

Environmental Protection Licence Monitoring Data

Project Name: Kundabung to Kempsey

Environmental Protection Licence Number: 20487

Link to public register on EPA website: <http://www.epa.nsw.gov.au/prpoeoapp/>

Premise Address: Kundabung Rd, Kundabung NSW 2441

Monitoring Data for the Month: January 2015

Monitoring Type: Water Discharge Monitoring

Licenced Discharge Point	Date Sampled	Date Discharged	Total Suspended Solids (mg/L)		pH		Oil & Grease		Monitoring Frequency	Comments
			Licence limit	Results	Licence Limit	Results	Licence Limit	Results		
TB 35.55	05-Jan-15	06-Jan-15	50	10.0	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
PB 35.40	05-Jan-15	06-Jan-15	50	24.0	6.5 – 8.5	6.7	Visual	None Visible	Per discharge	
PB 34.85	05-Jan-15	06-Jan-15	50	38.0	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
TB 34.65	05-Jan-15	06-Jan-15	50	17.0	6.5 – 8.5	6.6	Visual	None Visible	Per discharge	
PB 34.65	05-Jan-15	06-Jan-15	50	35.0	6.5 – 8.5	6.7	Visual	None Visible	Per discharge	
TB 34.10	05-Jan-15	06-Jan-15	50	16.0	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	

Environmental Protection Licence Monitoring Data

Project Name: Kundabung to Kempsey

Environmental Protection Licence Number: 20487

Link to public register on EPA website: <http://www.epa.nsw.gov.au/prpoeoapp/>

Premise Address: Kundabung Rd, Kundabung NSW 2441

Monitoring Data for the Month: February 2015

Monitoring Type: Water Discharge Monitoring

Licenced Discharge Point	Date Sampled	Date Discharged	Total Suspended Solids (mg/L)		pH		Oil & Grease		Monitoring Frequency	Comments
			Licence limit	Results	Licence Limit	Results	Licence Limit	Results		
PB24.90	03-Feb-15	03-Feb-15	50	13.0	6.5 – 8.5	6.9	Visual	None Visible	Per discharge	
TB35.55	03-Feb-15	04-Feb-15	50	8.0	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
PB35.40	03-Feb-15	04-Feb-15	50	14.0	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
PB34.85	03-Feb-15	05-Feb-15	50	16.0	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
TB34.65	03-Feb-15	04-Feb-15	50	8.0	6.5 – 8.5	6.7	Visual	None Visible	Per discharge	
COM1	03-Feb-15	04-Feb-15	50	5.0	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
COM2	03-Feb-15	04-Feb-15	50	42.0	6.5 – 8.5	6.6	Visual	None Visible	Per discharge	

COM3	05-Feb-15	04-Feb-15	50	25.0	6.5 – 8.5	7.0	Visual	None Visible	Per discharge	
TB34.65	05-Feb-15	07-Feb-15	50	5.0	6.5 – 8.5	7.0	Visual	None Visible	Per discharge	
TB34.65	13-Feb-15	16-Feb-15	50	43.0	6.5 – 8.5	7.2	Visual	None Visible	Per discharge	
COM 01	24-Feb-15	26-Feb-15	50	6.0	6.5 – 8.5	7.0	Visual	None Visible	Per discharge	
COM 02	24-Feb-15	28-Feb-15	50	45.0	6.5 – 8.5	7.9	Visual	None Visible	Per discharge	
COM 03	24-Feb-15	26-Feb-15	50	9.0	6.5 – 8.5	7.5	Visual	None Visible	Per discharge	
C34.70	23-Feb-15	23-Feb-15	50	46.0	6.5 – 8.5	7.0	Visual	None Visible	Per discharge	
TB35.55	25-Feb-15	25-Feb-15	50	N/A	6.5 – 8.5	-	Visual	None Visible	Per discharge	Tannin Laden Water – discharged via watercart
PB35.40	26-Feb-15	28-Feb-15	50	50.0	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
PB34.85	26-Feb-15	28-Feb-15	50	24.0	6.5 – 8.5	8.0	Visual	None Visible	Per discharge	
TB34.65	26-Feb-15	28-Feb-15	50	11.0	6.5 – 8.5	6.8	Visual	None Visible	Per discharge	
PB34.65	26-Feb-15	28-Feb-15	50	38.0	6.5 – 8.5	8.0	Visual	None Visible	Per discharge	
TB 34.10	25-Feb-15	25-Feb-15	50	N/A	6.5 – 8.5	-	Visual	None Visible	Per discharge	Tannin Laden Water – discharged via watercart
TB29.50	25-Feb-15	03-Feb-15	50	N/A	6.5 – 8.5	-	Visual	None Visible	Per discharge	Tannin Laden Water – discharged via watercart

Environmental Protection Licence Monitoring Data

Project Name: Kundabung to Kempsey

Environmental Protection Licence Number: 20487

Link to public register on EPA website: <http://www.epa.nsw.gov.au/prpoeoapp/>

Premise Address: Kundabung Rd, Kundabung NSW 2441

Monitoring Data for the Month: March 2015

Monitoring Type: Water Discharge Monitoring

Licenced Discharge Point	Date Sampled	Date Discharged	Suspended Solids (mg/L)		pH		Oil & Grease		Monitoring Frequency	Comments
			Licence limit	Results	Licence Limit	Results	Licence Limit	Results		
PB30.70	25-Mar-15	27-Mar-15	50	10.0	6.5 – 8.5	7.1	Visual	None Visible	Per discharge	
TB34.10	25-Mar-15	26-Mar-15	50	12.0	6.5 – 8.5	8.5	Visual	None Visible	Per discharge	
TB34.65	25-Mar-15	25-Mar-15	50	11.0	6.5 – 8.5	6.8	Visual	None Visible	Per discharge	
PB34.65	25-Mar-15	26-Mar-15	50	21.0	6.5 – 8.5	8.5	Visual	None Visible	Per discharge	
PB34.85	25-Mar-15	26-Mar-15	50	14.0	6.5 – 8.5	8.5	Visual	None Visible	Per discharge	
PB35.40	24-Mar-15	N/A	50	N/A	6.5 – 8.5	N/A	Visual	None Visible	Per discharge	No results as basin emptied due to faulty low flow pipe
TB35.55	24-Mar-15	24-Mar-15	50	9.0	6.5 – 8.5	7.6	Visual	None Visible	Per discharge	

PB28.40	25-Mar-15	26-Mar-15	50	2.0	6.5 – 8.5	7.5	Visual	None Visible	Per discharge	
TB29.50	25-Mar-15	27-Mar-15	50	12.0	6.5 – 8.5	7.6	Visual	None Visible	Per discharge	
PB30.60	25-Mar-15	28-Mar-15	50	10.0	6.5 – 8.5	7.6	Visual	None Visible	Per discharge	
COM01	24-Mar-15	25-Mar-15	50	9.0	6.5 – 8.5	6.9	Visual	None Visible	Per discharge	
COM02	24-Mar-15	28-Mar-15	50	N/A	6.5 – 8.5	N/A	Visual	None Visible	Per discharge	Discharged on site
COM03	24-Mar-15	25-Mar-15	50	27.0	6.5 – 8.5	7.4	Visual	None Visible	Per discharge	
PB24.90	26-Mar-15	27-Mar-15	50	4.0	6.5 – 8.5	6.7	Visual	None Visible	Per discharge	
PB25.80	26-Mar-15	27-Mar-15	50	2.0	6.5 – 8.5	8.5	Visual	None Visible	Per discharge	
TB25.70	26-Mar-15	27-Mar-15	50	2.0	6.5 – 8.5	6.7	Visual	None Visible	Per discharge	
PB28.40	25-Mar-15	26-Mar-15	50	2.0	6.5 – 8.5	7.5	Visual	None Visible	Per discharge	

Sediment Basin Water Monitoring

Project Name: Kundabung to Kempsey

Environmental Protection Licence Number: 20487

Link to public register on EPA website: <http://www.epa.nsw.gov.au/prpoeoapp/>

Premise Address: Kundabung Rd, Kundabung NSW 2441

Monitoring Data for the Month: April 2015



Monitoring Type: Water Discharge Monitoring

Licenced Discharge Point	Date Sampled	Date Discharged	Total Suspended Solids (mg/L)		pH		Oil & Grease		Monitoring Frequency	Comments
			Licence limit	Results	Licence Limit	Results	Licence Limit	Results		
TB35.55	08-Apr-15	09-Apr-15	50	7.0	6.5 – 8.5	8.2	Visual	None Visible	Per discharge	
PB35.40	08-Apr-15	09-Apr-15	50	10.0	6.5 – 8.5	7.3	Visual	None Visible	Per discharge	
PB34.85	08-Apr-15	09-Apr-15	50	7.0	6.5 – 8.5	8.5	Visual	None Visible	Per discharge	
TB34.65	08-Apr-15	09-Apr-15	50	18.0	6.5 – 8.5	8.4	Visual	None Visible	Per discharge	
PB34.65	08-Apr-15	08-Apr-15	50	8.0	6.5 – 8.5	6.7	Visual	None Visible	Per discharge	
TB34.10	08-Apr-15	08-Apr-15	50	7.0	6.5 – 8.5	8.2	Visual	None Visible	Per discharge	
PB30.70	08-Apr-15	09-Apr-15	50	25.0	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	

COM 01	08-Apr-15	09-Apr-15	50	5.0	6.5 – 8.5	8.3	Visual	None Visible	Per discharge	
COM 02	08-Apr-15	09-Apr-15	50	18.0	6.5 – 8.5	7.4	Visual	None Visible	Per discharge	
COM 03	08-Apr-15	09-Apr-15	50	8.0	6.5 – 8.5	7.1	Visual	None Visible	Per discharge	
TB28.40	08-Apr-15	10-Apr-15	50	26.0	6.5 – 8.5	7.8	Visual	None Visible	Per discharge	
TB30.60	08-Apr-15	09-Apr-15	50	12.0	6.5 – 8.5	7.8	Visual	None Visible	Per discharge	
TB29.50	08-Apr-15	10-Apr-15	50	N/A	6.5 – 8.5	N/A	Visual	None Visible	Per discharge	Discharged via watercart
PB24.90	08-Apr-15	09-Apr-15	50	13.0	6.5 – 8.5	8.2	Visual	None Visible	Per discharge	
TB25.70	08-Apr-15	09-Apr-15	50	22.0	6.5 – 8.5	7.7	Visual	None Visible	Per discharge	
PB25.80	08-Apr-15	09-Apr-15	50	30.0	6.5 – 8.5	8.3	Visual	None Visible	Per discharge	
PB30.70	15-Apr-15	16-Apr-15	50	13.0	6.5 – 8.5	7.5	Visual	None Visible	Per discharge	

Sediment Basin Water Monitoring

Project Name: Kundabung to Kempsey

Environmental Protection Licence Number: 20487

Link to public register on EPA website: <http://www.epa.nsw.gov.au/prpoeoapp/>

Premise Address: Kundabung Rd, Kundabung NSW 2441

Monitoring Data for the Month: May 2015



Monitoring Type: Water Discharge Monitoring

Licenced Discharge Point	Date Sampled	Date Discharged	Turbidity (nTu)		pH		Oil & Grease		Monitoring Frequency	Comments
			Licence limit	Results	Licence Limit	Results	Licence Limit	Results		
TB35.55	04-May-15	04-May-15	55	54.0	6.5 – 8.5	7.5	Visual	None Visible	Per discharge	
PB35.40	09-May-15	09-May-15	55	55.0	6.5 – 8.5	7.5	Visual	None Visible	Per discharge	
PB34.85	06-May-15	06-May-15	55	23.2	6.5 – 8.5	7.5	Visual	None Visible	Per discharge	
TB34.65	06-May-15	06-May-15	55	19.7	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
PB34.65	06-May-15	06-May-15	55	24.4	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
TB34.10	08-May-15	08-May-15	55	55.0	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
PB34.05	04-May-15	04-May-15	55	12.0	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	

PB30.70	08-May-15	08-May-15	55	50.0	6.5 – 8.5	6.7	Visual	None Visible	Per discharge	
COM 01	04-May-15	04-May-15	55	27.0	6.5 – 8.5	7.6	Visual	None Visible	Per discharge	
COM 02	04-May-15	06-May-15	55	55.0	6.5 – 8.5	6.9	Visual	None Visible	Per discharge	
COM 03	04-May-15	04-May-15	55	35.6	6.5 – 8.5	6.9	Visual	None Visible	Per discharge	
COM 03	08-May-15	08-May-15	55	36.9	6.5 – 8.5	6.7	Visual	None Visible	Per discharge	
TB28.40	04-May-15	06-May-15	55	40.1	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
TB29.50	04-May-15	06-May-15	55	51.3	6.5 – 8.5	7.2	Visual	None Visible	Per discharge	
TB30.60	04-May-15	08-May-15	55	46.7	6.5 – 8.5	7.7	Visual	None Visible	Per discharge	
PB24.90	08-May-15	08-May-15	55	47.3	6.5 – 8.5	8.1	Visual	None Visible	Per discharge	
PB25.80	07-May-15	07-May-15	55	38.3	6.5 – 8.5	7.4	Visual	None Visible	Per discharge	
TB25.50	11-May-15	11-May-15	55	13.0	6.5 – 8.5	6.8	Visual	None Visible	Per discharge	
COM1	20-May-15	20-May-15	55	10.5	6.5 – 8.5	7.6	Visual	None Visible	Per discharge	
TB35.55	28-May-15	28-May-15	55	47.5	6.5 – 8.5	7.0	Visual	None Visible	Per discharge	
PB34.85	26-May-15	28-May-15	55	15.8	6.5 – 8.5	7.0	Visual	None Visible	Per discharge	
TB34.65	28-May-15	28-May-15	55	48.2	6.5 – 8.5	8.3	Visual	None Visible	Per discharge	
TB34.10	26-May-15	26-May-15	55	22.3	6.5 – 8.5	7.7	Visual	None Visible	Per discharge	
PB34.05	26-May-15	26-May-15	55	53.2	6.5 – 8.5	8.5	Visual	None Visible	Per discharge	
PB30.70	27-May-15	27-May-15	55	37.4	6.5 – 8.5	6.7	Visual	None Visible	Per discharge	

COM 01	25-May-15	26-May-15	55	3.8	6.5 – 8.5	7.2	Visual	None Visible	Per discharge	
COM 02	25-May-15	28-May-15	55	48.0	6.5 – 8.5	8.1	Visual	None Visible	Per discharge	
COM 03	25-May-15	28-May-15	55	39.7	6.5 – 8.5	8.4	Visual	None Visible	Per discharge	
PB24.90	29-May-15	29-May-15	55	32.6	6.5 – 8.5	6.8	Visual	None Visible	Per discharge	
PB25.80	29-May-15	29-May-15	55	9.5	6.5 – 8.5	7.9	Visual	None Visible	Per discharge	
PB28.40	26-May-15	26-May-15	55	1.9	6.5 – 8.5	6.6	Visual	None Visible	Per discharge	
PB28.90	27-May-15	27-May-15	55	26.5	6.5 – 8.5	6.6	Visual	None Visible	Per discharge	
TB29.50	27-May-15	27-May-15	55	7.3	6.5 – 8.5	6.7	Visual	None Visible	Per discharge	
PB30.60	27-May-15	27-May-15	55	36.7	6.5 – 8.5	8.0	Visual	None Visible	Per discharge	

Sediment Basin Water Monitoring

Project Name: Kundabung to Kempsey

Environmental Protection Licence Number: 20487

Link to public register on EPA website: <http://www.epa.nsw.gov.au/prpoeoapp/>

Premise Address: Kundabung Rd, Kundabung NSW 2441

Monitoring Data for the Month: June 2015



Monitoring Type: Water Discharge Monitoring

Licenced Discharge Point	Date Sampled	Date Discharged	Turbidity (nTu)		pH		Oil & Grease		Monitoring Frequency	Comments
			Licence limit	Results	Licence Limit	Results	Licence Limit	Results		
COM01	16/06/15	16/06/15	55	12.7	6.5 – 8.5	7.4	Visual	None Visible	Per discharge	
COM02	16/06/15	16/06/15	55	12.1	6.5 – 8.5	7.8	Visual	None Visible	Per discharge	TSS – 12.0 (3 rd discharge)
TB25.50	15/06/15	15/06/15	55	9.2	6.5 – 8.5	7.6	Visual	None Visible	Per discharge	

Sediment Basin Water Monitoring

Project Name: Kundabung to Kempsey

Environmental Protection Licence Number: 20487

Link to public register on EPA website: <http://www.epa.nsw.gov.au/prpoeoapp/>

Premise Address: Kundabung Rd, Kundabung NSW 2441

Monitoring Data for the Month: July 2015



Monitoring Type: Water Discharge Monitoring

Licenced Discharge Point	Date Sampled	Date Discharged	Turbidity (nTu)		pH		Oil & Grease		Monitoring Frequency	Comments
			Licence limit	Results	Licence Limit	Results	Licence Limit	Results		

NO LICENCED DISCHARGES FOR JULY

Sediment Basin Water Monitoring

Project Name: Kundabung to Kempsey

Environmental Protection Licence Number: 20487

Link to public register on EPA website: <http://www.epa.nsw.gov.au/prpoeoapp/>

Premise Address: Kundabung Rd, Kundabung NSW 2441

Monitoring Data for the Month: August 2015



Monitoring Type: Water Discharge Monitoring

Licenced Discharge Point	Date Sampled	Date Discharged	Turbidity (nTu)		pH		Oil & Grease		Monitoring Frequency	Comments
			Licence limit	Results	Licence Limit	Results	Licence Limit	Results		
TB30.60	07-Aug-15	08-Aug-15	55	55.0	6.5 – 8.5	8.0	Visual	None Visible	Per discharge	
PB28.10	11-Aug-15	11-Aug-15	55	19.8	6.5 – 8.5	6.9	Visual	None Visible	Per discharge	
PB28.10	28-Aug-15	28-Aug-15	55	27.1	6.5 – 8.5	7.9	Visual	None Visible	Per discharge	TSS – 19.0 mg/L (3 rd sample)

3. Sediment Basin Water Monitoring

Project Name: Kundabung to Kempsey

Environmental Protection Licence Number: 20487

Link to public register on EPA website: <http://www.epa.nsw.gov.au/prpoeoapp/>

Premise Address: Kundabung Rd, Kundabung NSW 2441

Monitoring Data for the Month: September 2015

Monitoring Type: Water Discharge Monitoring



Licenced Discharge Point	Date Sampled	Date Discharged	Turbidity (nTu)		pH		Oil & Grease		Monitoring Frequency	Comments
			Licence limit	Results	Licence Limit	Results	Licence Limit	Results		
PB33.40	21-Sep-15	24-Sep-15	55	10.9	6.5 – 8.5	6.9	Visual	None Visible	Per discharge	
PB34.05	21-Sep-15	23-Sep-15	55	5.9	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
TB34.10	21-Sep-15	23-Sep-15	55	19.0	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
PB34.65	21-Sep-15	23-Sep-15	55	12.9	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
PB35.40	21-Sep-15	22-Sep-15	55	22.2	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
TB35.55	21-Sep-15	22-Sep-15	55	12.0	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	

COM1	23-Sep-15	23-Sep-15	55	14.2	6.5 – 8.5	7.5	Visual	None Visible	Per discharge	
PB28.40	23-Sep-15	24-Sep-15	55	20.4	6.5 – 8.5	7.0	Visual	None Visible	Per discharge	
PB28.90	23-Sep-15	24-Sep-15	55	11.0	6.5 – 8.5	7.6	Visual	None Visible	Per discharge	TSS = 11.0 mg/l
TB29.55	23-Sep-15	24-Sep-15	55	13.2	6.5 – 8.5	7.46	Visual	None Visible	Per discharge	TSS = 9.0 mg/l
PB28.10	23-Sep-15	23-Sep-15	55	21.7	6.5 – 8.5	7.66	Visual	None Visible	Per discharge	TSS = 4.0 mg/l
COM1	28-Sep-15	28-Sep-15	55	10.1	6.5 – 8.5	7.8	Visual	None Visible	Per discharge	
PB28.40	28-Sep-15	28-Sep-15	55	38.7	6.5 – 8.5	8.3	Visual	None Visible	Per discharge	
PB28.90	28-Sep-15	28-Sep-15	55	5.7	6.5 – 8.5	8.4	Visual	None Visible	Per discharge	
TB29.55	28-Sep-15	28-Sep-15	55	9.7	6.5 – 8.5	7.26	Visual	None Visible	Per discharge	
PB30.60	28-Sep-15	28-Sep-15	55	7.8	6.5 – 8.5	6.8	Visual	None Visible	Per discharge	
PB28.10	28-Sep-15	28-Sep-15	55	19.5	6.5 – 8.5	7.9	Visual	None Visible	Per discharge	
PB24.90	28-Sep-15	28-Sep-15	55	6.9	6.5 – 8.5	6.8	Visual	None Visible	Per discharge	
PB25.00	28-Sep-15	28-Sep-15	55	15.4	6.5 – 8.5	6.7	Visual	None Visible	Per discharge	
PB25.80	29-Sep-15	29-Sep-15	55	7.0	6.5 – 8.5	7.4	Visual	None Visible	Per discharge	

PACIFIC HIGHWAY UPGRADE - KUNDABUNG TO KEMPSEY

ENVIRONMENT PROTECTION AUTHORITY MONTHLY REPORT

- 1st October – 31st October 2015

Contents

1. Introduction	2
1.1 Description of Works.....	2
1.2 Consultation Activities	3
2. Weather	4
2.1 Discussion	4
3. Sediment Basin Water Monitoring	6
4. Noise Monitoring.....	8
5. Vibration Monitoring.....	9
6. Upcoming Out of Hours Works Planned.....	10
7. Complaints.....	11
7.1 Summary of Complaints for the month	11
8. Non-Compliance.....	12
8.1 Summary of Non-compliances	12

1. Introduction

Environmental Protection Licence (EPL) 20487 was issued to McConnell Dowell for the Kundabung to Kempsey Pacific Highway Upgrade project on the 10th of November 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

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 2015 were limited to the following:

- Milestone 1 to Mobbs Drive sub-base paving (1.6km)
- Topsoil placement & Permanent revegetation (25,000m² in October)
- Earthworks (820 000m³)
- Pipe and Box Culvert installation – 3 to complete within a month
- Long (pavement) drainage
- Bridge planks – Kundabung Rd, Stumpy, Pipers and Smiths Creek - complete
- SMZ placement
- Fauna Fencing - Ongoing
- Soft scour treatments
- Pipers Creek local road
- Fauna pole installation
- Gate 8 – Compound access complete
- Wharf Rd bus stop
- Scour protection – Smiths Creek
- Sealing and diversion of local traffic to new Mingaletta Road

The works scheduled for next month include:

- SMZ placement
- Bulk earthworks
- Blasting / Crushing
- Paving
- Bridge decks; Smith's, Stumpy and Pipers
- Scour protection – Piper's ongoing; commence Stumpy.

1.2 Consultation Activities

The project's consultation activities during October, 2015 included the following:

Groups	Date	Key Topics
Adjacent property adjustment stakeholders	October	Property adjustment agreements
Potentially affected sensitive receivers	October	Out of hours works – paving, local roads
Potentially affected sensitive receivers	October	Blasting.
Potentially affected sensitive receivers	October	Paving

At House Noise Treatments

Nil.

Upcoming community and stakeholder activities for October

- ◆ Community notification of a 3-month look ahead for out of hour's works that will be sent out to the potentially affected residences;
- ◆ Community notification (Ongoing) for commencement and continuation of blasting;
- ◆ Consultation and community notification for OOHW for paving, saw-cutting and associated batch plant operations; and
- ◆ Notification of Community Information Session – 26th November 2015

2. Weather

2.1 Discussion

The automatic recording weather station at Kundabung records fifteen minute rainfall totals. The Bureau of Meteorology (BoM) gauge at Kempsey Airport (BoM ID: 59007) is also monitored.

The total rainfall received for the month of October is as follows: -

Month	Total monthly rainfall (Kundabung)	Total monthly rainfall (Kempsey Airport)
October	63.8 mm	91.6mm

The site experienced a total of 8 rain days throughout the month of October 2015.

The rainfall recorded at Kundabung in October was less than the Kempsey Airport mean October rainfall, which is 75mm. The Kempsey Airport gauge received above average rainfall for the month of October. A summary of weather conditions recorded over the month for October, 2015 by the BoM is detailed below in Table 2.1.

Table 2.1: Weather conditions recorded in October, 2015 at Kempsey Airport by BOM.

Date	Day	Temps		Rain mm	Evap mm	Sun hours	Max wind gust			9 am			3 pm								
		Min	Max				Dir	Spd	Time	Temp	RH	Cld	Dir	Spd	MSLP	Temp	RH	Cld	Dir	Spd	MSLP
		°C	°C				km/h	km/h	local	°C	%	g th	km/h	hPa	°C	%	g th	km/h	hPa		
1	Th	10.0	27.3	0			E	35	13:30	20.7	52		NW	7	1026.5	25.5	45		ENE	19	1023.3
2	Fr	9.4	27.3	0			S	39	10:51	22.8	57		SE	7	1031.4	23.9	56		SE	26	1030.8
3	Sa	9.3	27.9	0			E	31	14:44	22.3	61		N	9	1032.6	25.8	42		ENE	22	1027.2
4	Su	9.4	34.1	0			NW	28	09:47	22.4	53		W	11	1027.1	33.7	17		ENE	13	1023.1
5	Mo	13.2	34.8	0			E	30	13:15	23.3	41		WNW	11	1025.3	32.9	26		ENE	19	1022.5
6	Tu	9.0	33.1	0			E	31	13:02	22.0	51		WNW	9	1025.2	31.8	30		E	20	1021.3
7	We	10.4	31.4	0			SSE	72	13:48	21.9	57		W	7	1023.9	25.0	51		S	48	1027.2
8	Th	13.7	19.9	0			ESE	33	11:31	17.3	76		SW	11	1037.1	18.8	70		SE	19	1034.9
9	Fr	14.4	25.5	0.4			NE	35	14:57	18.6	74		NW	9	1034.9	22.6	47		ENE	19	1030.5
10	Sa	9.0	25.5	0			E	35	13:09	18.2	74		W	9	1029.9	24.6	48		NE	22	1025.9
11	Su	9.6	27.0	0			E	37	13:26	18.3	74		NW	6	1024.4	26.0	50		ENE	24	1019.3
12	Mo	13.5	33.0	1.2			WNW	43	10:50	20.1	75		WNW	15	1019.4	27.7	46		E	20	1013.9
13	Tu	12.9	29.0	0			SE	37	12:30	24.0	60		WSW	13	1019.4	24.7	49		SSE	11	1018.0
14	We	15.8	23.7	71.6			ESE	30	15:35	17.2	93		NW	9	1025.2	22.1	71		SE	17	1024.2
15	Th	14.8	25.1	4.4			NE	35	14:05	19.6	84		W	4	1026.7	23.9	62		ENE	24	1023.7
16	Fr	12.2	26.5	0			ENE	31	13:36	18.8	86		SW	6	1024.2	25.5	56		E	20	1021.1
17	Sa	11.9	27.3	0			E	31	14:27	17.6	92		SE	2	1022.9	26.5	53		E	22	1020.6
18	Su	14.9	26.6	0.2			E	30	13:39	22.3	70		NNE	4	1027.1	25.7	53		ENE	17	1025.2
19	Mo	13.7	25.7	0.2			E	33	14:24	20.8	77		W	13	1027.0	25.5	48		ENE	15	1023.6
20	Tu	10.6	28.1	0			ENE	37	12:50	20.3	73		NE	7	1023.3	27.3	50		NE	22	1018.3
21	We	12.3	29.0	0			NE	35	13:48	21.7	66		NNE	9	1016.7	28.2	48		ENE	24	1011.6
22	Th	14.0	23.0	0.8			WSW	41	07:58	18.2	89		WSW	28	1014.0	21.7	72		NNE	15	1009.6
23	Fr	16.4	24.3	4.2			SSW	63	10:43	19.9	65		SSW	24	1019.6	21.8	58		SE	20	1018.5
24	Sa	12.4	23.3	0.2			NE	33	14:44	17.7	71		SSE	9	1025.0	22.4	52		ENE	17	1021.2
25	Su	9.8	26.2	0			NE	37	14:37	19.8	67		NNW	7	1023.2	25.4	53		ENE	22	1018.8
26	Mo	12.3	32.7	0			S	54	17:38	23.0	67		NNE	7	1018.2	27.9	53		ENE	22	1013.2
27	Tu	15.3	21.8	5.8			SSW	46	08:37	21.7	70		SSW	20	1020.8	19.4	69		SSE	28	1022.5
28	We	11.3	21.0	2.6			S	28	07:54	18.9	61		S	19	1024.2	19.7	52		ESE	11	1022.2
29	Th	11.1	22.3	0			E	30	16:17	15.9	78		W	7	1023.4	20.9	62		ENE	17	1021.3
30	Fr	10.1	24.3	0			ENE	39	13:34	19.0	71		SW	6	1023.7	23.2	55		ENE	20	1020.5
31	Sa	12.3	25.2	0			NE	39	15:00	20.2	66		NE	7	1022.5	22.9	58		NE	26	1019.1
Statistics for October 2015																					
Mean		12.1	26.8							20.1	69			10	1024.7	24.9	51			20	1021.7
Lowest		9.0	19.9	0						15.9	41		SE	2	1014.0	18.8	17		#	11	1009.6
Highest		16.4	34.8	71.6			SSE	72		24.0	93		WSW	28	1037.1	33.7	72		S	48	1034.9
Total				91.6																	

3. Sediment Basin Water Monitoring

Project Name: Kundabung to Kempsey

Environmental Protection Licence Number: 20487

Link to public register on EPA website: <http://www.epa.nsw.gov.au/prpoeoapp/>

Premise Address: Kundabung Rd, Kundabung NSW 2441

Monitoring Data for the Month: October, 2015

Monitoring Type: Water Discharge Monitoring



Licenced Discharge Point	Date Sampled	Date Discharged	Turbidity (nTu)		pH		Oil & Grease		Monitoring Frequency	Comments
			Licence limit	Results	Licence Limit	Results	Licence Limit	Results		
PB33.40	16-Oct-15	16-Oct-15	55	19.9	6.5 – 8.5	6.8	Visual	None Visible	Per discharge	
PB34.05	15-Oct-15	17-Oct-15	55	31.7	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
TB34.10	15-Oct-15	17-Oct-15	55	11.2	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
PB34.65	15-Oct-15	16-Oct-15	55	14.6	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
PB35.40	15-Oct-15	16-Oct-15	55	49.6	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	

TB35.55	15-Oct-15	16-Oct-15	55	9.1	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
TB36.40	15-Oct-15	16-Oct-15	55	20.1	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
PB28.40	16-Oct-15	16-Oct-15	55	29.3	6.5 – 8.5	6.9	Visual	None Visible	Per discharge	6mg/L TSS
PB28.90	16-Oct-15	16-Oct-15	55	7.3	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
TB29.55	16-Oct-15	16-Oct-15	55	36.4	6.5 – 8.5	7.0	Visual	None Visible	Per discharge	
PB30.60	16-Oct-15	16-Oct-15	55	26.7	6.5 – 8.5	6.8	Visual	None Visible	Per discharge	
PB30.10	16-Oct-15	16-Oct-15	55	22.7	6.5 – 8.5	7.1	Visual	None Visible	Per discharge	
PB25.00	15-Oct-15	15-Oct-15	55	31.2	6.5 – 8.5	6.5	Visual	None Visible	Per discharge	
PB25.80	15-Oct-15	15-Oct-15	55	31.7	6.5 – 8.5	6.6	Visual	None Visible	Per discharge	
PB28.10	16-Oct-15	16-Oct-15	55	49.0	6.5 – 8.5	6.7	Visual	None Visible	Per discharge	
PB24.90	16-Oct-15	16-Oct-15	55	25.2	6.5 – 8.5	6.8	Visual	None Visible	Per discharge	
FOW1	20-Oct-15	20-Oct-15	55	43.9	6.5 – 8.5	7.2	Visual	None Visible	Per discharge	

4. Noise Monitoring

Monthly noise monitoring for October, 2015 was delayed due to changes in the organisational chart and wet weather and was conducted on 6th November, 2015. This was a wet weather day with minimal site activity, and was done to investigate the background Pacific Highway traffic levels. The results are presented below.

Noise Monitoring Event Number	Date monitored	Monitoring requirement	Activity monitored	Monitoring location	Monitor used	Distance to receiver	Predicted Noise (dBa)		NML	Results (Laeq, 15mins)	Monitoring Frequency	Comments
							CNVMP	Soundadvice				
25	06/11/2015	NVMP November 2015	Background	NCA 06 - 436	RION NL-42	100m	42-67	N/A	53	51.4	Monthly	Dominant noise pac highway traffic.
26	06/11/2015	NVMP November 2015	Background	NCA 09 - 396	RION NL-42	100m	43-57	N/A	48	54.6	Monthly	Dominant noise pac highway traffic.
27	06/11/2015	NVMP November 2015	Background	NCA 07 - 439	RION NL-42	50m	48-62	N/A	47	54.3	Monthly	Dominant noise pac highway traffic.
28	06/11/2015	NVMP November 2015	Background	NCA 05 - 446	RION NL-42	100m	43-57	N/A	47	57.0	Monthly	Dominant noise pac highway traffic.

5. Vibration Monitoring

There were 5 blasts carried out in the month of October. Vibration monitoring results outlined below.

Vibration Monitoring Event Number	Date monitored	Activity monitored	Monitoring location	Monitor used	Distance to receiver	Vibration PPV (mm/s)			Overpressure (dB (l))		Monitoring Frequency	Comments
						Licence limit	Trigger level	Results	Licence limit	Results		
19	1/10/2015	Cut 3 blast	NCA08 - 384	Minimate III	0.8km	5	0.51	Nil trigger	115	Nil trigger	Per blast	
20	7/10/2015	Cut 3 blast	NCA08 - 384	Minimate III	0.8km	5	0.51	Nil trigger	115	Nil trigger	Per blast	
21	21/10/2015	Cut 19 blast	NCA01 - 492	Minimate III	1.4km	5	0.51	Nil trigger	115	Nil trigger	Per blast	
22	21/10/2015	Cut 21 blast	NCA01 - 492	Minimate III	1.2km	5	0.51	Nil trigger	115	Nil trigger	Per blast	
23	28/10/2015	Cut 19 blast	NCA01 - 492	Minimate III	1.4km	5	0.51	Nil trigger	115	Nil trigger	Per blast	

6. Upcoming Out of Hours Works Planned

Upcoming planned out of hours works for September 2015:

- ◆ Kundabung Road Bridge beam placement;
- ◆ Earthworks between Pipers and Smiths Creek;
- ◆ Stockpiling mulch, topsoil and unsuitable materials;
- ◆ Works associated with Barrie's, Stumpy and Smith's Creek (including scour protection works);
- ◆ Earthworks in cuts 19 and 20;
- ◆ Access to the Fowler stockpile site (negotiated agreements);
- ◆ Local road works between Pipers Ck and Cut 15;
- ◆ Local roads work on Rodeo drive and Upper Smiths Creek Rds;
- ◆ Paving batch plant operation; and
- ◆ Culvert works.

Where works are deemed to be above the NML for out of hour's works, negotiated agreements between the licensee and the potentially affected receiver will be sought.

7. Complaints

7.1 Summary of Complaints for the month

There was one complaint recorded in October. Details are recorded in the table below.

Date	Contact Method	Address	Description of complaint	Kundabung to Kempsey response
22/10/15	1800 phone	96 Mingaletta Road	Condition of the road at Mingaletta with the current weather conditions. She explained that where you exit the diversion and reach Mobbs Rd the section between the Highway and the turn is quite soupy. She said that it makes turning onto the highway hard.	<p>Remedy Requested: Nil</p> <p>Action Taken:</p> <ul style="list-style-type: none"> • Issue raised with construction team immediately <p>Corrective Action:</p> <ul style="list-style-type: none"> • SMZ placed on Mobbs Drive on 29th October.

8. Non-Compliance

8.1 Summary of Non-compliances

The JV received an email from the EPA on the 16th October, 2015 regarding the lack of, and poor state of controls at Fill 20 (Chainage 34,700). The JV was reminded of its requirement to comply with relevant EPL conditions.

In addition to immediately addressing the problems on site, the JV undertook a number of corrective actions such as:

- ◆ Review and update of internal systems
- ◆ Additional erosion and sediment control training conducted by the Project Soil Conservationist on the 15th October (as a result of observations from the ERG on 13th October).
- ◆ Additional environmental resource to support update and maintenance of erosion and sediment control plans.

3. Sediment Basin Water Monitoring

Project Name: Kundabung to Kempsey

Environmental Protection Licence Number: 20487

Link to public register on EPA website: <http://www.epa.nsw.gov.au/prpoeoapp/>

Premise Address: Kundabung Rd, Kundabung NSW 2441

Monitoring Data for the Month: October, 2015

Monitoring Type: Water Discharge Monitoring

The project had 47 licensed sediment basin discharges in November, 2015. The results of water quality monitoring for each of these discharges are shown in Table 3.1.



Table 3.1 Water quality monitoring results for November, 2015 licensed discharges

Licenced Discharge Point	Date Sampled	Date Discharged	Turbidity (NTU)		pH		Oil and grease		Monitoring Frequency	TSS (mg/L)
			Licence Limit	Results	Licence Limit	Results	Licence Limit	Results		
PB24.90	11-Nov-15	11-Nov-15	55	20.1	6.5 – 8.5	8.0	Visual	Non visible	Per discharge	13.0
PB25.00	09-Nov-15	10-Nov-15	55	6.2	6.5 – 8.5	6.6	Visual	Non visible	Per discharge	4.0
PB25.80	11-Nov-15	11-Nov-15	55	55.0	6.5 – 8.5	7.4	Visual	Non visible	Per discharge	
TB24.72	09-Nov-15	10-Nov-15	55	5.1	6.5 – 8.5	7.3	Visual	Non visible	Per discharge	2.0
PB28.10	11-Nov-15	11-Nov-15	55	45.8	6.5 – 8.5	6.6	Visual	Non visible	Per discharge	12.0
PB28.40	12-Nov-15	12-Nov-15	55	55.0	6.5 – 8.5	8.3	Visual	Non visible	Per discharge	
PB28.90	12-Nov-15	12-Nov-15	55	38.0	6.5 – 8.5	7.9	Visual	Non visible	Per discharge	17.0
TB29.50	12-Nov-15	12-Nov-15	55	15.3	6.5 – 8.5	8.0	Visual	Non visible	Per discharge	6.0
PB30.60	11-Nov-15	11-Nov-15	55	18.1	6.5 – 8.5	7.5	Visual	Non visible	Per discharge	
TB29.55	13-Nov-15	13-Nov-15	55	52.1	6.5 – 8.5	8.1	Visual	Non visible	Per discharge	36.0
COM01	10-Nov-15	10-Nov-15	55	35.2	6.5 – 8.5	7.9	Visual	Non visible	Per discharge	17.0
COM03	09-Nov-15	09-Nov-15	55	11.9	6.5 – 8.5	6.8	Visual	Non visible	Per discharge	
PB30.70	11-Nov-15	11-Nov-15	55	8.4	6.5 – 8.5	8.1	Visual	Non visible	Per discharge	22.0
PB33.40	12-Nov-15	12-Nov-15	55	19.6	6.5 – 8.5	7.8	Visual	Non visible	Per discharge	10.0
PB34.05	12-Nov-15	12-Nov-15	55	51.1	6.5 – 8.5	8.1	Visual	Non visible	Per discharge	20.0
TB34.10	09-Nov-15	10-Nov-15	55	13.6	6.5 – 8.5	6.6	Visual	Non visible	Per discharge	7.0
PB34.65	09-Nov-15	10-Nov-15	55	15.3	6.5 – 8.5	6.9	Visual	Non visible	Per discharge	35.0
PB34.85	09-Nov-15	10-Nov-15	55	31.7	6.5 – 8.5	6.8	Visual	Non visible	Per discharge	16.0
TB35.55	09-Nov-15	10-Nov-15	55	13.3	6.5 – 8.5	7.0	Visual	Non visible	Per discharge	4.0
TB36.15	11-Nov-15	11-Nov-15	55	23.2	6.5 – 8.5	8.4	Visual	Non visible	Per discharge	5.0
PB36.80	09-Nov-15	10-Nov-15	55	18.7	6.5 – 8.5	6.8	Visual	Non visible	Per discharge	7.0
PB37.70	11-Nov-15	12-Nov-15	55	55.0	6.5 – 8.5	8.0	Visual	Non visible	Per discharge	21.0
TB24.72	16-Nov-15	17-Nov-15	55	15.3	6.5 – 8.5	8.3	Visual	Non visible	Per discharge	
PB24.90	17-Nov-15	18-Nov-15	55	46.2	6.5 – 8.5	7.1	Visual	Non visible	Per discharge	
PB25.00	16-Nov-15	16-Nov-15	55	4.6	6.5 – 8.5	7.8	Visual	Non visible	Per discharge	
PB25.80	16-Nov-15	16-Nov-15	55	46.1	6.5 – 8.5	8.4	Visual	Non visible	Per discharge	14
PB28.10	18-Nov-15	18-Nov-15	55	48.1	6.5 – 8.5	6.7	Visual	Non visible	Per discharge	

Licenced Discharge Point	Date Sampled	Date Discharged	Turbidity (NTU)		pH		Oil and grease		Monitoring Frequency	TSS (mg/L)
			Licence Limit	Results	Licence Limit	Results	Licence Limit	Results		
PB28.40	17-Nov-15	18-Nov-15	55	7.8	6.5 – 8.5	7.6	Visual	Non visible	Per discharge	2
PB28.90	16-Nov-15	17-Nov-15	55	53.3	6.5 – 8.5	7.6	Visual	Non visible	Per discharge	
TB29.50	17-Nov-15	17-Nov-15	55	12.3	6.5 – 8.5	6.6	Visual	Non visible	Per discharge	
TB29.55	17-Nov-15	17-Nov-15	55	32.9	6.5 – 8.5	6.7	Visual	Non visible	Per discharge	
PB30.60	17-Nov-15	18-Nov-15	55	45.5	6.5 – 8.5	7.3	Visual	Non visible	Per discharge	
COM01	17-Nov-15	17-Nov-15	55	51.8	6.5 – 8.5	7.9	Visual	Non visible	Per discharge	
COM02	17-Nov-15	20-Nov-15	55	54.7	6.5 – 8.5	8.3	Visual	Non visible	Per discharge	18
COM03	16-Nov-15	18-Nov-15	55	21.4	6.5 – 8.5	8.0	Visual	Non visible	Per discharge	3.0
PB30.70	16-Nov-15	18-Nov-15	55	17.9	6.5 – 8.5	7.7	Visual	Non visible	Per discharge	
PB34.05	17-Nov-15	18-Nov-15	55	52.8	6.5 – 8.5	7.5	Visual	Non visible	Per discharge	
TB34.10	17-Nov-15	17-Nov-15	55	9.2	6.5 – 8.5	7.3	Visual	Non visible	Per discharge	
PB34.65	16-Nov-15	16-Nov-15	55	28.1	6.5 – 8.5	7.2	Visual	Non visible	Per discharge	
PB34.85	16-Nov-15	16-Nov-15	55	16.4	6.5 – 8.5	7.9	Visual	Non visible	Per discharge	
PB35.40	16-Nov-15	16-Nov-15	55	50.3	6.5 – 8.5	7.9	Visual	Non visible	Per discharge	7
TB35.55	16-Nov-15	17-Nov-15	55	11.4	6.5 – 8.5	8.4	Visual	Non visible	Per discharge	
TB35.80	17-Nov-15	20-Nov-15	55	36.2	6.5 – 8.5	7.6	Visual	Non visible	Per discharge	
TB36.15	17-Nov-15	20-Nov-15	55	7.1	6.5 – 8.5	8.0	Visual	Non visible	Per discharge	
PB36.80	16-Nov-15	17-Nov-15	55	16.6	6.5 – 8.5	8.4	Visual	Non visible	Per discharge	
PB36.85	17-Nov-15	19-Nov-15	55	52.4	6.5 – 8.5	7.4	Visual	Non visible	Per discharge	11
PB37.70	17-Nov-15	19-Nov-15	55	32.9	6.5 – 8.5	7.4	Visual	Non visible	Per discharge	

1. Sediment Basin Water Monitoring



Project Name: Kundabung to Kempsey

Environmental Protection Licence Number: 20487

Link to public register on EPA website: <http://www.epa.nsw.gov.au/prpoeoapp/>

Premise Address: Kundabung Rd, Kundabung NSW 2441

Monitoring Data for the Month: December, 2015

Monitoring Type: Water Discharge Monitoring

The project had 31 licensed sediment basin discharges in December, 2015. The results of water quality monitoring for each of these discharges are shown in Table 3.1.

Table 3.1 Water quality monitoring results for December, 2015 licensed discharges

Licenced Discharge Point	Date Sampled	Date Discharged	Turbidity (NTU)		pH		Oil and grease		Monitoring Frequency	TSS (mg/L)
			Licence Limit	Results	Licence Limit	Results	Licence Limit	Results		
PB37.70	11-Dec-15	11-Dec-15	55	21.3	6.5 – 8.5	8.3	Visual	Non visible	Per discharge	
PB36.85	11-Dec-15	11-Dec-15	55	11.8	6.5 – 8.5	8.0	Visual	Non visible	Per discharge	
TB35.55	11-Dec-15	11-Dec-15	55	6.2	6.5 – 8.5	7.5	Visual	Non visible	Per discharge	
TB34.10	11-Dec-15	11-Dec-15	55	16.7	6.5 – 8.5	6.9	Visual	Non visible	Per discharge	
PB30.60	11-Dec-15	11-Dec-15	55	9.2	6.5 – 8.5	7.0	Visual	Non visible	Per discharge	
TB29.55	11-Dec-15	11-Dec-15	55	28.6	6.5 – 8.5	7.3	Visual	Non visible	Per discharge	
PB28.90	11-Dec-15	11-Dec-15	55	17.6	6.5 – 8.5	7.4	Visual	Non visible	Per discharge	
PB28.10	11-Dec-15	11-Dec-15	55	34.1	6.5 – 8.5	6.6	Visual	Non visible	Per discharge	
PB25.80	11-Dec-15	11-Dec-15	55	18.9	6.5 – 8.5	7.0	Visual	Non visible	Per discharge	
PB24.90	13-Dec-15	14-Dec-15	55	43.7	6.5 – 8.5	7.4	Visual	Non visible	Per discharge	
TB24.72	11-Dec-15	11-Dec-15	55	8.0	6.5 – 8.5	6.7	Visual	Non visible	Per discharge	
PB25.00	11-Dec-15	11-Dec-15	55	3.5	6.5 – 8.5	7.8	Visual	Non visible	Per discharge	
COM1	11-Dec-15	11-Dec-15	55	9.5	6.5 – 8.5	8.3	Visual	Non visible	Per discharge	
PB24.90	30-Dec-15	30-Dec-15	55	10.1	6.5 – 8.5	8.1	Visual	Non visible	Per discharge	
PB25.00	28-Dec-15	28-Dec-15	55	9.1	6.5 – 8.5	6.6	Visual	Non visible	Per discharge	
PB28.90	30-Dec-15	02-Dec-15	55	46.4	6.5 – 8.5	6.9	Visual	Non visible	Per discharge	
TB29.55	29-Dec-15	29-Dec-15	55	7.6	6.5 – 8.5	6.9	Visual	Non visible	Per discharge	
PB30.60	30-Dec-15	02-Dec-15	55	47.1	6.5 – 8.5	6.8	Visual	Non visible	Per discharge	
COM01	29-Dec-15	29-Dec-15	55	26.1	6.5 – 8.5	6.8	Visual	Non visible	Per discharge	
COM02	29-Dec-15	29-Dec-15	55	38.0	6.5 – 8.5	6.9	Visual	Non visible	Per discharge	
COM03	29-Dec-15	29-Dec-15	55	34.1	6.5 – 8.5	7.1	Visual	Non visible	Per discharge	
PB33.40	30-Dec-15	30-Dec-15	55	2.7	6.5 – 8.5	7.1	Visual	Non visible	Per discharge	
PB34.05	28-Dec-15	28-Dec-15	55	21.5	6.5 – 8.5	6.7	Visual	Non visible	Per discharge	
TB34.10	29-Dec-15	29-Dec-15	55	27.0	6.5 – 8.5	6.7	Visual	Non visible	Per discharge	
PB34.65	28-Dec-15	28-Dec-15	55	3.2	6.5 – 8.5	6.7	Visual	Non visible	Per discharge	
PB34.85	28-Dec-15	28-Dec-15	55	17.6	6.5 – 8.5	6.6	Visual	Non visible	Per discharge	
TB35.55	29-Dec-15	29-Dec-15	55	39.9	6.5 – 8.5	8.1	Visual	Non visible	Per discharge	
TB36.15	29-Dec-15	29-Dec-15	55	8.3	6.5 – 8.5	7.6	Visual	Non visible	Per discharge	

Licenced Discharge Point	Date Sampled	Date Discharged	Turbidity (NTU)		pH		Oil and grease		Monitoring Frequency	TSS (mg/L)
			Licence Limit	Results	Licence Limit	Results	Licence Limit	Results		
PB36.80	29-Dec-15	29-Dec-15	55	20.1	6.5 – 8.5	6.7	Visual	Non visible	Per discharge	
PB36.85	30-Dec-15	30-Dec-15	55	40.5	6.5 – 8.5	6.9	Visual	Non visible	Per discharge	
PB37.70	30-Dec-15	30-Dec-15	55	48.1	6.5 – 8.5	8.4	Visual	Non visible	Per discharge	