



Warrell Creek to Nambucca Heads Pacific Highway Upgrade Project

ENVIRONMENT PROTECTION AUTHORITY MONTHLY REPORT

September 2018

Pacifico Project Number: WC2NH



A team consisting of RMS and Pacifico (ACCIONA Ferrovial JV) to upgrade the Pacific Highway at Warrell Creek to Nambucca Heads

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1.0 Introduction

Environmental Protection Licence (EPL) 20533 was issued to ACCIONA Infrastructure for the Warrell Creek to Nambucca Heads Pacific Highway Upgrade project on the 16th December 2014. Condition R1.8 of the EPL requires the licensee to provide the EPA with a monthly report containing the following information:

- a) details of all non-compliances with the conditions of this licence and measures taken, or proposed, to prevent a recurrence of such a non-compliance; and
- b) details of all discharges from the sediment basins where the water quality results exceed the limits prescribed by Condition L2.4 including the results of rainfall measurements to demonstrate compliance with Condition L2.5; and
- c) details of results of any acoustic investigation made in relation to Condition L4.2d); and

The report referred to in this condition must be received by the EPA within 10 working days of the end of each month.

This document has been prepared to fulfil the requirements of Condition R1.8.

1.1 Description of Works

The project's construction activities during September 2018 included the following:

- Defect works
- Landscaping (permanent design seed mix)
- Clean up of RMS residual land
- Fauna furniture and fauna fencing
- Permanent visual mounds
- Installation and maintenance of Erosion and Sediment Controls
- Clean up of Precast Facility site
- Decommissioning of asphalt plant

Works scheduled for next month includes the following:

- Defect works
- Clean up of RMS residual land
- Permanent visual mounds
- Installation and maintenance of Erosion and Sediment Controls

1.2 Consultation Activities

The project's consultation activities during September 2018 included the following:

Table 1 – Consultation Activities

Groups	Date	Key Topics
Toolboxes	Fortnightly	Environmental and community issues communicated to the workforce.
RMS	Fortnightly	Communications look ahead, stakeholder issues.

Other Consultation Activities:

There were no notifications made to the community during September 2018.

On-site meetings:

- 26 onsite meetings were held with community members in September 2018 regarding proposed property adjustments, property adjustment inspections, boundary fencing, out of hours work, construction impacts, vegetation, flooding and other various matters.

At House Noise Treatments

The at house noise treatment program is currently being managed by RMS and is not part of the ACCIONA (Pacifico) Scope of Works and Technical Criteria.

Upcoming Community and stakeholder activities:

- Bald Hill Road roundabouts traffic changes
- Bald Hill Road partial closure notification
- Property adjustment works, liaising with stakeholders for fencing and driveway works
- Responding to community issues and concerns

2.0 Weather

2.1 Discussion

The automatic recording weather stations at the main site compounds (North and South) records rainfall totals daily at 9AM. The total rainfall received for the month is summarized below:

Table 2 – Rainfall recorded at the two weather stations operated by Pacifico

August Rainfall (1/09/2018 – 30/09/2018)		
Location	Total monthly rainfall	Total days rainfall
North (Nursery Road)	85 mm	13
Albert Drive Compound (South)	34.8 mm	15

Rainfall received at the north weather station was higher than the September monthly average of 55.9 mm and lower at the southern weather station. A summary of weather conditions recorded over the month for Smoky Cape by the Bureau of Meteorology is detailed below in Table 2.3.

Daily summaries for rainfall received in September 2018 at the Albert Drive Compound and Northern Compound are shown below in Table 2.1 and 2.2.

Table 2.1 – Rainfall recorded at Albert Drive Southern Compound Automated Weather Station

September 2018

Date	Time	TOTAL Rain Gauge (mm)
1/09/2018	9:00 AM	2.6
2/09/2018	9:00 AM	0
3/09/2018	9:00 AM	0
4/09/2018	9:00 AM	3.6
5/09/2018	9:00 AM	5.4
6/09/2018	9:00 AM	3.4
7/09/2018	9:00 AM	0.2
8/09/2018	9:00 AM	4.8
9/09/2018	9:00 AM	1
10/09/2018	9:00 AM	0
11/09/2018	9:00 AM	0
12/09/2018	9:00 AM	0
13/09/2018	9:00 AM	0
14/09/2018	9:00 AM	0
15/09/2018	9:00 AM	0
16/09/2018	9:00 AM	0
17/09/2018	9:00 AM	0
18/09/2018	9:00 AM	0
19/09/2018	9:00 AM	0
20/09/2018	9:00 AM	0
21/09/2018	9:00 AM	4
22/09/2018	9:00 AM	0
23/09/2018	9:00 AM	0
24/09/2018	9:00 AM	0.2
25/09/2018	9:00 AM	5.6
26/09/2018	9:00 AM	0.4
27/09/2018	9:00 AM	2.2
28/09/2018	9:00 AM	0.2
29/09/2018	9:00 AM	1
30/09/2018	9:00 AM	0.2

Table 2.2 – Rainfall recorded at the Northern (Nursery Road) Automated Weather Station**September 2018**

Date	Time	TOTAL Rain Gauge (mm)
1/09/2018	9:00 AM	2.8
2/09/2018	9:00 AM	0
3/09/2018	9:00 AM	0.4
4/09/2018	9:00 AM	22.4
5/09/2018	9:00 AM	23
6/09/2018	9:00 AM	13.8
7/09/2018	9:00 AM	0
8/09/2018	9:00 AM	3.6
9/09/2018	9:00 AM	2.4
10/09/2018	9:00 AM	0.4
11/09/2018	9:00 AM	0
12/09/2018	9:00 AM	0
13/09/2018	9:00 AM	0
14/09/2018	9:00 AM	0
15/09/2018	9:00 AM	0
16/09/2018	9:00 AM	0
17/09/2018	9:00 AM	0
18/09/2018	9:00 AM	0
19/09/2018	9:00 AM	0
20/09/2018	9:00 AM	0
21/09/2018	9:00 AM	2.6
22/09/2018	9:00 AM	0
23/09/2018	9:00 AM	0
24/09/2018	9:00 AM	0
25/09/2018	9:00 AM	6.6
26/09/2018	9:00 AM	1.6
27/09/2018	9:00 AM	4.4
28/09/2018	9:00 AM	0
29/09/2018	9:00 AM	1
30/09/2018	9:00 AM	0

Table 2.3: August Weather conditions reported at the Smoky Cape by the Bureau of Meteorology Station (ID: 059030)

Unfortunately no data is available for September 2018 from BOM for Smoky Cape



3.0 Surface Water Monitoring

RMS is responsible for surface water quality monitoring post opening of the project to traffic (29th June 2018).

4.0 Sediment Basin Water Monitoring

No licensed sediment basins remain on the EPL 20533 in September 2018. The last sediment basin was decommissioned on 02/08/2018.

5.0 Noise Monitoring

During the operational phase of the project noise monitoring is conducted as required for Out of Hours (OOH) works and in relation to complaints. No OoHrs works were undertaken and no complaints relating to noise were received during the reporting period.

6.0 Vibration Monitoring

Vibration monitoring was not undertaken in the reporting period. No vibration complaints were received during the reporting period.

7.0 Dust Monitoring

Dust deposition gauges (DDG) were collected at 10 nearby sensitive receivers on 27th August 2018. Laboratory results are summarised in Appendix A, Table 1.

All dust deposition gauges were below the level of concern for Total Insoluble Matter (TIM) and Ash Content (AC) ($4\text{g/m}^2/\text{month}$), however there was one increase of $\text{TIM} > 2\text{g/m}^2/\text{mth}$ at DDG6 (increase of $2.2\text{g/m}^2/\text{month}$) during the monitoring period, partly due to the very low result the previous month of $0.5\text{g/m}^2/\text{mth}$ and only 10mm of rainfall received due the DDGs monitoring period at the northern compound. The construction team have been reminded of the importance to continue dust mitigation measures such as water carts when performing works. The maximum total insoluble level recorded = 2.7mg/L at DDG 6 below the $4\text{mg/m}^2/\text{mth}$ criteria.

8.0 Groundwater Monitoring

RMS is responsible for groundwater quality monitoring post opening of the project to traffic (29th June 2018).

9.0 Acoustic Investigations

No Out of Hours Works were undertaken during the reporting period and noise complaints were received.

10.0 Complaints

10.1 Summary of Environmental Complaints for the month of September 2018

Zero complaints were received during the reporting period.


11.0 Non-Compliance

11.1 Summary of Non-compliances

No Non-compliances were raised against ACCIONA's Environmental Protection Licence during the month of September 2018.

Appendix A – Monitoring Results

Table 1 – Dust Monitoring Results July - August 2018

Monthly Dust Monitoring Results July_August 2018							
			DDG ID	DDG6	DDG7	DDG10	
			Start date of sampling	27-07-18	27-07-18	27-07-18	
			Finish date of sampling	27-08-18	27-08-18	27-08-18	
Analyte	Time Period	Unit	Levels of Concern	LOR			
Ash Content	Current Month	g/m ² .month	4	0.1	0.5	1.4	0.8
		mg	N/A	1	10	26	14
	Previous Month	g/m ² .month			0.2	0.5	0.4
	Change	g/m ² .month	Increase of 2		0.3	0.9	0.4
Combustible Matter	Current Month	g/m ² .month	N/A	0.1	2.2	0.4	0.3
		mg	N/A	1	40	6	6
Total Insoluble Matter (TIM)	Current Month	g/m ² .month	4	0.1	2.7	1.8	1.1
		mg	N/A	1	50	32	20
	Previous Month	g/m ² .month		0.1	0.5	0.7	0.4
	Change	g/m ² .month	Increase of 2	0.1	2.2	1.1	0.7
Comments							

