



# Warrell Creek to Nambucca Heads Pacific Highway Upgrade Project

## ENVIRONMENT PROTECTION AUTHORITY MONTHLY REPORT

September 2019

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

# Contents

<b>1.0 Introduction .....</b>	<b>2</b>
1.1 Description of Works .....	2
1.2 Consultation Activities.....	3
<b>2.0 Weather .....</b>	<b>4</b>
2.1 Discussion.....	4
<b>3.0 Surface Water Monitoring .....</b>	<b>8</b>
<b>4.0 Sediment Basin Water Monitoring .....</b>	<b>8</b>
<b>5.0 Noise Monitoring .....</b>	<b>8</b>
<b>6.0 Vibration Monitoring.....</b>	<b>8</b>
<b>7.0 Dust Monitoring .....</b>	<b>8</b>
<b>8.0 Groundwater Monitoring.....</b>	<b>8</b>
<b>9.0 Acoustic Investigations.....</b>	<b>8</b>
<b>10.0 Complaints .....</b>	<b>9</b>
10.1 Summary of Environmental Complaints .....	9
<b>11.0 Non-Compliance.....</b>	<b>10</b>
11.1 Summary of Non-compliances.....	10

## 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 September 2019 included the following:

- Defect works
- Landscaping
- Clean up of RMS residual land
- Installation and maintenance of Erosion and Sediment Controls

Works scheduled for next month includes the following:

- Defect works
- Landscaping
- Clean up of RMS residual land
- Commencement of operational water quality basin at CH52800
- Installation and maintenance of Erosion and Sediment Controls

## 1.2 Consultation Activities

The project's consultation activities during September 2019 included the following:

### **Other Consultation Activities:**

NIL

### **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:**

- Responding to community issues and concerns
- Consultation in relation to reusing spoil material on RMS residual land.

## 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**

Rainfall (1/09/2019 – 30/09/2019)		
Location	Total monthly rainfall	Total days rainfall
North (Nursery Road)	43.6 mm	8
Albert Drive Compound (South)	58.2 mm	6

Rainfall received at the north and south weather stations was both lower and higher than the September monthly average of 55.6 mm at South West Rocks (Smokey Cape Lighthouse) respectively. 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 2019 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**September 2019**

Site Name	Date and Time	Rainfall (mm)
Southern Compound	1/09/2019 9:00	0
Southern Compound	2/09/2019 9:00	0
Southern Compound	3/09/2019 9:00	0
Southern Compound	4/09/2019 9:00	0
Southern Compound	5/09/2019 9:00	0
Southern Compound	6/09/2019 9:00	0
Southern Compound	7/09/2019 9:00	0.2
Southern Compound	8/09/2019 9:00	0
Southern Compound	9/09/2019 9:00	0
Southern Compound	10/09/2019 9:00	0
Southern Compound	11/09/2019 9:00	0
Southern Compound	12/09/2019 9:00	0
Southern Compound	13/09/2019 9:00	0
Southern Compound	14/09/2019 9:00	0
Southern Compound	15/09/2019 9:00	0
Southern Compound	16/09/2019 9:00	0
Southern Compound	17/09/2019 9:00	0
Southern Compound	18/09/2019 9:00	28.2
Southern Compound	19/09/2019 9:00	3.6
Southern Compound	20/09/2019 9:00	20.4
Southern Compound	21/09/2019 9:00	5
Southern Compound	22/09/2019 9:00	0
Southern Compound	23/09/2019 9:00	0.8
Southern Compound	24/09/2019 9:00	0
Southern Compound	25/09/2019 9:00	0
Southern Compound	26/09/2019 9:00	0
Southern Compound	27/09/2019 9:00	0
Southern Compound	28/09/2019 9:00	0
Southern Compound	29/09/2019 9:00	0
Southern Compound	30/09/2019 9:00	0

**Table 2.2** – Rainfall recorded at the Northern (Nursery Road) Automated Weather Station**September 2019**

Site Name	Date	TOTAL Rain Gauge - mm
Northern Compound	1/09/2019 9:00	0
Northern Compound	2/09/2019 9:00	0
Northern Compound	3/09/2019 9:00	0
Northern Compound	4/09/2019 9:00	0
Northern Compound	5/09/2019 9:00	0.2
Northern Compound	6/09/2019 9:00	0
Northern Compound	7/09/2019 9:00	0
Northern Compound	8/09/2019 9:00	0
Northern Compound	9/09/2019 9:00	0
Northern Compound	10/09/2019 9:00	0
Northern Compound	11/09/2019 9:00	0
Northern Compound	12/09/2019 9:00	0
Northern Compound	13/09/2019 9:00	0
Northern Compound	14/09/2019 9:00	0
Northern Compound	15/09/2019 9:00	0.2
Northern Compound	16/09/2019 9:00	0
Northern Compound	17/09/2019 9:00	0
Northern Compound	18/09/2019 9:00	34.2
Northern Compound	19/09/2019 9:00	0
Northern Compound	20/09/2019 9:00	0
Northern Compound	21/09/2019 9:00	0.2
Northern Compound	22/09/2019 9:00	0.4
Northern Compound	23/09/2019 9:00	0.2
Northern Compound	24/09/2019 9:00	0
Northern Compound	25/09/2019 9:00	0
Northern Compound	26/09/2019 9:00	0
Northern Compound	27/09/2019 9:00	7.4
Northern Compound	28/09/2019 9:00	0.8
Northern Compound	29/09/2019 9:00	0
Northern Compound	30/09/2019 9:00	0

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

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	Su	12.0	23.4	0					15.0	80	3	SW	11									
2	Mo	14.0	26.4	0					18.2	49	0	SW	19									
3	Tu	12.4	23.1	0					16.6	58	1	SW	11									
4	We	12.6	24.5	0					16.0	80	1	SW	4									
5	Th	15.0	25.0	0					21.9	36	1	SW	4									
6	Fr	15.3	28.6	0					18.0	70	1	N	19									
7	Sa	13.5	24.5	0					16.3	37	1	SW	22									
8	Su	10.9	23.9	0					14.1	42	0	WSW	22									
9	Mo	11.2	20.5	0					15.2	36	3	SW	26									
10	Tu	10.9		0					14.7	59	3	SW	28									
11	We		22.0	0																		
12	Th	10.4		0					16.1	67	1	NNW	9									
13	Fr		24.5	0																		
14	Sa	13.6	24.0	0					17.1	99	1	SW	7									
15	Su	14.3		0					18.5	64	0	NNW	7									
16	Mo		24.0	0																		
17	Tu	13.9	22.0	0					18.3	82	8	SW	4									
18	We	11.4	22.0	21.0					14.0	97	8	SW	4									
19	Th	13.0	25.0	0.8					17.7	91	8	NE	7									
20	Fr	15.1	24.0	9.4					20.1	82	3	NE	13									
21	Sa	15.6		0.8					17.7	96	8	N	22									
22	Su		24.2																			
23	Mo	16.2	24.0	0.6					18.4	82	6	SW	2									
24	Tu	12.0	22.9	0					16.4	56	4	SW	9									
25	We	14.1	23.3	0					16.6	77	1	SW	2									
26	Th	14.2	24.4	0					18.0	81	7	SW	2									
27	Fr	14.9	24.1	0					19.5	77	4	N	13									
28	Sa	13.1		0					18.1	51	1	W	15									
29	Su		27.0	0																		
30	Mo	12.8	22.1	0					18.4	81	7	SW	4									
<b>Statistics for September 2019</b>																						
Mean		13.3	24.0						17.2	69	3		11									
Lowest		10.4	20.5	0					14.0	36	0	SW	2									
Highest		16.2	28.6	21.0					21.9	99	8	SW	28									
Total				32.6																		

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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.

### **5.0 Noise Monitoring**

No noise monitoring was undertaken in September 2019.

Refer to section 9.0 below for acoustic investigations.

### **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**

The last round of dust monitoring for the WC2NH project concluded on the 26/10/2018.

### **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 acoustic investigations occurred during the month of September 2019 as no out of hours works occurred (in accordance with L4.2(d)) and no construction noise complaints received during the month.

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## **10.0 Complaints**

### 10.1 Summary of Environmental Complaints

No complaints were received in September 2019.

## **11.0 Non-Compliance**

### 11.1 Summary of Non-compliances

No non-compliances occurred during the reporting period.