



## VICKERY COAL MINE – MONTHLY MONITORING SUMMARY

### Site Information

**EPL No:** 21283

**EPA Website Link:**

<https://whitehavencoal.com.au/Documentations/Vickery%20Extension%20Project/Approvals/Environment%20Protection%20Licence/VIC%20-%20Environmental%20Protection%20Licence.pdf?v=1702936903>

**Licensee:** Vickery Coal Pty Ltd

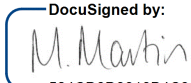
**Licensee Address:** Vickery Coal Mine, Blue Vale Road, BOGGABRI NSW 2382

**EPL Monitoring Points:** See Figure 1 below

**Sampling Period:** October 2025

**Obtained Date:** 18/11/2025

**Publication Date:** 18/11/2025

| Name         | Role                         | Signature                                                                                                                     | Date             |
|--------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|
| Megan Martin | Environmental Superintendent | DocuSigned by:<br><br>5246D8D3818B463... | 18 November 2025 |

**Table 1: Surface Water – No Pollutant Limits Apply**

| EPL ID | Pollutant    | Units of Measure | Monitoring Frequency            | No. of Samples for the Period | Date Sampled | Date of Max. Value Obtained | Min Value | Mean Value | Median Value | Max or Only Value | Comment/s    |
|--------|--------------|------------------|---------------------------------|-------------------------------|--------------|-----------------------------|-----------|------------|--------------|-------------------|--------------|
| 2      | TSS          | mg/L             | Quarterly (Mar, Jun, Sep & Dec) | -                             | -            | -                           | -         | -          | -            | -                 | -            |
|        | Conductivity | µS/cm            |                                 |                               |              |                             | -         | -          | -            | -                 |              |
|        | Oil & Grease | mg/L             |                                 |                               |              |                             | -         | -          | -            | -                 |              |
|        | pH           | pH               |                                 |                               |              |                             | -         | -          | -            | -                 |              |
| 3      | TSS          | mg/L             | Quarterly (Mar, Jun, Sep & Dec) | -                             | -            | -                           | -         | -          | -            | -                 | -            |
|        | Conductivity | µS/cm            |                                 |                               |              |                             | -         | -          | -            | -                 |              |
|        | Oil & Grease | mg/L             |                                 |                               |              |                             | -         | -          | -            | -                 |              |
|        | pH           | pH               |                                 |                               |              |                             | -         | -          | -            | -                 |              |
| 9      | TSS          | mg/L             | Quarterly (Mar, Jun, Sep & Dec) | -                             | -            | -                           | -         | -          | -            | -                 | -            |
|        | Conductivity | µS/cm            |                                 |                               |              |                             | -         | -          | -            | -                 |              |
|        | Oil & Grease | mg/L             |                                 |                               |              |                             | -         | -          | -            | -                 |              |
|        | pH           | pH               |                                 |                               |              |                             | -         | -          | -            | -                 |              |
| 10     | TSS          | mg/L             | Upon discharge                  | -                             | -            | -                           | -         | -          | -            | -                 | No discharge |
|        | Conductivity | µS/cm            |                                 | -                             | -            | -                           | -         | -          | -            | -                 |              |
|        | Oil & Grease | mg/L             |                                 | -                             | -            | -                           | -         | -          | -            | -                 |              |
|        | pH           | pH               |                                 | -                             | -            | -                           | -         | -          | -            | -                 |              |

**Table 2: Surface Water - Pollutant Limits Apply**

| EPL ID | Pollutant    | Units of Measure | Monitoring Frequency | No. of Samples for the Month | Date Sampled | Date of Max. Value Obtained | Min Value | Max or Only Value | 100%ile Limit | Exceed -ance (Yes/ No) | Comment/s    |
|--------|--------------|------------------|----------------------|------------------------------|--------------|-----------------------------|-----------|-------------------|---------------|------------------------|--------------|
| 14     | TSS          | mg/L             | Upon discharge       | -                            | -            | -                           | -         | -                 | 50            | -                      | No discharge |
|        | Conductivity | µS/cm            |                      | -                            | -            | -                           | -         | -                 | NA            |                        |              |
|        | Oil & Grease | mg/L             |                      | -                            | -            | -                           | -         | -                 | 10            | -                      |              |
|        | pH           | pH               |                      | -                            | -            | -                           | -         | -                 | 8.5           | -                      |              |
| 20     | TSS          | mg/L             | Upon discharge       | -                            | -            | -                           | -         | -                 | 50            | -                      | No discharge |
|        | Conductivity | µS/cm            |                      | -                            | -            | -                           | -         | -                 | NA            |                        |              |
|        | Oil & Grease | mg/L             |                      | -                            | -            | -                           | -         | -                 | 10            | -                      |              |
|        | pH           | pH               |                      | -                            | -            | -                           | -         | -                 | 8.5           | -                      |              |
| 21     | TSS          | mg/L             | Upon discharge       | -                            | -            | -                           | -         | -                 | 50            | -                      | No discharge |
|        | Conductivity | µS/cm            |                      | -                            | -            | -                           | -         | -                 | NA            | -                      |              |
|        | Oil & Grease | mg/L             |                      | -                            | -            | -                           | -         | -                 | 10            | -                      |              |
|        | pH           | pH               |                      | -                            | -            | -                           | -         | -                 | 8.5           | -                      |              |

**Table 3: Groundwater – No Limits apply**

| EPL ID | Pollutant            | Units of Measure | Monitoring Frequency      | No. of Samples for the Period | Date Sampled | Date of Max. Value Obtained | Min Value | Mean Value | Median Value | Max or Only Value |
|--------|----------------------|------------------|---------------------------|-------------------------------|--------------|-----------------------------|-----------|------------|--------------|-------------------|
| 15     | Conductivity         | µS/cm            | Six Monthly (April & Oct) | 1                             | 02/10/2025   | 21/10/2025                  | -         | -          | -            | 5580              |
|        | Lead                 | mg/L             |                           | 1                             | 02/10/2025   | 21/10/2025                  | -         | -          | -            | <0.001            |
|        | pH                   | pH               |                           | 1                             | 02/10/2025   | 21/10/2025                  | -         | -          | -            | 7.63              |
|        | Standing Water Level | metres           |                           | 1                             | 02/10/2025   | 21/10/2025                  | -         | -          | -            | 7.28              |
| 16     | Conductivity         | µS/cm            | Six Monthly (April & Oct) | 1                             | 02/10/2025   | 21/10/2025                  | -         | -          | -            | 2230              |
|        | Lead                 | mg/L             |                           | 1                             | 02/10/2025   | 21/10/2025                  | -         | -          | -            | <0.001            |
|        | pH                   | pH               |                           | 1                             | 02/10/2025   | 21/10/2025                  | -         | -          | -            | 7.68              |
|        | Standing Water Level | metres           |                           | 1                             | 02/10/2025   | 21/10/2025                  | -         | -          | -            | 7.90              |
| 17     | Conductivity         | µS/cm            | Six Monthly (April & Oct) | 1                             | 01/10/2025   | 21/10/2025                  | -         | -          | -            | 3260              |
|        | Lead                 | mg/L             |                           | 1                             | 01/10/2025   | 21/10/2025                  | -         | -          | -            | <0.001            |
|        | pH                   | pH               |                           | 1                             | 01/10/2025   | 21/10/2025                  | -         | -          | -            | 8.05              |
|        | Standing Water Level | metres           |                           | 1                             | 01/10/2025   | 21/10/2025                  | -         | -          | -            | 7.83              |
| 18     | Conductivity         | µS/cm            | Six Monthly (April & Oct) | 1                             | 01/10/2025   | 21/10/2025                  | -         | -          | -            | 2020              |
|        | Lead                 | mg/L             |                           | 1                             | 01/10/2025   | 21/10/2025                  | -         | -          | -            | <0.001            |
|        | pH                   | pH               |                           | 1                             | 01/10/2025   | 21/10/2025                  | -         | -          | -            | 7.71              |
|        | Standing Water Level | metres           |                           | 1                             | 01/10/2025   | 21/10/2025                  | -         | -          | -            | 7.00              |

| EPL ID | Pollutant            | Units of Measure | Monitoring Frequency      | No. of Samples for the Period | Date Sampled | Date of Max. Value Obtained | Min Value | Mean Value | Median Value | Max or Only Value |
|--------|----------------------|------------------|---------------------------|-------------------------------|--------------|-----------------------------|-----------|------------|--------------|-------------------|
| 19     | Conductivity         | μS/cm            | Six Monthly (April & Oct) | 1                             | 07/10/2025   | 21/10/2025                  | -         | -          | -            | 4270              |
|        | Lead                 | mg/L             |                           | 1                             | 07/10/2025   | 21/10/2025                  | -         | -          | -            | <0.001            |
|        | pH                   | pH               |                           | 1                             | 07/10/2025   | 21/10/2025                  | -         | -          | -            | 7.06              |
|        | Standing Water Level | metres           |                           | 1                             | 07/10/2025   | 21/10/2025                  | -         | -          | -            | 16.48             |
| 22     | Conductivity         | μS/cm            | Six Monthly (April & Oct) | 1                             | 09/10/2025   | 21/10/2025                  | -         | -          | -            | 24300             |
|        | Lead                 | mg/L             |                           | 1                             | 09/10/2025   | 21/10/2025                  | -         | -          | -            | <0.001            |
|        | pH                   | pH               |                           | 1                             | 09/10/2025   | 21/10/2025                  | -         | -          | -            | 7.34              |
|        | Standing Water Level | metres           |                           | 1                             | 09/10/2025   | 21/10/2025                  | -         | -          | -            | 12.02             |

**Table 4 – Monthly Attended Noise Monitoring**

(Noise Limits Apply - 40dB LAeq(15min) -Day, 37dB LAeq(15min) Evening and Night; 52dB LA1(1min) -Night)

| Table 4                                                                         |             |               |                                  |                        |                            |                    |                                                 |                        |
|---------------------------------------------------------------------------------|-------------|---------------|----------------------------------|------------------------|----------------------------|--------------------|-------------------------------------------------|------------------------|
| VCM Operational Noise Monitoring Results Leq(15min) – 31 October 2025 (Day)     |             |               |                                  |                        |                            |                    |                                                 |                        |
| Location                                                                        | Time        | dB(A),<br>Leq | VCM<br>Contribution<br>dB(A),Leq | Criterion<br>dB(A),Leq | Wind<br>speed<br>(m/s),dir | Stability<br>Class | Identified Noise Sources<br>dB(A),Leq           | Exceedance<br>(Yes/No) |
| N-AT1 / 7                                                                       | 12:16<br>pm | 37            | <20                              | 40                     | 2.9 / 209                  | B                  | Birds (36), Traffic (27), <b>VCM<br/>(IA)</b>   | No                     |
| N-AT2 / 8                                                                       | 4:18<br>pm  | 44            | <20                              | 45*                    | 4.7 / 227                  | D                  | Traffic (43), wind (34), <b>VCM<br/>(IA)</b>    | No                     |
| Table 5                                                                         |             |               |                                  |                        |                            |                    |                                                 |                        |
| VCM Operational Noise Monitoring Results Leq(15min) – 31 October 2025 (Evening) |             |               |                                  |                        |                            |                    |                                                 |                        |
| Location                                                                        | Time        | dB(A),<br>Leq | VCM<br>Contribution<br>dB(A),Leq | Criterion<br>dB(A),Leq | Wind<br>speed<br>(m/s),dir | Stability<br>Class | Identified Noise Sources<br>dB(A),Leq           | Exceedance<br>(Yes/No) |
| N-AT1 / 7                                                                       | 8:40<br>pm  | 33            | <20                              | 40*                    | 3.5 / 44                   | D                  | Insects (32), traffic (24), <b>VCM<br/>(IA)</b> | No                     |
| N-AT2 / 8                                                                       | 9:37<br>pm  | 42            | <20                              | 42*                    | 3.8 / 61                   | F                  | Traffic (41), insects (33), <b>VCM<br/>(IA)</b> | No                     |

| <p><b>Table 6</b></p> <p><b>VCM Operational Noise Monitoring Results Leq(15min) – 31 October 2025 (Night)</b></p> |             |               |                                  |                        |                            |                    |                                             |                        |
|-------------------------------------------------------------------------------------------------------------------|-------------|---------------|----------------------------------|------------------------|----------------------------|--------------------|---------------------------------------------|------------------------|
| Location                                                                                                          | Time        | dB(A),<br>Leq | VCM<br>Contribution<br>dB(A),Leq | Criterion<br>dB(A),Leq | Wind<br>speed<br>(m/s),dir | Stability<br>Class | Identified Noise Sources<br>dB(A),Leq       | Exceedance<br>(Yes/No) |
| N-AT1 / 7                                                                                                         | 10:54<br>pm | 28            | <20                              | 35                     | 2.3 / 60                   | D                  | Traffic (27), insects (20), <b>VCM (IA)</b> | No                     |
| N-AT2 / 8                                                                                                         | 10:00<br>pm | 43            | <20                              | 42*                    | 4.8 / 73                   | D                  | Traffic (42), insects (33), <b>VCM (IA)</b> | No                     |

| <p><b>Table 7</b></p> <p><b>VCM Operational Noise Monitoring Results LA<sub>max</sub> – 31 October 2025</b></p> |          |                             |                                                    |                                          |                         |                    |                                |                        |
|-----------------------------------------------------------------------------------------------------------------|----------|-----------------------------|----------------------------------------------------|------------------------------------------|-------------------------|--------------------|--------------------------------|------------------------|
| Location                                                                                                        | Time     | dB(A),<br>LA <sub>max</sub> | VCM<br>Contribution<br>dB(A),<br>LA <sub>max</sub> | Criterion<br>dB(A),<br>LA <sub>max</sub> | Wind speed<br>(m/s),dir | Stability<br>Class | LA <sub>max</sub> Noise Source | Exceedance<br>(Yes/No) |
| N-AT1 / 7                                                                                                       | 10:54 pm | 48                          | <20                                                | 52                                       | 2.3 / 60                | D                  | Birds                          | No                     |
| N-AT2 / 8                                                                                                       | 10:00 pm | 50                          | <20                                                | 52                                       | 4.8 / 73                | D                  | Highway                        | No                     |

\* Criteria increased 5 dB due to non-compliant meteorological conditions

**Table 5 – Monthly Monitoring (Blasts – Limits Apply)**

| Location    | Parameter              | Units of Measure     | Frequency          | No. of Blasts for the Month | Average Value | Max Value | 100%ile Limit | (Potential) Non-compliance /breach | Date of Max. Value Obtained |
|-------------|------------------------|----------------------|--------------------|-----------------------------|---------------|-----------|---------------|------------------------------------|-----------------------------|
| <b>B-01</b> | <b>Blast Noise</b>     | <b>dB (Lin Peak)</b> | <b>Every Blast</b> | 6                           | 101.33        | 103.8     | <b>N/A</b>    | <b>Nil</b>                         | 14/10/2025                  |
|             | <b>Blast Vibration</b> | <b>mm/s</b>          | <b>Every Blast</b> | 6                           | 0.62          | 1.65      | <b>N/A</b>    | <b>Nil</b>                         | 23/10/2025                  |

| Location    | Parameter              | Units of Measure     | Frequency          | No. of Blasts for the Month | Average Value | Max Value | 100%ile Limit | (Potential) Non-compliance /breach | Date of Max. Value Obtained |
|-------------|------------------------|----------------------|--------------------|-----------------------------|---------------|-----------|---------------|------------------------------------|-----------------------------|
| <b>B-02</b> | <b>Blast Noise</b>     | <b>dB (Lin Peak)</b> | <b>Every Blast</b> | 6                           | 86.98         | 105.8     | <b>N/A</b>    | <b>Nil</b>                         | 14/10/2025                  |
|             | <b>Blast Vibration</b> | <b>mm/s</b>          | <b>Every Blast</b> | 6                           | 2.47          | 7.21      | <b>N/A</b>    | <b>Nil</b>                         | 23/10/2025                  |

| Location    | Parameter              | Units of Measure     | Frequency          | No. of Blasts for the Month | Average Value | Max Value | 100%ile Limit | (Potential) Non-compliance /breach | Date of Max. Value Obtained |
|-------------|------------------------|----------------------|--------------------|-----------------------------|---------------|-----------|---------------|------------------------------------|-----------------------------|
| <b>B-03</b> | <b>Blast Noise</b>     | <b>dB (Lin Peak)</b> | <b>Every Blast</b> | 6                           | 80.38         | 102.30    | <b>120</b>    | <b>No</b>                          | 28/10/2025                  |
|             | <b>Blast Vibration</b> | <b>mm/s</b>          | <b>Every Blast</b> | 6                           | 0.41          | 0.85      | <b>10</b>     | <b>No</b>                          | 23/10/2025                  |

**Table 6- PM1 Monthly Monitoring (Limits apply)**

| Location                                                          | No. of samples required by licence | Lowest sample value | Mean of sample | Highest sample value |
|-------------------------------------------------------------------|------------------------------------|---------------------|----------------|----------------------|
| <b>PM10</b><br><b>TEOM (<math>\mu\text{g}/\text{m}^3</math>)</b>  | Continuous                         | 5.7                 | 16.4           | 43.7                 |
| <b>PM2.5</b><br><b>TEOM (<math>\mu\text{g}/\text{m}^3</math>)</b> | Continuous                         | 2.5                 | 7.5            | 22.5                 |

**Table 7- PM2 Monthly Monitoring (Limits apply)**

| Location                                                          | No. of samples required by licence | Lowest sample value | Mean of sample | Highest sample value |
|-------------------------------------------------------------------|------------------------------------|---------------------|----------------|----------------------|
| <b>PM10</b><br><b>TEOM (<math>\mu\text{g}/\text{m}^3</math>)</b>  | Continuous                         | 8.6                 | 16.3           | 34.2                 |
| <b>PM2.5</b><br><b>TEOM (<math>\mu\text{g}/\text{m}^3</math>)</b> | Continuous                         | 2.3                 | 7.1            | 20.3                 |

Figure 1 – EPL 21283 Monitoring Locations

