

Ellerton Drive Extension

Environment Protection Licence 20852



EPL Monitoring data – July 2019

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.

Concentration limits:	pH:	6.5 – 8.5
	TSS:	50 mg/L (*if a statistical correlation is established between TSS and NTU, NTU may be used in place of TSS)
	Oil and grease:	Not visible

No sediment basins were discharged during the month of July 2019.

3 DUST MONITORING

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

Nine (9) dust monitoring gauges (DMGs) listed on EPL 20852 were in operation during the period June 2019 – July 2019.

Dust samples were collected from gauges at the following locations in July 2019:

- NCA 1 – DMG 01 - Sensitive receiver, Ellerton Drive
- NCA 2 – DMG 02 - Sensitive receiver, Stonehaven Circuit
- NCA 3 – DMG 03 - Sensitive receiver, Taylor Place
- NCA 4 – DMG 04 - Sensitive receiver, Severne St
- NCA 5 – DMG 05 - Sensitive receiver, Lonergan Drive
- NCA 6 – DMG 06 - Sensitive receiver, Severne St
- NCA 7 – DMG 07 - Sensitive receiver, Doeberl Place
- NCA 8 – DMG 08 - Sensitive receiver, Barracks Flat Drive
- NCA 8 – DMG 09 - 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	
		EPL identifier	2	4	5	6	7	8	9	10	11	
		Start date of sampling	18/06/2019	21/06/2019	19/06/2019	26/06/2019	17/06/2019	18/06/2019	17/06/2019	21/06/2019	1/07/2019	
		End date of sampling	18/07/2019	24/07/2019	18/07/2019	24/07/2019	18/07/2019	18/07/2019	22/07/2019	22/07/2019	30/07/2019	
Analyte	Unit	Level of concern	LOR									
Ash content	g/m ² .month	4	0.05	1.06	1.63	0.61	0.57	0.22	0.34	1.32	1.08	3.21
Combustible matter	g/m ² .month	n/a	0.2	0.2	0.3	0.2	0.4	0.2	0.2	0.3	0.2	1
Total insoluble matter	g/m ² .month	4	0.2	1.3	1.9	0.8	1	0.4	0.5	1.6	1.2	4.2
Total insoluble matter (annual average to date)	g/m ² .month	4		2.2	2.9	2.1	2.0	2.0	2.1	4.1	2.4	4.0

LOR = Limit of reporting

EPL = Environment Protection Licence

4 NOISE MONITORING

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

The noise monitoring results from the nominated monitoring locations are summarised in Table 2 below.

Table 2 Noise monitoring results July 2019

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:	31/07/2019	54.0	56.5	46.0	70.5	Y		Measurement taken near end of noise wall Haul trucks entering and exiting site frequently Water cart operating on Ellerton Drive Light vehicles
Thomas Royal Gd	Start time:	14:25:00							
EPL ID: 3	Run time (min):	15:00							
	Wind speed:	1 m/s							
	Wind direction:	NW							
	Temp (°C):	13							
	Cloud cover:	0/8							
NCA 2	Date:	31/07/2019	46.0	49.0	36.5	63.2	Y		Measurement taken behind noise wall Haul trucks entering and exiting site frequently Water cart operating on Ellerton Drive Light vehicles
Stonehaven Cct	Start time:	15:01:00							
EPL ID: 12	Run time:	15:00							
	Wind speed:	1 m/s							
	Wind direction:	NW							
	Temp (°C):	13							
	Cloud cover:	0/8							
NCA 3	Date:	31/07/2019	53.3	56.0	49.0	66.9	Y		HBB placement Multiple haul trucks (truck and dog) Grader Roller Light vehicles
Taylor Place	Start time:	8:29:00							
EPL ID: 13	Run time (min):	15:00							
	Wind speed:	1-2 m/s							
	Wind direction:	S							
	Temp (°C):	3							
	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:	29/07/2019	52.0	52.0	44.0	67.8	Y	Planes overhead Light rustling of surrounding trees Private vehicle travelling on driveway	Excavator Haul trucks, engine brakes Concrete pump Concrete trucks
Severne Street	Start time:	12:11:00							
EPL ID: 14	Run time:	15:00							
	Wind speed:	1-2 m/s							
	Wind direction:	NW							
	Temp (°C):	10							
	Cloud cover:	7/8							
NCA 5	Date:	15/07/2019	73.0	75.0	67.0	79.0	Y	Not audible	Bridge segment 4 concrete pour Concrete vibrators dominant (max)
Loneragan Drive	Start time:	9:38:00							
EPL ID: 15	Run time:	15:00							
	Wind speed:	< 1 m/s							
	Wind direction:	NE							
	Temp (°C):	6							
	Cloud cover:	0/8							
NCA 6	Date:	29/07/2019	55.9	59.5	46.5	67.7	Y	Birds overhead Light rustling of surrounding trees Aeroplanes overhead	Excavator Haul trucks, engine brakes Concrete pump Concrete trucks
Severne Street	Start time:	11:51:00							
EPL ID: 16	Run time:	15:00							
	Wind speed:	1-2 m/s							
	Wind direction:	NW							
	Temp (°C):	10							
	Cloud cover:	7/8							
NCA 7	Date:	30/07/2019	70.2	73.0	64.0	91.8	Y	Rock crushing (excavator, loader, crushing plant) Drilling of piles for noise wall (max) Excavator trimming batter Watercart Note: noise was amplified in this location due to the installation of the noise wall along the apposite side of the road (noise deflection).	
Doeberl Pl	Start time:	10:39:00							
EPL ID: 17	Run time:	15:00							
	Wind speed:	3 m/s							
	Wind direction:	SSW							
	Temp (°C):	8.5							
	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:	31/07/2019	57.5	62.5	45.5	69.5	Y	Dog next door	Earthworks: Scraper Grader Roller Concrete trucks Haul trucks Light vehicles and watercart
Alfred Place	Start time:	10:49:00							
EPL ID: 18	Run time:	15:00							
	Wind speed:	1-2 m/s							
	Wind direction:	SE							
	Temp (°C):	8							
	Cloud cover:	0/8							
NCA 8 (B)	Date:	22/07/2019	57.9	59.5	55.0	76.4	Y	Dog next door Birds overhead	1 x excavator drilling noise wall piles 1 x excavator trimming a fill batter Light vehicles
Barracks Flat Dr	Start time:	15:50:00							
EPL ID: 19	Run time:	15:00							
	Wind speed:	1-2 m/s							
	Wind direction:	NW							
	Temp (°C):	15							
	Cloud cover:	0/8							