



Warrell Creek to Nambucca Heads Pacific Highway Upgrade Project

ENVIRONMENT PROTECTION AUTHORITY MONTHLY REPORT

March 2019

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 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 March 2019 included the following:

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

Works scheduled for next month includes the following:

- Defect works (including concrete crack repairs on Nambucca River Bridge over water)
- Landscaping
- 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 March 2019 included the following:

Other Consultation Activities:

No notifications made to the community.

On-site meetings:

Onsite meetings were held with community members in March 2019 regarding proposed property adjustments, property adjustment inspections, boundary fencing, 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:

-) 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

Rainfall (1/03/2019 – 31/03/2019)		
Location	Total monthly rainfall	Total days rainfall
North (Nursery Road)	139.8 mm	16
Albert Drive Compound (South)	105 mm	22

Rainfall received at the north and south weather stations was lower than the March monthly average of 185.9 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 March 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

March 2019

Date	Time	TOTAL Rain Gauge (mm)
01-03-19	9:00:00	3.6
02-03-19	9:00:00	1.8
03-03-19	9:00:00	3
04-03-19	9:00:00	4.2
05-03-19	9:00:00	0
06-03-19	9:00:00	0
07-03-19	9:00:00	0
08-03-19	9:00:00	5
09-03-19	9:00:00	0.2
10-03-19	9:00:00	8.2
11-03-19	9:00:00	0
12-03-19	9:00:00	0
13-03-19	9:00:00	0
14-03-19	9:00:00	4.8
15-03-19	9:00:00	0.4
16-03-19	9:00:00	0.8
17-03-19	9:00:00	8.2
18-03-19	9:00:00	19.2
19-03-19	9:00:00	0.2
20-03-19	9:00:00	23
21-03-19	9:00:00	0.2
22-03-19	9:00:00	0
23-03-19	9:00:00	1.6
24-03-19	9:00:00	1
25-03-19	9:00:00	4.6
26-03-19	9:00:00	0.2
27-03-19	9:00:00	0
28-03-19	9:00:00	0.4
29-03-19	9:00:00	0
30-03-19	9:00:00	0.2
31-03-19	9:00:00	14.2

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

March 2019

Date	Time	TOTAL Rain Gauge(mm)
01-03-19	9:00:00	5.4
02-03-19	9:00:00	6.6
03-03-19	9:00:00	5.2
04-03-19	9:00:00	6.4
05-03-19	9:00:00	0
06-03-19	9:00:00	0
07-03-19	9:00:00	0
08-03-19	9:00:00	4.8
09-03-19	9:00:00	0
10-03-19	9:00:00	11
11-03-19	9:00:00	0.4
12-03-19	9:00:00	0
13-03-19	9:00:00	0
14-03-19	9:00:00	7.8
15-03-19	9:00:00	0
16-03-19	9:00:00	0
17-03-19	9:00:00	22.6
18-03-19	9:00:00	20.8
19-03-19	9:00:00	0
20-03-19	9:00:00	31.8
21-03-19	9:00:00	0
22-03-19	9:00:00	0
23-03-19	9:00:00	0.2
24-03-19	9:00:00	0
25-03-19	9:00:00	0
26-03-19	9:00:00	0.2
27-03-19	9:00:00	1.4
28-03-19	9:00:00	0
29-03-19	9:00:00	0
30-03-19	9:00:00	0.4
31-03-19	9:00:00	14.8

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

South West Rocks, New South Wales March 2019 Daily Weather Observations

Observations from Smoky Cape Lighthouse.

Date	Day	Temps		Rain	Evap	Sun	Max wind gust		9 am							
		Min °C	Max °C				Dir	Spd	Time	Temp °C	RH %	Cld g th	Dir	Spd km/h	MSLP hPa	
1	Fr		30.7													
2	Sa	17.8	29.3	10.8						21.0	89	4	E	2		
3	Su	18.1	27.0	2.8						20.2	96	7	SW	4		
4	Mo	19.4	30.1	0.6						24.0	78	3	NE	2		
5	Tu	20.5	29.0	0						23.5	74	4	N	6		
6	We	20.5	23.7	0						23.5	82	6	NW	13		
7	Th	19.0		6.2						19.8	92	8	SW	20		
8	Fr		20.0													
9	Sa	18.9	23.0	0						23.7	84	4	N	19		
10	Su	19.8	29.1	0						22.1	96	6	NNF	11		
11	Mo	21.1	31.7	0						24.5	81	6	SW	4		
12	Tu	21.8	31.5	0						24.9	68	7	SW	2		
13	We	20.3	29.5	0						26.0	82	6	SF	2		
14	Th	21.3	27.0	4.0						22.5	95	6	N	11		
15	Fr	19.0	23.6	0.4						22.7	92	7	SW	4		
16	Sa	18.2	21.0	19.8						19.8	96	8	S	2		
17	Su	17.7	20.0	47.2						20.1	83	8	Calm			
18	Mo	16.8	23.8	14.0						21.0	81	3	Calm			
19	Tu	19.3	29.5	0.8						20.9	95	8	Calm			
20	We	18.3	29.0	13.2						20.0	85	4	SW	9		
21	Th	19.2	30.0	0						21.0	84	1	WSW	11		
22	Fr	19.5	30.3	0						22.1	87	1	SW	6		
23	Sa	19.0	29.0	2.0						23.7	86	2	NNE	11		
24	Su	20.5	30.0	3.2						24.8	78	6	N	9		
25	Mo	21.9	31.0	0.4						25.2	85	6	N	13		
26	Tu	23.4	23.1	0						26.7	52	8	WNW	11		
27	We	20.4	24.1	0						21.4	59	8	SSE	7		
28	Th	16.9	23.3	4.2						18.5	85	7	SW	13		
29	Fr	17.8	23.2	0						21.3	76	4	WSW	9		
30	Sa	20.8	26.4	0.4						23.4	81	8	N	33		
31	Su	12.6	24.4	13.0						14.3	46	1	W	9		
Statistics for March 2019																
Mean		19.3	23.4							22.2	81	5		8		
Lowest		12.6	21.0	0						14.3	46	1	Calm			
Highest		23.4	31.7	17.2						26.7	96	8	N	33		
Total				143.0												

IDCJDW2123.201903 Prepared at 13:00 UTC on Sunday 7 April 2019

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

During the operational phase of the project noise monitoring is conducted as required for Out of Hours (OOH) works and in relation to complaints.

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.

The two dust gauges were replaced by those associated with the Macksville Hospital Development (MHD) and DDG results will be relevant to the EPL 21155 issued to ACCIONA on 10th October 2018 for bulk earthworks associated with the MHD.

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

Attended OoHrs noise monitoring was undertaken at 75 River Street on Saturday 09/03/2019 for Nambucca Bridge Headstock Repairs (OoHrs Permit #312). The repair works were not auditable, dominant noise source was traffic on the Nambucca River Bridge.

10.0 Complaints

10.1 Summary of Environmental Complaints

No environmental complaints were received during the reporting period.

11.0 Non-Compliance

11.1 Summary of Non-compliances

No non-compliances occurred during the reporting period.