

Ellerton Drive Extension

Environment Protection Licence 20852



EPL Monitoring data – September 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

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

Two sediment basins was manually discharged during the month of September 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
700R	19/09/2018	6	11.7	7.03	Not visible	Discharged
2960L	27/09/2018	3	10.3	7.21	Not visible	Discharged
2960L	28/09/2018	2	10.4	7.23	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 August 2018 – September 2018.

Dust samples were collected from gauges at the following locations in September 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	16/08/2018	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	
		End date of sampling	14/09/2018	14/09/2018	14/09/2018	14/09/2018	14/09/2018	13/09/2018	14/09/2018	17/09/2018	14/09/2018	14/09/2018	
Analyte	Unit	Level of concern	LOR										
Ash content	g/m ² .month	4	0.05	0.75	1.12	0.79	0.47	0.47	0.82	1.19	1.01	1.32	0.5
Combustible matter	g/m ² .month	n/a	0.2	0.2	0.3	0.4	0.2	0.2	0.2	0.3	0.2	0.4	0.3
Total insoluble matter	g/m ² .month	4	0.2	1	1.4	1.2	0.7	0.7	1	1.5	1.2	1.7	0.8
Total insoluble matter (annual average to date)	g/m ² .month	4		1.7	1.4	1.9	1.1	0.7	1.8	1.5	1.9	1.9	14.9*

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 September 2017. The noise monitoring results are summarised in Table 2 below.

Table 2 Noise monitoring results September 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:	28/09/2018	54.0	56.5	51.0	62.9	Y	Nil.	Excavator working nearby Reverse beepers
Thomas Royal Gd	Start time:	16:44:00							
EPL ID: 3	Run time (min):	15:00							
	Wind speed:	5 m/s							
	Wind direction:	NW							
	Temp (°C):	20.5							
	Cloud cover:	1/8							
NCA 2	Date:	27/09/2018	58.6	57.5	48.5	81.3	Y	Birds Residents speaking	Trenching and service relocation works on the road verge behind property. Excavator and workers on foot.
Stonehaven Cct	Start time:	11:47							
EPL ID: 12	Run time:	15:00							
	Wind speed:	2 m/s							
	Wind direction:	NW							
	Temp (°C):	17.5							
	Cloud cover:	0/8							
NCA 3	Date:	28/09/2018	53.6	56.5	48.0	64.9	Y	Dogs barking Birds	Haul trucks through the site Dump trucks Water carts Excavator and compactor 150m away
Taylor Place	Start time:	13:16							
EPL ID: 13	Run time (min):	15:00							
	Wind speed:	2.5 m/s							
	Wind direction:	NW							
	Temp (°C):	23.5							
	Cloud cover:	4/8							

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:	28/09/2018	50.7	52.5	46.0	64.2	Y	Birds Chainsaw in nearby private property	Excavator working 50m away Haul trucks through the site Dump trucks Water carts
Severne Street	Start time:	12:53							
EPL ID: 14	Run time:	15:00							
	Wind speed:	2 m/s							
	Wind direction:	NW							
	Temp (°C):	23							
	Cloud cover:	7/8							
NCA 5	Date:	28/09/2018	49.2	50.5	45.0	63.4	Y	Birds Traffic at Barracks Flat Drive	Workers with hand tools Excavator preparing environmental controls
Loneragan Drive	Start time:	17:11:00							
EPL ID: 15	Run time:	15:00							
	Wind speed:	5 m/s							
	Wind direction:	NW							
	Temp (°C):	20							
	Cloud cover:	1/8							
NCA 6	Date:	28/09/2018	55.0	57.5	48.0	72.7	Y	Birds	Haul trucks through the site Water carts Dump trucks Excavator in distance
Severne Street	Start time:	12:32							
EPL ID: 16	Run time:	15:00							
	Wind speed:	2 m/s							
	Wind direction:	NW							
	Temp (°C):	23							
	Cloud cover:	7/8							
NCA 7	Date:	25/09/2018	74.2	76.0	71.5	86.9	Y	Nil.	Rock crushing: crusher plant, loader, excavator Earthworks: grader, bulldozer, compactor watercart.
Doeberl Pl	Start time:	9:08							
EPL ID: 17	Run time:	15:00							
	Wind speed:	1 m/s							
	Wind direction:	NW							
	Temp (°C):	9							
	Cloud cover:	2/8							

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:	28/09/2018	56.2	59.0	50.5	78.6	Y	Traffic on Old Cooma Rd Traffic on Edwin Land Parkway Birds	Machinery working on fill/ environmental controls Machinery parking up at compound
Alfred Place	Start time:	4:14 PM							
EPL ID: 18	Run time:	15:00							
	Wind speed:	5 m/s							
	Wind direction:	NW							
	Temp (°C):	20							
	Cloud cover:	2/8							
NCA 8 (B)	Date:	20/09/2018	64.8	67.0	61.0	76.7	Y	Dog barking nearby	Rock crushing (excavator, crusher, loader).
Barracks Flat Dr	Start time:	9:31							
EPL ID: 19	Run time:	15:00							
	Wind speed:	Calm							
	Wind direction:	Calm							
	Temp (°C):	9							
	Cloud cover:	0/8							