

# Ellerton Drive Extension

## Environment Protection Licence 20852



## EPL Monitoring data –June 2018

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### 1 ENVIRONMENT PROTECTION LICENCE – DETAILS

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The Environment Protection Licence for the Ellerton Drive Project (No. 20852) can be viewed on the EPA website [here](#).

The Licensee is:

WBHO Infrastructure Pty Ltd  
580 St Kilda Road  
Melbourne VIC 3004

### 2 SEDIMENT BASIN DISCHARGE – WATER MONITORING

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Under Condition M2.3 of EPL 20852, water must be monitored daily during any discharge.

No sediment basins were discharged during the month of June 2018.

### 3 DUST MONITORING

Under Condition M2.2 of EPL 20852, dust must be monitored monthly at each monitoring point.

Ten (10) dust monitoring gauges (DMGs) listed on EPL 20852 were in operation during the period May 2018 – June 2018.

Dust samples were collected from gauges at the following locations in June 2018:

- NCA 2 – Sensitive receiver, Stonehaven Circuit
- NCA 3 – Sensitive receiver, Taylor Place
- NCA 4 – Sensitive receiver, Severne St
- NCA 5 – Sensitive receiver, Lonergan Drive
- NCA 6 – Sensitive receiver, Severne St
- NCA 7 – Sensitive receiver, Doeberl Place
- NCA 8 – Sensitive receiver, Barracks Flat Drive
- NCA 8 – Sensitive receiver, Alfred Place

The result of the dust monitoring is provided in Table 1 below.

**Table 1 – Dust Monitoring**

|  |                         | DMG ID                 | DMG 01     | DMG 02     | DMG 03     | DMG 04     | DMG 05     | DMG 06     | DMG 07     | DMG 08     | DMG 09     | DMG 10     |              |
|--|-------------------------|------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|
|  |                         | EPL identifier         | 2          | 4          | 5          | 6          | n/a        | 8          | 9          | 10         | 11         | 7          |              |
|  |                         | Start date of sampling | 14/05/2018 | 14/05/2018 | 15/05/2018 | 16/05/2018 | 15/05/2018 | 15/05/2018 | 14/05/2018 | 15/05/2018 | 14/05/2018 | 15/05/2018 |              |
|  |                         | End date of sampling   | 14/06/2018 | 13/06/2018 | 15/06/2018 | 14/06/2018 | 14/06/2018 | 15/06/2018 | 13/06/2018 | 15/06/2018 | 14/06/2018 | 14/06/2018 |              |
| Analyte  | Unit                    | Level of concern       | LOR        |            |            |            |            |            |            |            |            |            |              |
| Ash content  | g/m <sup>2</sup> .month | 4                      | 0.05       | 0.72       | 0.64       | 1.53       | 0.79       | 0.54       | 1.2        | 1.1        | 4.3        | 2.14       | 0.74         |
| Combustible matter                                     | g/m <sup>2</sup> .month | n/a                    | 0.2        | 0.2        | 0.2        | 0.2        | 0.8        | 0.2        | 0.2        | 0.2        | 0.3        | 0.5        | 0.2          |
| Total insoluble matter                                 | g/m <sup>2</sup> .month | 4                      | 0.2        | 0.9        | 0.8        | 1.7        | 1.6        | 0.7        | 1.4        | 1.3        | 4.6        | 2.6        | 0.9          |
| <b>Total insoluble matter (annual average to date)</b> | g/m <sup>2</sup> .month | 4                      |            | <b>1.4</b> | <b>1.3</b> | <b>2.2</b> | <b>1.2</b> | <b>0.7</b> | <b>1.8</b> | <b>1.3</b> | <b>2.1</b> | <b>1.9</b> | <b>23.2*</b> |

LOR = Limit of reporting

EPL = Environment Protection Licence

NR = No result

\* Outlying results were returned from this monitoring point over the preceding three months, contributing to a high annual average result. Outlying results have been investigated in consultation with the EPA and Roads and Maritime Services.

## 4 NOISE MONITORING

Under Condition M2.4 of EPL 20852, noise monitoring at each monitoring point must be conducted monthly.

Noise monitoring was conducted at nine (9) sensitive receivers, within eight (8) Noise Catchment Areas (NCAs) during June 2017. The noise monitoring results are summarised in Table 2 below.

**Table 2 Noise monitoring results June 2018**

| Noise monitoring location details | Measurement details |            | Measured noise levels dB(A)<br>(15 minute sample) |      |      |       | Construction noise dominated? | Description of ambient noise sources | Construction noise generating activities |
|-----------------------------------|---------------------|------------|---|------|------|-------|-------------------------------|--------------------------------------|--|
|                                   |                     |            | LAeq  | LA10 | LA90 | LAMax |                               |                                      |  |
| <b>NCA 1</b>                      | Date:               | 27/06/2018 | <b>45.4</b>                                       | 51.0 | 29.0 | 65.0  | <b>Y</b>                      |                                      | Noise wall setup works on Ellerton Drive |
| Thomas Royal Gardens              | Start time:         | 14:57      |   |      |      |       |                               |                                      |  |
| EPL ID: 3                         | Run time (min):     | 15:00      |   |      |      |       |                               |                                      |  |
|                                   | Wind speed:         | 1-2 m/s    |   |      |      |       |                               |                                      |  |
|                                   | Wind direction:     | E          |   |      |      |       |                               |                                      |  |
|                                   | Temp (°C):          | 13         |   |      |      |       |                               |                                      |  |
|                                   | Cloud cover:        | 6/8        |   |      |      |       |                               |                                      |  |
| <b>NCA 2</b>                      | Date:               | 27/06/2018 | <b>50.3</b>                                       | 47.0 | 38.5 | 80.9  | <b>Y</b>                      | Birds overhead (max)                 | Noise wall setup works on Ellerton Drive |
| Stonehaven Circuit                | Start time:         | 14:06      |   |      |      |       |                               |                                      |  |
| EPL ID: 12                        | Run time:           | 15:00      |   |      |      |       |                               |                                      |  |
|                                   | Wind speed:         | 1-2 m/s    |   |      |      |       |                               |                                      |  |
|                                   | Wind direction:     | NE         |   |      |      |       |                               |                                      |  |
|                                   | Temp (°C):          | 13         |   |      |      |       |                               |                                      |  |
|                                   | Cloud cover:        | 5/8        |   |      |      |       |                               |                                      |  |
| <b>NCA 3</b>                      | Date:               | 27/06/2018 | <b>39.6</b>                                       | 41.5 | 32.0 | 63.1  | <b>N</b>                      | Birds, aeroplanes overhead           | Plant and machinery working to the north |
| Taylor Place                      | Start time:         | 14:34      |   |      |      |       |                               |                                      |  |
| EPL ID: 13                        | Run time (min):     | 15:00      |   |      |      |       |                               |                                      |  |
|                                   | Wind speed:         | 1-2 m/s    |   |      |      |       |                               |                                      |  |
|                                   | Wind direction:     | NE         |   |      |      |       |                               |                                      |  |
|                                   | Temp (°C):          | 13         |   |      |      |       |                               |                                      |  |
|                                   | Cloud cover:        | 5/8        |   |      |      |       |                               |                                      |  |

| Noise monitoring location details | Measurement details |            | Measured noise levels dB(A)<br>(15 minute sample) |      |      |       | Construction noise dominated? | Description of ambient noise sources | Construction noise generating activities                                   |
|-----------------------------------|---------------------|------------|---|------|------|-------|-------------------------------|--------------------------------------|--|
|                                   |                     |            | LAeq  | LA10 | LA90 | LAMax |                               |                                      |  |
| <b>NCA 4</b>                      | Date:               | 22/06/2018 | <b>49.6</b>                                       | 52.5 | 44.0 | 62.8  | <b>Y</b>                      | Aeroplanes overhead<br>Birds nearby  | Compactor with reverse alarm<br>Light vehicles passing nearby              |
| Severne Street                    | Start time:         | 13:22      |   |      |      |       |                               |                                      |  |
| EPL ID: 14                        | Run time:           | 15:00      |   |      |      |       |                               |                                      |  |
|                                   | Wind speed:         | 1 m/s      |   |      |      |       |                               |                                      |  |
|                                   | Wind direction:     | NW         |   |      |      |       |                               |                                      |  |
|                                   | Temp (°C):          | 10         |   |      |      |       |                               |                                      |  |
|                                   | Cloud cover:        | 0/8        |   |      |      |       |                               |                                      |  |
| <b>NCA 5</b>                      | Date:               | 29/06/2018 | <b>64.9</b>                                       | 55.0 | 38.0 | 88.3  | <b>Y</b>                      | Birds nearby                         | Pile driving (hammering of steel beams)                                    |
| Lonergan Drive                    | Start time:         | 10:58      |   |      |      |       |                               |                                      |  |
| EPL ID: 15                        | Run time:           | 15:00      |   |      |      |       |                               |                                      |  |
|                                   | Wind speed:         | 2 m/s      |   |      |      |       |                               |                                      |  |
|                                   | Wind direction:     | NW         |   |      |      |       |                               |                                      |  |
|                                   | Temp (°C):          | 8          |   |      |      |       |                               |                                      |  |
|                                   | Cloud cover:        | 3/8        |   |      |      |       |                               |                                      |  |
| <b>NCA 6</b>                      | Date:               | 19/06/2018 | <b>54.5</b>                                       | 58.0 | 49.0 | 68.8  | <b>Y</b>                      | Birds nearby                         | Dozer<br>Dump trucks and excavators  |
| Severne Street                    | Start time:         | 8:30       |   |      |      |       |                               |                                      |  |
| EPL ID: 16                        | Run time:           | 15:00      |   |      |      |       |                               |                                      |  |
|                                   | Wind speed:         | 2-3 m/s    |   |      |      |       |                               |                                      |  |
|                                   | Wind direction:     | SW         |   |      |      |       |                               |                                      |  |
|                                   | Temp (°C):          | 6          |   |      |      |       |                               |                                      |  |
|                                   | Cloud cover:        | 2/8        |   |      |      |       |                               |                                      |  |
| <b>NCA 7</b>                      | Date:               | 27/06/2018 | <b>43.1</b>                                       | 46.0 | 34.5 | 65.4  | <b>Y</b>                      | Traffic on Barracks Flat Dr          | Construction plant working to the west<br>Machinery working at bridge site |
| Doeberl Pl                        | Start time:         | 16:44      |   |      |      |       |                               |                                      |  |
| EPL ID: 17                        | Run time:           | 15:00      |   |      |      |       |                               |                                      |  |
|                                   | Wind speed:         | 1-2 m/s    |   |      |      |       |                               |                                      |  |
|                                   | Wind direction:     | E          |   |      |      |       |                               |                                      |  |
|                                   | Temp (°C):          | 12         |   |      |      |       |                               |                                      |  |
|                                   | Cloud cover:        | 6/8        |   |      |      |       |                               |                                      |  |

| Noise monitoring location details | Measurement details |            | Measured noise levels dB(A)<br>(15 minute sample) |      |      |       | Construction noise dominated? | Description of ambient noise sources                    | Construction noise generating activities  |
|-----------------------------------|---------------------|------------|---|------|------|-------|-------------------------------|---|---|
|                                   |                     |            | LAeq  | LA10 | LA90 | LAMax |                               |   |   |
| <b>NCA 8 (A)</b>                  | Date:               | 27/06/2018 | <b>64.7</b>                                       | 68.0 | 59.0 | 73.6  | <b>Y</b>                      | Traffic on Old Cooma Road<br>Traffic on Edwin Land Pkwy | Pad foot roller and reversing alarm.<br>Water cart<br>Excavator<br>Grader<br>Light vehicles passing |
| Alfred Place                      | Start time:         | 9:34       |   |      |      |       |                               |   |   |
| EPL ID: 18                        | Run time:           | 15:00      |   |      |      |       |                               |   |   |
|                                   | Wind speed:         | 1-2 m/s    |   |      |      |       |                               |   |   |
|                                   | Wind direction:     | SE         |   |      |      |       |                               |   |   |
|                                   | Temp (°C):          | 8          |   |      |      |       |                               |   |   |
|                                   | Cloud cover:        | 7/8        |   |      |      |       |                               |   |   |
| <b>NCA 8 (B)</b>                  | Date:               | 27/06/2018 | <b>61.3</b>                                       | 66.0 | 37.5 | 75.7  | <b>Y</b>                      | Vehicles on Barracks Flat Dr                            | Construction plant working nearby<br>Excavators and water carts                                     |
| Barracks Flat Drive               | Start time:         | 17:04      |   |      |      |       |                               |   |   |
| EPL ID: 19                        | Run time:           | 15:00      |   |      |      |       |                               |   |   |
|                                   | Wind speed:         | 1-2 m/s    |   |      |      |       |                               |   |   |
|                                   | Wind direction:     | E          |   |      |      |       |                               |   |   |
|                                   | Temp (°C):          | 12         |   |      |      |       |                               |   |   |
|                                   | Cloud cover:        | 6/8        |   |      |      |       |                               |   |   |