

# Ellerton Drive Extension

## Environment Protection Licence 20852



## EPL Monitoring data – August 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.

One sediment basin was manually discharged during the month of August 2018. Concentration limits are outlined below. The details of monitoring undertaken are provided in Table 1.

**Concentration limits:**

pH:	6.5 – 8.5
TSS:	50 mg/L
Oil and grease:	Not visible

Table 1 Sediment basin discharge monitoring

Basin ID	Date	Total Suspended Solids (TSS) (mg/L)	Turbidity (NTU)	pH	Oil and grease	Comments
1940L	22/08/2018	17	20.3	7.18	Not visible	No discharge on this day
1940L	29/08/2018	11	21.4	7.11	Not visible	Discharged
1940L	30/08/2018	17	22.1	7.14	Not visible	Discharged

### 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 July 2018 – August 2018.

Dust samples were collected from gauges at the following locations in August 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	16/07/2018	16/07/2018	13/07/2018	13/07/2018	13/07/2018	16/07/2018	13/07/2018	16/07/2018	13/07/2018	13/07/2018	
		End date of sampling	16/08/2018	16/08/2018	14/08/2018	14/08/2018	14/08/2018	16/08/2018	14/08/2018	16/08/2018	15/08/2018	14/08/2018	
Analyte	Unit	Level of concern	LOR										
Ash content	g/m <sup>2</sup> .month	4	0.05	2.63	2.28	1.52	1.23	1.4	2.57	1.5	2.01	1.86	1.38
Combustible matter	g/m <sup>2</sup> .month	n/a	0.2	0.5	0.4	0.3	0.4	0.6	0.3	0.3	0.4	0.4	0.3
Total insoluble matter	g/m <sup>2</sup> .month	4	0.2	3.1	2.7	1.8	1.6	2	2.9	1.8	2.4	2.3	1.7
<b>Total insoluble matter (annual average to date)</b>	g/m <sup>2</sup> .month	4		1.8	1.4	1.9	1.2	2.0	1.9	1.5	2.0	1.9	16.9*

LOR = Limit of reporting

EPL = Environment Protection Licence

NR = No result

\* Outlying results were returned from this monitoring point between February and May 2018, contributing to a high annual average result. Outlying results were 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 August 2017. The noise monitoring results are summarised in Table 2 below.

**Table 2 Noise monitoring results August 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			
<b>NCA 1</b>	Date:	9/08/2018	62.1	65.5	53.5	75.2	Y		<b>Excavations and general works:</b> Light vehicles Excavator Trucks in and out of site, and idling nearby. Generator Workers on foot with hand tools
Thomas Royal Gd	Start time:	13:43:00							
EPL ID: 3	Run time (min):	15:00							
	Wind speed:	1.5 m/s							
	Wind direction:	NW							
	Temp (°C):	11.5							
	Cloud cover:	0/8							
<b>NCA 2</b>	Date:	9/08/2018	57.2	59.5	54.0	66.5	Y		<b>Excavations and general works:</b> Light vehicles Excavator Trucks in and out of site Generator
Stonehaven Cct	Start time:	13:26:00							
EPL ID: 12	Run time:	15:00							
	Wind speed:	3 m/s							
	Wind direction:	NW							
	Temp (°C):	11.5							
	Cloud cover:	0/8							
<b>NCA 3</b>	Date:	14/08/2018	70.7	72.5	67.5	87.7	Y		<b>Rock crushing and earthworks:</b> Rock crusher with excavator and loader Light vehicles and trucks on the haul road
Taylor Place	Start time:	13:26:00							
EPL ID: 13	Run time (min):	15:00							
	Wind speed:	3 m/s							
	Wind direction:	NNW							
	Temp (°C):	14							
	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			
<b>NCA 4</b>	Date:	30/08/2018	43.3	46.0	36.0	66.5	Y	Birds calling Traffic through nearby driveway	<b>Earthworks and rock hammering:</b> Excavator with a rock hammer Haul trucks
Severne Street	Start time:	09:46:00							
EPL ID: 14	Run time:	15:00							
	Wind speed:	1 m/s							
	Wind direction:	N							
	Temp (°C):	11							
	Cloud cover:	0/8							
<b>NCA 5</b>	Date:	30/08/2018	58.5	62.5	50.5	73.0	Y		<b>Bridge piling and earthworks:</b> Jack hammer at bridge piers Drill rig Workers with hand tools Machinery south of Barracks Flat Drive
Lonerган Drive	Start time:	13:09:00							
EPL ID: 15	Run time:	15:00							
	Wind speed:	1.5 m/s							
	Wind direction:	NW							
	Temp (°C):	13							
	Cloud cover:	8/8							
<b>NCA 6</b>	Date:	30/08/2018	64.3	67.0	59.5	75.1	Y	Birds and dogs	<b>Fill placement:</b> Compactor Grader Excavator 2 x padfoot rollers Moxy water cart 2 x dump trucks Excavator w/rock hammer approx. 200 m away
Severne Street	Start time:	10:25:00							
EPL ID: 16	Run time:	15:00							
	Wind speed:	1 m/s							
	Wind direction:	NW							
	Temp (°C):	12							
	Cloud cover:	0/8							
<b>NCA 7</b>	Date:	31/08/2018	62.5	67.0	44.0	75.4	Y	Birds and dogs	<b>Earthworks:</b> Excavator Dozer Scraper
Doeberl Pl	Start time:	08:33:00							
EPL ID: 17	Run time:	15:00							
	Wind speed:	1 m/s							
	Wind direction:	N							
	Temp (°C):	8							
	Cloud cover:	8/8							

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			
<b>NCA 8 (A)</b>	Date:	8/08/2018	72.3	70.0	61.5	77.4	Y		<b>Fill placement:</b> Compactor (within 10 metres) Grader Light vehicles
Alfred Place	Start time:	03:08:00							
EPL ID: 18	Run time:	15:00							
	Wind speed:	Calm							
	Wind direction:	Calm							
	Temp (°C):	10							
	Cloud cover:	7/8							
<b>NCA 8 (B)</b>	Date:	22/08/2018	62.6	65.0	58.5	76.2	Y		<b>Stockpiling of material:</b> Haul trucks Dozer / loader Light vehicles
Barracks Flat Dr	Start time:	11:02:00							
EPL ID: 19	Run time:	15:00							
	Wind speed:	1.5 m/s							
	Wind direction:	NW							
	Temp (°C):	9.5							
	Cloud cover:	3/8							