



# Warrell Creek to Nambucca Heads Pacific Highway Upgrade Project

## ENVIRONMENT PROTECTION AUTHORITY MONTHLY REPORT

October 2018

Pacifico Project Number: WC2NH



A team consisting of RMS and Pacifico (ACCIONA Ferrovia 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 16<sup>th</sup> 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 October 2018 included the following:

- Defect works
- Landscaping
- Clean up of RMS residual land
- Fauna furniture and fauna fencing
- Permanent visual mounds
- Installation and maintenance of Erosion and Sediment Controls

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 October 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 October 2018.

### On-site meetings:

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

### On-site meetings:

- ) 9 onsite meetings were held with community members in October 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 (Pacífico) 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**

<b>August Rainfall (1/10/2018 – 31/10/2018)</b>		
<b>Location</b>	<b>Total monthly rainfall</b>	<b>Total days rainfall</b>
North (Nursery Road)	216.8 mm	15
Albert Drive Compound (South)	192.4 mm	14

Rainfall received at the north and south weather stations was higher than the October monthly average of 90.8 mm at South West Rocks (Smokey Cape Lighthouse). 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 October 2018 at the Albert Drive Compound and Nursery Road weather Stations are shown below in Table 2.1 and 2.2.

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

October 2018

<b>Date</b>	<b>Time</b>	<b>TOTAL Rain Gauge (mm)</b>
01-10-18	9:00 AM	0
02-10-18	9:00 AM	0
03-10-18	9:00 AM	0
04-10-18	9:00 AM	0
05-10-18	9:00 AM	5.8
06-10-18	9:00 AM	22.6
07-10-18	9:00 AM	0
08-10-18	9:00 AM	0
09-10-18	9:00 AM	0
10-10-18	9:00 AM	0
11-10-18	9:00 AM	26.6
12-10-18	9:00 AM	2.6
13-10-18	9:00 AM	20.6
14-10-18	9:00 AM	38.6
15-10-18	9:00 AM	23.8
16-10-18	9:00 AM	16.2
17-10-18	9:00 AM	13.8
18-10-18	9:00 AM	9.4
19-10-18	9:00 AM	0.4
20-10-18	9:00 AM	0
21-10-18	9:00 AM	8.8
22-10-18	9:00 AM	0.4
23-10-18	9:00 AM	0
24-10-18	9:00 AM	0
25-10-18	9:00 AM	0
26-10-18	9:00 AM	0
27-10-18	9:00 AM	0
28-10-18	9:00 AM	0
29-10-18	9:00 AM	2.8
30-10-18	9:00 AM	0
31-10-18	9:00 AM	0

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

<b>Date</b>	<b>Time</b>	<b>TOTAL Rain Gauge (mm)</b>
01-10-18	9:00 AM	0
02-10-18	9:00 AM	0
03-10-18	9:00 AM	0
04-10-18	9:00 AM	0
05-10-18	9:00 AM	6.4
06-10-18	9:00 AM	11
07-10-18	9:00 AM	0
08-10-18	9:00 AM	0
09-10-18	9:00 AM	0
10-10-18	9:00 AM	0
11-10-18	9:00 AM	41.2
12-10-18	9:00 AM	4.4
13-10-18	9:00 AM	29
14-10-18	9:00 AM	64.8
15-10-18	9:00 AM	17.4
16-10-18	9:00 AM	12.4
17-10-18	9:00 AM	11.2
18-10-18	9:00 AM	9.2
19-10-18	9:00 AM	0.8
20-10-18	9:00 AM	0.2
21-10-18	9:00 AM	8.4
22-10-18	9:00 AM	0.2
23-10-18	9:00 AM	0.2
24-10-18	9:00 AM	0
25-10-18	9:00 AM	0
26-10-18	9:00 AM	0
27-10-18	9:00 AM	0
28-10-18	9:00 AM	0
29-10-18	9:00 AM	0
30-10-18	9:00 AM	0
31-10-18	9:00 AM	0

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

## South West Rocks, New South Wales October 2018 Daily Weather Observations

Observations from Smoky Cape Lighthouse.

Date	Day	Temps		Rain	Evap	Sun	Max wind gust			9 am					3 pm							
		Min °C	Max °C				Dir	Spd km/h	Time local	Temp °C	RH %	Cld g <sup>th</sup>	Dir	Spd km/h	MSLP hPa	Temp °C	RH %	Cld g <sup>th</sup>	Dir	Spd km/h	MSLP hPa	
1	Mo																					
2	Tu																					
3	We																					
4	Th																					
5	Fr																					
6	Sa		22.0								17.0	98	7	SE	7							
7	Su	14.0	24.0	0.8							16.2	68	2	SW	11							
8	Mo	15.4	25.5	0.6							18.8	79	2	N	6							
9	Tu	16.8	26.0	0							19.7	83	3	N	11							
10	We	17.5	26.2	0							21.0	80	1	N	11							
11	Th	13.8	18.1	25.4							14.0	94	8	S	4							
12	Fr	13.0	17.5	8.2							13.1	96	8	S	19							
13	Sa		19.6	19.0							15.8	93	8	E	4							
14	Su		24.3	8.2							18.2	78	8	E	15							
15	Mo		22.8	4.2							17.9	94	8	E	22							
16	Tu		22.1	5.6							19.0	90	8	NE	19							
17	We		23.2	4.6							19.0	99	8	N	22							
18	Th		21.1	1.2							20.6	91	8	N	19							
19	Fr		23.1	2.0							19.9	89	3	N	28							
20	Sa		23.7	0							20.1	86	1	N	19							
21	Su		22.0	8.4							17.8	97	8	SW	4							
22	Mo		26.0	0.2							19.8	87	6	SW	11							
23	Tu		25.6	0							20.7	88	1	N	7							
24	We		25.1	0							22.3	83	6	Calm								
25	Th		26.0	0							19.1	81	6	SW	7							
26	Fr		26.4	0.8							19.7	89	1	SW	4							
27	Sa		26.2	0							18.8	83	7	SW	7							
28	Su		22.1	0.6							19.1	95	8	S	22							
29	Mo		24.4	1.4							19.0	72	8	SW	4							
30	Tu		25.6	0							20.4	69	1	SE	4							
31	We		26.9	0							22.0	77	1	N	7							
<b>Statistics for October 2018</b>																						
Mean		15.1	23.7								18.8	86	5		11							
Lowest		13.0	17.5	0							13.1	68	1	Calm								
Highest		17.5	26.9	25.4							22.3	99	8	N	28							
Total				91.2																		

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### 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 3 nearby sensitive receivers on 26<sup>th</sup> September 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) ( $4\text{g}/\text{m}^2/\text{month}$ ) with the maximum TIM recorded at DDG 6 =  $2.5\text{g}/\text{m}^2/\text{month}$ .

### 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

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 October 2018.

Appendix A – Monitoring Results

**Table 1 – Dust Monitoring Results August - September 2018**

					DDG ID	DDG 6	DDG 7	DDG 10
					Start date of sampling	27/08/2018	27/08/2018	27/08/2018
					Finish date of sampling	26/09/2018	26/09/2018	26/09/2018
Analyte	Time Period	Unit	Level of Concern	LOR				
Ash Content	Current Month	g/m2.month	4	0.1	1.6	0.7	0.5	
		mg	N/A	1	29	12	9	
	Previous Month	g/m2.month			0.5	1.4	0.8	
	Change	g/m2.month	Increase of 2		1.1	-0.7	-0.3	
Combustible Matter	Current Month	g/m2.month	N/A	0.1	0.9	0.3	0.5	
		mg	N/A	1	16	5	8	
Total Insoluble Matter (TIM)	Current Month	g/m2.month	4	0.1	2.5	1	1	
		mg	N/A	1	45	17	17	
	Previous Month	g/m2.month			2.7	1.8	1.1	
	Change	g/m2.month	Increase of 2		-0.2	-0.8	-0.1	
Comments								

