

Ellerton Drive Extension

Environment Protection Licence 20852



EPL Monitoring data – April 2018

1 ENVIRONMENT PROTECTION LICENCE – DETAILS

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

No sediment basins were discharged during the month of April 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 March 2018 – April 2018.

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

- NCA 1 – Sensitive receiver, Ellerton Drive
- 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 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 | |
|---|-------------------------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| | | NCA | NCA 1 | NCA 2 | NCA 3 | NCA 4 | NCA 5 | NCA 6 | NCA 7 | NCA 8 | NCA 8 | NCA 5 | |
| | | EPL identifier | 2 | 4 | 5 | 6 | n/a | 8 | 9 | 10 | 11 | 7 | |
| | | Start date of sampling | 13/03/18 | 13/03/18 | 13/03/18 | 13/03/18 | 13/03/18 | 13/03/18 | 13/03/18 | 13/03/18 | 13/03/18 | 13/03/18 | |
| | | End date of sampling | 12/04/18 | 12/04/18 | 13/04/18 | 13/04/18 | 13/04/18 | 13/04/18 | 12/04/18 | 13/04/18 | 12/04/18 | 13/04/18 | |
| Analyte | Unit | Levels of concern | LOR | | | | | | | | | | |
| Ash content | g/m ² .month | 4 | 0.05 | 0.74 | 0.68 | 1.45 | 1.13 | 2.93 | 1.33 | 0.98 | 2.19 | 1.01 | 43.6 |
| Combustible matter | g/m ² .month | n/a | 0.2 | 0.2 | 0.2 | 0.2 | 0.5 | 0.9 | 0.5 | 0.3 | 0.7 | 0.8 | 5.3 |
| Total insoluble matter | g/m ² .month | 4 | 0.2 | 0.9 | 0.9 | 1.7 | 1.6 | 3.8 | 1.8 | 1.3 | 2.9 | 1.8 | 48.9 |
| Total insoluble matter (annual average to date) | g/m ² .month | 4 | | 1.3 | 1.0 | 2.4 | 1.2 | 3.8 | 1.5 | 1.0 | 1.6 | 1.4 | 27.0 |

LOR = Limit of reporting

EPL = Environment Protection Licence

* The results for DMG 10 are not consistent with the results obtained from any other dust monitoring points for this monitoring period. WBHO are investigating this result in consultation with the Environment Protection Authority (EPA).

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 April 2018. The noise monitoring results are summarised in Table 2 below.

Table 2 Noise monitoring results April 2018

| Noise monitoring location details | Measurement details | | Measured noise levels dB(A) (15 minute sample) | | | | Construction noise dominated? | Description of ambient noise sources | Construction noise generating activities |
|-----------------------------------|---------------------|------------|---|-------------|-------------|-------------|-------------------------------|--|---|
| | | | LAeq | LA10 | LA90 | LAMax | | | |
| NCA 1 | Date: | 30/04/2018 | 48.3 | 51.0 | 46.0 | 64.4 | Y | Vehicles further down Ellerton Drive | Generator near crib huts Vehicles entering and leaving the compound area Workers talking near the crib huts |
| Thomas Royal Gardens | Start time: | 11:58am | | | | | | | |
| EPL ID: 3 | Run time (min): | 15:00 | | | | | | | |
| | Wind speed: | < 1m/s | | | | | | | |
| | Wind direction: | N | | | | | | | |
| | Temp (°C): | 16 | | | | | | | |
| | Cloud cover: | 0/8 | | | | | | | |
| NCA 2 | Date: | 30/04/2018 | 48.4 | 51.0 | 36.0 | 68.1 | N | Vehicles up and down Ellerton Drive | Construction noise faintly audible in distance |
| Stonehaven Circuit | Start time: | 12:24pm | | | | | | | |
| EPL ID: 12 | Run time: | 15:00 | | | | | | | |
| | Wind speed: | Calm | | | | | | | |
| | Wind direction: | Calm | | | | | | | |
| | Temp (°C): | 16 | | | | | | | |
| | Cloud cover: | 0/8 | | | | | | | |
| NCA 3 | Date: | 30/04/2018 | 37.1 | 40.5 | 30.5 | 59.5 | Y | Aeroplanes Birds Greyhounds at the adjacent property | Service truck along the site access (max) Excavator working near Culvert 2 audible. Light vehicles along access road. |
| Taylor Place | Start time: | 1:00pm | | | | | | | |
| EPL ID: 13 | Run time (min): | 15:00 | | | | | | | |
| | Wind speed: | Calm | | | | | | | |
| | Wind direction: | Calm | | | | | | | |
| | Temp (°C): | 17 | | | | | | | |
| | Cloud cover: | 0/8 | | | | | | | |

| Noise monitoring location details | Measurement details | | Measured noise levels dB(A) (15 minute sample) | | | | Construction noise dominated? | Description of ambient noise sources | Construction noise generating activities |
|-----------------------------------|---------------------|------------|---|-------------|-------------|-------------|-------------------------------|--------------------------------------|--|
| | | | LAeq | LA10 | LA90 | LAMax | | | |
| NCA 4 | Date: | 30/04/2018 | 52.0 | 53.5 | 50.0 | 65.4 | Y | Magpies calling nearby | Machinery working on a nearby earthworks cut: 2 x Bulldozers 1 x excavator Dump trucks Light vehicles and service vehicles |
| Severne Street | Start time: | 1:25pm | | | | | | | |
| EPL ID: 14 | Run time: | 15:00 | | | | | | | |
| | Wind speed: | Calm | | | | | | | |
| | Wind direction: | Calm | | | | | | | |
| | Temp (°C): | 17 | | | | | | | |
| | Cloud cover: | 0/8 | | | | | | | |
| NCA 5 | Date: | 30/04/2018 | 64.0 | 68.0 | 55.0 | 76.9 | Y | | Bulk earthworks: Bulldozer Excavator Dump trucks |
| Lonergan Drive | Start time: | 2:35pm | | | | | | | |
| EPL ID: 15 | Run time: | 15:00 | | | | | | | |
| | Wind speed: | < 1m/s | | | | | | | |
| | Wind direction: | N | | | | | | | |
| | Temp (°C): | 18 | | | | | | | |
| | Cloud cover: | 0/8 | | | | | | | |
| NCA 6 | Date: | 30/04/2018 | 59.8 | 61.5 | 57.0 | 68.8 | Y | Birds | Machinery working on a nearby earthworks cut: Bulldozer Excavator Dump trucks hauling material along access road |
| Severne Street | Start time: | 1:45pm | | | | | | | |
| EPL ID: 16 | Run time: | 15:00 | | | | | | | |
| | Wind speed: | Calm | | | | | | | |
| | Wind direction: | N | | | | | | | |
| | Temp (°C): | 18 | | | | | | | |
| | Cloud cover: | 0/8 | | | | | | | |
| NCA 7 | Date: | 27/04/2018 | 45.0 | 47.5 | 38.5 | 63.8 | Y | Birds People in adjacent houses | Machinery working north of the Qbn River |
| Doeberl Pl | Start time: | 9:12am | | | | | | | |
| EPL ID: 17 | Run time: | 15:00 | | | | | | | |
| | Wind speed: | < 1m/s | | | | | | | |
| | Wind direction: | SE | | | | | | | |
| | Temp (°C): | 13 | | | | | | | |
| | Cloud cover: | 0/8 | | | | | | | |

| Noise monitoring location details | Measurement details | | Measured noise levels dB(A) (15 minute sample) | | | | Construction noise dominated? | Description of ambient noise sources | Construction noise generating activities |
|-----------------------------------|---------------------|------------|---|-------------|-------------|-------------|-------------------------------|--|---|
| | | | LAeq | LA10 | LA90 | LAMax | | | |
| NCA 8 (A) | Date: | 27/04/2018 | 51.4 | 53.5 | 46.0 | 72.8 | Y | Trucks on Old Cooma Road Trucks on Edwin Land Parkway | Excavator moving mulch within project site Tip truck hauling mulch |
| Alfred Place | Start time: | 8:49am | | | | | | | |
| EPL ID: 18 | Run time: | 15:00 | | | | | | | |
| | Wind speed: | < 1m/s | | | | | | | |
| | Wind direction: | SE | | | | | | | |
| | Temp (°C): | 13 | | | | | | | |
| | Cloud cover: | 0/8 | | | | | | | |
| NCA 8 (B) | Date: | 26/04/2018 | 37.4 | 38.5 | 32.5 | 60.4 | N | Birds (max) Aeroplanes Dogs barking | Excavator audible in distance (bucket) |
| Barracks Flat Drive | Start time: | 2:42pm | | | | | | | |
| EPL ID: 19 | Run time: | 15:00 | | | | | | | |
| | Wind speed: | < 1m/s | | | | | | | |
| | Wind direction: | N | | | | | | | |
| | Temp (°C): | 22 | | | | | | | |
| | Cloud cover: | 0/8 | | | | | | | |