



Warrell Creek to Nambucca Heads Pacific Highway Upgrade Project

ENVIRONMENT PROTECTION AUTHORITY MONTHLY REPORT

August 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 August 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
- Operation of asphalt batch plant

Works scheduled for next month includes 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 the asphalt batch plant

1.2 Consultation Activities

The project's consultation activities during August 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:

The following notifications were made to the community during August 2018.

-) Traffic changes at the southern interchange
-) Traffic changes at Scotts Head Road
-) Traffic changes along Giinagay Way
-) Relocation of the Pacifico site and community information office to Macksville

On-site meetings:

-) 13 onsite meetings were held with community members in August 2018 regarding proposed property adjustments, 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 (1/08/2018 – 31/08/2018)		
Location	Total monthly rainfall	Total days rainfall
Northern Compound	10 mm	4
Albert Drive Compound (South)	10 mm	5

Rainfall received on site was lower than the August monthly average of 78.5 mm. 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 August 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

August 2018

Date	Time	TOTAL Rain Gauge (mm)
1/08/2018	9:00 AM	0
2/08/2018	9:00 AM	0
3/08/2018	9:00 AM	0.4
4/08/2018	9:00 AM	0
5/08/2018	9:00 AM	0
6/08/2018	9:00 AM	0
7/08/2018	9:00 AM	0
8/08/2018	9:00 AM	0.2
9/08/2018	9:00 AM	0
10/08/2018	9:00 AM	0
11/08/2018	9:00 AM	0
12/08/2018	9:00 AM	0
13/08/2018	9:00 AM	0
14/08/2018	9:00 AM	0
15/08/2018	9:00 AM	0
16/08/2018	9:00 AM	0
17/08/2018	9:00 AM	0
18/08/2018	9:00 AM	0
19/08/2018	9:00 AM	0
20/08/2018	9:00 AM	0
21/08/2018	9:00 AM	0
22/08/2018	9:00 AM	0
23/08/2018	9:00 AM	0
24/08/2018	9:00 AM	0
25/08/2018	9:00 AM	6.8
26/08/2018	9:00 AM	0.4
27/08/2018	9:00 AM	2.2
28/08/2018	9:00 AM	0
29/08/2018	9:00 AM	0
30/08/2018	9:00 AM	0
31/08/2018	9:00 AM	0

Table 2.2 – Rainfall recorded at the Northern Compound Automated Weather Station
August 2018

Date	Time	TOTAL Rain Gauge (mm)
1/08/2018	9:00 AM	0
2/08/2018	9:00 AM	0
3/08/2018	9:00 AM	0.2
4/08/2018	9:00 AM	0
5/08/2018	9:00 AM	0
6/08/2018	9:00 AM	0
7/08/2018	9:00 AM	0
8/08/2018	9:00 AM	0
9/08/2018	9:00 AM	0
10/08/2018	9:00 AM	0
11/08/2018	9:00 AM	0
12/08/2018	9:00 AM	0
13/08/2018	9:00 AM	0
14/08/2018	9:00 AM	0
15/08/2018	9:00 AM	0
16/08/2018	9:00 AM	0
17/08/2018	9:00 AM	0
18/08/2018	9:00 AM	0
19/08/2018	9:00 AM	0
20/08/2018	9:00 AM	0
21/08/2018	9:00 AM	0
22/08/2018	9:00 AM	0
23/08/2018	9:00 AM	0
24/08/2018	9:00 AM	5.8
25/08/2018	9:00 AM	0.2
26/08/2018	9:00 AM	3.8
27/08/2018	9:00 AM	0
28/08/2018	9:00 AM	0
29/08/2018	9:00 AM	0
30/08/2018	9:00 AM	0
31/08/2018	9:00 AM	0

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

August 2018

Date	Minimum temperature (°C)	Maximum temperature (°C)	Rainfall (mm)
1/08/2018	13.5	23.2	0
2/08/2018	11.1	21	0
3/08/2018	13.1	21	1.6
4/08/2018	13.5	22.9	0
5/08/2018	13	22.9	0
6/08/2018	16	23.8	0
7/08/2018	12.9	20.2	0
8/08/2018	12.3	20.8	0
9/08/2018	13.4	21.1	0
10/08/2018	13	23	0
11/08/2018	14.8	21.5	0
12/08/2018	15.4	19.1	0
13/08/2018	8.3	20	0
14/08/2018	9.4	22.2	0
15/08/2018	13.9	22.7	0
16/08/2018	16.9	25.4	0
17/08/2018	13.5	22	0
18/08/2018	12.5	22.5	0
19/08/2018	11.6	19.6	0
20/08/2018	8.9	17.2	0
21/08/2018	9.3	21.1	0
22/08/2018	11.4	21	0
23/08/2018	11	20.8	0
24/08/2018	12.8	23	0
25/08/2018	13.1	21.1	0.8
26/08/2018	13	16.5	5.2
27/08/2018	11.4	19	2.2
28/08/2018	10.5	*	0.2
29/08/2018	*	20	0
30/08/2018	9.5	*	0

Note: * No data recorded

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

EPA accepted the decommissioning of Sediment Basins B42.80 and B49.45 on the 02/08/2018. No sediment basin management was required in August 2018.

5.0 Noise Monitoring

During the operational phase of the project noise monitoring is conducted as required for Out of Hours (OOH) works. All out of hours works undertaken during the monitoring period had community agreements and as such no Out of Hours noise monitoring was required in the reporting period. No out of hours noise complaints were received.

6.0 Vibration Monitoring

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

7.0 Dust Monitoring

Dust deposition gauges (DDG) were collected at 10 nearby sensitive receivers on 27th July 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) ($4\text{g}/\text{m}^2/\text{month}$ or increase of $2\text{g}/\text{m}^2/\text{month}$) during the monitoring period. The maximum total insoluble level recorded = $0.8\text{mg}/\text{L}$ at DDG 2 and DDG 3 below the $4\text{mg}/\text{m}^2/\text{mth}$ criteria.

Based on the scope of works post opening of the project, the dust monitoring locations have been reduced to three sampling locations (DDG 6, DDG 7 and DDG10), as approved by the ER on the 1st August 2018 as a minor change to the Air Quality Management Plan (Rev 9).

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

All Out of Hours Works undertaken during the month of August 2018 had a written agreement with potentially affected residents. No complaints were received.

10.0 Complaints

10.1 Summary of Environmental Complaints for the month of August 2018

One (1) complaint was received during the reporting period.

On 8 August 2018 a stakeholder visited the office claiming that their car windscreen was broken by a rock from a passing truck near our site entrance. The roadway was inspected for any other rocks and the windscreen was replaced.


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 August 2018.

Appendix A – Monitoring Results

Table 1 – Dust Monitoring Results June - July 2018

Monthly Dust Monitoring Results June 2018														
														
		DDG ID	DDG1	DDG2	DDG3	DDG6	DDG6N	DDG7	DDG8A	DDG9NE	DDG9E	DDG10		
		Start date of sampling	29-05-18	29-05-18	29-05-18	29-06-18	29-06-18	29-05-18	29-05-18	29-05-18	29-06-18	29-06-18		
		Finish date of sampling	27-07-18	27-07-18	27-07-18	27-07-18	27-07-18	27-07-18	27-07-18	27-07-18	27-07-18	27-07-18		
Analyte	Time Period	Unit	Levels of Concern	LOR										
Ash Content	Current Month	µg/m ³ .month mg	4 N/A	0.1 1	0.2 3	0.8 13	0.4 6	0.2 4	0.7 11	0.5 9	0.1 1	0.4 7	0.4 7	0.4 6
	Previous Month	µg/m ³ .month			1.5	0.1	0.5	0.4	0.8	0.5	0.2	0.3	1.3	2.1
	Change	µg/m ³ .month	Increase of 2		1.3	0.7	0.1	0.2	0.1	0	0.1	0.1	0.9	1.7
Combustible Matter	Current Month	µg/m ³ .month mg	N/A N/A	0.1 1	<0.1 <1	<0.1 1	0.4 7	0.1 4	<0.1 1	0.2 2	0.1 2	0.1 4	0.1 4	<0.1 1
	Change	µg/m ³ .month												
Total Insoluble Matter (TUM)	Current Month	µg/m ³ .month mg	4 N/A	0.1 1	0.2 3	0.8 14	0.8 11	0.5 8	0.7 12	0.7 11	0.2 3	0.5 9	0.7 11	0.4 7
	Previous Month	µg/m ³ .month			2	0.1	0.8		1.3	1.5	0.7	0.6	0.6	1.5
	Change	µg/m ³ .month	Increase of 2	0.1	-1.8	0.5	0	0.5	-0.6	-0.8	-0.5	-0.7	0.7	-1.2
Comments														