 |
| 19/07/2022 | µg/m ³ | | 19.0 | 10.3 | 18.2 | 19.9 | 36.8 |
| 20/07/2022 | µg/m ³ | | 15.9 | 12.3 | 8.7 | * | 13.6 |

| Date | Unit of Measure | Monitoring Frequency & Capture | EPL ID 13 (Howick) | EPL ID 15 (Wandewoi) | EPL ID 16 (Knodlers Lane) | EPL ID 17 (Golden Highway) | EPL ID 44 (North CHPP) |
|-------------------------|-------------------|--------------------------------|--------------------|----------------------|---------------------------|----------------------------|------------------------|
| 21/07/2022 | µg/m ³ | | 21.3 | 15.8 | 10.3 | * | 10.5 |
| 22/07/2022 | µg/m ³ | | 22.9 | 15.1 | 11.5 | 13.5 | 13.4 |
| 23/07/2022 | µg/m ³ | | 23.3 | 14.6 | 9.9 | * | 13.6 |
| 24/07/2022 | µg/m ³ | | 23.1 | 17.6 | 12.7 | 21.5 | 40.2 |
| 25/07/2022 | µg/m ³ | | 22.0 | 14.2 | 12.8 | 17.6 | 32.1 |
| 26/07/2022 | µg/m ³ | | 12.4 | 9.0 | 13.5 | 61.3 | 18.0 |
| 27/07/2022 | µg/m ³ | | 10.2 | 7.1 | 13.5 | 123.4 | 32.7 |
| 28/07/2022 | µg/m ³ | | 8.7 | 6.7 | 14.2 | 23.6 | 21.8 |
| 29/07/2022 | µg/m ³ | | 17.6 | 11.2 | 15.0 | 15.3 | 25.9 |
| 30/07/2022 | µg/m ³ | | 28.7 | 16.9 | 15.8 | 28.9 | 61.2 |
| 31/07/2022 | µg/m ³ | | 29.0 | 16.7 | 19.3 | 32.6 | 51.1 |
| Monthly Meaningful Data | | | | | | | |
| July | µg/m ³ | Minimum | 3.3 | 2.5 | 2.8 | 2.6 | 3.2 |
| | µg/m ³ | Mean | 14.3 | 9.3 | 11.1 | 19.4 | 23.6 |
| | µg/m ³ | Maximum | 45.4 | 18.0 | 23.7 | 123.4 | 92.8 |
| | µg/m ³ | Median | 10.5 | 7.1 | 10.3 | 13.2 | 18.0 |

*TEOM Data Miscapture - less than 75% data captured

4. Surface Water Monitoring Data

Date Sampled:

EPL ID 3: 8/7/22, 18/7/22

EPL ID 4: 6/7/22, 7/7/22, 8/7/22, 9/7/22, 10/7/22, 11/7/22, 12/7/22, 13/7/22, 14/7/22, 15/7/22, 16/7/22, 17/7/22, 19/7/22, 20/7/22, 21/7/22, 22/7/22, 23/7/22, 24/7/22, 25/7/22, 26/7/22, 27/7/22, 28/7/22, 29/7/22

EPL ID 8: 4/7/22, 5/7/22, 6/7/22, 7/7/22, 8/7/22, 9/7/22, 10/7/22, 11/7/22, 12/7/22, 13/7/22, 14/7/22, 15/7/22, 30/7/22, 31/7/22

Date Obtained:

EPL ID 3: 9/7/22, 19/7/22

EPL ID 4: 7/7/22, 9/7/22, 11/7/22, 11/7/22, 12/7/22, 13/7/22, 15/7/22, 17/7/22/ 18/7/22, 18/7/22, 18/7/22, 19/7/22, 20/7/22, 22/7/22, 23/7/22, 24/7/22, 25/7/22, 26/7/22, 27/7/22, 28/7/22, 29/7/22, 30/7/22.

EPL ID 8: 5/7/22, 5/7/22, 6/7/22, 7/7/22, 9/7/22, 9/7/22, 11/7/22, 11/7/22, 12/7/22, 13/7/22, 15/7/22, 18/7/22, 31/7/22, 31/7/22

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 | 2 | 2 |
| | Total Suspended Solids | Milligrams per Litre | 120 | 2 | 2 |
| EPL ID 4 (Dam 9W) | pH | pH | 6.5-9.5 | 23 | 23 |
| | Total Suspended Solids | Milligrams per Litre | 120 | 23 | 23 |

| | | | | | |
|-----------------------|------------------------------|-------------------------|---------|----|----|
| EPL ID 8 (Dam 15S) | pH | pH | 6.5-9.5 | 14 | 14 |
| | Total Suspended Solids | Milligrams per Litre | 120 | 14 | 14 |

5. Blast Monitoring Data

Date Last Sampled: 30/7/2022

Date Obtained: 1/08/2022

Table 3 – Blast Monitoring (Air Blast Overpressure and 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 |
| WS4911004A | 1/07/2022 13:15 | dB(L) | All blasts 100% | 115 | 120 | 95.74 | 101.02 | 102.69 | 98.2 |
| WN44BAR02A | 1/07/2022 13:19 | dB(L) | | 115 | 120 | 85.73 | 93.64 | 93.96 | 93.32 |
| M1T2ULD02A | 2/07/2022 11:24 | dB(L) | | 115 | 120 | 87.76 | 93.11 | 77.99 | 79.86 |
| WN47U2A01A | 11/07/2022 13:32 | dB(L) | | 115 | 120 | 82.96 | 83.78 | 81.49 | 82.76 |
| WS49BAP01A | 13/07/2022 13:14 | dB(L) | | 115 | 120 | 73.26 | 86.27 | 89.88 | 84.47 |
| WN47LAA01A | 15/07/2022 13:10 | dB(L) | | 115 | 120 | 84.89 | 94.28 | 96.73 | 89.13 |
| WS49BAY04A | 16/07/2022 13:03 | dB(L) | | 115 | 120 | 101.32 | 101.24 | 98.05 | 87.21 |

| 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 |
| RW35BFA01A | 18/07/2022 13:04 | dB(L) | All blasts 100% | 115 | 120 | 79.66 | 96.85 | 103.13 | 93.55 |
| RW37GMA06A_RW37GMC03A | 18/07/2022 13:06 | dB(L) | | 115 | 120 | 92.27 | 89.29 | 97.9 | 97.55 |
| WN47U2A01B | 19/07/2022 13:18 | dB(L) | | 115 | 120 | 94.1 | 107.03 | 93.82 | 84.64 |
| WS45BAR04A | 19/07/2022 13:19 | dB(L) | | 115 | 120 | 94.1 | 107.03 | 89.66 | 82.2 |
| M1T2ULD01A | 19/07/2022 14:26 | dB(L) | | 115 | 120 | 97.39 | 107.84 | 102.57 | 91.93 |
| RW35BFA01B | 20/07/2022 11:03 | dB(L) | | 115 | 120 | 106.83 | 106.01 | 93.62 | 91.74 |
| P20920P01A | 20/07/2022 13:05 | dB(L) | | 115 | 120 | 99.22 | 105.71 | 94.83 | 103.6 |
| WS49BAY06A | 22/07/2022 13:06 | dB(L) | | 115 | 120 | 102.87 | 108.52 | 107.47 | 98.69 |
| P208VA1A03A | 23/07/2022 12:53 | dB(L) | | 115 | 120 | 89.85 | 106.69 | 94.85 | 92.86 |
| WS49BAY05A1 | 25/07/2022 11:09 | dB(L) | | 115 | 120 | 83.5 | 89.42 | 80.46 | 88.89 |

| 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 |
| WS49BAY05A2 | 25/07/2022 13:12 | dB(L) | | 115 | 120 | 90.71 | 86.86 | 88.41 | 90.76 |
| P208BR102A | 26/07/2022 10:48 | dB(L) | | 115 | 120 | 95.32 | 105.79 | 100.56 | 97.46 |
| P209WK601A | 26/07/2022 10:50 | dB(L) | | 115 | 120 | 93.99 | 89.2 | 100.61 | 103.47 |
| WN47LAA02A | 27/07/2022 13:05 | dB(L) | | 115 | 120 | 98.43 | 106.31 | 102.29 | 98.23 |
| P209WK602A_P209W6P04A | 29/07/2022 13:00 | dB(L) | | 115 | 120 | 89.04 | 93.52 | 94.56 | 98.56 |
| WS49BAY08A | 30/07/2022 13:06 | dB(L) | | 115 | 120 | 92.1 | 82.8 | 84.37 | 94.89 |
| Monthly Meaningful Data | | | | | | | | | |
| July | dB(L) | Minimum | 115 | 120 | 73.26 | 82.80 | 77.99 | 79.86 | |
| | dB(L) | Mean | 115 | 120 | 91.78 | 97.49 | 94.34 | 92.35 | |
| | dB(L) | Maximum | 115 | 120 | 106.83 | 108.52 | 107.47 | 103.60 | |
| | dB(L) | Median | 115 | 120 | 92.27 | 96.85 | 94.83 | 92.86 | |

| 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 |
| WS4911004A | 1/07/2022 13:15 | mm/s | All Blasts 100% | 5 | 10 | 0.13 | 0.04 | 0.04 | 0.25 |
| WN44BAR02A | 1/07/2022 13:19 | mm/s | | 5 | 10 | 0.15 | 0.13 | 0.07 | 0.49 |
| M1T2ULD02A | 2/07/2022 11:24 | mm/s | | 5 | 10 | 0.21 | 0.29 | 0.07 | 0.14 |
| WN47U2A01A | 11/07/2022 13:32 | mm/s | | 5 | 10 | 0.11 | 0.07 | 0.03 | 0.13 |
| WS49BAP01A | 13/07/2022 13:14 | mm/s | | 5 | 10 | 0.14 | 0.05 | 0.04 | 0.27 |
| WN47LAA01A | 15/07/2022 13:10 | mm/s | | 5 | 10 | 0.17 | 0.2 | 0.07 | 0.21 |
| WS49BAY04A | 16/07/2022 13:03 | mm/s | | 5 | 10 | 0.11 | 0.05 | 0.03 | 0.31 |
| RW35BFA01A | 18/07/2022 13:04 | mm/s | | 5 | 10 | 0.17 | 0.04 | 0.05 | 0.55 |
| RW37GMA06A_RW37GMC03A | 18/07/2022 13:06 | mm/s | | 5 | 10 | 0.17 | 0.04 | 0.04 | 0.35 |
| WN47U2A01B | 19/07/2022 13:18 | mm/s | | 5 | 10 | 0.16 | 0.17 | 0.17 | 0.15 |
| WS45BAR04A | 19/07/2022 13:19 | mm/s | | 5 | 10 | 0.16 | 0.17 | 0.17 | 0.15 |
| M1T2ULD01A | 19/07/2022 14:26 | mm/s | | 5 | 10 | 0.15 | 0.16 | 0.11 | 0.55 |
| RW35BFA01B | 20/07/2022 11:03 | mm/s | | 5 | 10 | 0.09 | 0.03 | 0.04 | 0.53 |

| 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 |
| P20920P01A | 20/07/2022 13:05 | mm/s | | 5 | 10 | 0.1 | 0.03 | 0.08 | 0.72 |
| WS49BAY06A | 22/07/2022 13:06 | mm/s | | 5 | 10 | 0.11 | 0.03 | 0.04 | 0.18 |
| P208VA1A03A | 23/07/2022 12:53 | mm/s | | 5 | 10 | 0.11 | 0.04 | 0.12 | 0.33 |
| WS49BAY05A1 | 25/07/2022 11:09 | mm/s | | 5 | 10 | 0.1 | 0.02 | 0.02 | 0.45 |
| WS49BAY05A2 | 25/07/2022 13:12 | mm/s | | 5 | 10 | 0.11 | 0.04 | 0.03 | 0.78 |
| P208BR102A | 26/07/2022 10:48 | mm/s | | 5 | 10 | 0.15 | 0.04 | 0.37 | 0.58 |
| P209WK601A | 26/07/2022 10:50 | mm/s | | 5 | 10 | 0.12 | 0.03 | 0.1 | 0.92 |
| WN47LAA02A | 27/07/2022 13:05 | mm/s | | 5 | 10 | 0.17 | 0.12 | 0.07 | 0.46 |
| P209WK602A_P209W6P04A | 29/07/2022 13:00 | mm/s | | 5 | 10 | 0.26 | 0.1 | 0.26 | 1.17 |
| WS49BAY08A | 30/07/2022 13:06 | mm/s | | 5 | 10 | 0.13 | 0.06 | 0.06 | 0.92 |

Monthly Meaningful Data

| | | | | | | | | |
|-------------|------|---------|---|----|------|------|------|------|
| July | mm/s | Minimum | 5 | 10 | 0.09 | 0.02 | 0.02 | 0.13 |
| | mm/s | Mean | 5 | 10 | 0.14 | 0.08 | 0.09 | 0.46 |

| | | | | | | | | |
|--|------|---------|---|----|------|------|------|------|
| | mm/s | Maximum | 5 | 10 | 0.26 | 0.29 | 0.37 | 1.17 |
| | mm/s | Median | 5 | 10 | 0.14 | 0.05 | 0.07 | 0.45 |

6. Sewage Treatment Plant Monitoring Data

Date Sampled: 11 July 2022

Date Obtained: 11 August 2022

Table 4 Sewage Treatment Plant Monitoring

| Monitoring Site | Date & Time | Pollutant | Unit of Measure | Monitoring Result |
|-----------------|------------------------|------------------|----------------------------|-------------------|
| EPA ID 23 | 11/07/2022 11:55:00 | Faecal Coliforms | Colony forming units/100ml | <9100 |
| | | pH | pH | 6.82 |
| EPA ID 25 | 11/07/2022 12:00:00 | Faecal Coliforms | Colony forming units/100ml | <91 |
| | | pH | pH | 7.07 |
| EPA ID 26 | 11/07/2022 13:10:00 | Faecal Coliforms | Colony forming units/100ml | 2000000 |
| | | pH | pH | 7.2 |
| EPA ID 29 | 11/07/2022 10:05:00 | Faecal Coliforms | Colony forming units/100ml | 110 |
| | | pH | pH | 7.52 |

7. Noise Monitoring Data

Date Sampled: 20-21/07/2022

Date Obtained: 08/08/2022

Table 5 Night $L_{Aeq,15minute}$ Generated by HVO Against EPL Criteria

| Location | Date & Time | Wind Speed (m/s) ¹ | Stability Class ¹ | Criterion dB | Criterion Applies? ² | HVO L_{Aeq} dB ^{3,4} | Exceedance dB ^{4,5} |
|-----------|------------------|-------------------------------|------------------------------|--------------|---------------------------------|---------------------------------|------------------------------|
| EPA ID 36 | 20/07/2022 21:00 | 3.2 | E | 41 | No | IA | NA |
| EPA ID 37 | 20/07/2022 21:43 | 2.7 | D | 40 | Yes | IA | Nil |
| EPA ID 38 | 20/07/2022 21:23 | 2.3 | D | 39 | Yes | IA | Nil |
| EPA ID 39 | 20/07/2022 22:35 | 2 | D | 37 | Yes | IA | Nil |
| EPA ID 40 | 20/07/2022 23:19 | 3 | D | 39 | Yes | 35 | Nil |
| EPA ID 41 | 20/07/2022 22:59 | 3.1 | E | 39 | No | 37 | NA |
| EPA ID 42 | 20/07/2022 21:23 | 2.3 | D | 40 | Yes | 37 | Nil |
| EPA ID 43 | 20/07/2022 21:03 | 3.2 | E | 40 | No | <25 | NA |

Notes:

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 $L_{Aeq,15minute}$ attributed to HVO, including modifying factors if applicable;
4. Bold results in red indicate exceedance of criterion; and
5. NA in exceedance column means atmospheric conditions outside specified in approval, therefore criterion was not applicable.

Table 6 Night $L_{A1, 1 \text{ minute}}$ Generated by HVO Against EPL Criteria

| Location | Date & Time | Wind Speed (m/s) ¹ | Stability Class ¹ | Criterion dB | Criterion Applies? ² | HVO L_{Aeq} dB ^{3,4} | Exceedance dB ^{4,5} |
|-----------|------------------|-------------------------------|------------------------------|--------------|---------------------------------|---------------------------------|------------------------------|
| EPA ID 36 | 20/07/2022 21:00 | 3.2 | E | 46 | No | IA | NA |
| EPA ID 37 | 20/07/2022 21:43 | 2.7 | D | 46 | Yes | IA | Nil |
| EPA ID 38 | 20/07/2022 21:23 | 2.3 | D | 46 | Yes | IA | Nil |
| EPA ID 39 | 20/07/2022 22:35 | 2 | D | 46 | Yes | IA | Nil |
| EPA ID 40 | 20/07/2022 23:19 | 3 | D | 46 | Yes | 40 | Nil |
| EPA ID 41 | 20/07/2022 22:59 | 3.1 | E | 46 | No | 40 | NA |
| EPA ID 42 | 20/07/2022 21:23 | 2.3 | D | 46 | Yes | 43 | Nil |
| EPA ID 43 | 20/07/2022 21:03 | 3.2 | E | 46 | No | <25 | NA |

Notes:

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 $L_{A1, 1 \text{ minute}}$ attributed to HVO;
4. Bold results in red indicate exceedance of criterion; and
5. NA in criterion column indicates no criterion is applicable at this location. NA in exceedance column means atmospheric conditions outside specified in approval, therefore criterion was not applicable.