



ENVIRONMENT PROTECTION LICENCE NO: 21029

September 2018 Monthly Report

FOR

**Princes Highway Upgrade
between Berry and Bomaderry**

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Revision history

Revision	Date	Description	Approval
0	09/10/18	For EPA Submission	
1	15/10/18	Updated with Dust deposition gauge results	
2			

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1 INTRODUCTION

The Downer Seymour Whyte Joint Venture (DSWJV) is contracted by Roads and Maritime Services (Roads and Maritime) to upgrade 10.3 kilometres of the Princes Highway between Mullers Lane (south of Berry) and Cambewarra Road, Bomaderry in New South Wales (NSW) (the Project). The project will provide a four-lane divided highway (two lanes in each direction) with median separation.

The project is one of a series of upgrades to sections of the Princes Highway which aims to provide a four-lane divided highway between Waterfall and Jervis Bay Road, Falls Creek. This would improve road safety and traffic efficiency, including for freight, on the NSW South Coast.

Figure 1 provides an overview of the project location.



Figure 1-1 Project location

In accordance with Environment Protection Licence (EPL) Condition R4.1, the following report details the required monitoring undertaken over the September 2018 reporting period.

2 NON-COMPLIANCES

No non-compliances with EPL conditions during the September 2018 reporting period.

3 RAINFALL

The RMS automatic weather station is situated at Ison Lane, Jaspers Brush, located adjacent to a main ancillary compound (Isons Compound) for the project. The results of rainfall monitoring for September 2018 are provided in Table 3-1 below.

Table 3-1 September 2018 Rainfall monitoring results

Location	Monthly rainfall recorded (mm)
Ison Lane, Jaspers Brush (RMS automatic weather station)	65.8

September 2018 recorded nine rainfall events at the project specific weather station (Ison Lane, Jaspers Brush (RMS automatic weather station)). The weather conditions facilitated the ongoing commencement of early earthworks, including construction of sediment basins, installation of erosion and sediment controls, establishment of site compounds, clearing activities. Dust mitigation continued with the use of polymers for stabilisation of unsealed surfaces and stockpiles, stopping of works during high winds and regular use of a water-cart.

4 SEDIMENT BASIN DISCHARGE

No sediment basin discharge was required or undertaken during the September 2018 reporting period. The only sediment basin on the EPL at present is TB22.80N at the Ison Compound.

Table 4-1 September 2018 Sediment basin discharge

EPA Identification No.	Location (adjacent address)	pH (6.5-8.5)	Total Suspended Solids (50mg/L)	Oil and Grease (none visible)
TB22.80N	Ison Compound	-	-	-

5 AIR MONITORING RESULTS

Dust deposition gauges for the project were installed on 3 September changed on the 3 October 2018. DDG L was not sent to the lab for analysis as it was installed on 3rd October. The delay in installing this gauge was due to access issues which have now been avoided by installing the gauge on the fence line on public property.

One exceedance was recorded at DDG L, located outside 24 Abernethy's Lane, Meroo Meadow. It is noted that there was an elevated level of ash in the sample (3.7g). DSWJV has not conducted any burning-off in the sampling period and has not noted any within adjacent properties. Without a visual inspection of the sample being undertaken it is hard to know the exact source of this ash content. This will be rectified by DSWJV on all future samples notifying the analysis laboratory to conduct a visual inspection and provide comments. See Table 5-1 for Air Quality Monitoring Results.

Table 5-1 September 2018 Air quality monitoring results

EPA Identification No.	Location (adjacent address)	Ash Content g/m ² ,month	Combustible Matter g/m ² ,month	Total Insoluble Matter g/m ² ,month
1-DDG A	10 Croziers Lane, Jaspers Brush	0.5	0.1	0.6
2-DDG B	10A Jaspers Brush Road, Jaspers Brush	0.5	0.3	0.8
3-DDG C	20C Strongs Road, Jaspers Brush	1.5	0.8	2.3
4-DDG D	10C Jaspers Brush Road, Jaspers Brush	0.5	0.1	0.6
5-DDG E	30 Ison Lane, Jaspers Brush	0.4	0.2	0.6
6-DDG F	Lot 209 DP 1210788	3.1	0.7	3.8
7-DDG H	10 Lamonds Lane, Meroo Meadow	2.4	0.4	2.8
8-DDG I	19 Boxsells Lane, Meroo Meadow	0.4	0.1	0.5
9-DDG J/K	265 Princes Highway, Meroo Meadow	0.3	0.2	0.5
10-DDG L	1028 Meroo Meadow, Meroo Meadow	Installed late. Will be reported next month.	Installed late. Will be reported next month.	Installed late. Will be reported next month.
11-DDG M	32 Elvin Drive, Bomaderry	1.8	0.7	2.5
12-DDG N	9 Devitt's Lane, Meroo Meadow	0.5	0.4	0.9
13-DDG P	24 Abernethys Lane, Meroo Meadow	3.7	0.9	4.6

6 NOISE MONITORING RESULTS

Noise monitoring was undertaken at the following locations during out of hours works for concrete traffic barrier installation between the 10 to 27 September 2018 with no complaints received. Noise monitoring results are summarised in Table 6-1 below.

Table 6-1 September 2018 Noise Monitoring Results

EPA Identification No.	Type of monitoring point	Location description	Construction activity	Date	Time	L(A) _{eq(15min)}	Comments
15	Noise monitoring	L1 - B210 Princes Highway, Jaspers Brush -	<i>No OOHW or high noise generating activities undertaken in close proximity to noise monitoring location</i>				
16	Noise monitoring	L2 - 20C Strongs Road, Jaspers Brush -	Concrete barrier delivery and installation	10/9/18	20:10	49	Construction noise audible (idling franna, construction trucks, hand tools) General traffic noise audible Background noise: 39dB
				10/9/18	20:42	47	Construction trucks: 50dB Workers talking: 51dB General traffic: 44dB Background noise: 39dB
17	Noise monitoring	L3 - 30 Ison Lane,	Concrete barrier	10/9/18	20:54	N/A	Construction noise inaudible

EPA Identification No.	Type of monitoring point	Location description	Construction activity	Date	Time	L(A) _{eq(15min)}	Comments
		Jaspers Brush	delivery and installation				Background noise: 33dB
				13/9/18	20:41	48	Construction noise audible (chains, reversing alarms, generator) General traffic noise audible Background noise: 40dB
				13/9/18	20:20	44	Construction noise audible (generator, light vehicles, equipment unloading) General traffic noise audible Background noise: 39dB
				13/9/18	22:35	46	Construction noise audible (generator, light vehicles, equipment unloading, workers taking, reversing alarm) General traffic noise audible (trucks breaking, traffic light break/accel) Background noise: 40dB
18	Noise monitoring	L5 - 15 Turner Lane, Jaspers Brush	Concrete barrier delivery and installation	18/9/18	20:08	53	Hand tools: 47 to 51dB Dropping chains: 52 to 49dB Idling truck: 47 dB Trucks break/accel: 51 to 61dB General traffic noise: 50 to 60dB Background noise: 47dB
				18/9/18	20:59	52	Franna truck: 46 to 52dB Chains banging: 48 to 54dB Trucks idling: 45dB General traffic noise: 50 to 57dB Motorbikes: 60 to 64dB Background noise: 46dB
19	Noise monitoring	L6 - B710 Princes Highway, Jaspers Brush	<i>No OOHW or high noise generating activities undertaken in close proximity to noise monitoring location</i>				
20	Noise monitoring	L7 - 310C Princes Highway, Jaspers Brush	<i>No OOHW or high noise generating activities undertaken in close proximity to noise monitoring location</i>				
21	Noise monitoring	BG08 - 19 Boxsells Lane,	<i>No OOHW or high noise generating activities undertaken in close proximity to noise monitoring location</i>				

EPA Identification No.	Type of monitoring point	Location description	Construction activity	Date	Time	L(A) _{eq(15min)}	Comments
		Meroo Meadow					
22	Noise monitoring	BG09 - 1028 Meroo Road, Meroo Meadow	Concrete barrier delivery and installation	22/9/18	19:22	N/A	Construction noise inaudible Continuous general traffic noise dominant Background noise: 50dB
				27/9/18	22:00	N/A	Construction noise inaudible General traffic noise dominant Background noise: 54dB
23	Noise monitoring	L8 - 24 Abernethys Lane, Meroo Meadow	Concrete barrier delivery and installation	25/9/18	20:22	55	Construction noise slightly audible (generator, reversing alarm) Continuous general traffic noise dominant Background noise: 42dB
24	Noise monitoring	BG10 - 35 Gardenia Crescent, Bomaderry	Concrete barrier delivery and installation	21/9/18	18:58	N/A	Construction noise inaudible General traffic noise dominant Background noise: 45dB
25	Noise monitoring	BG11 - 38 Elvin Drive, Bomaderry	Concrete barrier delivery and installation	20/9/18	18:40	N/A	Construction noise inaudible General traffic noise dominant Background noise: 41dB

7 ENVIRONMENTAL COMPLAINTS

No environmental complaints received in September 2018.

